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Document Title:	SEGS Kramer Junction 2021 2nd Semiannual Bioremediation Report				
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Organization:	NextEra Energy				
Submitter Role:	Applicant				
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Docketed Date:	1/18/2022				



# 2021 SECOND SEMIANNUAL BIOREMEDIATION MONITORING REPORT SEGS III – VII KRAMER JUNCTION Board Order No. 6-95-102

January 11, 2022

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

#### 2021 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

Min Brust

January 11, 2022

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#### 1.0 INTRODUCTION

Northstar Environmental Remediation (Northstar) of Lake Forest, California has prepared this 2021 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:**

Ms. Maria Lopez Senior PGD Environmental Specialist NextEra Energy Operating Services, LLC (760) 921-1401

#### **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

During the 2021 calendar year, only one spill over 25 gallons occurred. On August 12, a spill of approximately 35 gallons occurred near the 42G block of SEGS Unit III during demolition activities. All activities were ceased and the contaminated soil was excavated by the contractor, contained, and transported offsite for disposal. On August 31, Northstar collected confirmation soil samples from the north and south ends of the spill area, as well as the adjacent soil slope. The following summarizes the analytical results of these samples:

SEGS III 42G-South:

■ 1,1'-Biphenyl: 3,400 mg/kg

■ 1,1'Oxybisbenzene: 9,100 mg/kg

• SEGS III 42G-North:

■ 1,1'-Biphenyl: 3,600 mg/kg

1,1'Oxybisbenzene: 10,000 mg/kg

• SEGS III Slope:

■ 1,1'-Biphenyl: 34 mg/kg

1,1'Oxybisbenzene: 89 mg/kg

Based on these results, additional soil was excavated and transported offsite for disposal. On October 17, Northstar collected a confirmation soil sample from the center of the excavation, with the following results:

• SEGS III Center Section-10-17-21:

■ 1,1'-Biphenyl: 7.7 mg/kg

1,1'Oxybisbenzene: 23 mg/kg

No further excavation occurred following these favorable results. Copies of the laboratory reports are included in **Appendix A**.

#### 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 the 2021 calendar year. A summary of all analytical data is included in **Table 1**.

- The Bioremediation Unit stockpile was subdivided into western, central, and eastern thirds and sampled at a depth of one foot and at the bottom on February 18, 2021. Based on analytical results, the western and central subdivisions were transferred to the Landfarm Unit for natural attenuation.
- A composite sample of the entire Landfarm Unit stockpile was collected on February 18, 2021.
   Based on analytical results, all soil in the Landfarm Unit was released for re-use within the facility.
- The Bioremediation Unit stockpile was subdivided into northeast, northwest, southeast, and southwest sections and sampled at a depth of one foot on July 8, 2021. Based on analytical results, all soil from the northeast, northwest, and southeast subdivisions was transferred to the Landfarm Unit for natural attenuation.
- Two samples were collected from the remaining southwestern stockpile of the Bioremediation Unit on August 31, 2021. Based on analytical results, this section of the stockpile was transferred to the Landfarm Unit.
- The annual sample from the Landfarm Unit was collected from a depth of 6 feet within the stockpile on December 4, 2021. Based on analytical results, this soil was released for re-use within the facility.
- 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 Irvine, a state- and federally-accredited laboratory located in Irvine, California (now located in Tustin, California as of late December). 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 reports are then submitted directly to NextEra and Northstar personnel and are presented in **Appendix A** and summarized in **Table 1**. Please note that the additional samples included in the report (beginning with 'EP' designation) are unrelated to the Bioremediation or Landfarm Units.

Bioremediation Unit stockpile samples were collected on February 18, 2021 from a depth of 1 foot and from the bottom of the western, central, and eastern subdivision. 1,1'-Biphenyl was only detected at a concentration of 5.4 mg/kg in the bottom sample of the eastern subdivision. 1,1'Oxybisbenzene was detected at a concentration of 11 mg/kg in the bottom sample of the western subdivision, and at a concentration of 2,200 mg/kg in the bottom sample of the eastern subdivision. Based on these results, the soil from the western and central subdivisions were transferred to the Landfarm Unit for further remediation by natural attenuation.

