DOCKETED	
Docket Number:	87-AFC-01C
Project Title:	COMPLIANCE-Luz Solar Electric Generating System Cogeneration AFC (150 MW) Units III-VII.
TN #:	236532
Document Title:	SEGS III - VII Second Semi-annual Evaporation Pond Monitoring Report
Description:	N/A
Filer:	Glen T King
Organization:	NextEra Energy
Submitter Role:	Applicant
Submission Date:	2/1/2021 9:00:15 AM
Docketed Date:	2/1/2021

Date: January 28, 2021

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: **760-762-1505**
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 SECOND SEMIANNUAL DETECTION MONITORING REPORT SEGS III – VII KRAMER JUNCTION Board Order No. 6-97-58

January 13, 2021

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 SECOND SEMIANNUAL DETECTION MONITORING REPORT

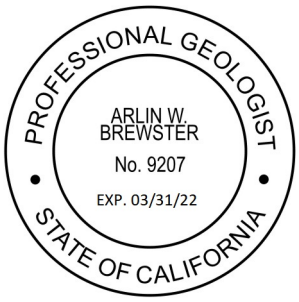
SEGS III – VII KRAMER JUNCTION

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

January 13, 2021

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1.0 INTRODUCTION

Northstar Environmental Remediation (Northstar) of Lake Forest, California has prepared this 2020 Second 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 December 31, 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 second semester of 2020, leaks were not detected from any sumps. During the reporting period, the highest monthly totals for each pond were 0 gallons in Pond 3, Pond 4, and Pond 5. Ponds 3 and 4 remain out of service pending further assessment and/or repairs.

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, no water was discharged to any of the ponds. Wastewater discharge to all ponds was ceased in February 2020 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, June 15, September 16, and December 8, 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 to 7**. 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 collecting while purging, including electrical conductivity, pH, and temperature. After three volumes have been purged, a sample set is collected, chilled, and delivered to Eurofins Calscience Irvine (formerly TestAmerica), 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 210 to 350 mg/l; sulfate from 190 to 340 mg/l; and TDS from 850 to 1,300 mg/l. All laboratory analytical results were below the required thresholds.

4.0 NEUTRON PROBE MONITORING

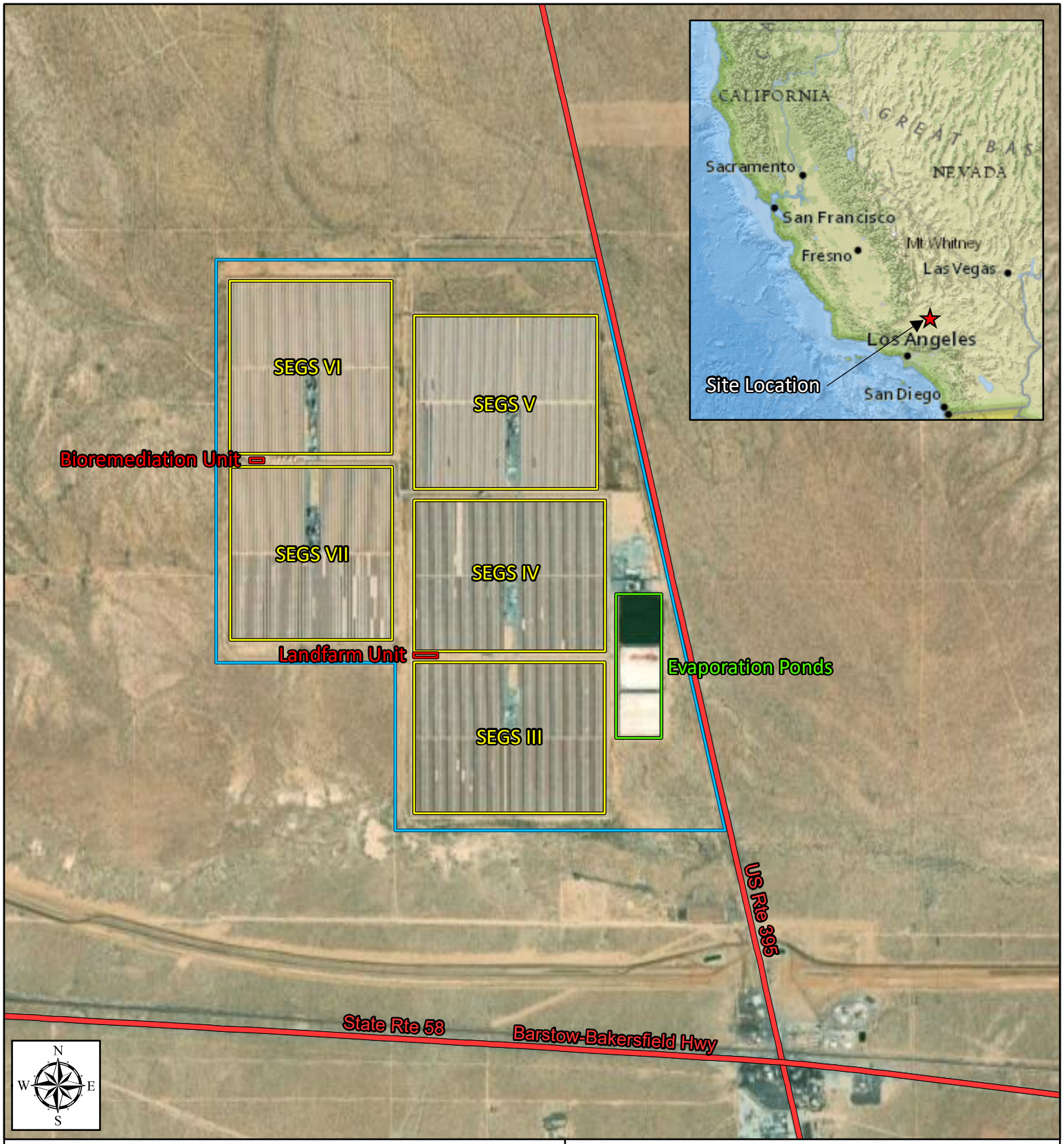
A CPN, Inc. Model 503 DR Hydro-Probe™ neutron probe is used to estimate the soil moisture below the evaporation ponds. The probe is passed through a series of horizontal wells beneath the ponds (numbered HN-1 through HN-10) and vertical wells at the cardinal points of each pond (numbered VN-2 through 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 24/25, June 25/26, September 17/18, and December 9/10, 2020. Well VN-2 was damaged prior to the reporting period and is no longer used. The moisture probe readings for each 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.

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

NORTHSTAR ENVIRONMENTAL REMEDIATION	Scale: 1:30,000	Date: 08 Jan 2020
	Drawn By: AWB	Checked By: AWB

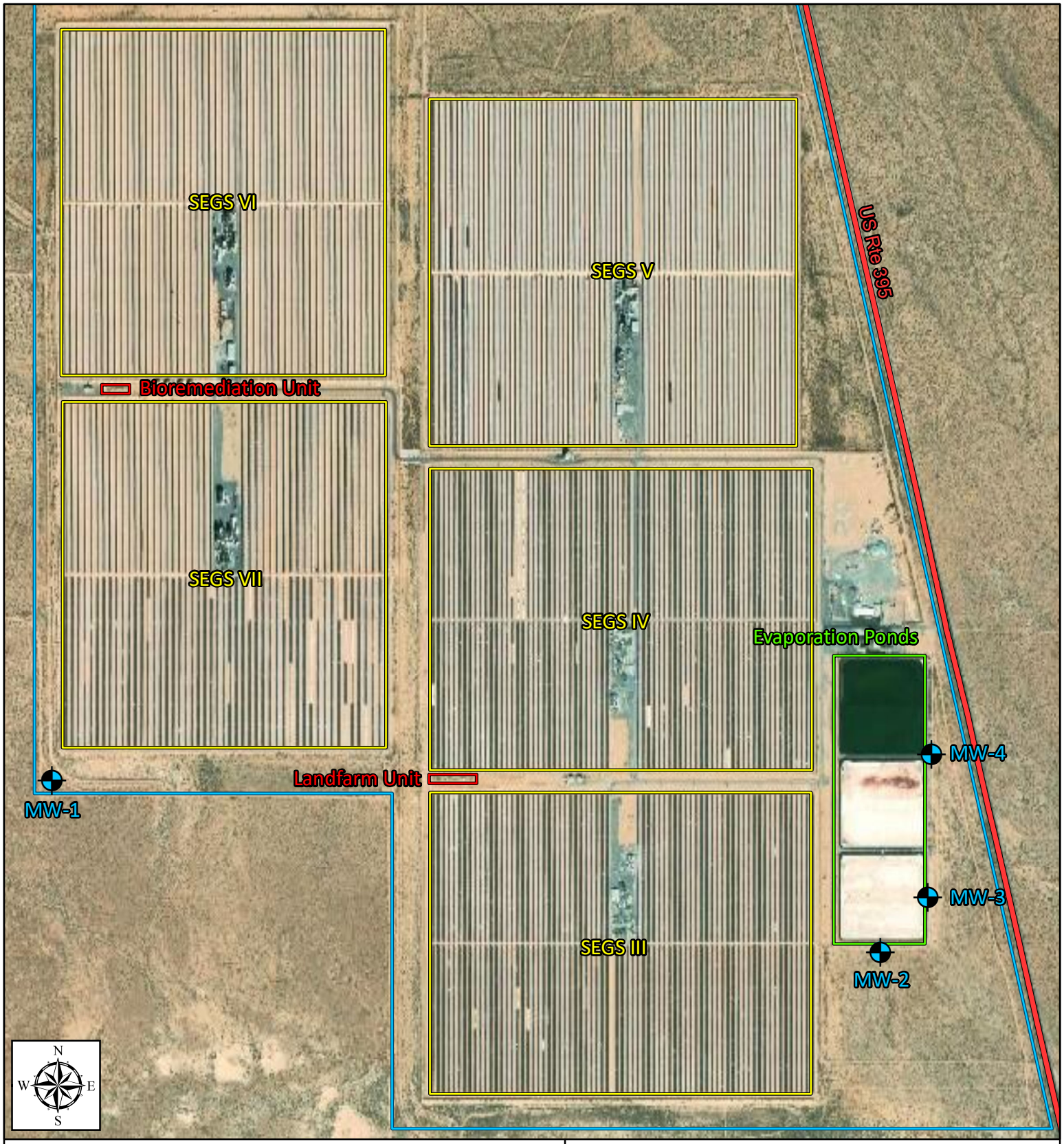
Legend

- 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

NORTHSTAR ENVIRONMENTAL REMEDIATION	Scale: 1:5,000	Date: 08 Jan 2020
	Drawn By: AWB	Checked By: AWB



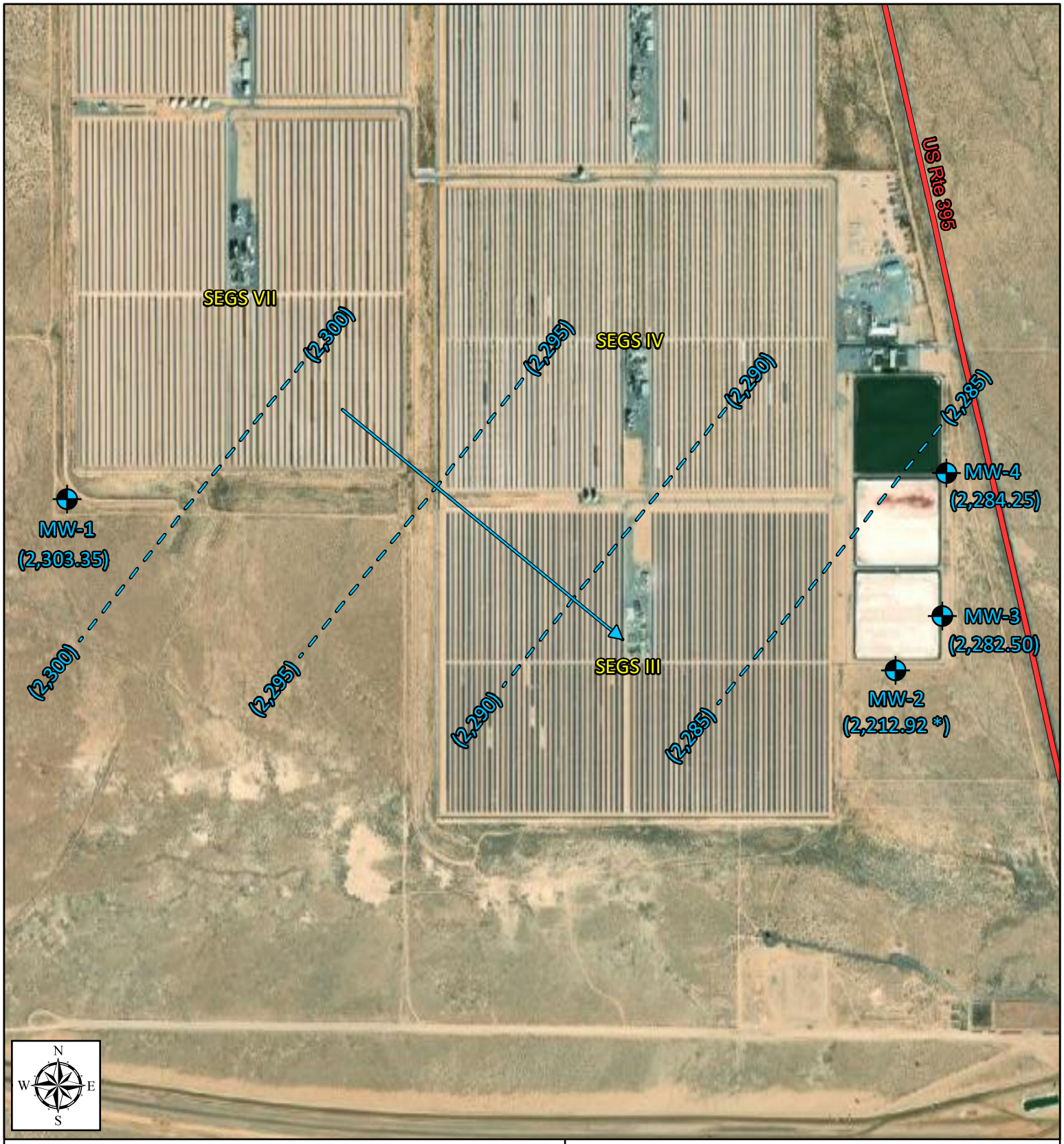
Legend

- 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

NORTHSTAR ENVIRONMENTAL REMEDIATION	Scale: 1:15,000	Date: 08 Jan 2020
	Drawn By: AWB	Checked By: AWB



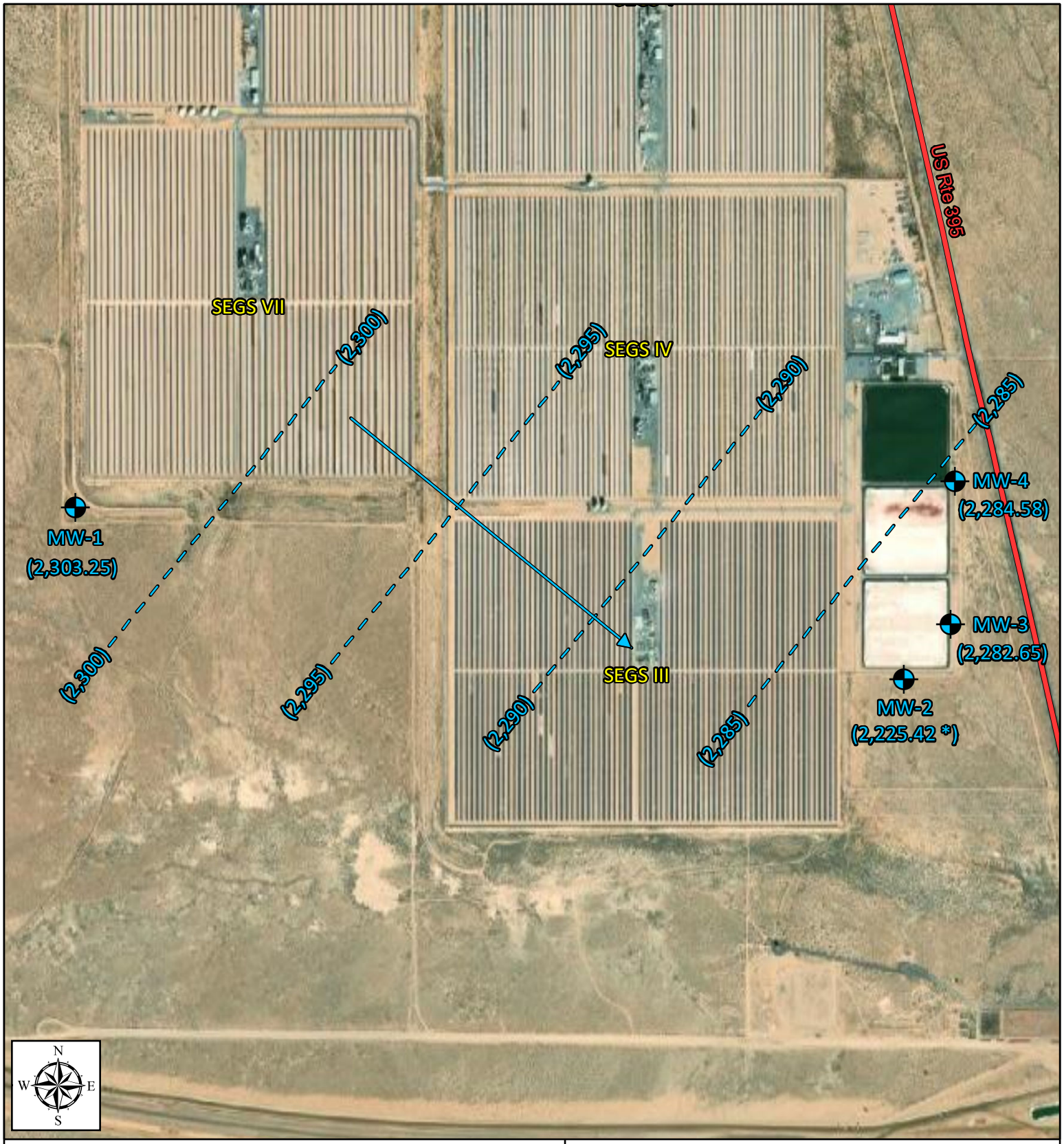
Legend

- 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

NORTHSTAR ENVIRONMENTAL REMEDIATION	Scale: 1:15,000	Date: 07 Jul 2020
	Drawn By: AWB	Checked By: AWB



