

**DOCKETED**

<b>Docket Number:</b>	87-AFC-01C
<b>Project Title:</b>	COMPLIANCE-Luz Solar Electric Generating System Cogeneration AFC (150 MW) Units III-VII.
<b>TN #:</b>	236534
<b>Document Title:</b>	SEGS III - VII Second Semi-annual Bioremediation Monitoring Report
<b>Description:</b>	N/A
<b>Filer:</b>	Glen T King
<b>Organization:</b>	NextEra Energy
<b>Submitter Role:</b>	Applicant
<b>Submission Date:</b>	2/1/2021 9:00:15 AM
<b>Docketed Date:</b>	2/1/2021

Date: January 28, 2021

California Regional Water Quality Control Board  
Lahontan Region  
2501 Lake Tahoe Boulevard  
South Lake Tahoe, CA 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:** 6-95-102

**WDID Number:** 6B368909005

**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  
BIOREMEDIATION MONITORING REPORT  
SEGS III – VII KRAMER JUNCTION  
Board Order No. 6-95-102

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 BIOREMEDIATION MONITORING

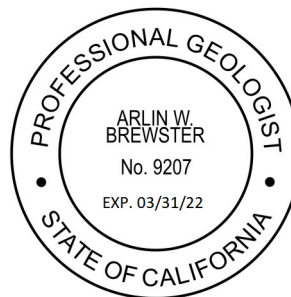

#### REPORT SEGS III - VII KRAMER JUNCTION

#### 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

## Table of Contents

1.0 INTRODUCTION .....	1
1.1 Facility Information .....	1
1.2 Soil Treatment Units .....	1
2.0 HEAT TRANSFER FLUID RELEASES .....	2
3.0 TREATMENT AND MONITORING.....	2
4.0 SAMPLING AND ANALYTICAL SUMMARY.....	3

### List of Figures

Figure 1 – Site Location and Vicinity Map

Figure 2 – Bioremediation Unit Layout Schematic

### List of Tables

Table 1 – Summary of Analytical Results

### List of Appendices

Appendix A – Laboratory Reports

## 1.0 INTRODUCTION

Northstar Environmental Remediation (Northstar) of Lake Forest, California has prepared this 2020 Second Semiannual Bioremediation 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. 6-95-102 Waste Discharge Requirements and Monitoring and Reporting Program. This report summarizes all bioremediation activity that occurred during the reporting period. Northstar currently conducts soil sampling associated with the bioremediation unit. 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. 6-95-102 (6-90-24 rescinded)

**Waste Discharge Identification Number:**

6B368909005

### 1.2 Soil Treatment Units

The Bioremediation Unit is designed to treat soil contaminated with the heat transfer fluid (HTF) Therminol, which is used in the processes of the solar trough technology employed at the site. Onsite treatment of contaminated soils is accomplished through two soil treatment units onsite: the Bioremediation Unit (located between SEGS VI and VII), which is used for storage and treatment of HTF-impacted soils; and, the Landfarm Unit (located between SEGS III and IV), which is used for treatment by natural attenuation and for storage of remediated soils, staged for future use at the facility. The location of both Units are shown on **Figure 1**.

## 2.0 HEAT TRANSFER FLUID RELEASES

There were no reportable spills (more than 25 gallons) of heat transfer fluid during the reporting period.

## 3.0 TREATMENT AND MONITORING

The Bioremediation Unit is divided into a north and south half by a concrete divider (see **Figure 2**). The North half is designated for soil treatment, and the south half for HTF-impacted soil storage. The impacted soils are treated in smaller cells by mixing with a urea fertilizer (containing nitrogen, phosphorous, and potassium), adding moisture, and by aerating the soils on a weekly to bi-weekly basis. This activity enhances biodegradation of the HTF.

Monitoring is performed by visually inspecting the condition of the concrete divider and leakage detection sumps (performed by NextEra) and by collecting periodic, representative samples of the treated soil media (performed by Northstar). When HTF compounds are demonstrated to be below 1,000 parts per million (ppm) by an analytical laboratory, the treated soils are then staged in the Landfarm Unit where natural attenuation occurs. Once the HTF compounds are below 100 parts per million, they are staged for future use within the facility.