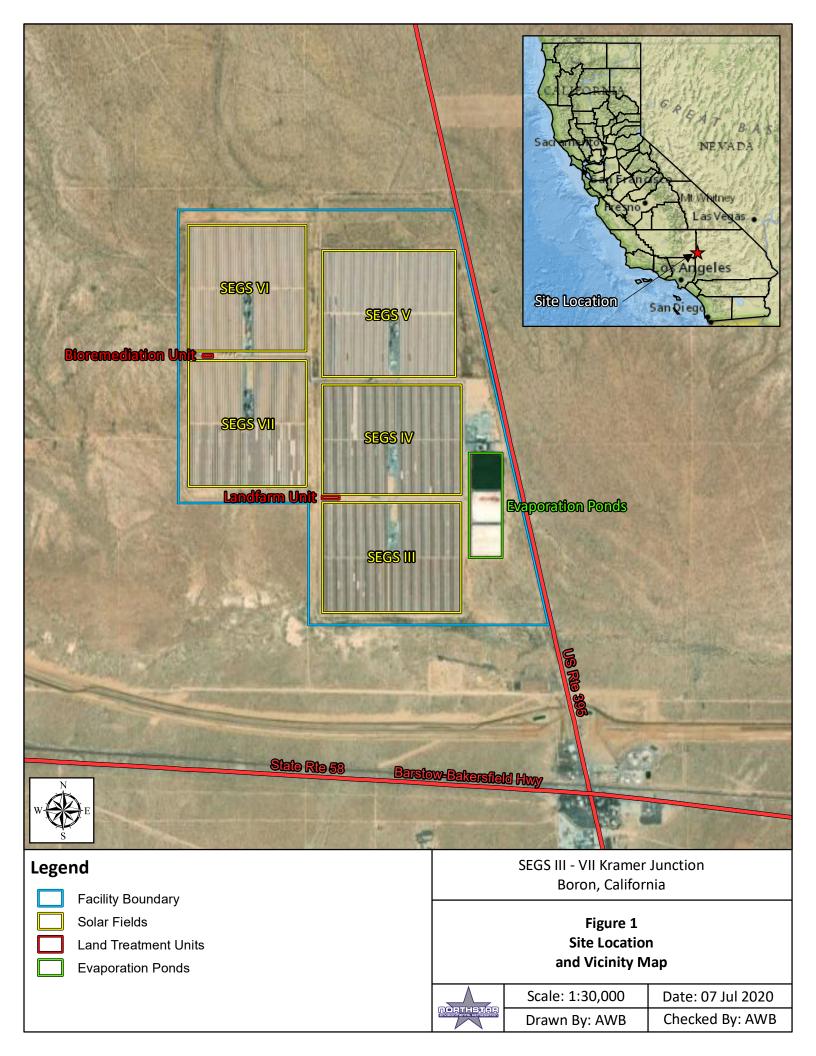
A composite sample was collected from the entire Landfarm Unit stockpile on February 18, 2021. Both 1,1'-Biphenyl and 1,1'-Oxybisbenzene were non-detect in this sample. Based on these results, the stockpile was released for re-use within the facility. This soil was segregated prior to the addition of the soil from the Bioremediation Unit.

Bioremediation Unit stockpile samples were collected on July 8, 2021 from a depth of 1 foot in the northeast, northwest, southeast, and southwest subdivisions. 1,1'-Biphenyl was detected at a maximum concentration of 77 mg/kg in the southwest subdivision. 1,1'Oxybisbenzene was detected at a maximum concentration of 850 mg/kg in the southwest subdivision. Based on these results, the soil from the northeast, northwest, and southeast subdivisions were transferred to the Landfarm Unit for further remediation by natural attenuation, while soil in the southwest subdivision (while meeting the transfer criteria already) was kept in the Bioremediation Unit for further treatment.

Two confirmation samples were collected from the southwest stockpile of the Bioremediation Unit on August 31, 2021. 1,1'-Biphenyl was detected at a maximum concentration of 11 mg/kg and 1,1'Oxybisbenzene was detected at a maximum concentration of 70 mg/kg. Based on these results, this stockpile was transferred to the Landfarm Unit for further remediation by natural attenuation.

The annual Landfarm Unit sample was collected from a depth of 6 feet within the stockpile on December 4, 2021. Both 1,1'-Biphenyl and 1,1'Oxybisbenzene were non-detect for HTF. Based on these results, this soil was released for re-use within the facility.

# **FIGURES**



Bioremediation Unit Solar Field				Figure 2 Bioremediation Unit Layout Schematic			
egend					SEGS	III - VII Krame Boron, Califo	
		1	1		1	1	
		2	2		2	2	
	/	3	3		3	3	
		4	4		4	4	
		5	5		5	5	
	<b>Z</b>	6	6		6	6	w //
	North Bloremediction Unit (Treatment Side)	7	7	8	7	7	South Bioremediation Unit (Soil Storage Side)
SEES W	h Bioremediction (Treatment Side)	8	8	Concrete Divider	8	8	th Bioremeditation (Soil Storage Side) Saasviii
	अवीह्यपैंट क्रि अविह	1	1	Divide	1	1	selfertic rige stid
	on Unite	2	2	J <sub>R</sub>	2	2	an Unit
		3	3		3	3	
		4	4		4	4	
	7	5	5		5	5	
	7	6	6		6	6	
	//	7	7		7	7	
		8	8		8	8	