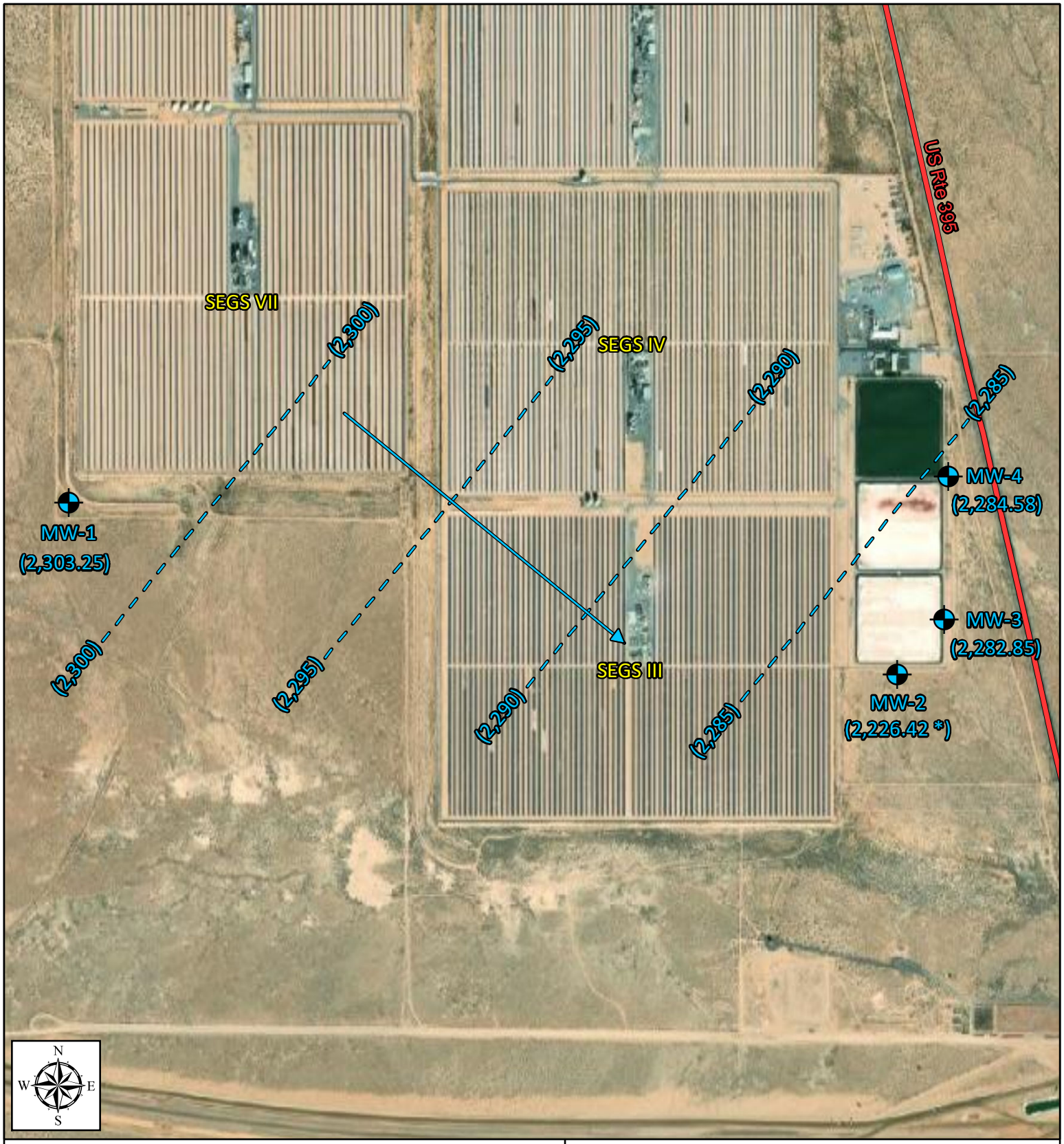
Legend

- 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

NORTHSTAR ENVIRONMENTAL REMEDIATION	Scale: 1:15,000	Date: 07 Jul 2020
	Drawn By: AWB	Checked By: AWB



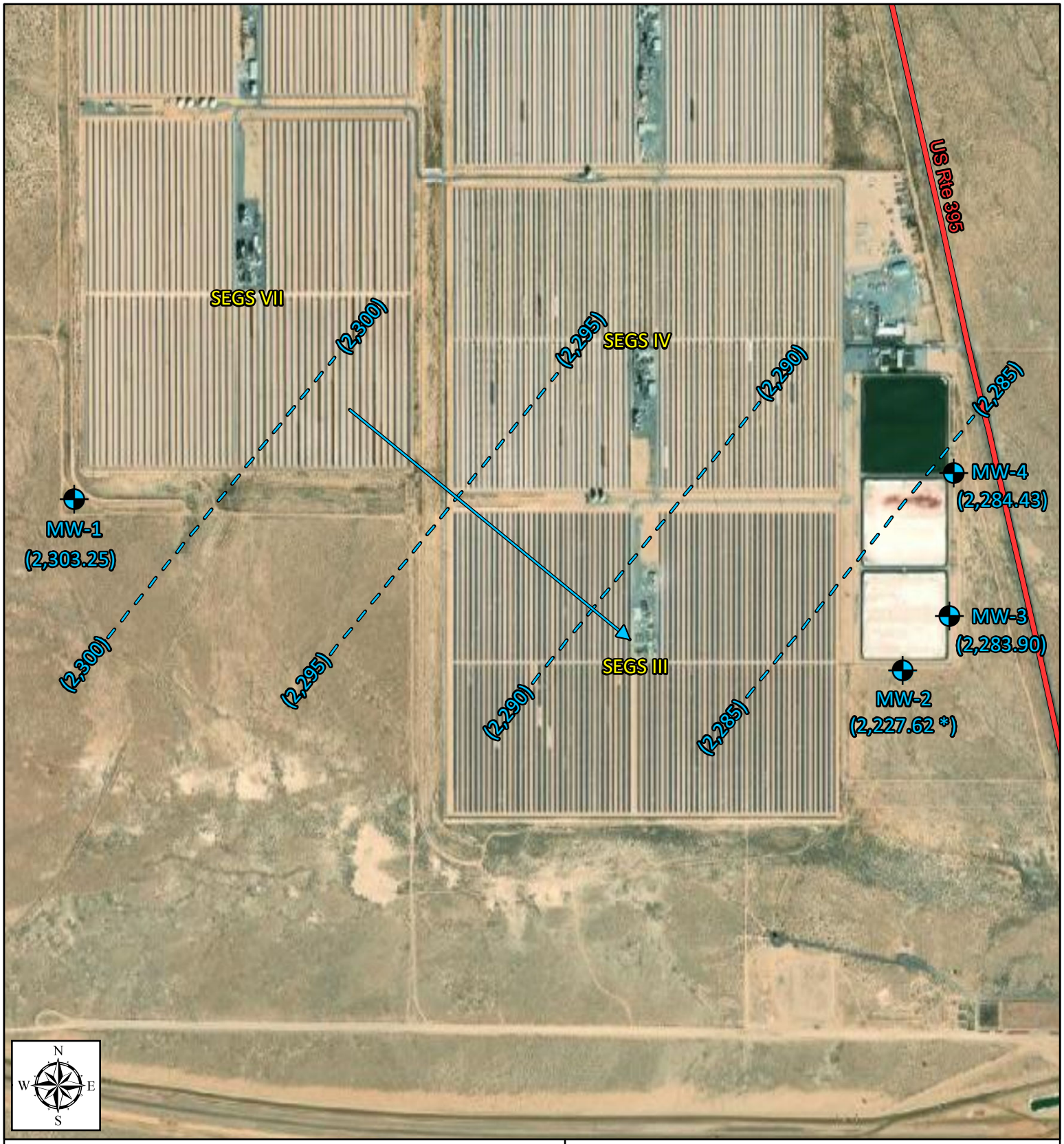
Legend

- 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 6
Potentiometric Surface Map
Third Quarter 2020

NORTHSTAR ENVIRONMENTAL REMEDIATION	Scale: 1:15,000	Date: 13 Jan 2021
	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 7
Potentiometric Surface Map
Fourth Quarter 2020

NORTHSTAR ENVIRONMENTAL REMEDIATION	Scale: 1:15,000	Date: 13 Jan 2021
	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
	3-S	3-N	4-S	4-N	5-S	5-N	(All Sumps)
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
	3-S	3-N	4-S	4-N	5-S	5-N	(All Sumps)
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
	3-S	3-N	4-S	4-N	5-S	5-N	(All Sumps)
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
	3-S	3-N	4-S	4-N	5-S	5-N	(All Sumps)
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
Jul-20	0	0	0	0	0	0	0
Aug-20	0	0	0	0	0	0	0
Sep-20	0	0	0	0	0	0	0
Oct-20	0	0	0	0	0	0	0
Nov-20	0	0	0	0	0	0	0
Dec-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			
Feb-96	2,105,752			
Mar-96	2,862,792			7,231,602
Apr-96	2,308,868			
May-96	3,207,411			
Jun-96	4,325,367			9,841,646
Jul-96	3,919,897			
Aug-96	4,486,353			
Sep-96	3,387,041			11,793,291
Oct-96	1,902,024			
Nov-96	786,743			
Dec-96	1,873,601	33,428,907	2,785,742	4,562,368
Jan-97	2,318,716	33,484,565	2,790,380	
Feb-97	1,134,627	32,513,440	2,709,453	
Mar-97	528,174	30,178,822	2,514,902	3,981,517
Apr-97	1,828,015	29,697,969	2,474,831	
May-97	2,726,594	29,217,152	2,434,763	
Jun-97	3,301,716	28,193,501	2,349,458	7,856,325
Jul-97	3,641,880	27,915,484	2,326,290	
Aug-97	3,017,871	26,447,002	2,203,917	
Sep-97	2,602,685	25,662,646	2,138,554	9,262,436
Oct-97	1,924,350	25,684,972	2,140,414	
Nov-97	1,493,903	26,392,132	2,199,344	
Dec-97	1,805,651	26,324,182	2,193,682	5,223,904
Jan-98	3,537,002	27,542,468	2,295,206	
Feb-98	2,265,327	28,673,168	2,389,431	
Mar-98	2,364,981	30,509,975	2,542,498	8,167,310
Apr-98	2,043,750	30,725,710	2,560,476	
May-98	1,813,393	29,812,509	2,484,376	
Jun-98	1,850,855	28,361,648	2,363,471	5,707,998
Jul-98	2,400,786	27,120,554	2,260,046	
Aug-98	2,803,502	26,906,185	2,242,182	
Sep-98	3,014,928	27,318,428	2,276,536	8,219,216
Oct-98	2,757,923	28,152,001	2,346,000	
Nov-98	1,517,904	28,176,002	2,348,000	
Dec-98	1,834,399	28,204,750	2,350,396	6,110,226
Jan-99	4,076,110	28,743,858	2,395,322	
Feb-99	3,387,710	29,866,241	2,488,853	
Mar-99	1,139,281	28,640,541	2,386,712	8,603,101
Apr-99	1,909,531	28,506,322	2,375,527	
May-99	2,598,508	29,291,437	2,440,953	
Jun-99	3,610,729	31,051,311	2,587,609	8,118,768
Jul-99	3,584,009	32,234,534	2,686,211	
Aug-99	3,199,737	32,630,769	2,719,231	
Sep-99	3,094,732	32,710,573	2,725,881	9,878,478
Oct-99	3,215,390	33,168,040	2,764,003	
Nov-99	1,459,301	33,109,437	2,759,120	
Dec-99	2,562,290	33,837,328	2,819,777	7,236,981
Jan-00	3,646,722	33,407,940	2,783,995	
Feb-00	2,394,445	32,414,675	2,701,223	
Mar-00	2,279,976	33,555,370	2,796,281	8,321,143

Table 2
Evaporation Pond Discharge Volume

	Monthly Total	12 Month Cumulative	12 Month Average	Quarterly Total
Apr-00	3,040,666	34,686,505	2,890,542	
May-00	3,913,917	36,001,914	3,000,160	
Jun-00	4,239,841	36,631,026	3,052,586	11,194,424
Jul-00	3,920,539	36,967,556	3,080,630	
Aug-00	3,651,998	37,419,817	3,118,318	
Sep-00	3,691,883	38,016,968	3,168,081	11,264,420
Oct-00	3,174,352	37,975,930	3,164,661	
Nov-00	2,746,446	39,263,075	3,271,923	
Dec-00	2,469,791	39,170,576	3,264,215	8,390,589
Jan-01	2,269,629	37,793,483	3,149,457	
Feb-01	1,536,945	36,935,983	3,077,999	
Mar-01	2,705,629	37,361,636	3,113,470	6,512,203
Apr-01	2,547,247	36,868,217	3,072,351	
May-01	3,549,275	36,503,575	3,041,965	
Jun-01	4,123,676	36,387,410	3,032,284	10,220,198
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	11,544,558
Jan-02	3,131,447	44,696,195	3,724,683	
Feb-02	3,282,944	46,442,194	3,870,183	
Mar-02	3,078,644	46,815,209	3,901,267	9,493,035
Apr-02	2,148,342	46,416,304	3,868,025	
May-02	3,937,106	46,804,135	3,900,345	
Jun-02	4,950,271	47,630,730	3,969,228	11,035,719
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	8,164,437
Jan-03	3,578,775	43,637,365	3,636,447	
Feb-03	1,540,963	41,895,384	3,491,282	
Mar-03	2,375,478	41,192,218	3,432,685	7,495,216
Apr-03	2,130,629	41,174,505	3,431,209	
May-03	3,111,650	40,349,049	3,362,421	
Jun-03	4,407,610	39,806,388	3,317,199	9,649,889
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	9,236,026
Jan-04	3,239,012	37,925,735	3,160,478	
Feb-04	3,763,084	40,147,856	3,345,655	
Mar-04	2,266,950	40,039,328	3,336,611	9,269,046
Apr-04	2,598,214	40,506,913	3,375,576	
May-04	3,524,160	40,919,423	3,409,952	
Jun-04	4,745,555	41,257,368	3,438,114	10,867,929
Jul-04	4,558,213	41,611,836	3,467,653	