The following notes apply to the treatment and monitoring performed during this reporting period:

- No new HTF-impacted soil was transferred into the Bioremediation Unit.
- No soil was transferred to the Landfarm Unit.
- No soil was released for use within the SEGS facility.
- Two samples were collected from the Bioremediation Unit in November 2020.
- Four samples were collected from the Landfarm Unit in November 2020.
- The annual Landfarm Unit sampling was conducted in December 2020.
- No defects were discovered during inspections of the concrete divider and leakage detection sumps.
- No water accumulated in the leakage detection sumps.
- Soil aeration was performed as regularly scheduled.



## 4.0 SAMPLING AND ANALYTICAL SUMMARY

When required, soil samples are collected from four random, discrete locations within the soil stockpiles and transferred to a clean 5-gallon bucket with a clean stainless-steel trowel. All sampling apparatus are cleaned with non-phosphate detergent (typically Alconox, Liquinox, or equivalent) and triple-rinsed with deionized water prior to collecting all soil samples. The composited soil is then homogenized and transferred to laboratory-supplied, certified clean sample containers. The samples are labelled, sealed, and placed on ice to preserve the volatile compounds.

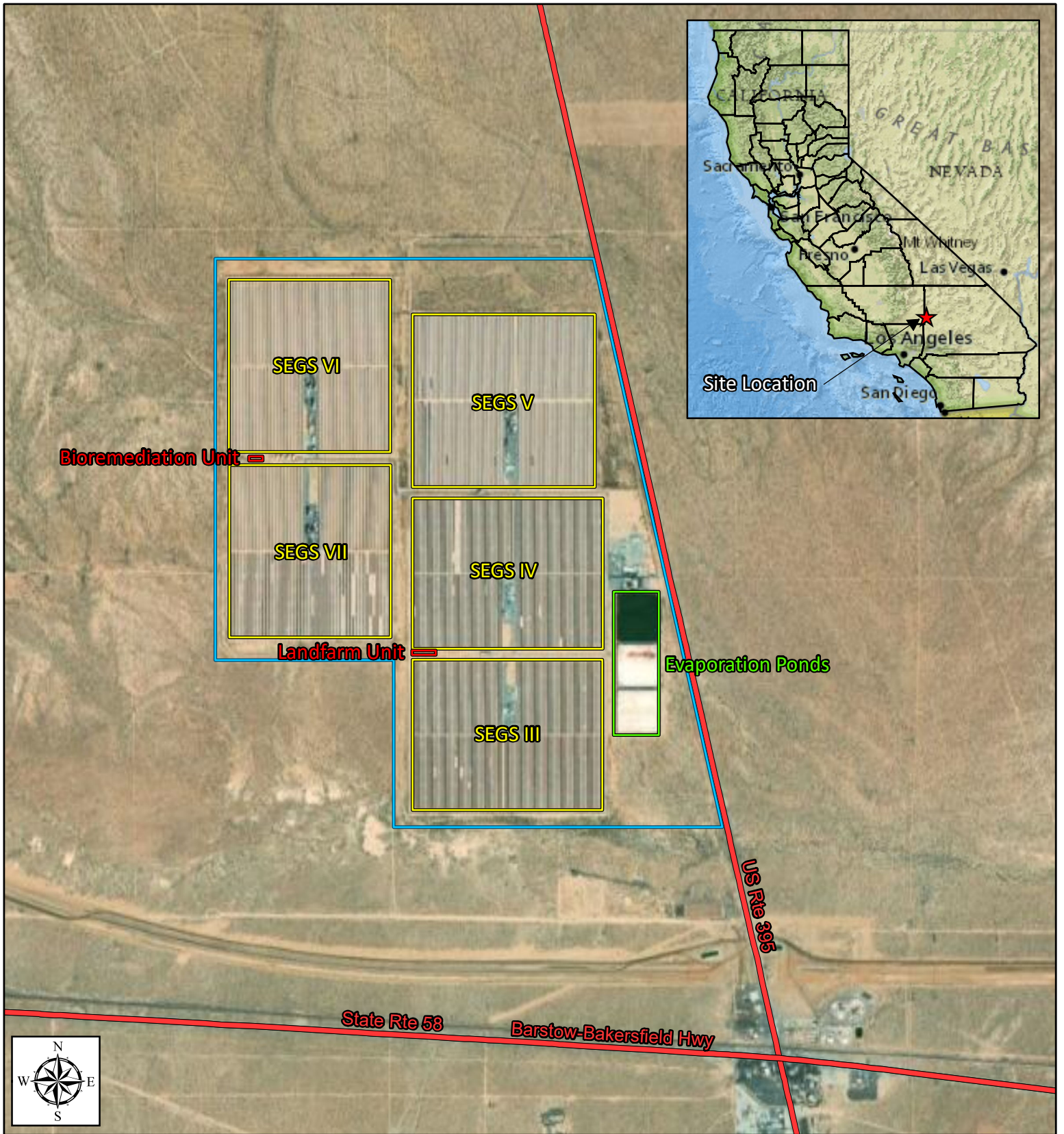
They are then transported under chain-of-custody protocols to Eurofins Calscience (formerly TestAmerica), a state- and federally-accredited laboratory located in Irvine, California. The soil samples are analyzed by Environmental Protection Agency Method 8015M for 1,1-Biphenyl and 1,1-Oxybisbenzene, which are volatile organic compounds characteristic of the HTF Therminol. The laboratory report is then submitted directly to NextEra and Northstar personnel and are presented in **Appendix A** and summarized in **Table 1**.