Drawn By: AWB

Checked By: AWB

# **TABLE**

Table 1
Summary of Analytical Results

			Ana	alytical Results
			1,1'-Biphenyl	1,1'-Oxybisbenzene
Sample ID	Sample Type	Sample Date	(mg/kg)	(mg/kg)
BR West@1'	Bioremediation Soil	18-Feb-21	ND<5.1	ND<5.1
BR West@Bottom	Bioremediation Soil	18-Feb-21	ND<5.0	11
BR Center@1'	Bioremediation Soil	18-Feb-21	ND<4.9	ND<4.9
BR Center@Bottom	Bioremediation Soil	18-Feb-21	ND<4.9	ND<4.9
BR East@1'	Bioremediation Soil	18-Feb-21	ND<5.0	ND<5.0
BR East@Bottom	Bioremediation Soil	18-Feb-21	5.4	2,200
LF Composite	Landfarm Soil	18-Feb-21	ND<5.0	ND<5.0
BR Northwest	Bioremediation Soil	8-Jul-21	22	82
BR Southeast	Bioremediation Soil	8-Jul-21	4.9	69
BR Northeast	Bioremediation Soil	8-Jul-21	ND<5.1	ND<5.1
BR Southwest	Bioremediation Soil	8-Jul-21	77	850
BR Southwest #1	Bioremediation Soil	31-Aug-21	11	70
BR Southwest #2	Bioremediation Soil	31-Aug-21	7.5	56
LF@6'-12-4-21	Landfarm Soil	4-Dec-21	ND<4.8	ND<4.8

#### 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** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817

Tel: (949)261-1022

Laboratory Job ID: 440-279274-1

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: 3/3/2021 4:59:28 PM

Sheri Fama, Project Manager I

(949)260-3274

Sheri.Fama@Eurofinset.com

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

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

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

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# **Sample Summary**

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

Job ID: 440-279274-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-279274-1	BR West@1'	Solid	02/18/21 08:45	02/18/21 15:40
440-279274-2	BR West@Bottom	Solid	02/18/21 08:55	02/18/21 15:40
440-279274-3	BR Center@1'	Solid	02/18/21 09:00	02/18/21 15:40
440-279274-4	BR Center@Bottom	Solid	02/18/21 09:10	02/18/21 15:40
440-279274-5	BR East@1'	Solid	02/18/21 09:20	02/18/21 15:40
440-279274-6	BR East@Bottom	Solid	02/18/21 09:30	02/18/21 15:40
440-279274-7	LF Composite	Solid	02/18/21 10:00	02/18/21 15:40
440-279274-8	EP5-NW	Solid	02/18/21 10:45	02/18/21 15:40
440-279274-9	EP5-NE	Solid	02/18/21 11:00	02/18/21 15:40
440-279274-10	EP5-SE	Solid	02/18/21 11:10	02/18/21 15:40
440-279274-11	EP5-SW	Solid	02/18/21 11:30	02/18/21 15:40
440-279274-12	EP5-Center	Solid	02/18/21 11:40	02/18/21 15:40
440-279274-13	EP4-NW	Solid	02/18/21 11:50	02/18/21 15:40
440-279274-14	EP4-NE	Solid	02/18/21 12:05	02/18/21 15:40
440-279274-15	EP4-SE	Solid	02/18/21 12:10	02/18/21 15:40
440-279274-16	EP4-SW	Solid	02/18/21 12:20	02/18/21 15:40
440-279274-17	EP4-Center	Solid	02/18/21 12:30	02/18/21 15:40
440-279274-18	EP3-NW	Solid	02/18/21 12:40	02/18/21 15:40
440-279274-19	EP3-NE	Solid	02/18/21 12:50	02/18/21 15:40
440-279274-20	EP3-SE	Solid	02/18/21 13:00	02/18/21 15:40
440-279274-21	EP3-SW	Solid	02/18/21 13:05	02/18/21 15:40
440-279274-22	EP3-Center	Solid	02/18/21 13:15	02/18/21 15:40

#### Case Narrative

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

Job ID: 440-279274-1

Job ID: 440-279274-1

**Laboratory: Eurofins Calscience Irvine** 

Narrative

Job Narrative 440-279274-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 2/18/2021 3:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.8° C.

#### GC Semi VOA

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

#### Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for Barium and Antimony were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The following sample was diluted due to the nature of the sample matrix: EP5-Center (440-279274-12). Elevated reporting limits (RLs) are provided.

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: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera - Kramer Junction

Client Sample ID: BR West@1'

Date Collected: 02/18/21 08:45 Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-1

**Matrix: Solid** 

Job ID: 440-279274-1

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

	- 3 3 ( - / (-	,					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND ND	5.1	mg/Kg		02/27/21 16:20	03/02/21 18:00	1
1,1'-Biphenyl	ND	5.1	mg/Kg		02/27/21 16:20	03/02/21 18:00	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113	61 - 145			02/27/21 16:20	03/02/21 18:00	1

Client Sample ID: BR West@Bottom

Date Collected: 02/18/21 08:55 Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-2

**Matrix: Solid** 

Method: 8015B - Diesel Range Organics (DRO) (GC) Result Qualifier RL Unit Prepared Analyzed 5.0 Benzene, 1,1'-oxybis-11 mg/Kg 02/27/21 16:20 03/02/21 18:27 1,1'-Biphenyl ND 5.0 02/27/21 16:20 03/02/21 18:27 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 116 61 - 145 02/27/21 16:20 03/02/21 18:27

Client Sample ID: BR Center@1'

Date Collected: 02/18/21 09:00

Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-3

**Matrix: Solid** 

Method: 8015B - Diesel	Range Organics (DRO) (GO	<b>(</b> )					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND ND	4.9	mg/Kg		02/27/21 16:20	03/02/21 18:53	1
1,1'-Biphenyl	ND	4.9	mg/Kg		02/27/21 16:20	03/02/21 18:53	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116	61 - 145			02/27/21 16:20	03/02/21 18:53	1