Table 2
Evaporation Pond Discharge Volume

	Monthly Total	12 Month Cumulative	12 Month Average	Quarterly Total
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	8,753,395
Jan-05	2,995,970	41,240,402	3,436,700	
Feb-05	954,621	38,431,939	3,202,662	
Mar-05	2,351,164	38,516,153	3,209,679	6,301,755
Apr-05	3,326,730	39,244,669	3,270,389	
May-05	3,420,816	39,141,325	3,261,777	
Jun-05	2,965,836	37,361,606	3,113,467	9,713,382
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	6,897,321
Jan-06	1,786,295	29,469,980	2,455,832	
Feb-06	1,576,092	30,091,451	2,507,621	
Mar-06	1,302,170	29,042,457	2,420,205	4,664,557
Apr-06	2,181,583	27,897,310	2,324,776	
May-06	2,314,738	26,791,232	2,232,603	
Jun-06	2,160,030	25,985,426	2,165,452	6,656,351
Jul-06	2,477,832	25,774,328	2,147,861	
Aug-06	2,560,102	25,588,628	2,132,386	
Sep-06	2,404,240	25,660,403	2,138,367	7,442,174
Oct-06	1,164,134	25,043,476	2,086,956	
Nov-06	1,469,601	25,474,882	2,122,907	
Dec-06	3,687,787	25,084,604	2,090,384	6,321,522
Jan-07	2,829,728	26,128,037	2,177,336	
Feb-07	1,587,313	26,139,258	2,178,272	
Mar-07	2,677,341	27,514,429	2,292,869	7,094,382
Apr-07	2,459,645	27,792,491	2,316,041	
May-07	3,749,697	29,227,450	2,435,621	
Jun-07	3,832,867	30,900,287	2,575,024	10,042,209
Jul-07	3,250,085	31,672,540	2,639,378	
Aug-07	2,964,290	32,076,728	2,673,061	
Sep-07	4,233,344	33,905,832	2,825,486	10,447,719
Oct-07	2,640,854	35,382,552	2,948,546	
Nov-07	2,083,591	35,996,542	2,999,712	
Dec-07	3,169,881	35,478,636	2,956,553	7,894,326
Jan-08	1,308,257	33,957,165	2,829,764	
Feb-08	1,195,332	33,565,184	2,797,099	
Mar-08	2,397,091	33,284,934	2,773,745	4,900,680
Apr-08	2,724,097	33,549,386	2,795,782	
May-08	3,305,489	33,105,178	2,758,765	
Jun-08	4,703,559	33,975,870	2,831,323	10,733,145
Jul-08	4,053,708	34,779,493	2,898,291	
Aug-08	4,160,110	35,975,313	2,997,943	
Sep-08	4,623,231	36,365,200	3,030,433	12,837,049
Oct-08	2,175,441	35,899,787	2,991,649	
Nov-08	1,723,207	35,539,403	2,961,617	

Table 2
Evaporation Pond Discharge Volume

	Monthly Total	12 Month Cumulative	12 Month Average	Quarterly Total
Dec-08	2,189,926	34,559,448	2,879,954	6,088,574
Jan-09	4,243,568	37,494,759	3,124,563	
Feb-09	1,332,332	37,631,759	3,135,980	
Mar-09	3,074,134	38,308,802	3,192,400	8,650,034
Apr-09	3,743,004	39,327,709	3,277,309	
May-09	3,450,814	39,473,034	3,289,420	
Jun-09	5,103,194	39,872,669	3,322,722	12,297,012
Jul-09	5,810,764	41,629,725	3,469,144	
Aug-09	4,216,156	41,685,771	3,473,814	
Sep-09	4,624,172	41,686,712	3,473,893	14,651,092
Oct-09	2,617,044	42,128,315	3,510,693	
Nov-09	2,814,632	43,219,740	3,601,645	
Dec-09	3,211,378	44,241,192	3,686,766	8,643,054
Jan-10	591,104	40,588,728	3,382,394	
Feb-10	1,340,592	40,596,988	3,383,082	
Mar-10	1,493,816	39,016,670	3,251,389	3,425,512
Apr-10	2,694,588	37,968,254	3,164,021	
May-10	3,273,896	37,791,336	3,149,278	
Jun-10	5,009,944	37,698,086	3,141,507	10,978,428
Jul-10	4,627,952	36,515,274	3,042,940	
Aug-10	4,264,960	36,564,078	3,047,007	
Sep-10	4,334,792	36,274,698	3,022,892	13,227,704
Oct-10	2,654,848	36,312,502	3,026,042	
Nov-10	2,065,016	35,562,886	2,963,574	
Dec-10	2,935,224	35,286,732	2,940,561	7,655,088
Jan-11	1,501,352	36,196,980	3,016,415	
Feb-11	930,464	35,786,852	2,982,238	
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	
May-11	2,344,240	34,154,256	2,846,188	
Jun-11	3,604,248	32,748,560	2,729,047	8,071,200
Jul-11	3,331,562	31,452,170	2,621,014	
Aug-11	3,570,989	30,758,199	2,563,183	
Sep-11	3,157,800	29,581,207	2,465,101	10,060,351
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	
Feb-12	1,539,536	28,845,750	2,403,813	
Mar-12	3,427,598	30,910,596	2,575,883	6,714,937
Apr-12	3,992,856	32,780,740	2,731,728	
May-12	3,749,440	34,185,940	2,848,828	
Jun-12	4,935,144	35,516,836	2,959,736	12,677,440
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	
Nov-12	2,918,303	40,830,621	3,402,552	
Dec-12	1,368,020	40,346,509	3,362,209	7,436,047
Jan-13	2,147,108	40,745,814	3,395,485	
Feb-13	283,008	39,489,286	3,290,774	
Mar-13	2,579,696	38,641,384	3,220,115	5,009,812

Table 2
Evaporation Pond Discharge Volume

	Monthly Total	12 Month Cumulative	12 Month Average	Quarterly Total
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	
Aug-13	4,380,264	36,363,574	3,030,298	
Sep-13	4,370,912	35,975,783	2,997,982	12,655,353
Oct-13	2,602,304	35,428,363	2,952,364	
Nov-13	1,597,072	34,107,132	2,842,261	
Dec-13	932,944	33,672,056	2,806,005	5,132,320
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	
May-14	3,409,337	32,396,489	2,699,707	
Jun-14	4,377,777	32,290,627	2,690,886	10,075,578
Jul-14	4,439,752	32,826,202	2,735,517	
Aug-14	4,343,364	32,789,302	2,732,442	
Sep-14	4,319,778	32,738,168	2,728,181	13,102,894
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	
Feb-15	1,529,045	34,449,963	2,870,830	
Mar-15	2,001,958	34,087,065	2,840,589	4,963,515
Apr-15	2,221,778	34,020,379	2,835,032	
May-15	1,218,467	31,829,509	2,652,459	
Jun-15	5,039,750	32,491,482	2,707,624	8,479,995
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	
Nov-15	1,111,868	30,689,629	2,557,469	
Dec-15	927,556	29,926,037	2,493,836	3,337,750
Jan-16	987,984	29,481,509	2,456,792	
Feb-16	1,583,594	29,536,058	2,461,338	
Mar-16	1,535,087	29,069,187	2,422,432	4,106,665
Apr-16	1,812,245	28,659,654	2,388,305	
May-16	2,714,943	30,156,130	2,513,011	
Jun-16	4,214,713	29,331,093	2,444,258	8,741,901
Jul-16	4,988,299	29,756,681	2,479,723	
Aug-16	4,902,870	29,933,957	2,494,496	
Sep-16	4,067,596	30,145,081	2,512,090	13,958,765
Oct-16	2,553,972	31,400,727	2,616,727	
Nov-16	1,182,796	31,471,655	2,622,638	
Dec-16	2,347,746	32,891,845	2,740,987	6,084,514
Jan-17	895,824	32,799,685	2,733,307	
Feb-17	882,986	32,099,077	2,674,923	
Mar-17	1,645,472	32,209,462	2,684,122	3,424,282
Apr-17	2,619,988	33,017,205	2,751,434	
May-17	3,069,552	33,371,814	2,780,985	
Jun-17	4,014,052	33,171,153	2,764,263	9,703,592
Jul-17	5,217,836	33,400,690	2,783,391	

Table 2
Evaporation Pond Discharge Volume

	Monthly Total	12 Month Cumulative	12 Month Average	Quarterly Total
Aug-17	4,725,594	33,223,414	2,768,618	
Sep-17	4,067,596	33,223,414	2,768,618	14,011,026
Oct-17	1,298,326	31,967,768	2,663,981	
Nov-17	1,657,194	32,442,166	2,703,514	
Dec-17	932,944	31,027,364	2,585,614	3,888,464
Jan-18	236,168	30,367,708	2,530,642	
Feb-18	1,464,848	30,949,570	2,579,131	
Mar-18	1,801,869	31,105,967	2,592,164	3,502,885
Apr-18	2,984,041	31,470,020	2,622,502	
May-18	1,742,927	30,143,395	2,511,950	
Jun-18	5,851,881	31,981,224	2,665,102	10,578,849
Jul-18	4,901,040	31,664,428	2,638,702	
Aug-18	5,075,686	32,014,520	2,667,877	
Sep-18	5,321,544	33,268,468	2,772,372	15,298,270
Oct-18	3,532,080	35,502,222	2,958,519	
Nov-18	1,731,221	35,576,249	2,964,687	
Dec-18	2,487,918	37,131,223	3,094,269	7,751,219
Jan-19	1,969,835	38,864,890	3,238,741	
Feb-19	467,422	37,867,464	3,155,622	
Mar-19	287,025	36,352,620	3,029,385	2,724,282
Apr-19	2,570,463	35,939,042	2,994,920	
May-19	2,654,643	36,850,758	3,070,897	
Jun-19	3,707,290	34,706,167	2,892,181	8,932,396
Jul-19	4,054,589	33,859,716	2,821,643	
Aug-19	4,252,596	33,036,626	2,753,052	
Sep-19	2,062,880	29,777,962	2,481,497	10,370,065
Oct-19	1,386,727	27,632,609	2,302,717	
Nov-19	2,487,918	28,389,306	2,365,776	
Dec-19	365,364	26,266,752	2,188,896	4,240,009
Jan-20	48,375	24,345,292	2,028,774	
Feb-20	22,765	23,900,635	1,991,720	
Mar-20	0	23,613,610	1,967,801	71,140
Apr-20	0	21,043,147	1,753,596	
May-20	0	18,388,504	1,532,375	
Jun-20	0	14,681,214	1,223,435	0
Jul-20	0	10,626,625	885,552	
Aug-20	0	6,374,029	531,169	
Sep-20	0	4,311,149	359,262	0
Oct-20	0	2,924,422	243,702	
Nov-20	0	436,504	36,375	
Dec-20	0	71,140	5,928	0

Table 3
Groundwater Monitoring Results - Year to Date

					Sample ID				
Quarter	Analyte	EPA Method	Reporting Limit	Units	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
Q3 2020	Sodium	6010B	0.50	mg/L	330	310	250	210	320
Q4 2020	Sodium	6010B	0.50	mg/L	350	320	270	230	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
Q3 2020	Sulfate	300.0	25	mg/L	320	220	210	190	360
Q4 2020	Sulfate	300.0	25	mg/L	340	240	220	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
Q3 2020	Total Dissolved Solids	SM2540C	10	mg/L	1,200	1,100	930	850	1,200
Q4 2020	Total Dissolved Solids	SM2540C	10	mg/L	1,300	1,100	960	850	1,300
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
Q3 2020	Temperature	Field Parameter	N/A	Degrees Celsius	23.8	27.3	25.5	22.8	23.8
Q4 2020	Temperature	Field Parameter	N/A	Degrees Celsius	22.9	23.0	22.1	21.3	22.9
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
Q3 2020	pH	Field Parameter	N/A	Standard Units	7.61	7.44	7.34	7.47	7.61
Q4 2020	pH	Field Parameter	N/A	Standard Units	7.66	7.51	7.53	7.53	7.66
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
Q3 2020	Specific Conductivity	Field Parameter	N/A	µmhos/cm	2,080	1,980	1,640	1,495	2,080
Q4 2020	Specific Conductivity	Field Parameter	N/A	µmhos/cm	1,990	1,830	1,540	1,390	1,990
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
Q3 2020	Static Water Level	Field Parameter	N/A	Feet amsl	2,303.25	2,226.42	2,282.85	2,284.58	2,303.25
Q4 2020	Static Water Level	Field Parameter	N/A	Feet amsl	2,303.25	2,227.62	2,283.90	2,284.43	2,303.25
Q4 2020	1,1'-Biphenyl	8015B	0.095 - 0.097	mg/L	ND	ND	ND	ND	ND
Q4 2020	1,1'-Oxybisbenzene	8015B	0.095 - 0.097	mg/L	ND	ND	ND	ND	ND
Q4 2020	Chloride	300.0	25	mg/L	310	310	230	200	300
Q4 2020	Phosphate	300.0	0.50	mg/L	ND	ND	ND	ND	ND
Q4 2020	Potassium	6010B	0.50	mg/L	11	5.5	5.2	5.0	11

Notes:
ND = Not Detected at or above the laboratory reporting limit
[1] - The duplicate sample was collected from MW-1 for all quarters of 2020.

Table 4

Neutron Probe Monitoring Results - Horizontal Wells

Distance from Point of Entry (feet)	Percent Moisture by Volume - First Quarter 2020									
	HN-1 (% H_2O)	HN-2 (% H_2O)	HN-3 (% H_2O)	HN-4 (% H_2O)	HN-5 (% H_2O)	HN-6 (% H_2O)	HN-7 (% H_2O)	HN-8 (% H_2O)	HN-9 (% H_2O)	HN-10 (% H_2O)
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_2O)	HN-2 (% H_2O)	HN-3 (% H_2O)	HN-4 (% H_2O)	HN-5 (% H_2O)	HN-6 (% H_2O)	HN-7 (% H_2O)	HN-8 (% H_2O)	HN-9 (% H_2O)	HN-10 (% H_2O)
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 4

Neutron Probe Monitoring Results - Horizontal Wells

Distance from Point of Entry (feet)	Percent Moisture by Volume - Third Quarter 2020									
	HN-1 (% H_2O)	HN-2 (% H_2O)	HN-3 (% H_2O)	HN-4 (% H_2O)	HN-5 (% H_2O)	HN-6 (% H_2O)	HN-7 (% H_2O)	HN-8 (% H_2O)	HN-9 (% H_2O)	HN-10 (% H_2O)
West Side of Ponds										
25	14.36	15.23	13.28	12.88	12.95	21.18	13.38	16.87	15.09	12.42
50	8.95	9.38	12.53	9.20	12.31	12.16	12.04	15.74	9.68	11.17
75	11.00	13.25	15.70	12.31	14.81	15.41	12.76	15.35	16.90	11.13
100	11.87	11.29	14.98	10.57	10.57	14.01	12.36	10.20	9.08	11.95
200	10.97	9.02	10.40	9.09	7.89	8.27	8.97	8.74	13.03	10.13
300	11.30	9.06	9.96	9.05	9.37	8.14	12.77	10.49	9.80	9.99
400	14.25	9.09	9.58	9.14	7.70	8.81	14.16	9.19	9.37	11.10
500	10.27	0.76	9.84	8.95	8.10	9.48	15.03	10.16	9.85	9.49
East Side of Ponds										
25	11.17	10.17	12.54	10.16	10.52	10.91	13.90	10.20	10.77	10.16
50	10.33	12.16	12.09	9.77	11.20	14.21	9.20	11.57	10.27	9.46
75	12.01	13.46	11.08	10.29	11.83	13.23	12.63	11.27	10.11	10.01
100	11.05	11.63	8.67	11.57	11.20	12.20	13.61	9.49	9.08	12.16
200	12.19	9.48	10.31	10.74	9.82	10.40	14.94	9.75	9.40	10.33
300	10.79	8.00	10.07	9.52	8.97	10.16	16.70	8.90	10.20	8.69
400	15.47	12.05	9.39	9.73	8.32	8.42	16.97	9.39	9.17	10.96
500	10.11	9.01	13.21	9.14	8.52	8.20	12.01	11.05	8.61	10.38

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

Distance from Point of Entry (feet)	Percent Moisture by Volume - Fourth Quarter 2020									
	HN-1 (% H_2O)	HN-2 (% H_2O)	HN-3 (% H_2O)	HN-4 (% H_2O)	HN-5 (% H_2O)	HN-6 (% H_2O)	HN-7 (% H_2O)	HN-8 (% H_2O)	HN-9 (% H_2O)	HN-10 (% H_2O)
West Side of Ponds										
25	14.00	14.00	13.69	12.40	14.14	20.05	13.47	15.39	14.28	10.65
50	8.40	9.32	12.56	9.51	11.90	12.35	11.87	14.48	9.79	11.62
75	10.59	12.33	14.96	12.23	14.67	14.55	12.51	15.68	15.83	10.97
100	12.09	10.90	14.50	10.83	8.66	10.09	13.06	10.20	10.74	11.45
200	11.89	9.22	11.12	9.09	8.39	8.13	9.24	8.54	14.12	11.02
300	11.02	9.33	9.36	9.53	10.04	8.13	13.10	9.89	9.66	9.89
400	14.03	8.89	9.32	9.07	7.76	8.02	14.33	8.90	8.99	11.10
500	9.03	8.96	9.34	9.34	8.20	10.06	15.19	10.97	10.69	9.58
East Side of Ponds										
25	11.59	9.65	12.91	9.71	10.61	11.37	13.97	11.46	11.30	9.38
50	10.96	10.86	12.31	9.60	11.44	13.48	9.30	11.85	10.71	10.48
75	13.52	13.85	11.60	10.15	11.79	13.30	12.67	11.36	10.54	10.06
100	12.40	12.01	10.57	11.44	11.06	13.10	14.09	10.71	9.20	10.49
200	12.36	8.69	10.08	10.91	9.54	10.36	14.77	10.03	9.27	11.03
300	9.69	8.96	10.60	9.12	9.41	10.11	16.52	9.24	9.95	9.08
400	15.50	11.61	9.60	9.09	8.41	8.71	16.97	9.49	9.32	11.14
500	9.90	9.09	11.97	9.50	8.76	8.72	12.84	11.19	8.55	10.19