Composite samples were collected from the Bioremediation Unit treatment stockpile from depths of approximately 12 inches and 6 feet, respectively. The 12-inch deep sample reported 330 parts per million of 1,1'-Oxybisbenzene but was non-detect for 1,1'-Biphenyl, while the 6-foot deep sample was non-detect for both compounds.

A total of four samples were collected from the Landfarm Unit stockpile in November 2020. For this event, the stockpile was divided into four even quarters and sampled from west to east (labelled LF#1 through LF#4, respectively). LF#1, LF#2, and LF#3 were non-detect for both compounds. LF#4, collected from the eastern quarter of the stockpile, reported 120 parts per million of 1,1'-Oxybisbenzene but was non-detect for 1,1'-Biphenyl.

The annual sample collected from beneath the Landfarm Unit on December 8, 2020 was non-detect for both compounds.

# 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**

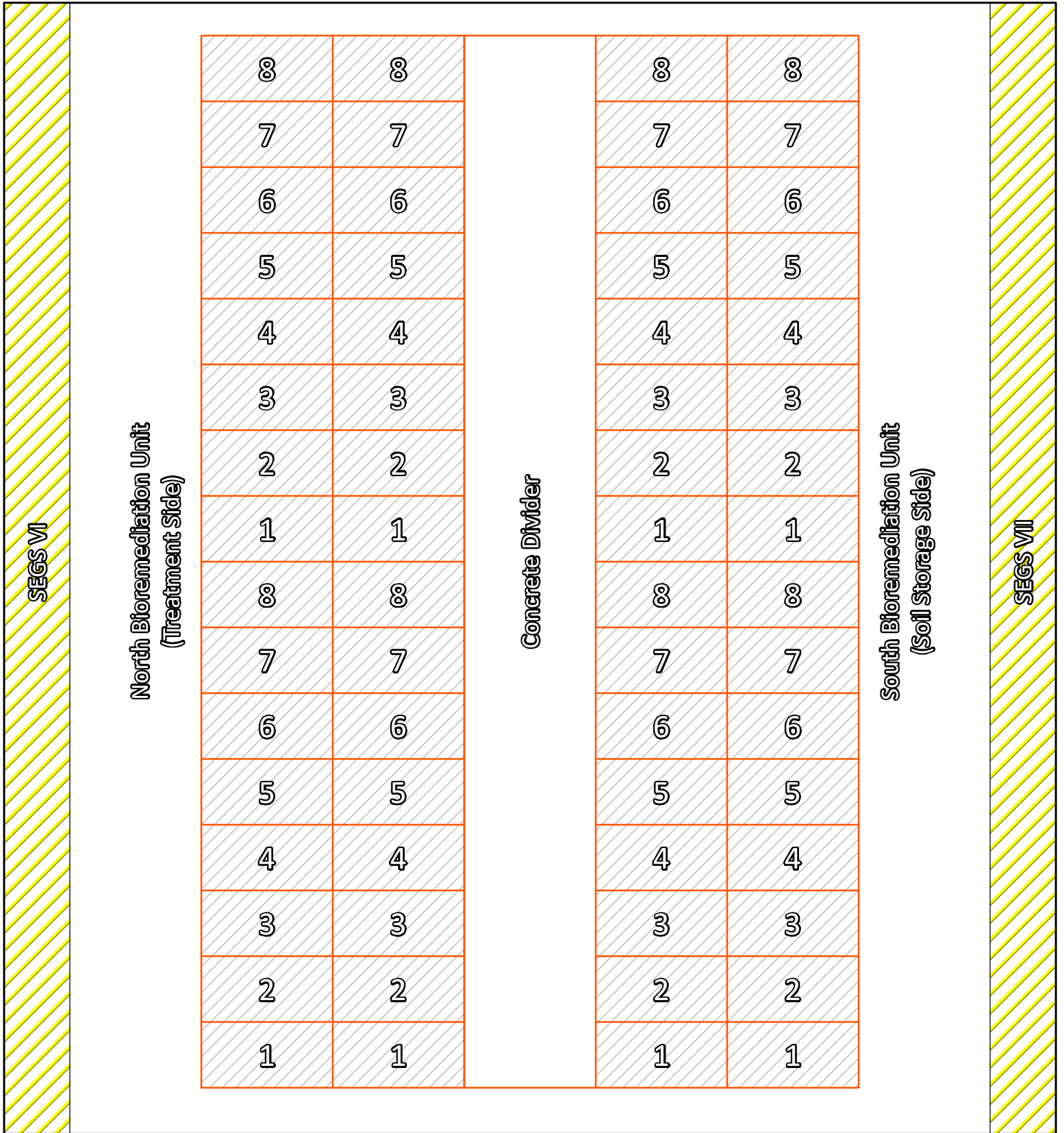


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Date: 07 Jul 2020

Drawn By: AWB

Checked By: AWB



**Legend**

-  Bioremediation Unit
-  Solar Field

SEGS III - VII Kramer Junction  
Boron, California

**Figure 2**  
**Bioremediation Unit**  
**Layout Schematic**



Scale: NTS

Date: 07 Jul 2020

Drawn By: AWB

Checked By: AWB

# TABLE

**Table 1**  
**Summary of Analytical Results**

Sample ID	Sample Type	Sample Date	Analytical Results	
			1,1'-Biphenyl (mg/kg)	1,1'-Oxybisbenzene (mg/kg)
BR @ 12"	Bioremediation Soil	19-Nov-20	ND < 250	330
BR @ 6'	Bioremediation Soil	19-Nov-20	ND < 5.0	ND < 5.0
LF#1	Landfarm Soil	19-Nov-20	ND < 5.0	ND < 5.0
LF#2	Landfarm Soil	19-Nov-20	ND < 5.0	ND < 5.0
LF#3	Landfarm Soil	19-Nov-20	ND < 5.0	ND < 5.0
LF#4	Landfarm Soil	19-Nov-20	ND < 100	120
LF @ 6'-12-8-20	Landfarm Soil	8-Dec-20	ND < 5.0	ND < 5.0