Client Sample ID: BR Center@Bottom

Benzene, 1,1'-oxybis-

Date Collected: 02/18/21 09:10							ix: Solid
Date Received: 02/18/21	15:40						
Method: 8015B - Diese	el Range Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

4.9

mg/Kg

1,1'-Biphenyl	ND	4.9	mg/Kg 02	!/27/21 16:20	03/02/21 19:19	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	128	61 - 145	$\overline{02}$	2/27/21 16:20	03/02/21 19:19	1

Client Sample ID: BR East@1'

Date Collected: 02/18/21 09:20

Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-5

Lab Sample ID: 440-279274-4

02/27/21 16:20 03/02/21 19:19

**Matrix: Solid** 

ND

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		5.0	mg/Kg		02/27/21 16:20	03/02/21 19:46	1
1,1'-Biphenyl	ND		5.0	mg/Kg		02/27/21 16:20	03/02/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117		61 - 145			02/27/21 16:20	03/02/21 19:46	1

**Eurofins Calscience Irvine** 

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Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-279274-1

Project/Site: Nextera - Kramer Junction

Client Sample ID: BR East@Bottom

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

Date Collected: 02/18/21 09:30 Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-6

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.4		4.9	mg/Kg		02/27/21 16:20	03/02/21 20:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)			61 - 145			02/27/21 16:20	03/02/21 20:12	

Benzene, 1,1'-oxybis-2200 49 mg/Kg 02/27/21 16:20 03/03/21 11:46 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 133 61 - 145 02/27/21 16:20 03/03/21 11:46

**Client Sample ID: LF Composite** 

Lab Sample ID: 440-279274-7 Date Collected: 02/18/21 10:00 **Matrix: Solid** Date Received: 02/18/21 15:40

Method: 8015B - Diesel	Range Organics (DRO) (GC	)				
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND ND	5.0	mg/Kg	02/27/21 16:20	03/02/21 20:38	1
1,1'-Biphenyl	ND	5.0	mg/Kg	02/27/21 16:20	03/02/21 20:38	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119	61 - 145		02/27/21 16:20	03/02/21 20:38	1

**Client Sample ID: EP5-NW** Lab Sample ID: 440-279274-8 Date Collected: 02/18/21 10:45 **Matrix: Solid** 

Date Received: 02/18/21 15:40

Mercury

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	10	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Arsenic	8.7	3.0	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Barium	88	1.5	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Beryllium	ND	0.50	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Cadmium	ND	0.50	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Chromium	12	1.0	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Cobalt	ND	1.0	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Copper	8.6	2.0	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
ead	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Molybdenum	83	2.0	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Nickel	2.6	2.0	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Selenium	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Silver	ND	1.5	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Thallium Thallium	ND	10	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
/anadium	21	1.0	mg/Kg		02/25/21 08:59	02/26/21 11:59	5
Zinc	340	5.0	mg/Kg		02/25/21 08:59	02/26/21 11:59	5

0.020

0.038

**Eurofins Calscience Irvine** 

3/3/2021

03/01/21 10:10 03/01/21 14:34

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mg/Kg

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

**Client Sample ID: EP5-NE** 

Lab Sample ID: 440-279274-9

03/01/21 10:10 03/01/21 14:41

**Matrix: Solid** 

Date Collected: 02/18/21 11:00 Date Received: 02/18/21 15:40

Analyte	Result Quali	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND ND	10	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Arsenic	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Barium	53	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Beryllium	ND	0.50	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Cadmium	ND	0.50	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Chromium	3.3	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Cobalt	ND	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Copper	3.6	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Lead	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Molybdenum	46	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Nickel	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Selenium	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Silver	ND	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Thallium	ND	10	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Vanadium	6.8	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Zinc	160	5.0	mg/Kg		02/25/21 08:59	02/26/21 12:01	5
Method: 7471A - Mercu	ry (CVAA)						
Analyte	Result Quali	fier RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: EP5-SE Lab Sample ID: 440-279274-10 Date Collected: 02/18/21 11:10

0.020

ND

**Matrix: Solid** 

mg/Kg

Date Received: 02/18/21 15:40

Mercury

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8	mg/Kg		02/25/21 08:59	02/26/21 12:04	- 5
Arsenic	2.9		2.9	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Barium	34		1.5	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Beryllium	ND		0.49	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Cadmium	ND		0.49	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Chromium	1.5		0.98	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Cobalt	ND		0.98	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Copper	5.6		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Lead	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Molybdenum	140		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Nickel	3.5		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Selenium	ND		2.9	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Silver	ND		1.5	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Thallium	ND		9.8	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Vanadium	5.6		0.98	mg/Kg		02/25/21 08:59	02/26/21 12:04	5
Zinc	270		4.9	mg/Kg		02/25/21 08:59	02/26/21 12:04	

Method: 7471A - Mercury (CVAA) Result Qualifier Unit Analyte RL Prepared Analyzed Dil Fac 03/01/21 10:10 03/01/21 14:43 Mercury ND 0.020 mg/Kg