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_2O)	VN-2 (% H_2O)	VN-3 (% H_2O)	VN-4 (% H_2O)	VN-5 (% H_2O)	VN-6 (% H_2O)	VN-7 (% H_2O)	VN-8 (% H_2O)	VN-9 (% H_2O)	VN-10 (% H_2O)	VN-11 (% H_2O)
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_2O)	VN-2 (% H_2O)	VN-3 (% H_2O)	VN-4 (% H_2O)	VN-5 (% H_2O)	VN-6 (% H_2O)	VN-7 (% H_2O)	VN-8 (% H_2O)	VN-9 (% H_2O)	VN-10 (% H_2O)	VN-11 (% H_2O)
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

Table 5
Neutron Probe Monitoring Results - Vertical Wells

Distance from Point of Entry (feet)	Percent Moisture by Volume - Third Quarter 2020										
	VN-1 (% H_2O)	VN-2 (% H_2O)	VN-3 (% H_2O)	VN-4 (% H_2O)	VN-5 (% H_2O)	VN-6 (% H_2O)	VN-7 (% H_2O)	VN-8 (% H_2O)	VN-9 (% H_2O)	VN-10 (% H_2O)	VN-11 (% H_2O)
5	1.20		1.97	2.33	1.61	1.28	1.62	1.52	1.40	1.74	1.14
10	1.83		1.93	1.78	1.40	1.72	2.58	1.67	1.86	2.19	1.16
15	1.63		1.17	2.15	0.80	2.26	1.70	1.85	1.37	1.62	1.65
20	1.22		1.68	1.49	1.48	1.44	0.79	1.95	1.10	1.93	1.93
25	2.04		1.55	1.09	1.76	2.18	1.01	1.32	1.67	0.86	2.01
30	1.97		1.45	1.70	1.39	2.34	1.58	1.69	1.49	1.39	1.19
35	2.05		2.11	1.44	1.62	2.59	1.65	2.11	1.94	1.88	1.54
40	1.26		2.12	1.97	1.71	2.00	0.59	1.53	1.79	1.61	1.97
45	1.53		1.80	1.77	1.82	1.25	1.27	1.50	2.24	2.68	1.80
50	1.28		1.50	1.90	1.81	2.74	0.54		2.17	1.30	
55			2.18	2.20		2.48	1.90				
60						2.20	1.87				

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

Distance from Point of Entry (feet)	Percent Moisture by Volume - Fourth Quarter 2020										
	VN-1 (% H_2O)	VN-2 (% H_2O)	VN-3 (% H_2O)	VN-4 (% H_2O)	VN-5 (% H_2O)	VN-6 (% H_2O)	VN-7 (% H_2O)	VN-8 (% H_2O)	VN-9 (% H_2O)	VN-10 (% H_2O)	VN-11 (% H_2O)
5	1.17		1.92	2.14	1.50	1.22	1.64	1.49	1.41	1.69	1.15
10	1.73		1.87	2.43	1.58	2.10	2.35	1.64	1.84	2.21	1.18
15	1.56		1.19	1.89	0.85	2.16	1.93	1.84	1.46	1.69	1.65
20	1.27		1.75	1.89	1.52	1.50	2.19	1.94	1.05	1.82	1.94
25	1.95		1.60	2.15	1.82	2.31	2.25	1.32	1.69	0.91	1.94
30	2.08		1.50	1.48	1.47	2.32	1.65	1.55	1.49	1.35	1.22
35	2.22		2.05	1.04	1.44	2.62	1.86	2.13	1.92	1.94	1.43
40	1.25		2.01	1.70	1.75	1.95	2.19	1.46	1.81	1.60	2.00
45	1.59		1.89	1.45	1.78	1.31	1.11	1.52	2.54	2.74	1.85
50	1.27		1.44	2.00	1.80	2.69	2.65		2.17	1.26	
55			2.14	1.71		2.43	1.67				
60						2.20	2.73				

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

CHARTS

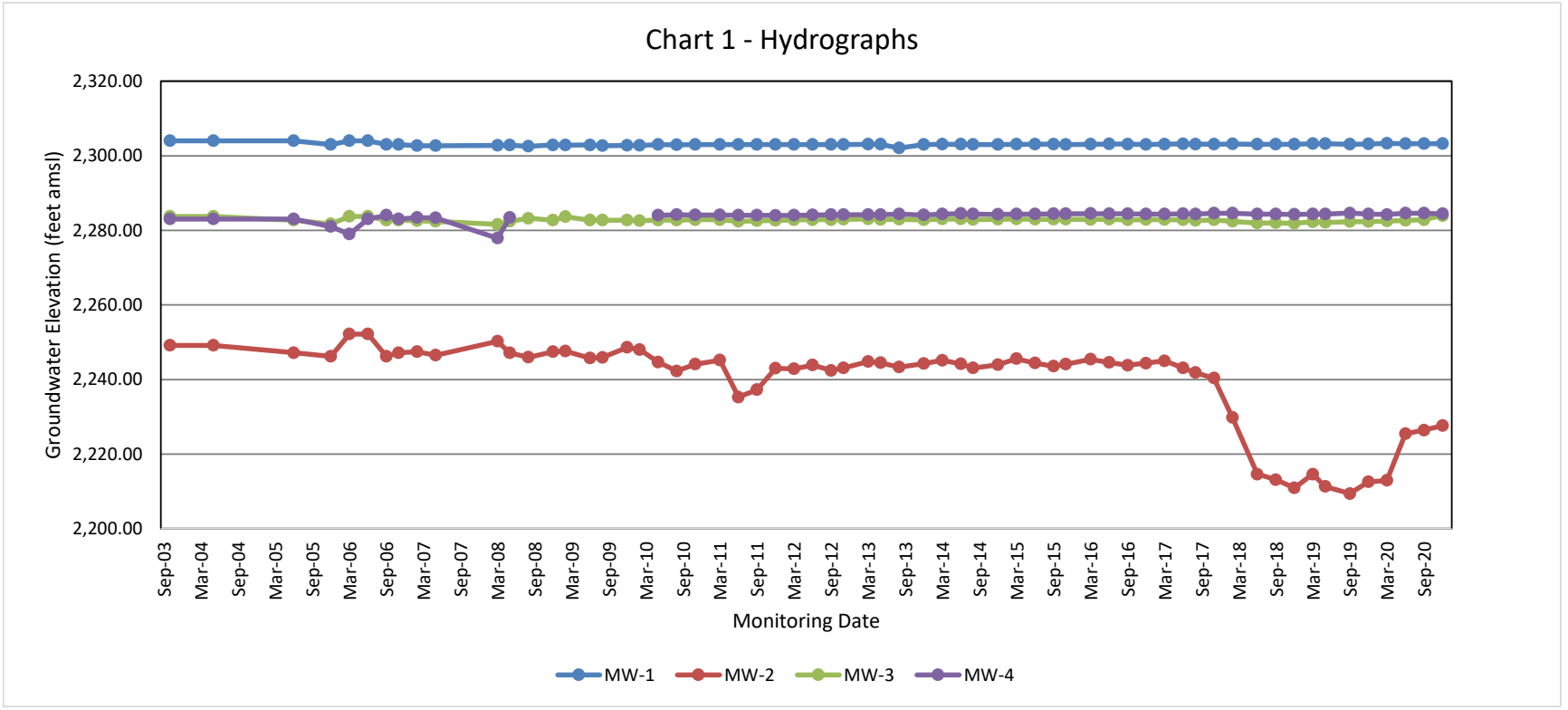


Chart 1 - Hydrographs
Groundwater Elevation (feet amsl)
2,320.00
2,300.00
2,280.00
2,260.00
2,240.00
2,220.00
2,200.00
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
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Mar-08
Sep-08
Mar-09
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Sep-15
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Sep-16
Mar-17
Sep-17
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Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Monitoring Date
MW-1
MW-2
MW-3
MW-4

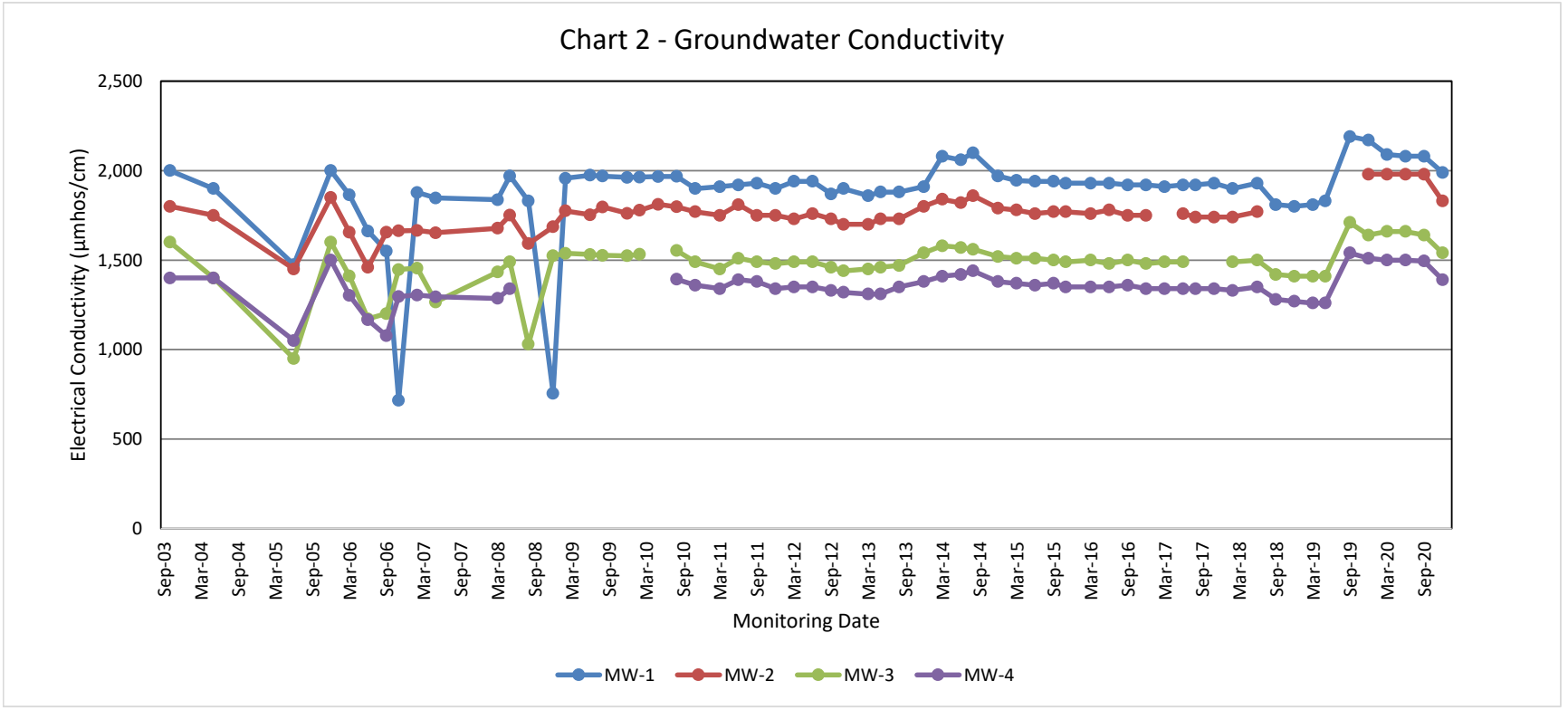
Chart 2 - Groundwater Conductivity
Electrical Conductivity (µmhos/cm)
2,500
2,000
1,500
1,000
500
0
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Mar-16
Sep-16
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Monitoring Date
MW-1
MW-2
MW-3
MW-4

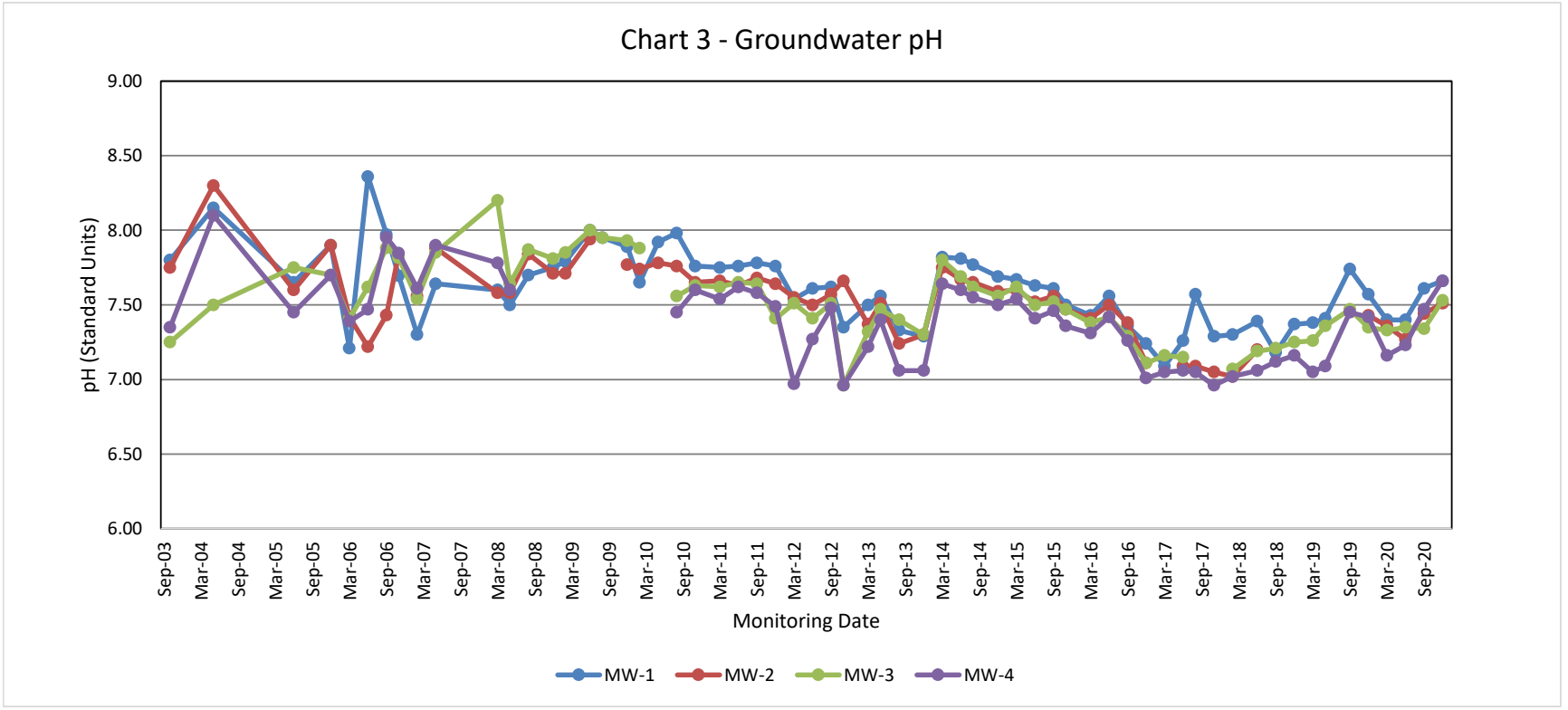
Chart 3 - Groundwater pH
9.00
8.50
8.00
7.50
7.00
6.50
6.00
pH (Standard Units)
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
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Mar-15
Sep-15
Mar-16
Sep-16
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Monitoring Date
MW-1
MW-2
MW-3
MW-4