Notes:

Samples analyzed by EPA Method 8015B Modified for Therminol

mg/kg = milligrams per kilogram (parts per million)

ND = analyte not detected at or above the displayed laboratory reporting limit

# **APPENDIX A**

## **LABORATORY REPORTS**



## ANALYTICAL REPORT

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

Laboratory Job ID: 440-275183-1

Laboratory Sample Delivery Group: California  
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:  
11/25/2020 4:43:17 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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





# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Sample Summary . . . . .	3
Case Narrative . . . . .	4
Client Sample Results . . . . .	5
Method Summary . . . . .	7
Lab Chronicle . . . . .	8
QC Sample Results . . . . .	9
QC Association Summary . . . . .	10
Definitions/Glossary . . . . .	11
Certification Summary . . . . .	12
Chain of Custody . . . . .	13
Receipt Checklists . . . . .	14

# Sample Summary

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

Job ID: 440-275183-1  
SDG: California

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-275183-1	BR @12'	Solid	11/19/20 10:05	11/19/20 17:25	
440-275183-2	BR @ 6'	Solid	11/19/20 10:15	11/19/20 17:25	
440-275183-3	LF#1	Solid	11/19/20 11:10	11/19/20 17:25	
440-275183-4	LF#2	Solid	11/19/20 11:15	11/19/20 17:25	
440-275183-5	LF#3	Solid	11/19/20 11:20	11/19/20 17:25	
440-275183-6	LF#4	Solid	11/19/20 11:25	11/19/20 17:25	

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# Case Narrative

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

Job ID: 440-275183-1  
SDG: California

---

**Job ID: 440-275183-1**

---

**Laboratory: Eurofins Calscience Irvine**

## Narrative

**Job Narrative**  
**440-275183-1**

## Comments

No additional comments.