**Eurofins Calscience Irvine** 

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

**Client Sample ID: EP5-SW** 

ND

Lab Sample ID: 440-279274-11 Date Collected: 02/18/21 11:30 **Matrix: Solid** 

Date Received: 02/18/21 15:40

Method: 6010B - Metals (IC	CP)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND ND	10	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Arsenic	11	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Barium	83	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Beryllium	ND	0.51	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Cadmium	ND	0.51	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Chromium	6.6	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Cobalt	ND	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Copper	24	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Lead	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Molybdenum	98	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Nickel	9.1	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Selenium	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Silver	ND	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Thallium	ND	10	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Vanadium	22	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Zinc	1400	5.1	mg/Kg		02/25/21 08:59	02/26/21 12:06	5
Method: 7471A - Mercury	(CVAA)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036	0.020	mg/Kg		03/01/21 10:10	03/01/21 14:46	1

0.020 **Client Sample ID: EP5-Center** Lab Sample ID: 440-279274-12

mg/Kg

Date Collected: 02/18/21 11:40

Mercury

Date Received: 02/18/21 15:40

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND ND	20	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Arsenic	6.9	6.1	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Barium	77	3.0	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Beryllium	ND	1.0	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Cadmium	ND	1.0	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Chromium	5.5	2.0	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Cobalt	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Copper	11	4.1	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Lead	ND	4.1	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Molybdenum	130	4.1	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Nickel	6.0	4.1	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Selenium	ND	6.1	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Silver	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Thallium	ND	20	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Vanadium	18	2.0	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Zinc	590	10	mg/Kg		02/25/21 08:59	02/26/21 17:15	10
Method: 7471A - Mercury	(CVAA)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

**Eurofins Calscience Irvine** 

03/01/21 10:10 03/01/21 14:48

0.020

**Matrix: Solid** 

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

**Client Sample ID: EP4-NW** 

Lab Sample ID: 440-279274-13

**Matrix: Solid** 

Date Collected: 02/18/21 11:50 Date Received: 02/18/21 15:40

Method: 6010B - Metals (ICF	<b>P</b> )						
Analyte	Result Quali	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND ND	9.9	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Arsenic	<b>5</b> .8	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Barium	50	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Beryllium	ND	0.49	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Cadmium	ND	0.49	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Chromium	3.8	0.99	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Cobalt	ND	0.99	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Copper	10	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Lead	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Molybdenum	74	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Nickel	3.2	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Selenium	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Silver	ND	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Thallium	ND	9.9	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Vanadium	9.7	0.99	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Zinc	480	4.9	mg/Kg		02/25/21 08:59	02/26/21 12:11	5
Method: 7471A - Mercury (C	SVAA)						
Analyte	, Result Quali	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND ND	0.020	mg/Kg		03/01/21 10:10	03/01/21 14:50	1

**Client Sample ID: EP4-NE** Lab Sample ID: 440-279274-14

Date Collected: 02/18/21 12:05 **Matrix: Solid** Date Received: 02/18/21 15:40

Analyte	Result Qualifier	r RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND ND	10	mg/Kg		02/25/21 08:59	02/26/21 12:13	- 5
Arsenic	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Barium	18	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Beryllium	ND	0.51	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Cadmium	ND	0.51	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Chromium	1.5	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Cobalt	ND	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Copper	4.2	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Lead	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Molybdenum	27	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Nickel	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Selenium	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Silver	ND	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Thallium	ND	10	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Vanadium	3.8	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:13	5
Zinc	150	5.1	mg/Kg		02/25/21 08:59	02/26/21 12:13	5

Result Qualifier Dil Fac Analyte RL Unit Prepared Analyzed 03/01/21 10:10 03/01/21 14:52 Mercury ND 0.020 mg/Kg

**Eurofins Calscience Irvine** 

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

**Client Sample ID: EP4-SE** 

Lab Sample ID: 440-279274-15

**Matrix: Solid** 

Date Collected: 02/18/21 12:10 Date Received: 02/18/21 15:40

Method: 6010B - Metals (	(ICP)							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Arsenic	ND		3.0	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Barium	20		1.5	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Beryllium	ND		0.51	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Cadmium	ND		0.51	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Chromium	1.4		1.0	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Cobalt	ND		1.0	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Copper	3.0		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Lead	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Molybdenum	22		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Nickel	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Selenium	ND		3.0	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Silver	ND		1.5	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Thallium	ND		10	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Vanadium	3.4		1.0	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
Zinc	120		5.1	mg/Kg		02/25/21 08:59	02/26/21 12:16	5
- Method: 7471A - Mercury	y (CVAA)							
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	mg/Kg		03/01/21 10:10	03/01/21 14:55	1

**Client Sample ID: EP4-SW** Lab Sample ID: 440-279274-16 Date Collected: 02/18/21 12:20

**Matrix: Solid** 

Date Received: 02/18/21 15:40

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND ND	9.9	mg/Kg		02/25/21 08:59	02/26/21 12:31	- 5
Arsenic	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Barium	34	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Beryllium	ND	0.49	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Cadmium	ND	0.49	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Chromium	2.1	0.99	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Cobalt	ND	0.99	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Copper	4.9	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Lead	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Molybdenum	15	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Nickel	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Selenium	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Silver	ND	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Thallium	ND	9.9	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Vanadium	5.6	0.99	mg/Kg		02/25/21 08:59	02/26/21 12:31	5
Zinc	200	4.9	mg/Kg		02/25/21 08:59	02/26/21 12:31	5