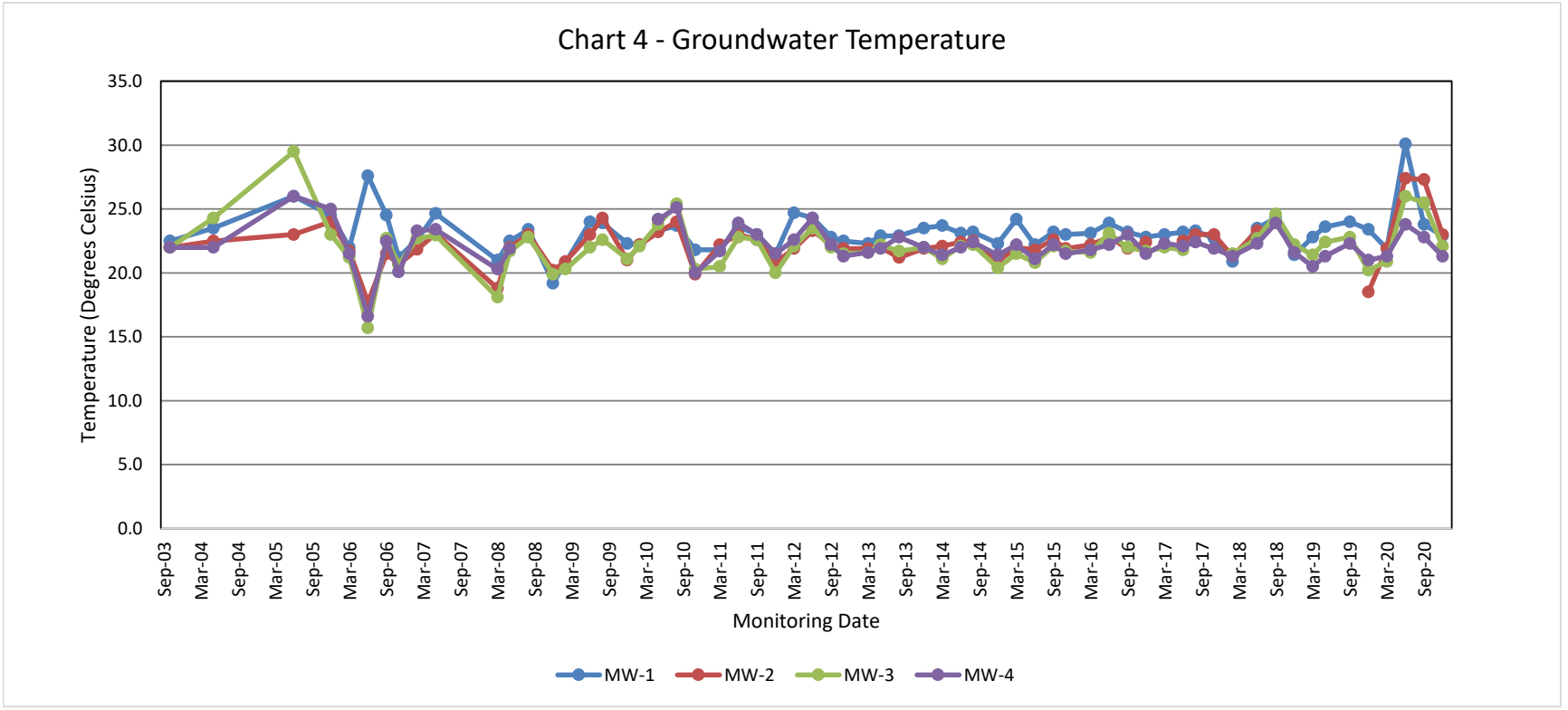
Chart 4 - Groundwater Temperature
Temperature (Degrees Celsius)
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Mar-16
Sep-16
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Monitoring Date
MW-1
MW-2
MW-3
MW-4

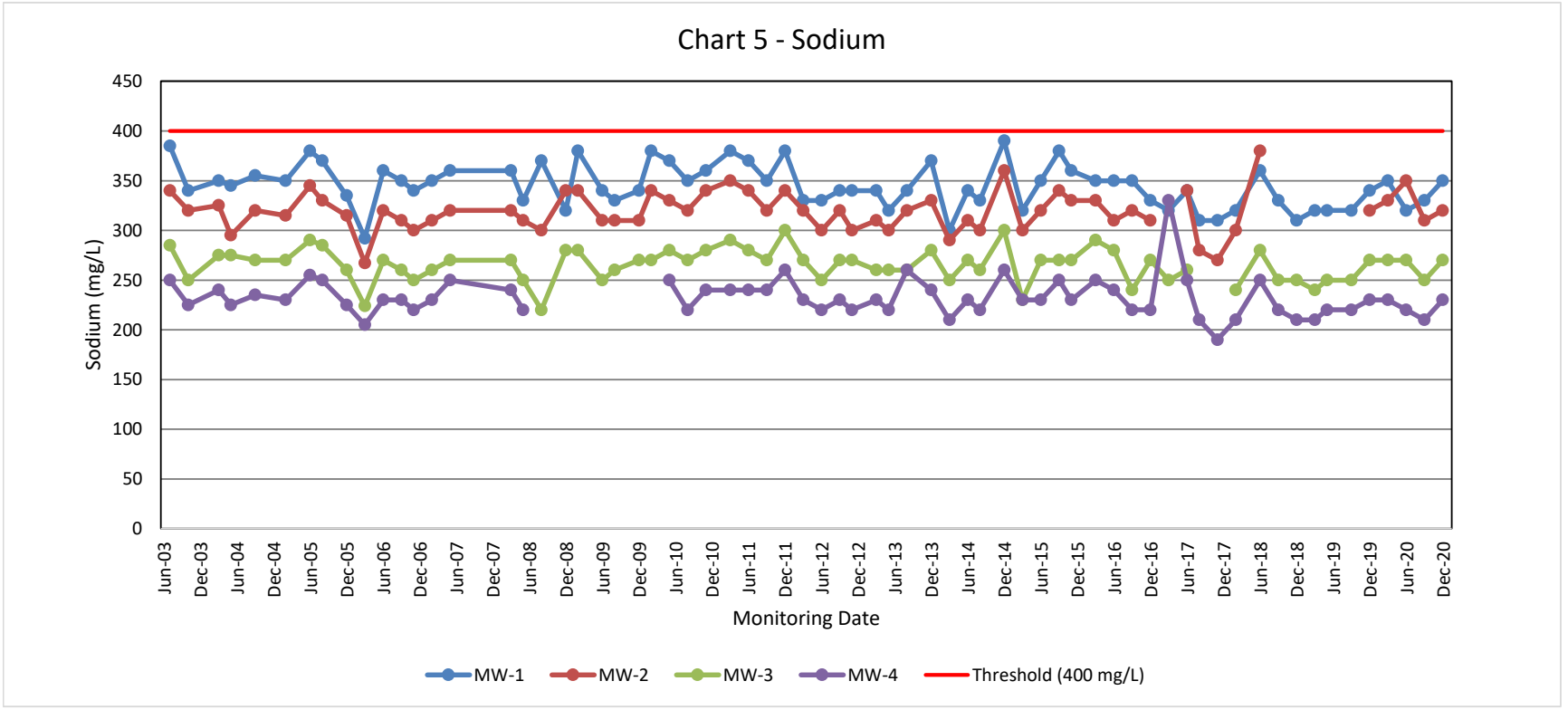
Chart 5 - Sodium
Sodium (mg/L)
450
400
350
300
250
200
150
100
50
0
Jun-03
Dec-03
Jun-04
Dec-04
Jun-05
Dec-05
Jun-06
Dec-06
Jun-07
Dec-07
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
Dec-11
Jun-12
Dec-12
Jun-13
Dec-13
Jun-14
Dec-14
Jun-15
Dec-15
Jun-16
Dec-16
Jun-17
Dec-17
Jun-18
Dec-18
Jun-19
Dec-19
Jun-20
Dec-20
Monitoring Date
MW-1
MW-2
MW-3
MW-4
Threshold (400 mg/L)

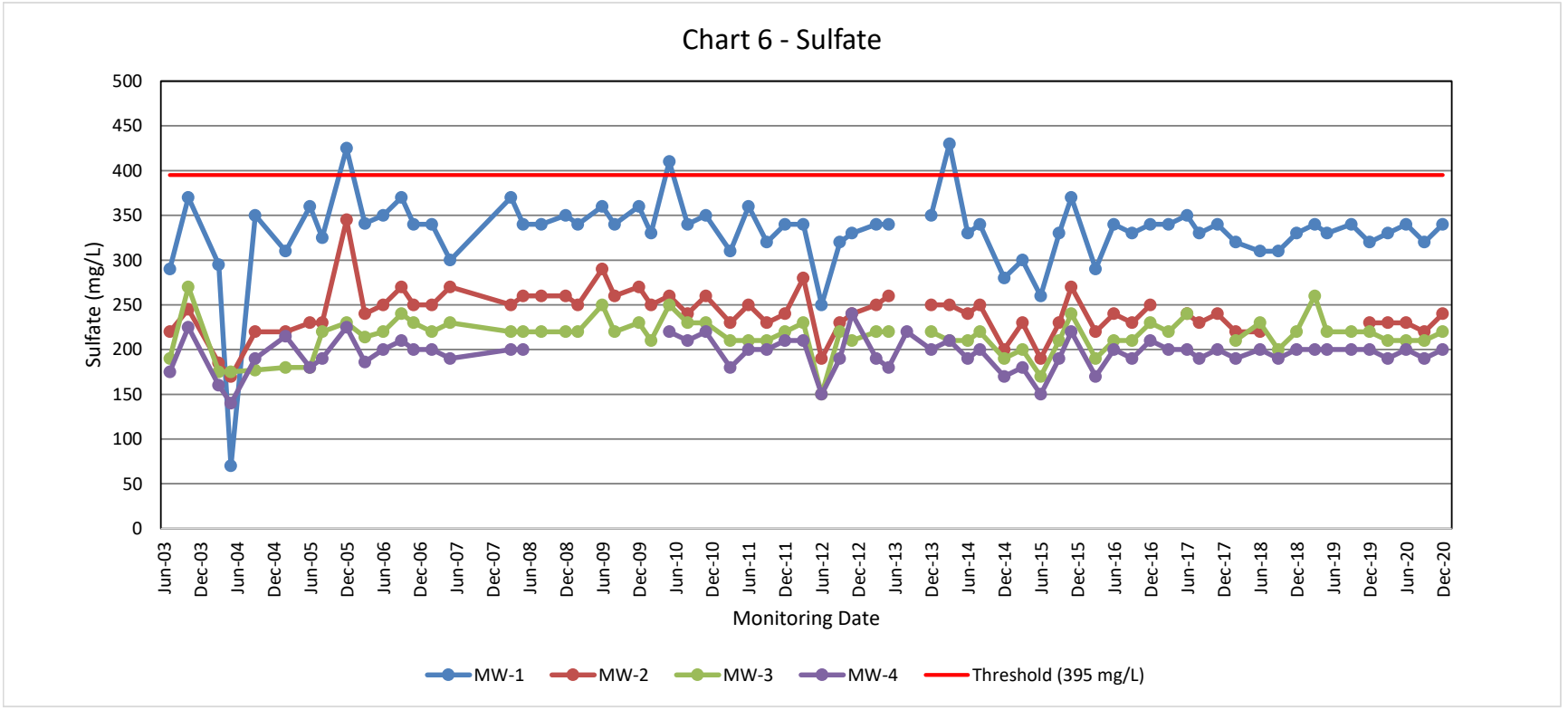
Chart 6 - Sulfate
Sulfate (mg/L)
500
450
400
350
300
250
200
150
100
50
0
Jun-03
Dec-03
Jun-04
Dec-04
Jun-05
Dec-05
Jun-06
Dec-06
Jun-07
Dec-07
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
Dec-11
Jun-12
Dec-12
Jun-13
Dec-13
Jun-14
Dec-14
Jun-15
Dec-15
Jun-16
Dec-16
Jun-17
Dec-17
Jun-18
Dec-18
Jun-19
Dec-19
Jun-20
Dec-20
Monitoring Date
MW-1
MW-2
MW-3
MW-4
Threshold (395 mg/L)

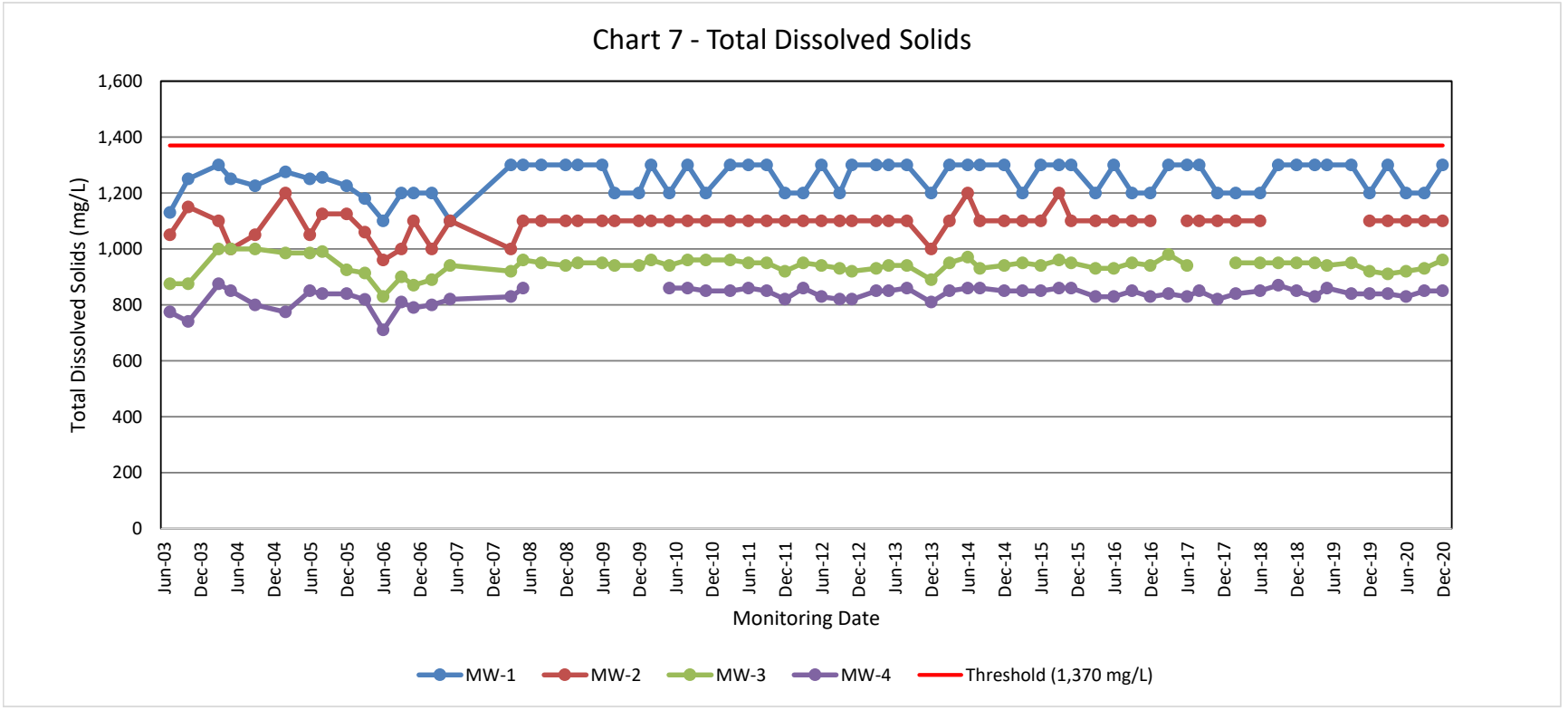
Chart 7 - Total Dissolved Solids
Total Dissolved Solids (mg/L)
1,600
1,400
1,200
1,000
800
600
400
200
0
Jun-03
Dec-03
Jun-04
Dec-04
Jun-05
Dec-05
Jun-06
Dec-06
Jun-07
Dec-07
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
Dec-11
Jun-12
Dec-12
Jun-13
Dec-13
Jun-14
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Jun-15
Dec-15
Jun-16
Dec-16
Jun-17
Dec-17
Jun-18
Dec-18
Jun-19
Dec-19
Jun-20
Dec-20
Monitoring Date
MW-1
MW-2
MW-3
MW-4
Threshold (1,370 mg/L)

APPENDIX A

GROUNDWATER MONITORING WELL SAMPLING RECORDS

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-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	Technician:	Ralph De La Parra
Date:	March 17, 2020	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	Technician:	Ralph De La Parra
Date:	March 17, 2020	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	

MONITORING WELL SAMPLING RECORD

Project:	SEGS III - VII Kramer Junction	Technician:	Ralph De La Parra
Date:	September 16, 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
1131	20	20	25.4	7.64	2,060	Clear, odorless
1135	20	100	23.9	7.61	2,080	Clear, odorless
1140	20	200	23.8	7.61	2,080	Clear, odorless
1145	20	300	23.8	7.61	2,080	Clear, odorless
1200	20	600	23.8	7.61	2,080	Clear, odorless
1210	20	800	23.8	7.61	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-1-9-16-20	1210	1	Quarterly	No	
Dup-9-16-20		1	Quarterly	No	Dup Collected

MONITORING WELL SAMPLING RECORD

Project:	SEGS III - VII Kramer Junction	Technician:	Ralph De La Parra
Date:	September 16, 2020	Weather:	Clear, warm