## Receipt

The samples were received on 11/19/2020 5:25 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2° C.

## GC Semi VOA

Method 8015B: Due to matrix interference and the presence of high concentrations of target analytes in the source sample, the MS/D for preparation batch 440-631710 and analytical batch 440-631903 could not be accurately quantified and were not reported in this batch. The LCS was extracted in duplicate to provide batch accuracy and precision data. LCS and LCSD met % recovery and % RPD acceptance criteria and validate the batch.

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: BR @12' (440-275183-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

## Organic Prep

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



# Client Sample Results

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

Job ID: 440-275183-1  
 SDG: California

**Client Sample ID: BR @12'**

**Lab Sample ID: 440-275183-1**

**Date Collected: 11/19/20 10:05**

**Matrix: Solid**

**Date Received: 11/19/20 17:25**

**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-	330		250	mg/Kg		11/23/20 09:12	11/24/20 13:17	50
1,1'-Biphenyl	ND		250	mg/Kg		11/23/20 09:12	11/24/20 13:17	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane	177	X	40 - 140			11/23/20 09:12	11/24/20 13:17	50

**Client Sample ID: BR @ 6'**

**Lab Sample ID: 440-275183-2**

**Date Collected: 11/19/20 10:15**

**Matrix: Solid**

**Date Received: 11/19/20 17:25**

**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		11/23/20 09:12	11/24/20 12:06	1
1,1'-Biphenyl	ND		5.0	mg/Kg		11/23/20 09:12	11/24/20 12:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane	95		40 - 140			11/23/20 09:12	11/24/20 12:06	1

**Client Sample ID: LF#1**

**Lab Sample ID: 440-275183-3**

**Date Collected: 11/19/20 11:10**

**Matrix: Solid**

**Date Received: 11/19/20 17:25**

**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		11/23/20 09:12	11/24/20 12:30	1
1,1'-Biphenyl	ND		5.0	mg/Kg		11/23/20 09:12	11/24/20 12:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane	96		40 - 140			11/23/20 09:12	11/24/20 12:30	1

**Client Sample ID: LF#2**

**Lab Sample ID: 440-275183-4**

**Date Collected: 11/19/20 11:15**

**Matrix: Solid**

**Date Received: 11/19/20 17:25**

**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		11/23/20 09:12	11/24/20 12:53	1
1,1'-Biphenyl	ND		5.0	mg/Kg		11/23/20 09:12	11/24/20 12:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane	91		40 - 140			11/23/20 09:12	11/24/20 12:53	1

**Client Sample ID: LF#3**

**Lab Sample ID: 440-275183-5**

**Date Collected: 11/19/20 11:20**

**Matrix: Solid**

**Date Received: 11/19/20 17:25**

**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		11/23/20 09:12	11/24/20 13:41	1
1,1'-Biphenyl	ND		5.0	mg/Kg		11/23/20 09:12	11/24/20 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane	88		40 - 140			11/23/20 09:12	11/24/20 13:41	1

Eurofins Calscience Irvine

# Client Sample Results

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

Job ID: 440-275183-1  
 SDG: California

**Client Sample ID: LF#4**

**Lab Sample ID: 440-275183-6**

**Date Collected: 11/19/20 11:25**

**Matrix: Solid**

**Date Received: 11/19/20 17:25**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene, 1,1'-oxybis-</b>	<b>120</b>		100	mg/Kg		11/23/20 09:12	11/24/20 14:52	20
1,1'-Biphenyl	ND		100	mg/Kg		11/23/20 09:12	11/24/20 14:52	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	84		40 - 140			11/23/20 09:12	11/24/20 14:52	20

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# Method Summary

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

Job ID: 440-275183-1  
SDG: California

Method	Method Description	Protocol	Laboratory
8015B	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV

**Protocol References:**

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: 440-275183-1  
 SDG: California

**Client Sample ID: BR @12'**  
**Date Collected: 11/19/20 10:05**  
**Date Received: 11/19/20 17:25**

**Lab Sample ID: 440-275183-1**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	1 mL	631710	11/23/20 09:12	EGC	TAL IRV
Total/NA	Analysis	8015B		50			631903	11/24/20 13:17	RMP	TAL IRV