Result Qualifier Unit Dil Fac Analyte RL Prepared Analyzed 03/01/21 10:10 03/01/21 14:57 Mercury ND 0.020 mg/Kg

**Eurofins Calscience Irvine** 

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

Client Sample ID: EP4-Center

Lab Sample ID: 440-279274-17

03/01/21 10:10 03/01/21 14:59

Matrix: Solid

Date Collected: 02/18/21 12:30 Date Received: 02/18/21 15:40

Analyte	Result Q	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND ND	10	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Arsenic	3.2	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Barium	32	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Beryllium	ND	0.51	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Cadmium	ND	0.51	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Chromium	1.5	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Cobalt	ND	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Copper	7.3	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Lead	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Molybdenum	43	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Nickel	2.4	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Selenium	ND	3.0	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Silver	ND	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Thallium	ND	10	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Vanadium	5.7	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Zinc	260	5.1	mg/Kg		02/25/21 08:59	02/26/21 12:26	5
Method: 7471A - Mercu	iry (CVAA)						
Analyte	Result Q	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: EP3-NW Lab Sample ID: 440-279274-18

0.020

ND

Result Qualifier

0.023

Date Collected: 02/18/21 12:40 Matrix: Solid

mg/Kg

Unit

mg/Kg

Date Received: 02/18/21 15:40

Mercury

Analyte

Mercury

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Arsenic	7.7		3.0	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Barium	63		1.5	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Beryllium	ND		0.50	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Cadmium	ND		0.50	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Chromium	6.1		0.99	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Cobalt	ND		0.99	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Copper	56		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Lead	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Molybdenum	9.5		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Nickel	9.3		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Selenium	ND		3.0	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Silver	ND		1.5	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Thallium	ND		9.9	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Vanadium	14		0.99	mg/Kg		02/25/21 08:59	02/26/21 12:28	5
Zinc	620		5.0	mg/Kg		02/25/21 08:59	02/26/21 12:28	5

**Eurofins Calscience Irvine** 

Analyzed

Prepared

03/01/21 10:10 03/01/21 15:01

RL

0.020

Dil Fac

Client: FPL Energy Solar Partners III-VII, LLC

ND

Project/Site: Nextera - Kramer Junction

Lab Sample ID: 440-279274-19

**Matrix: Solid** 

03/01/21 10:10 03/01/21 15:08

Job ID: 440-279274-1

Date Collected: 02/18/21 12:50 Date Received: 02/18/21 15:40

**Client Sample ID: EP3-NE** 

Analyte	Result C	Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	10	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Arsenic	ND	3.1	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Barium	ND	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Beryllium	ND	0.51	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Cadmium	ND	0.51	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Chromium	ND	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Cobalt	ND	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Copper	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Lead	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Molybdenum	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Nickel	ND	2.0	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Selenium	ND	3.1	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Silver	ND	1.5	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Thallium	ND	10	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Vanadium	ND	1.0	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Zinc	ND	5.1	mg/Kg		02/25/21 08:59	02/26/21 12:18	5
Method: 7471A - Mercu	ıry (CVAA)						
Analyte	Result 0	Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: EP3-SE Lab Sample ID: 440-279274-20

0.020

mg/Kg

Date Collected: 02/18/21 13:00 **Matrix: Solid** Date Received: 02/18/21 15:40

Method: 6010B - Metals (ICP)

Mercury

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Arsenic	ND		3.0	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Barium	ND		1.5	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Beryllium	ND		0.50	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Cadmium	ND		0.50	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Chromium	ND		0.99	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Cobalt	ND		0.99	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Copper	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Lead	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Molybdenum	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Nickel	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Selenium	ND		3.0	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Silver	ND		1.5	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Thallium	ND		9.9	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Vanadium	ND		0.99	mg/Kg		02/25/21 08:59	02/26/21 12:33	5
Zinc	ND		5.0	mg/Kg		02/25/21 08:59	02/26/21 12:33	5

Method: 7471A - Mercury (CVA)	<b>A</b> )						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	0.020	mg/Kg	_	03/01/21 10:10	03/01/21 15:10	1

**Eurofins Calscience Irvine** 

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

Client Sample ID: EP3-SW

Lab Sample ID: 440-279274-21

**Matrix: Solid** 

Date Collected: 02/18/21 13:05 Date Received: 02/18/21 15:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Arsenic	6.4		3.0	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Barium	55		1.5	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Beryllium	ND		0.50	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Cadmium	ND		0.50	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Chromium	5.2		0.99	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Cobalt	ND		0.99	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Copper	50		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Lead	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Molybdenum	60		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Nickel	8.3		2.0	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Selenium	ND		3.0	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Silver	ND		1.5	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Thallium	ND		9.9	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Vanadium	11		0.99	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Zinc	530		5.0	mg/Kg		02/25/21 08:59	02/26/21 12:36	5
Method: 7471A - Mercu	ry (CVAA)							
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.020	mg/Kg		03/01/21 10:10	03/01/21 15:13	1