Purge Volume Calculations

Monitoring Well ID:	**MW-2**		Depth to Water:	227.75	ft btoc	(b)
Elevation of Top of Casing:	2454.17 ft amsl	(a)	Water Elevation (a - b):	2226.42	ft amsl	(c)
Well Depth:	257.80 ft btoc		Water Thickness (c - d):	30.05	feet	(e)
Elevation of Bottom of Well:	2196.37 ft amsl	(d)	One Casing Volume (e * 1.47):	44.17	gallons	(f)
Casing Inside Diameter:	6.0 inches		Three Casing Volumes (f * 3):	132.52	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
1250	1.5	15	25.1	7.26	2,000	Very Cloudy, odorless
1300	1.5	30	25.4	7.44	1,980	Very Clear, odorless
1310	1.5	45	25.7	7.44	1,980	Very Clear, odorless
1330	1.5	75	26.0	7.44	1,980	Very Clear, odorless
1340	1.5	90	26.1	7.44	1,980	Very Clear, odorless
1350	1.5	105	26.5	7.44	1,980	Very Clear, odorless
1400	1.5	120	26.9	7.44	1,980	Very Clear, odorless
1410	1.5	135	27.3	7.44	1,980	Very Clear, odorless

Total Purged: 135 gallons Casing Volumes Purged: 3.05 volumes

Note: 55Hz on VFD to get 1.5 GPM

Sample Inventory

Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-2-9-16-20	1410	1	Quarterly	No	

MONITORING WELL SAMPLING RECORD

Project:	SEGS III - VII Kramer Junction	Technician:	Ralph De La Parra
Date:	September 16, 2020	Weather:	Clear, Warm

Purge Volume Calculations

Monitoring Well ID:	**MW-3**		Depth to Water:	171.90	ft btoc	(b)
Elevation of Top of Casing:	2454.75 ft amsl	(a)	Water Elevation (a - b):	2282.85	ft amsl	(c)
Well Depth:	259.00 ft btoc		Water Thickness (c - d):	87.10	feet	(e)
Elevation of Bottom of Well:	2195.75 ft amsl	(d)	One Casing Volume (e * 1.47):	128.04	gallons	(f)
Casing Inside Diameter:	6.0 inches		Three Casing Volumes (f * 3):	384.12	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
1430	3	30	24.0	7.22	1,640	Clear, Odorless
1450	3	90	24.5	7.30	1,640	Clear, Odorless
1500	3	120	24.7	7.34	1,640	Clear, Odorless
1520	3	180	24.9	7.34	1,640	Clear, Odorless
1550	3	270	25.2	7.34	1,640	Clear, Odorless
1620	3	360	25.4	7.34	1,640	Clear, Odorless
1630	3	390	25.5	7.34	1,640	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-3-9-16-20	1630	1	Quarterly	No	

MONITORING WELL SAMPLING RECORD

Project:	SEGS III - VII Kramer Junction	Technician:	Ralph De La Parra
Date:	September 16, 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):	370.66	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
1645	10	50	22.3	7.50	1,490	Clear, odorless
1650	10	100	22.4	7.49	1,495	Clear, odorless
1700	10	200	22.5	7.48	1,495	Clear, odorless
1710	10	300	22.6	7.48	1,495	Clear, odorless
1720	10	400	22.8	7.47	1,495	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-4-9-16-20	1720	1	Quarterly	No	

MONITORING WELL SAMPLING RECORD

Project:	SEGS III - VII Kramer Junction	Technician:	Ralph De La Parra
Date:	December 8, 2020	Weather:	Clear, Cool

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):	726.55	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
1111	20	20	22.2	7.75	2,010	Clear, odorless
1115	20	100	22.5	7.64	1,990	Clear, odorless
1120	20	200	22.8	7.66	1,990	Clear, odorless
1125	20	300	22.8	7.66	1,990	Clear, odorless
1140	20	600	22.8	7.66	1,990	Clear, odorless
1150	20	800	22.9	7.66	1,990	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-1-12-8-20	1150	3	Annual	No	
Dup-12-8-20		3	Annual	No	Dup Collected

MONITORING WELL SAMPLING RECORD

Project:	SEGS III - VII Kramer Junction	Technician:	Ralph De La Parra
Date:	December 8, 2020	Weather:	Clear, Cool

Purge Volume Calculations

Monitoring Well ID:	**MW-2**		Depth to Water:	226.55	ft btoc	(b)
Elevation of Top of Casing:	2454.17 ft amsl	(a)	Water Elevation (a - b):	2227.62	ft amsl	(c)
Well Depth:	257.80 ft btoc		Water Thickness (c - d):	31.25	feet	(e)
Elevation of Bottom of Well:	2196.37 ft amsl	(d)	One Casing Volume (e * 1.47):	45.94	gallons	(f)
Casing Inside Diameter:	6.0 inches		Three Casing Volumes (f * 3):	137.82	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	1.5	15	21.5	7.37	1,850	Very Cloudy, odorless
1225	1.5	30	21.6	7.47	1,840	Very Clear, odorless
1235	1.5	45	22.3	7.51	1,830	Very Clear, odorless
1245	1.5	75	22.4	7.51	1,830	Very Clear, odorless
1255	1.5	90	22.6	7.51	1,830	Very Clear, odorless
1310	1.5	105	22.7	7.51	1,830	Very Clear, odorless
1320	1.5	120	22.8	7.51	1,830	Very Clear, odorless
1340	1.5	150	23.0	7.51	1,830	Very Clear, odorless

Total Purged: 150 gallons Casing Volumes Purged: 3.26 volumes

Note: 55Hz on VFD to get 1.5 GPM

Sample Inventory

Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-2-12-8-20	1340	3	Annual	No	

MONITORING WELL SAMPLING RECORD

Project:	SEGS III - VII Kramer Junction	Technician:	Ralph De La Parra
Date:	December 8, 2020	Weather:	Clear, Cool

Purge Volume Calculations

Monitoring Well ID:	**MW-3**		Depth to Water:	170.85	ft btoc	(b)
Elevation of Top of Casing:	2454.75 ft amsl	(a)	Water Elevation (a - b):	2283.90	ft amsl	(c)
Well Depth:	259.00 ft btoc		Water Thickness (c - d):	88.15	feet	(e)
Elevation of Bottom of Well:	2195.75 ft amsl	(d)	One Casing Volume (e * 1.47):	129.58	gallons	(f)
Casing Inside Diameter:	6.0 inches		Three Casing Volumes (f * 3):	388.74	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
1400	3	30	20.5	7.43	1,560	Very Cloudy, Odorless
1420	3	90	21.4	7.53	1,540	Clear, Odorless
1430	3	120	21.6	7.53	1,540	Clear, Odorless
1450	3	180	21.8	7.53	1,540	Clear, Odorless
1520	3	270	21.9	7.53	1,540	Clear, Odorless
1550	3	360	22.0	7.53	1,540	Clear, Odorless
1600	3	390	22.1	7.53	1,540	Clear, Odorless

Total Purged: 390 gallons Casing Volumes Purged: 3.01 volumes

Note: 51Hz on VFD to get 3 GPM

Sample Inventory

Sample ID	Time	# of Bottles	Analysis	Filtered	Notes
MW-3-12-8-20	1600	3	Annual	No	

MONITORING WELL SAMPLING RECORD

Project:	SEGS III - VII Kramer Junction	Technician:	Ralph De La Parra
Date:	December 8, 2020	Weather:	Clear, Cool

Purge Volume Calculations

Monitoring Well ID:	**MW-4**		Depth to Water:	174.60	ft btoc	(b)
Elevation of Top of Casing:	2459.03 ft amsl	(a)	Water Elevation (a - b):	2284.43	ft amsl	(c)
Well Depth:	258.50 ft btoc		Water Thickness (c - d):	83.90	feet	(e)
Elevation of Bottom of Well:	2200.53 ft amsl	(d)	One Casing Volume (e * 1.47):	123.33	gallons	(f)
Casing Inside Diameter:	6.0 inches		Three Casing Volumes (f * 3):	369.99	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
1615	10	50	20.8	7.55	1,390	Clear, odorless
1620	10	100	20.9	7.53	1,390	Clear, odorless
1630	10	200	21.0	7.53	1,390	Clear, odorless
1640	10	300	21.2	7.53	1,390	Clear, odorless
1650	10	400	21.3	7.53	1,390	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-4-12-8-20	1650	3	Annual	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
sheri.fama@testamericainc.com

Table of Contents

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	

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 2.8º 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 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

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

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

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

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	

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	

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.
¤	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
Job ID: 440-263226-1
Project/Site: Nextera Kramer Junction

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

Chain of Custody Record

396712

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

3-17-20

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date: 3-17-20	COC No:
Company Name: NextEra-Kramer Junction	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 41100 Hwy 395	Analysis Turnaround Time			Sampler
City/State/Zip: Boron, CA 93516	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (760) 762-5562	TAT if different from Below _____			Walk-in Client
Fax:	☒ 2 weeks			Lab Sampling:
Project Name: NextEra-Kramer Junction	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 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)	Sodium	Sulfate	TDS	Sample Specific Notes:
MW-1-3-17-20	3-17-20	0755	G	H2O	1	N	N	X	X	X	
MW-4- "	"	0850			2	N	N	X	X	X	
MW-3- "	"	1424			2	N	N	X	X	X	
MW-2- "	"	1550			2	N	N	X	X	X	
Dup- "	"	—			1	N	N	X	X	X	

3/17/20 LD

440-263226 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 ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.. | Cooler Temp (°C): Obs'd: 2.8 Corr'd: 2.8 | Therm ID No. IR-24

Relinquished by:	Company: NorthStar	Date/Time: 3-18-20	Received by: 1845	Company:	Date/Time
Relinquished by.	Company.	Date/Time	Received by	Company	Date/Time:
Relinquished by:	Company:	Date/Time.	Received in Laboratory by: JD	Company: EC-IRV	Date/Time: 3/17/20 1845

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 </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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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

Table of Contents

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	

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 5.6º 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 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

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

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		

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	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	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
Job ID: 440-267503-1
Project/Site: Nextera-Kramer Junction

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

TestAmerica Irvine
17461 Derian Ave
Suite 100
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)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Glen King	Site Contact:	Date: 6-16-20	COC No: 1 of 1 COCs
Company Name: Nextera Kramer Junction	Tel/Fax:	Lab Contact:	Carrier:	Sampler:
Address: 41100 Hwy 395	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip: Boron, CA 93516	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client.
Phone: (760) 762-5562	TAT if different from Below			Lab Sampling.
Fax	☒ 2 weeks			
Project Name: Nextera-Kramer Junction	☐ 1 week			Job / SDG No :
Site	☐ 2 days			
P O #	☐ 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)	Sodium Sulfate	TDS			Sample Specific Notes:
MW-1-6-15-20	6/15/20	1050	G	GW	1	N	N	X	X	X		
MW-2- "		1310			1			X	X	X		
MW-3- "		1530			1			X	X	X		
MW-4- "		1620			1			X	X	X		
Dup- "		—			1			X	X	X		

6/16/20 LD

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 ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No. | Cooler Temp (°C). Obs'd. 5.4 Corr'd 5.6 | Therm ID No 12 94

Relinquished by	Company	Date/Time:	Received by	Company:	Date/Time
[signature]	NorthStar	6-16-20 @ 1022			
Relinquished by	Company	Date/Time	Received by:	Company:	Date/Time:
Relinquished by	Company	Date/Time:	Received in Laboratory by:	Company	Date/Time:
			[signature]	FEDEX	6/16/20 1022

6/26/2020

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 </= 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 <6mm (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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 440-272039-1
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:
9/30/2020 6:20:44 PM

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

Table of Contents

Sample Summary

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

Job ID: 440-272039-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-272039-1	MW-1-9-16-20	Water	09/16/20 12:10	09/18/20 14:00	
440-272039-2	MW-2-9-16-20	Water	09/16/20 14:10	09/18/20 14:00	
440-272039-3	MW-3-9-16-20	Water	09/16/20 16:30	09/18/20 14:00	
440-272039-4	MW-4-9-16-20	Water	09/16/20 17:20	09/18/20 14:00	
440-272039-5	DUP-9-16-20	Water	09/16/20 00:01	09/18/20 14:00	

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

Job ID: 440-272039-1

Job ID: 440-272039-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-272039-1

Comments
No additional comments.

Receipt
The samples were received on 9/18/2020 2:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Receipt Exceptions
Received unpreserved plastic container for metals analysis (Sodium): MW-1-9-16-20 (440-272039-1), MW-2-9-16-20 (440-272039-2), MW-3-9-16-20 (440-272039-3), MW-4-9-16-20 (440-272039-4) and DUP-9-16-20 (440-272039-5).

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-1-9-16-20 (440-272039-1), MW-2-9-16-20 (440-272039-2), MW-3-9-16-20 (440-272039-3), MW-4-9-16-20 (440-272039-4) and DUP-9-16-20 (440-272039-5). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

0.5mL of 1:1 HNO3 was added to each container A-1, A-2, A-3, A-4 and A-5 on 09/28/20 @ 11:40 hrs
1:1 HNO3 Reagent # 6352842

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 ID: MW-1-9-16-20

Lab Sample ID: 440-272039-1

Date Collected: 09/16/20 12:10
Matrix: Water
Date Received: 09/18/20 14:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	320		25		mg/L			09/19/20 01:08	50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sodium	330		0.50		mg/L		09/29/20 12:07	09/30/20 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			09/22/20 09:41	1

Client Sample ID: MW-2-9-16-20

Lab Sample ID: 440-272039-2

Date Collected: 09/16/20 14:10
Matrix: Water
Date Received: 09/18/20 14:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	220		25		mg/L			09/19/20 01:24	50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sodium	310		0.50		mg/L		09/29/20 12:07	09/30/20 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			09/22/20 09:41	1

Client Sample ID: MW-3-9-16-20

Lab Sample ID: 440-272039-3

Date Collected: 09/16/20 16:30
Matrix: Water
Date Received: 09/18/20 14:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	210		25		mg/L			09/19/20 01:39	50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sodium	250		0.50		mg/L		09/29/20 12:07	09/30/20 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	930		10		mg/L			09/22/20 09:41	1

Client Sample ID: MW-4-9-16-20

Lab Sample ID: 440-272039-4

Date Collected: 09/16/20 17:20
Matrix: Water
Date Received: 09/18/20 14:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	190		25		mg/L			09/19/20 01:55	50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sodium	210		0.50		mg/L		09/29/20 12:07	09/30/20 15:03	1

Client Sample Results

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

Job ID: 440-272039-1

Client Sample ID: MW-4-9-16-20

Lab Sample ID: 440-272039-4

Date Collected: 09/16/20 17:20
Matrix: Water
Date Received: 09/18/20 14:00

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	850		10		mg/L			09/22/20 09:41	1

Client Sample ID: DUP-9-16-20

Lab Sample ID: 440-272039-5

Date Collected: 09/16/20 00:01
Matrix: Water
Date Received: 09/18/20 14:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	360		25		mg/L			09/21/20 13:55	50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sodium	320		0.50		mg/L		09/29/20 12:07	09/30/20 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			09/22/20 09:41	1

Method Summary

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

Job ID: 440-272039-1

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: 440-272039-1

Client Sample ID: MW-1-9-16-20
Date Collected: 09/16/20 12:10
Date Received: 09/18/20 14:00

Lab Sample ID: 440-272039-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			624889	09/19/20 01:08	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	626077	09/29/20 12:07	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626252	09/30/20 14:56	KE	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	625259	09/22/20 09:41	XL	TAL IRV

Client Sample ID: MW-2-9-16-20
Date Collected: 09/16/20 14:10
Date Received: 09/18/20 14:00

Lab Sample ID: 440-272039-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			624889	09/19/20 01:24	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	626077	09/29/20 12:07	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626252	09/30/20 14:58	KE	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	625259	09/22/20 09:41	XL	TAL IRV

Client Sample ID: MW-3-9-16-20
Date Collected: 09/16/20 16:30
Date Received: 09/18/20 14:00

Lab Sample ID: 440-272039-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			624889	09/19/20 01:39	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	626077	09/29/20 12:07	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626252	09/30/20 15:01	KE	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	625259	09/22/20 09:41	XL	TAL IRV

Client Sample ID: MW-4-9-16-20
Date Collected: 09/16/20 17:20
Date Received: 09/18/20 14:00

Lab Sample ID: 440-272039-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			624889	09/19/20 01:55	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	626077	09/29/20 12:07	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626252	09/30/20 15:03	KE	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	625259	09/22/20 09:41	XL	TAL IRV

Client Sample ID: DUP-9-16-20
Date Collected: 09/16/20 00:01
Date Received: 09/18/20 14:00