**Client Sample ID: BR @ 6'**  
**Date Collected: 11/19/20 10:15**  
**Date Received: 11/19/20 17:25**

**Lab Sample ID: 440-275183-2**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.07 g	1 mL	631710	11/23/20 09:12	EGC	TAL IRV
Total/NA	Analysis	8015B		1			631903	11/24/20 12:06	RMP	TAL IRV

**Client Sample ID: LF#1**  
**Date Collected: 11/19/20 11:10**  
**Date Received: 11/19/20 17:25**

**Lab Sample ID: 440-275183-3**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	1 mL	631710	11/23/20 09:12	EGC	TAL IRV
Total/NA	Analysis	8015B		1			631903	11/24/20 12:30	RMP	TAL IRV

**Client Sample ID: LF#2**  
**Date Collected: 11/19/20 11:15**  
**Date Received: 11/19/20 17:25**

**Lab Sample ID: 440-275183-4**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	1 mL	631710	11/23/20 09:12	EGC	TAL IRV
Total/NA	Analysis	8015B		1			631903	11/24/20 12:53	RMP	TAL IRV

**Client Sample ID: LF#3**  
**Date Collected: 11/19/20 11:20**  
**Date Received: 11/19/20 17:25**

**Lab Sample ID: 440-275183-5**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	1 mL	631710	11/23/20 09:12	EGC	TAL IRV
Total/NA	Analysis	8015B		1			631903	11/24/20 13:41	RMP	TAL IRV

**Client Sample ID: LF#4**  
**Date Collected: 11/19/20 11:25**  
**Date Received: 11/19/20 17:25**

**Lab Sample ID: 440-275183-6**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.01 g	1 mL	631710	11/23/20 09:12	EGC	TAL IRV
Total/NA	Analysis	8015B		20			631903	11/24/20 14:52	RMP	TAL IRV

**Laboratory References:**

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

# QC Sample Results

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

Job ID: 440-275183-1  
 SDG: California

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

**Lab Sample ID: MB 440-631710/1-A**  
**Matrix: Solid**  
**Analysis Batch: 631903**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 631710**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene, 1,1'-oxybis-	ND		5.0	mg/Kg		11/23/20 09:12	11/24/20 10:31	1
1,1'-Biphenyl	ND		5.0	mg/Kg		11/23/20 09:12	11/24/20 10:31	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane	90		40 - 140			11/23/20 09:12	11/24/20 10:31	1

**Lab Sample ID: LCS 440-631710/2-A**  
**Matrix: Solid**  
**Analysis Batch: 631903**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 631710**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Benzene, 1,1'-oxybis-	6.67	6.30		mg/Kg		94	45 - 115
1,1'-Biphenyl	6.67	6.40		mg/Kg		96	45 - 115
Surrogate	LCS	LCS	Limits				
<i>n</i> -Octacosane	93		40 - 140				

**Lab Sample ID: LCSD 440-631710/3-A**  
**Matrix: Solid**  
**Analysis Batch: 631903**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 631710**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD
		Result	Qualifier						Limit
Benzene, 1,1'-oxybis-	6.67	6.30		mg/Kg		95	45 - 115	0	30
1,1'-Biphenyl	6.67	6.36		mg/Kg		95	45 - 115	1	30
Surrogate	LCSD	LCSD	Limits						
<i>n</i> -Octacosane	91		40 - 140						



# QC Association Summary

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

Job ID: 440-275183-1  
SDG: California

## GC Semi VOA

### Prep Batch: 631710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275183-1	BR @12'	Total/NA	Solid	3546	
440-275183-2	BR @ 6'	Total/NA	Solid	3546	
440-275183-3	LF#1	Total/NA	Solid	3546	
440-275183-4	LF#2	Total/NA	Solid	3546	
440-275183-5	LF#3	Total/NA	Solid	3546	
440-275183-6	LF#4	Total/NA	Solid	3546	
MB 440-631710/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-631710/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 440-631710/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

### Analysis Batch: 631903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-275183-1	BR @12'	Total/NA	Solid	8015B	631710
440-275183-2	BR @ 6'	Total/NA	Solid	8015B	631710
440-275183-3	LF#1	Total/NA	Solid	8015B	631710
440-275183-4	LF#2	Total/NA	Solid	8015B	631710
440-275183-5	LF#3	Total/NA	Solid	8015B	631710
440-275183-6	LF#4	Total/NA	Solid	8015B	631710
MB 440-631710/1-A	Method Blank	Total/NA	Solid	8015B	631710
LCS 440-631710/2-A	Lab Control Sample	Total/NA	Solid	8015B	631710
LCSD 440-631710/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	631710