Client Sample ID: EP3-Center Lab Sample ID: 440-279274-22 Date Collected: 02/18/21 13:15

**Matrix: Solid** 

Date Received: 02/18/21 15:40 Method: 6010B - Metals (ICP) **Analyte** Result Qualifier RL Unit Prepared Analyzed Dil Fac Antimony ND 10 mg/Kg 02/25/21 08:59 02/26/21 12:38 5 ND 3.0 5 Arsenic mg/Kg 02/25/21 08:59 02/26/21 12:38 02/26/21 12:38 5 28 1.5 mg/Kg 02/25/21 08:59 **Barium** 5 Beryllium ND 0.50 mg/Kg 02/25/21 08:59 02/26/21 12:38 Cadmium ND 0.50 mg/Kg 02/25/21 08:59 02/26/21 12:38 5 02/25/21 08:59 02/26/21 12:38 5 **Chromium** 1.4 1.0 mg/Kg mg/Kg Cobalt ND 1.0 02/25/21 08:59 02/26/21 12:38 5 2.0 02/25/21 08:59 02/26/21 12:38 5 Copper mg/Kg 4.0 Lead ND 2.0 mg/Kg 02/25/21 08:59 02/26/21 12:38 5 02/25/21 08:59 02/26/21 12:38 2.0 5 2.0 mg/Kg Molybdenum Nickel ND 2.0 mg/Kg 02/25/21 08:59 02/26/21 12:38 5 Selenium ND 3.0 mg/Kg 02/25/21 08:59 02/26/21 12:38 5 Silver ND 02/25/21 08:59 02/26/21 12:38 5 1.5 mg/Kg Thallium ND 5 10 mg/Kg 02/25/21 08:59 02/26/21 12:38 **Vanadium** 02/25/21 08:59 02/26/21 12:38 5 3.7 1.0 mg/Kg **Zinc** 02/25/21 08:59 02/26/21 12:38 79 5.0 mg/Kg

Method: 7471A - Mercury (CVAA	)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND —	0.020	mg/Kg		03/01/21 10:10	03/01/21 15:15	1

**Eurofins Calscience Irvine** 

# **Method Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera - Kramer Junction

Protocol	Laboratory
SW846	ECL 1
SW846	TAL IRV

Job ID: 440-279274-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
3050B	Preparation, Metals	SW846	TAL IRV
3550C	Ultrasonic Extraction	SW846	ECL 1
7471A	Preparation, Mercury	SW846	TAL IRV

#### **Protocol References:**

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

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Project/Site: Nextera - Kramer Junction

Client Sample ID: BR West@1'

Date Collected: 02/18/21 08:45 Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.88 g	10 mL	132525	02/27/21 16:20	EM5C	ECL 1
Total/NA	Analysis	8015B		1			133041	03/02/21 18:00	19H5	ECL 1

Client Sample ID: BR West@Bottom

Date Collected: 02/18/21 08:55 Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-2

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	3550C			10.00 g	10 mL	132525	02/27/21 16:20	EM5C	ECL 1
Total/NA	Analysis	8015B		1			133041	03/02/21 18:27	19H5	ECL 1

Client Sample ID: BR Center@1'

Date Collected: 02/18/21 09:00

Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-3

**Matrix: Solid** 

	_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3550C	· <u></u>		10.13 g	10 mL	132525	02/27/21 16:20	EM5C	ECL 1
l	Total/NA	Analysis	8015B		1			133041	03/02/21 18:53	19H5	ECL 1

Client Sample ID: BR Center@Bottom

Date Collected: 02/18/21 09:10

Date Received: 02/18/21 15:40

.ab	Samp	le ID:	440-2	79274-4	

Lab Sample ID: 440-279274-6

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.19 g	10 mL	132525	02/27/21 16:20	EM5C	ECL 1
Total/NA	Analysis	8015B		1			133041	03/02/21 19:19	I9H5	ECL 1

Date Received: 02/18/21 15:40

Total/NA	Analysis 8015B	1	133041	03/02/21 19:19 I9H5	ECL 1
<b>Client Sam</b>	nple ID: BR East@1'		La	b Sample ID: 440	-279274-5
Date Collect	ed: 02/18/21 09:20			N	latrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.09 g	10 mL	132525	02/27/21 16:20	EM5C	ECL 1
Total/NA	Analysis	8015B		1			133041	03/02/21 19:46	19H5	ECL 1

Client Sample ID: BR East@Bottom

Date Collected: 02/18/21 09:30

Date Received: 02/18/21 15:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.17 g	10 mL	132525	02/27/21 16:20	EM5C	ECL 1
Total/NA	Analysis	8015B		1			133041	03/02/21 20:12	19H5	ECL 1
Total/NA	Prep	3550C	DL		10.17 g	10 mL	132525	02/27/21 16:20	EM5C	ECL 1
Total/NA	Analysis	8015B	DL	10			133041	03/03/21 11:46	19H5	ECL 1