Lab Sample ID: 440-272039-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			625093	09/21/20 13:55	OH1	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	626077	09/29/20 12:07	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626252	09/30/20 15:06	KE	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	625259	09/22/20 09:41	XL	TAL IRV

Lab Chronicle

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

Job ID: 440-272039-1

Laboratory References:

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-624889/7
Matrix: Water
Analysis Batch: 624889

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			09/18/20 11:03	1

Lab Sample ID: LCS 440-624889/8
Matrix: Water
Analysis Batch: 624889

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	4.88		mg/L		98	90 - 110		

Lab Sample ID: 440-272036-A-1 MS
Matrix: Water
Analysis Batch: 624889

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	54	E	5.00	59.9	E 4	mg/L		109	80 - 120		

Lab Sample ID: 440-272036-A-1 MSD
Matrix: Water
Analysis Batch: 624889

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	54	E	5.00	60.2	E 4	mg/L		116	80 - 120	1	20

Lab Sample ID: MB 440-625093/6
Matrix: Water
Analysis Batch: 625093

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			09/21/20 11:44	1

Lab Sample ID: LCS 440-625093/5
Matrix: Water
Analysis Batch: 625093

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	5.25		mg/L		105	90 - 110		

Lab Sample ID: 440-272039-5 MS
Matrix: Water
Analysis Batch: 625093

Client Sample ID: DUP-9-16-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	360		250	595		mg/L		93	80 - 120		

Lab Sample ID: 440-272039-5 MSD
Matrix: Water
Analysis Batch: 625093

Client Sample ID: DUP-9-16-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	360		250	609		mg/L		98	80 - 120	2	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-626077/1-A
Matrix: Water
Analysis Batch: 626252

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 626077

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		0.50		mg/L		09/29/20 12:07	09/30/20 14:34	1

Lab Sample ID: LCS 440-626077/2-A
Matrix: Water
Analysis Batch: 626252

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 626077

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sodium			10.0	10.1		mg/L		101	80 - 120		

Lab Sample ID: 440-272197-H-1-B MS ^10
Matrix: Water
Analysis Batch: 626252

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 626077

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sodium	1800		10.0	1890	4	mg/L		460	75 - 125		

Lab Sample ID: 440-272197-H-1-C MSD ^10
Matrix: Water
Analysis Batch: 626252

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 626077

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	1800		10.0	1900	4	mg/L		550	75 - 125	0	20

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

Lab Sample ID: MB 440-625259/1
Matrix: Water
Analysis Batch: 625259

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			09/22/20 09:41	1

Lab Sample ID: LCS 440-625259/2
Matrix: Water
Analysis Batch: 625259

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	962		mg/L		96	90 - 110		

Lab Sample ID: 440-271886-A-1 DU
Matrix: Water
Analysis Batch: 625259

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	3500			3520		mg/L				0.3	5

HPLC/IC

Analysis Batch: 624889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272039-1	MW-1-9-16-20	Total/NA	Water	300.0	
440-272039-2	MW-2-9-16-20	Total/NA	Water	300.0	
440-272039-3	MW-3-9-16-20	Total/NA	Water	300.0	
440-272039-4	MW-4-9-16-20	Total/NA	Water	300.0	
MB 440-624889/7	Method Blank	Total/NA	Water	300.0	
LCS 440-624889/8	Lab Control Sample	Total/NA	Water	300.0	
440-272036-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-272036-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 625093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272039-5	DUP-9-16-20	Total/NA	Water	300.0	
MB 440-625093/6	Method Blank	Total/NA	Water	300.0	
LCS 440-625093/5	Lab Control Sample	Total/NA	Water	300.0	
440-272039-5 MS	DUP-9-16-20	Total/NA	Water	300.0	
440-272039-5 MSD	DUP-9-16-20	Total/NA	Water	300.0	

Metals

Prep Batch: 626077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272039-1	MW-1-9-16-20	Total Recoverable	Water	3005A	
440-272039-2	MW-2-9-16-20	Total Recoverable	Water	3005A	
440-272039-3	MW-3-9-16-20	Total Recoverable	Water	3005A	
440-272039-4	MW-4-9-16-20	Total Recoverable	Water	3005A	
440-272039-5	DUP-9-16-20	Total Recoverable	Water	3005A	
MB 440-626077/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-626077/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-272197-H-1-B MS ^10	Matrix Spike	Total Recoverable	Water	3005A	
440-272197-H-1-C MSD ^10	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 626252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272039-1	MW-1-9-16-20	Total Recoverable	Water	6010B	626077
440-272039-2	MW-2-9-16-20	Total Recoverable	Water	6010B	626077
440-272039-3	MW-3-9-16-20	Total Recoverable	Water	6010B	626077
440-272039-4	MW-4-9-16-20	Total Recoverable	Water	6010B	626077
440-272039-5	DUP-9-16-20	Total Recoverable	Water	6010B	626077
MB 440-626077/1-A	Method Blank	Total Recoverable	Water	6010B	626077
LCS 440-626077/2-A	Lab Control Sample	Total Recoverable	Water	6010B	626077
440-272197-H-1-B MS ^10	Matrix Spike	Total Recoverable	Water	6010B	626077
440-272197-H-1-C MSD ^10	Matrix Spike Duplicate	Total Recoverable	Water	6010B	626077

General Chemistry

Analysis Batch: 625259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272039-1	MW-1-9-16-20	Total/NA	Water	SM 2540C	
440-272039-2	MW-2-9-16-20	Total/NA	Water	SM 2540C	
440-272039-3	MW-3-9-16-20	Total/NA	Water	SM 2540C	
440-272039-4	MW-4-9-16-20	Total/NA	Water	SM 2540C	
440-272039-5	DUP-9-16-20	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 625259 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-625259/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-625259/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-271886-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Definitions/Glossary

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

Job ID: 440-272039-1

Qualifiers

HPLC/IC

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.
E	Result exceeded calibration range.

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
Job ID: 440-272039-1
Project/Site: Nextera-Kramer Junction

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	06-30-21

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
SM 2540C		Water	Total Dissolved Solids

Chain of Custody Record

389762

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Glen King	Site Contact:	Date: 9-18-20	COC No
Company Name: Nextera Kramer Junction	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 41100 Hwy 395	Analysis Turnaround Time			Sampler:
City/State/Zip: Boron, CA 93516	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone (760) 762-5562	TAT if different from Below _____			Walk-in Client:
Fax:	☒ 2 weeks			Lab Sampling
Project Name: Nextera-Kramer Junction	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 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)	Sodium Sulfate TPS			Sample Specific Notes:
MW-1-9-16-20	9-16-20	1210	G	GW	1	N	N	X	X	X	
MW-2 "		1410			1			X	X	X	
MW-3 "		1630			1			X	X	X	
MW-4 "		1720			1			X	X	X	
Dup- "		—			1			X	X	X	

440-272039 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 ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C). Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by	Company:	Date/Time:
	NorthStar	9-18-20@1400			
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Sinelas	Company: EO-IRV	Date/Time: 9/18/20 1400

1.7/1.6 TR-89

Login Sample Receipt Checklist

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-272039-1

Login Number: 272039
List Number: 1
Creator: Skinner, Alma D

List Source: Eurofins Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	Improper containers received.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 440-275936-1
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:
12/23/2020 1:40:33 PM

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

Table of Contents

Sample Summary

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

Job ID: 440-275936-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-275936-1	MW-1-12-8-20	Water	12/08/20 11:50	12/10/20 14:56	
440-275936-2	MW-2-12-8-20	Water	12/08/20 13:40	12/10/20 14:56	
440-275936-3	MW-3-12-8-20	Water	12/08/20 16:00	12/10/20 14:56	
440-275936-4	MW-4-12-8-20	Water	12/08/20 16:50	12/10/20 14:56	
440-275936-6	Dup-12-8-20	Water	12/08/20 00:01	12/10/20 14:56	
440-275936-9	LF@6'-12-8-20	Solid	12/08/20 10:45	12/10/20 14:56	

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

Job ID: 440-275936-1

Job ID: 440-275936-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-275936-1

Comments
No additional comments.

Receipt
The samples were received on 12/10/2020 2:56 PM; the samples arrived in good condition and on ice. The temperature of the cooler at receipt was 4.0º C.

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

HPLC/IC
Method 300.0: The following samples were received outside of holding time: MW-1-12-8-20 (440-275936-1), MW-2-12-8-20 (440-275936-2), and Dup-12-8-20 (440-275936-6) for Orthophosphate as PO4.

Method 300.0: The following samples were analyzed outside of analytical holding time: MW-3-12-8-20 (440-275936-3) and MW-4-12-8-20 (440-275936-4), due to insufficient time remaining in the analytical holding time, for Orthophosphate as PO4.

Method 300.0: The continuing calibration verification (CCV) associated with batch 440-633211 recovered above the upper control limit for Orthophosphate as PO4. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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

Metals
The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: MW-1-12-8-20 (440-275936-1), MW-2-12-8-20 (440-275936-2), MW-3-12-8-20 (440-275936-3), MW-4-12-8-20 (440-275936-4) and Dup-12-8-20 (440-275936-6). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

2.0 mL of 1:1 HNO3 was added to each container A-1, A-2, A-3, A-4, and A-6 on 12/16/20 @ 1310 hours
1:1 HNO3 Reagent # 6415103

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.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-633475. Method 8015B

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

Client Sample ID: MW-1-12-8-20

Date Collected: 12/08/20 11:50
Date Received: 12/10/20 14:56

Lab Sample ID: 440-275936-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		0.097		mg/L		12/12/20 05:51	12/15/20 13:41	1
1,1'-Biphenyl	ND		0.097		mg/L		12/12/20 05:51	12/15/20 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*68*		*45 - 120*	*12/12/20 05:51*	*12/15/20 13:41*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		25		mg/L			12/10/20 21:24	50
Orthophosphate as PO4	ND	H H3	0.50		mg/L			12/10/20 21:35	1
Sulfate	**340**		25		mg/L			12/10/20 21:24	50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**11**		0.50		mg/L		12/18/20 08:25	12/18/20 17:03	1
Sodium	**350**		0.50		mg/L		12/18/20 08:25	12/18/20 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1300**		10		mg/L			12/15/20 10:30	1

Client Sample ID: MW-2-12-8-20

Date Collected: 12/08/20 13:40
Date Received: 12/10/20 14:56

Lab Sample ID: 440-275936-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		0.095		mg/L		12/12/20 05:51	12/15/20 14:05	1
1,1'-Biphenyl	ND		0.095		mg/L		12/12/20 05:51	12/15/20 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*45 - 120*	*12/12/20 05:51*	*12/15/20 14:05*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		25		mg/L			12/10/20 21:42	50
Orthophosphate as PO4	ND	H H3	0.50		mg/L			12/10/20 21:53	1
Sulfate	**240**		25		mg/L			12/10/20 21:42	50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**5.5**		0.50		mg/L		12/18/20 08:25	12/18/20 17:13	1
Sodium	**320**		0.50		mg/L		12/18/20 08:25	12/18/20 17:13	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1100**		10		mg/L			12/15/20 10:30	1

Client Sample ID: MW-3-12-8-20

Date Collected: 12/08/20 16:00
Date Received: 12/10/20 14:56

Lab Sample ID: 440-275936-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		0.097		mg/L		12/12/20 05:51	12/15/20 14:29	1
1,1'-Biphenyl	ND		0.097		mg/L		12/12/20 05:51	12/15/20 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*45 - 120*	*12/12/20 05:51*	*12/15/20 14:29*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		25		mg/L			12/10/20 22:38	50
Orthophosphate as PO4	ND	H	0.50		mg/L			12/10/20 22:11	1
Sulfate	**220**		25		mg/L			12/10/20 22:38	50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**5.2**		0.50		mg/L		12/18/20 08:25	12/18/20 17:16	1
Sodium	**270**		0.50		mg/L		12/18/20 08:25	12/18/20 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**960**		10		mg/L			12/15/20 10:30	1

Client Sample ID: MW-4-12-8-20

Date Collected: 12/08/20 16:50
Date Received: 12/10/20 14:56

Lab Sample ID: 440-275936-4

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		0.096		mg/L		12/12/20 05:51	12/15/20 14:53	1
1,1'-Biphenyl	ND		0.096		mg/L		12/12/20 05:51	12/15/20 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*66*		*45 - 120*	*12/12/20 05:51*	*12/15/20 14:53*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		25		mg/L			12/10/20 22:55	50
Orthophosphate as PO4	ND	H	0.50		mg/L			12/11/20 00:30	1
Sulfate	**200**		25		mg/L			12/10/20 22:55	50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**5.0**		0.50		mg/L		12/18/20 08:25	12/18/20 17:18	1
Sodium	**230**		0.50		mg/L		12/18/20 08:25	12/18/20 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**850**		10		mg/L			12/15/20 10:30	1

Client Sample ID: Dup-12-8-20

Date Collected: 12/08/20 00:01
Date Received: 12/10/20 14:56

Lab Sample ID: 440-275936-6
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		0.096		mg/L		12/12/20 05:51	12/15/20 15:17	1
1,1'-Biphenyl	ND		0.096		mg/L		12/12/20 05:51	12/15/20 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*67*		*45 - 120*	*12/12/20 05:51*	*12/15/20 15:17*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		25		mg/L			12/11/20 20:37	50
Orthophosphate as PO4	ND	H H3	0.50		mg/L			12/11/20 20:19	1
Sulfate	**340**		25		mg/L			12/11/20 20:37	50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**11**		0.50		mg/L		12/18/20 08:25	12/18/20 17:21	1
Sodium	**340**		0.50		mg/L		12/18/20 08:25	12/18/20 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1300**		10		mg/L			12/15/20 10:30	1

Client Sample ID: LF@6'-12-8-20

Date Collected: 12/08/20 10:45
Date Received: 12/10/20 14:56

Lab Sample ID: 440-275936-9
Matrix: Solid

Method: 8015B - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		5.0		mg/Kg		12/16/20 12:15	12/18/20 15:04	1
1,1'-Biphenyl	ND		5.0		mg/Kg		12/16/20 12:15	12/18/20 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*67*		*40 - 140*	*12/16/20 12:15*	*12/18/20 15:04*	*1*

Method Summary

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

Job ID: 440-275936-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8015B	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL IRV
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
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3546	Microwave Extraction	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: 440-275936-1

Client Sample ID: MW-1-12-8-20

Lab Sample ID: 440-275936-1

Date Collected: 12/08/20 11:50

Matrix: Water

Date Received: 12/10/20 14:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1030 mL	1 mL	633475	12/12/20 05:51	H1SH	TAL IRV
Total/NA	Analysis	8015B		1			633671	12/15/20 13:41	RMP	TAL IRV
Total/NA	Analysis	300.0		50			633205	12/10/20 21:24	NTN	TAL IRV
Total/NA	Analysis	300.0		1			633211	12/10/20 21:35	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	633996	12/18/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			634134	12/18/20 17:03	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	633667	12/15/20 10:30	XL	TAL IRV

Client Sample ID: MW-2-12-8-20

Lab Sample ID: 440-275936-2

Date Collected: 12/08/20 13:40

Matrix: Water

Date Received: 12/10/20 14:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1054 mL	1 mL	633475	12/12/20 05:51	H1SH	TAL IRV
Total/NA	Analysis	8015B		1			633671	12/15/20 14:05	RMP	TAL IRV
Total/NA	Analysis	300.0		50			633205	12/10/20 21:42	NTN	TAL IRV
Total/NA	Analysis	300.0		1			633211	12/10/20 21:53	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	633996	12/18/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			634134	12/18/20 17:13	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	633667	12/15/20 10:30	XL	TAL IRV

Client Sample ID: MW-3-12-8-20

Lab Sample ID: 440-275936-3

Date Collected: 12/08/20 16:00

Matrix: Water

Date Received: 12/10/20 14:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1030 mL	1 mL	633475	12/12/20 05:51	H1SH	TAL IRV
Total/NA	Analysis	8015B		1			633671	12/15/20 14:29	RMP	TAL IRV
Total/NA	Analysis	300.0		50			633205	12/10/20 22:38	NTN	TAL IRV
Total/NA	Analysis	300.0		1			633211	12/10/20 22:11	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	633996	12/18/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			634134	12/18/20 17:16	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	633667	12/15/20 10:30	XL	TAL IRV

Client Sample ID: MW-4-12-8-20

Lab Sample ID: 440-275936-4

Date Collected: 12/08/20 16:50

Matrix: Water

Date Received: 12/10/20 14:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1040 mL	1 mL	633475	12/12/20 05:51	H1SH	TAL IRV
Total/NA	Analysis	8015B		1			633671	12/15/20 14:53	RMP	TAL IRV
Total/NA	Analysis	300.0		50			633205	12/10/20 22:55	NTN	TAL IRV
Total/NA	Analysis	300.0		1			633211	12/11/20 00:30	NTN	TAL IRV