# Definitions/Glossary

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

Job ID: 440-275183-1  
SDG: California

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

## Glossary

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

# Accreditation/Certification Summary

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

Job ID: 440-275183-1  
SDG: California

## Laboratory: Eurofins Calscience Irvine

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

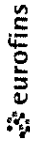
Authority	Program	Identification Number	Expiration Date
California	State	2706	06-30-21

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
8015B	3546	Solid	1,1'-Biphenyl
8015B	3546	Solid	Benzene, 1,1'-oxybis-



**Chain of Custody Record**



<b>Client Information</b> Company: FPL Energy Solar Partners III-VII LLC Address: 41100 Hwy 395 City: Boron State, Zip: CA, 93516 Phone: 760-762-3100 (Tel) Email: glen_king@fpl.com Project Name: Nextera Kramer Junction Site: California		Lab PM: Fama, Sheri M E-Mail: Sheri.Fama@Eurofins.com PWSID:		Carmer Tracking No(s): 440-190105-34788.1 State of Origin:				
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: Glen King WO #: Project #: 44005151 SSOW#:		<b>Analysis Requested</b>						
<b>Sample Identification</b> BR C12" BR Q6' LF #1 LF #2 LF #3 LF #4		Sample Date 11-19-20 1015 1110 1115 1120 1125	Sample Time 1005 1015 1110 1115 1120 1125	Sample Type (C=Comp, G=grab) 6 1 1 1 1 1	Matrix (W=Water, S=Sediment, O=Organic, C=Cementitious, A=Asphalt) Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	Field Filtered Sample (Yes or No) 8015B_DRO - Therminol X X X X X X X X X X X	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	Special Instructions/Note: Total Number of Containers:
<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Relinquished by: <i>[Signature]</i> Date/Time: 11-19-20 1725 Company: Mark's Relinquished by: <i>[Signature]</i> Date/Time: Company: Relinquished by: Date/Time: Company:		Method of Shipment: Received by: <i>[Signature]</i> Date/Time: 11/19/20 1725 Company: REC-REV Received by: Date/Time: Company: Received by: Date/Time: Company:						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 03/0.2 (R-8)						



## Login Sample Receipt Checklist

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-275183-1

SDG Number: California

**Login Number: 275183**

**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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	




## 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](mailto:Sheri.Fama@Eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Sample Summary . . . . .	3
Case Narrative . . . . .	4
Client Sample Results . . . . .	5
Method Summary . . . . .	8
Lab Chronicle . . . . .	9
QC Sample Results . . . . .	11
QC Association Summary . . . . .	16
Definitions/Glossary . . . . .	19
Certification Summary . . . . .	20
Chain of Custody . . . . .	21
Receipt Checklists . . . . .	22

# 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	

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



# Case Narrative

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 4.0° 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 Results

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

**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
<i>n</i> -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
<b>Chloride</b>	<b>310</b>		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
<b>Sulfate</b>	<b>340</b>		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
<b>Potassium</b>	<b>11</b>		0.50	mg/L		12/18/20 08:25	12/18/20 17:03	1
<b>Sodium</b>	<b>350</b>		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
<b>Total Dissolved Solids</b>	<b>1300</b>		10	mg/L			12/15/20 10:30	1

**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

**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
<i>n</i> -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
<b>Chloride</b>	<b>310</b>		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
<b>Sulfate</b>	<b>240</b>		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
<b>Potassium</b>	<b>5.5</b>		0.50	mg/L		12/18/20 08:25	12/18/20 17:13	1
<b>Sodium</b>	<b>320</b>		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
<b>Total Dissolved Solids</b>	<b>1100</b>		10	mg/L			12/15/20 10:30	1

# Client Sample Results

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

Job ID: 440-275936-1

**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

### 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
<i>n</i> -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
<b>Chloride</b>	<b>230</b>		25	mg/L			12/10/20 22:38	50
Orthophosphate as PO4	ND	H	0.50	mg/L			12/10/20 22:11	1
<b>Sulfate</b>	<b>220</b>		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
<b>Potassium</b>	<b>5.2</b>		0.50	mg/L		12/18/20 08:25	12/18/20 17:16	1
<b>Sodium</b>	<b>270</b>		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
<b>Total Dissolved Solids</b>	<b>960</b>		10	mg/L			12/15/20 10:30	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

### 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
<i>n</i> -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
<b>Chloride</b>	<b>200</b>		25	mg/L			12/10/20 22:55	50
Orthophosphate as PO4	ND	H	0.50	mg/L			12/11/20 00:30	1
<b>Sulfate</b>	<b>200</b>		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
<b>Potassium</b>	<b>5.0</b>		0.50	mg/L		12/18/20 08:25	12/18/20 17:18	1
<b>Sodium</b>	<b>230</b>		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
<b>Total Dissolved Solids</b>	<b>850</b>		10	mg/L			12/15/20 10:30	1

# Client Sample Results

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

Job ID: 440-275936-1

**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

**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
<i>n</i> -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
<b>Chloride</b>	<b>300</b>		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
<b>Sulfate</b>	<b>340</b>		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
<b>Potassium</b>	<b>11</b>		0.50	mg/L		12/18/20 08:25	12/18/20 17:21	1
<b>Sodium</b>	<b>340</b>		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
<b>Total Dissolved Solids</b>	<b>1300</b>		10	mg/L			12/15/20 10:30	1

**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

**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
<i>n</i> -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

# QC Sample Results

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

Job ID: 440-275936-1

## 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	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
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	MB	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -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	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
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	LCS	Limits				
<i>n</i> -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	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
		Result	Qualifier						
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	LCSD	Limits						
<i>n</i> -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	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
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	MB	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -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	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
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

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# QC Sample Results

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

Job ID: 440-275936-1

## 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

# QC Sample Results

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

Job ID: 440-275936-1

## 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

# QC Sample Results

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

Job ID: 440-275936-1

## 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

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# QC Sample Results

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

Job ID: 440-275936-1

## 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	

# QC Association Summary

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

Job ID: 440-275936-1

## 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

Eurofins Calscience Irvine

# QC Association Summary

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	

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

# Definitions/Glossary

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

Job ID: 440-275936-1

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



# Accreditation/Certification Summary

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

Job ID: 440-275936-1

## Laboratory: Eurofins Calscience Irvine

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

Authority	Program	Identification Number	Expiration Date
California	State	2706	06-30-21

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



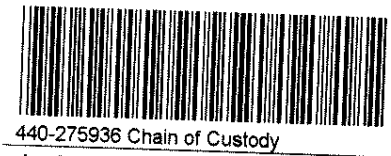
Environment Testing  
TestAmerica

Address: \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other:

TAL-8210

<b>Client Contact</b> Company Name: <u>Nextera-Kramer Junction</u> Address: <u>41100 Hwy 395</u> City/State/Zip: <u>Baron, CA 93516</u> Phone: <u>(260) 762-5562</u> Fax: _____ Project Name: <u>Nextera-Kramer Junction</u> Site: _____ P O # _____		<b>Project Manager:</b> <u>Glen Dwy</u> <b>Tel/Email:</b> _____ <b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Site Contact:</b> _____ <b>Lab Contact:</b> _____ <b>Date:</b> _____ <b>Carrier:</b> _____ <b>COC No:</b> _____ of _____ COCs	
<b>Sample Identification</b>		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>Chloride 300</u> <u>Sulfate 600B</u> <u>Sulfate 300</u> <u>IPDS</u> <u>Biphenyl Oxide</u> <u>Potassium 600B</u> <u>Phosphite 300</u> <u>8015 Mod for Thermo</u>		<b>Sampler:</b> _____ <b>For Lab Use Only:</b> Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____ Sample Specific Notes: <u>JLE 12/10/20</u>	
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	X Soil 1 X X X X X X X
MW-1-12-8-20	12-8-20 1150	G	GW	3	
MW-2- "	1340			3	
MW-3- "	1600			3	
MW-4- "	1650			3	
LF06- "	1045		Soil	1	
Dup - "	-		GW	3	



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.: TR-93

Relinquished by: <u>[Signature]</u>	Company: <u>Nextera</u>	Date/Time: <u>12-10-20</u>	Received by: <u>[Signature]</u>	Company: _____	Date/Time: _____
Relinquished by: _____	Company: _____	Date/Time: _____	Received by: _____	Company: _____	Date/Time: _____
Relinquished by: _____	Company: _____	Date/Time: _____	Received in Laboratory by: <u>[Signature]</u>	Company: <u>FLIR</u>	Date/Time: <u>12/10/20 1456</u>

## 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 <math>\leq</math> 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	