Lab Chronicle

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

Job ID: 440-275936-1

Client Sample ID: MW-4-12-8-20

Lab Sample ID: 440-275936-4

Date Collected: 12/08/20 16:50

Matrix: Water

Date Received: 12/10/20 14:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	633996	12/18/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			634134	12/18/20 17:18	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	633667	12/15/20 10:30	XL	TAL IRV

Client Sample ID: Dup-12-8-20

Lab Sample ID: 440-275936-6

Date Collected: 12/08/20 00:01

Matrix: Water

Date Received: 12/10/20 14:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1040 mL	1 mL	633475	12/12/20 05:51	H1SH	TAL IRV
Total/NA	Analysis	8015B		1			633671	12/15/20 15:17	RMP	TAL IRV
Total/NA	Analysis	300.0		1			633354	12/11/20 20:19	NTN	TAL IRV
Total/NA	Analysis	300.0		50			633355	12/11/20 20:37	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	633996	12/18/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			634134	12/18/20 17:21	P1R	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	633667	12/15/20 10:30	XL	TAL IRV

Client Sample ID: LF@6'-12-8-20

Lab Sample ID: 440-275936-9

Date Collected: 12/08/20 10:45

Matrix: Solid

Date Received: 12/10/20 14:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	1 mL	633863	12/16/20 12:15	EGC	TAL IRV
Total/NA	Analysis	8015B		1			634095	12/18/20 15:04	RMP	TAL IRV

Laboratory References:

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

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

Lab Sample ID: MB 440-633475/1-A
Matrix: Water
Analysis Batch: 633671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633475

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		0.10		mg/L		12/12/20 05:51	12/15/20 13:17	1
1,1'-Biphenyl	ND		0.10		mg/L		12/12/20 05:51	12/15/20 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*76*		*45 - 120*	*12/12/20 05:51*	*12/15/20 13:17*	*1*

Lab Sample ID: LCS 440-633475/2-A
Matrix: Water
Analysis Batch: 633671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633475

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene, 1,1'-oxybis-			0.100	0.0790	J	mg/L		79	50 - 115		
1,1'-Biphenyl			0.100	0.0786	J	mg/L		79	50 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*75*		*45 - 120*

Lab Sample ID: LCSD 440-633475/3-A
Matrix: Water
Analysis Batch: 633671

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 633475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene, 1,1'-oxybis-			0.100	0.0818	J	mg/L		82	50 - 115	3	30
1,1'-Biphenyl			0.100	0.0815	J	mg/L		82	50 - 115	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*79*		*45 - 120*

Method: 8015B - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 440-633863/1-A
Matrix: Solid
Analysis Batch: 634095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633863

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		5.0		mg/Kg		12/16/20 12:15	12/18/20 11:54	1
1,1'-Biphenyl	ND		5.0		mg/Kg		12/16/20 12:15	12/18/20 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*40 - 140*	*12/16/20 12:15*	*12/18/20 11:54*	*1*

Lab Sample ID: LCS 440-633863/6-A
Matrix: Solid
Analysis Batch: 634095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633863

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene, 1,1'-oxybis-			6.67	6.08		mg/Kg		91	45 - 115		
1,1'-Biphenyl			6.67	6.12		mg/Kg		92	45 - 115		

Method: 8015B - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	94		40 - 140

Lab Sample ID: 440-275936-9 MS
Matrix: Solid
Analysis Batch: 634095

Client Sample ID: LF@6'-12-8-20
Prep Type: Total/NA
Prep Batch: 633863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene, 1,1'-oxybis-	ND		6.64	ND		mg/Kg		71	40 - 120
1,1'-Biphenyl	ND		6.64	ND		mg/Kg		72	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	69		40 - 140

Lab Sample ID: 440-275936-9 MSD
Matrix: Solid
Analysis Batch: 634095

Client Sample ID: LF@6'-12-8-20
Prep Type: Total/NA
Prep Batch: 633863

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene, 1,1'-oxybis-	ND		6.67	5.08		mg/Kg		76	40 - 120	7	30
1,1'-Biphenyl	ND		6.67	5.17		mg/Kg		77	40 - 120	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	75		40 - 140

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-633205/6
Matrix: Water
Analysis Batch: 633205

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/10/20 10:57	1
Sulfate	ND		0.50		mg/L			12/10/20 10:57	1

Lab Sample ID: LCS 440-633205/5
Matrix: Water
Analysis Batch: 633205

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			5.00	4.68		mg/L		94	90 - 110
Sulfate			5.00	4.84		mg/L		97	90 - 110

Lab Sample ID: 440-275890-I-1 MS
Matrix: Water
Analysis Batch: 633205

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
Chloride	19		5.00	24.1	E	mg/L		107	80 - 120
Sulfate	170	E	5.00	175	E 4	mg/L		21	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-275890-I-1 MSD
Matrix: Water
Analysis Batch: 633205

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
Chloride	19		5.00	24.4	E	mg/L		113	80 - 120	1	20
Sulfate	170	E	5.00	176	E 4	mg/L		41	80 - 120	1	20

Lab Sample ID: MB 440-633211/7
Matrix: Water
Analysis Batch: 633211

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as PO4	ND		0.50		mg/L			12/10/20 11:20	1

Lab Sample ID: LCS 440-633211/6
Matrix: Water
Analysis Batch: 633211

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Orthophosphate as PO4			5.00	4.74		mg/L		95	90 - 110		

Lab Sample ID: 440-275890-I-1 MS
Matrix: Water
Analysis Batch: 633211

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		
Orthophosphate as PO4	ND	F1	5.00	6.73	F1	mg/L		135	80 - 120		

Lab Sample ID: 440-275890-I-1 MSD
Matrix: Water
Analysis Batch: 633211

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
Orthophosphate as PO4	ND	F1	5.00	7.78	F1	mg/L		156	80 - 120	14	20

Lab Sample ID: MB 440-633354/6
Matrix: Water
Analysis Batch: 633354

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as PO4	ND		0.50		mg/L			12/11/20 10:12	1

Lab Sample ID: LCS 440-633354/5
Matrix: Water
Analysis Batch: 633354

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Orthophosphate as PO4			5.00	4.79		mg/L		96	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-275978-A-1 MS
Matrix: Water
Analysis Batch: 633354

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
Orthophosphate as PO4	ND		5.00	5.06		mg/L		101	80 - 120

Lab Sample ID: 440-275978-A-1 MSD
Matrix: Water
Analysis Batch: 633354

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
Orthophosphate as PO4	ND		5.00	5.07		mg/L		101	80 - 120	0	20

Lab Sample ID: MB 440-633355/6
Matrix: Water
Analysis Batch: 633355

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/11/20 10:12	1
Sulfate	ND		0.50		mg/L			12/11/20 10:12	1

Lab Sample ID: LCS 440-633355/5
Matrix: Water
Analysis Batch: 633355

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.67		mg/L		93	90 - 110
Sulfate	5.00	4.88		mg/L		98	90 - 110

Lab Sample ID: 440-275978-A-1 MS
Matrix: Water
Analysis Batch: 633355

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
Chloride	38	E	5.00	44.0	E 4	mg/L		124	80 - 120
Sulfate	25		5.00	30.3	4	mg/L		105	80 - 120

Lab Sample ID: 440-275978-A-1 MSD
Matrix: Water
Analysis Batch: 633355

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
Chloride	38	E	5.00	43.9	E 4	mg/L		122	80 - 120	0	20
Sulfate	25		5.00	30.2	4	mg/L		104	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-633996/1-A
Matrix: Water
Analysis Batch: 634134

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 633996

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50		mg/L		12/18/20 08:25	12/18/20 16:51	1
Sodium	ND		0.50		mg/L		12/18/20 08:25	12/18/20 16:51	1

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

Lab Sample ID: LCS 440-633996/2-A
Matrix: Water
Analysis Batch: 634134

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 633996

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium			10.0	10.2		mg/L		102	80 - 120		
Sodium			10.0	10.2		mg/L		102	80 - 120		

Lab Sample ID: 440-275936-1 MS
Matrix: Water
Analysis Batch: 634134

Client Sample ID: MW-1-12-8-20
Prep Type: Total Recoverable
Prep Batch: 633996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium	11		10.0	20.8		mg/L		98	75 - 125		
Sodium	350		10.0	356	4	mg/L		52	75 - 125		

Lab Sample ID: 440-275936-1 MSD
Matrix: Water
Analysis Batch: 634134

Client Sample ID: MW-1-12-8-20
Prep Type: Total Recoverable
Prep Batch: 633996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	11		10.0	20.8		mg/L		98	75 - 125	0	20
Sodium	350		10.0	359	4	mg/L		81	75 - 125	1	20

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

Lab Sample ID: MB 440-633667/1
Matrix: Water
Analysis Batch: 633667

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			12/15/20 10:29	1

Lab Sample ID: LCS 440-633667/2
Matrix: Water
Analysis Batch: 633667

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	968		mg/L		97	90 - 110		

Lab Sample ID: 440-275936-6 DU
Matrix: Water
Analysis Batch: 633667

Client Sample ID: Dup-12-8-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1300			1290		mg/L				0.2	5

QC Association Summary

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

Job ID: 440-275936-1

GC Semi VOA

Prep Batch: 633475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-1	MW-1-12-8-20	Total/NA	Water	3510C	
440-275936-2	MW-2-12-8-20	Total/NA	Water	3510C	
440-275936-3	MW-3-12-8-20	Total/NA	Water	3510C	
440-275936-4	MW-4-12-8-20	Total/NA	Water	3510C	
440-275936-6	Dup-12-8-20	Total/NA	Water	3510C	
MB 440-633475/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-633475/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-633475/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 633671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-1	MW-1-12-8-20	Total/NA	Water	8015B	633475
440-275936-2	MW-2-12-8-20	Total/NA	Water	8015B	633475
440-275936-3	MW-3-12-8-20	Total/NA	Water	8015B	633475
440-275936-4	MW-4-12-8-20	Total/NA	Water	8015B	633475
440-275936-6	Dup-12-8-20	Total/NA	Water	8015B	633475
MB 440-633475/1-A	Method Blank	Total/NA	Water	8015B	633475
LCS 440-633475/2-A	Lab Control Sample	Total/NA	Water	8015B	633475
LCSD 440-633475/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	633475

Prep Batch: 633863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-9	LF@6'-12-8-20	Total/NA	Solid	3546	
MB 440-633863/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-633863/6-A	Lab Control Sample	Total/NA	Solid	3546	
440-275936-9 MS	LF@6'-12-8-20	Total/NA	Solid	3546	
440-275936-9 MSD	LF@6'-12-8-20	Total/NA	Solid	3546	

Analysis Batch: 634095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-9	LF@6'-12-8-20	Total/NA	Solid	8015B	633863
MB 440-633863/1-A	Method Blank	Total/NA	Solid	8015B	633863
LCS 440-633863/6-A	Lab Control Sample	Total/NA	Solid	8015B	633863
440-275936-9 MS	LF@6'-12-8-20	Total/NA	Solid	8015B	633863
440-275936-9 MSD	LF@6'-12-8-20	Total/NA	Solid	8015B	633863

HPLC/IC

Analysis Batch: 633205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-1	MW-1-12-8-20	Total/NA	Water	300.0	
440-275936-2	MW-2-12-8-20	Total/NA	Water	300.0	
440-275936-3	MW-3-12-8-20	Total/NA	Water	300.0	
440-275936-4	MW-4-12-8-20	Total/NA	Water	300.0	
MB 440-633205/6	Method Blank	Total/NA	Water	300.0	
LCS 440-633205/5	Lab Control Sample	Total/NA	Water	300.0	
440-275890-I-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-275890-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

HPLC/IC

Analysis Batch: 633211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-1	MW-1-12-8-20	Total/NA	Water	300.0	
440-275936-2	MW-2-12-8-20	Total/NA	Water	300.0	
440-275936-3	MW-3-12-8-20	Total/NA	Water	300.0	
440-275936-4	MW-4-12-8-20	Total/NA	Water	300.0	
MB 440-633211/7	Method Blank	Total/NA	Water	300.0	
LCS 440-633211/6	Lab Control Sample	Total/NA	Water	300.0	
440-275890-I-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-275890-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 633354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-6	Dup-12-8-20	Total/NA	Water	300.0	
MB 440-633354/6	Method Blank	Total/NA	Water	300.0	
LCS 440-633354/5	Lab Control Sample	Total/NA	Water	300.0	
440-275978-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-275978-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 633355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-6	Dup-12-8-20	Total/NA	Water	300.0	
MB 440-633355/6	Method Blank	Total/NA	Water	300.0	
LCS 440-633355/5	Lab Control Sample	Total/NA	Water	300.0	
440-275978-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-275978-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 633996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-1	MW-1-12-8-20	Total Recoverable	Water	3005A	
440-275936-2	MW-2-12-8-20	Total Recoverable	Water	3005A	
440-275936-3	MW-3-12-8-20	Total Recoverable	Water	3005A	
440-275936-4	MW-4-12-8-20	Total Recoverable	Water	3005A	
440-275936-6	Dup-12-8-20	Total Recoverable	Water	3005A	
MB 440-633996/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-633996/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-275936-1 MS	MW-1-12-8-20	Total Recoverable	Water	3005A	
440-275936-1 MSD	MW-1-12-8-20	Total Recoverable	Water	3005A	

Analysis Batch: 634134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-1	MW-1-12-8-20	Total Recoverable	Water	6010B	633996
440-275936-2	MW-2-12-8-20	Total Recoverable	Water	6010B	633996
440-275936-3	MW-3-12-8-20	Total Recoverable	Water	6010B	633996
440-275936-4	MW-4-12-8-20	Total Recoverable	Water	6010B	633996
440-275936-6	Dup-12-8-20	Total Recoverable	Water	6010B	633996
MB 440-633996/1-A	Method Blank	Total Recoverable	Water	6010B	633996
LCS 440-633996/2-A	Lab Control Sample	Total Recoverable	Water	6010B	633996
440-275936-1 MS	MW-1-12-8-20	Total Recoverable	Water	6010B	633996
440-275936-1 MSD	MW-1-12-8-20	Total Recoverable	Water	6010B	633996

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

Job ID: 440-275936-1

General Chemistry

Analysis Batch: 633667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275936-1	MW-1-12-8-20	Total/NA	Water	SM 2540C	
440-275936-2	MW-2-12-8-20	Total/NA	Water	SM 2540C	
440-275936-3	MW-3-12-8-20	Total/NA	Water	SM 2540C	
440-275936-4	MW-4-12-8-20	Total/NA	Water	SM 2540C	
440-275936-6	Dup-12-8-20	Total/NA	Water	SM 2540C	
MB 440-633667/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-633667/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-275936-6 DU	Dup-12-8-20	Total/NA	Water	SM 2540C	

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

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.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

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
Job ID: 440-275936-1
Project/Site: Nextera-Kramer Junction

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	06-30-21

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
300.0		Water	Orthophosphate as PO4
6010B	3005A	Water	Potassium
6010B	3005A	Water	Sodium
8015B	3510C	Water	1,1'-Biphenyl
8015B	3510C	Water	Benzene, 1,1'-oxybis-
8015B	3546	Solid	1,1'-Biphenyl
8015B	3546	Solid	Benzene, 1,1'-oxybis-
SM 2540C		Water	Total Dissolved Solids

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Glen Kling	Site Contact:	Date:	COC No:
Company Name: Nextera-Kramer Junction	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 41100 Hwy 395	Analysis Turnaround Time			Sampler:
City/State/Zip: Boron, CA 93516	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (760) 762-5562	TAT if different from Below _____			Walk-in Client:
Fax:	☒ 2 weeks			Lab Sampling:
Project Name: Nextera-Kramer Junction	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 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)	Chloride 300	Sodium 6010B	Sulfate 300	TDS	Bismuth 6010B	Potassium 6010B	Phosphate 300	8015C Mod for Thermo	Sample Specific Notes:
MW-1-12-8-20	12-8-20	1150	G	GW	3	N	N	X	X	X	X	X	X	X		JLL 12/11/20
MW-2- "		1340			3			X	X	X	X	X	X	X		
MW-3- "		1600			3			X	X	X	X	X	X	X		
MW-4- "		1650			3			X	X	X	X	X	X	X		
LFG6'- "		1045		Soil	1										X	
Dup - "		—		GW	3			X	X	X	X	X	X	X		

440-275936 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 ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 4.1 Corr'd: 4.0	Therm ID No.: IR-23
Relinquished by:	Company:	Date/Time: 12-10-20	Received by:	Company:	Date/Time: 1458
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 12/10/20 1456

Login Sample Receipt Checklist

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-275936-1

Login Number: 275936
List Number: 1
Creator: Lagunas, Jorge L

List Source: Eurofins Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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)	False	Refer to Job Narrative for details.
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	