**Eurofins Calscience Irvine** 

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Job ID: 440-279274-1

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

Client Sample ID: LF Composite

Date Collected: 02/18/21 10:00 Date Received: 02/18/21 15:40 Lab Sample ID: 440-279274-7

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.02 g	10 mL	132525	02/27/21 16:20	EM5C	ECL 1
Total/NA	Analysis	8015B		1			133041	03/02/21 20:38	I9H5	ECL 1

**Client Sample ID: EP5-NW** 

Date Collected: 02/18/21 10:45 Date Received: 02/18/21 15:40 Lab Sample ID: 440-279274-8

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 11:59	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 14:34	MA6V	TAL IRV

**Client Sample ID: EP5-NE** 

Date Collected: 02/18/21 11:00

Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-9

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:01	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 14:41	MA6V	TAL IRV

**Client Sample ID: EP5-SE** 

Date Collected: 02/18/21 11:10

Date Received: 02/18/21 15:40

Lab Sample	ID: 440-279274-10
	Matrix: Solid

Lab Sample ID: 440-279274-11

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.05 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:04	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 14:43	MA6V	TAL IRV

**Client Sample ID: EP5-SW** 

Date Collected: 02/18/21 11:30

Date Received: 02/18/21 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.97 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:06	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 14:46	MA6V	TAL IRV

**Eurofins Calscience Irvine** 

Matrix: Solid

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

**Client Sample ID: EP5-Center** 

Date Collected: 02/18/21 11:40 Date Received: 02/18/21 15:40 Lab Sample ID: 440-279274-12

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.97 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		10			639939	02/26/21 17:15	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 14:48	MA6V	TAL IRV

**Client Sample ID: EP4-NW** 

Date Collected: 02/18/21 11:50 Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-13

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:11	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 14:50	MA6V	TAL IRV

**Client Sample ID: EP4-NE** 

Date Collected: 02/18/21 12:05

Date Received: 02/18/21 15:40

Lab Sample ID: 440-279274-14

Lab Sample ID: 440-279274-15

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.98 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:13	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 14:52	MA6V	TAL IRV

**Client Sample ID: EP4-SE** 

Date Collected: 02/18/21 12:10

Date Received: 02/18/21 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.97 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:16	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NIA	Analysis	7474 6		4			C400E2	02/04/24 44:55	MAGNA	TAL IDV

Date Received: 02/18/21 15:40

Total/NA	Prep	7471A		0.51 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A	1			640053	03/01/21 14:55	MA6V	TAL IRV
Client San	ple ID: EP4	I-SW				Lab	Sample ID	: 440-2	279274-16
<b>Date Collect</b>	ed: 02/18/21 1	2:20						M	latrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:31	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 14:57	MA6V	TAL IRV

**Eurofins Calscience Irvine** 

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

**Client Sample ID: EP4-Center** 

Date Collected: 02/18/21 12:30 Date Received: 02/18/21 15:40 Lab Sample ID: 440-279274-17

Lab Sample ID: 440-279274-19

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.98 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:26	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 14:59	MA6V	TAL IRV

Client Sample ID: EP3-NW Lab Sample ID: 440-279274-18 Date Collected: 02/18/21 12:40

Date Received: 02/18/21 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:28	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 15:01	MA6V	TAL IRV

**Client Sample ID: EP3-NE** 

Date Collected: 02/18/21 12:50

Date Received: 02/18/21 15:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.96 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:18	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 15:08	MA6V	TAL IRV

**Client Sample ID: EP3-SE** Lab Sample ID: 440-279274-20 Date Collected: 02/18/21 13:00 **Matrix: Solid** 

Date Received: 02/18/21 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:33	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 15:10	MA6V	TAL IRV

Client Sample ID: EP3-SW Lab Sample ID: 440-279274-21

Date Collected: 02/18/21 13:05 Date Received: 02/18/21 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:36	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 15:13	MA6V	TAL IRV

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**Matrix: Solid** 

### **Lab Chronicle**

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-279274-1

Project/Site: Nextera - Kramer Junction

Lab Sample ID: 440-279274-22 **Client Sample ID: EP3-Center** 

Date Collected: 02/18/21 13:15 **Matrix: Solid** 

Date Received: 02/18/21 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	639719	02/25/21 08:59	FIQ7	TAL IRV
Total/NA	Analysis	6010B		5			639891	02/26/21 12:38	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	639927	03/01/21 10:10	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			640053	03/01/21 15:15	MA6V	TAL IRV

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera - Kramer Junction

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

Lab Sample ID: MB 570-132525/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

Analysis Batch: 133041

Prep Type: Total/NA

Prep Batch: 132525

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte Benzene, 1,1'-oxybis-ND 5.0 mg/Kg 02/27/21 16:20 03/02/21 15:50 1,1'-Biphenyl ND 5.0 mg/Kg 02/27/21 16:20 03/02/21 15:50

MB MB

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac n-Octacosane (Surr) 95 61 - 145

02/27/21 16:20 03/02/21 15:50

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 570-132525/2-A

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 133041 Prep Batch: 132525** Spike LCS LCS %Rec.

Added Result Qualifier D %Rec Limits **Analyte** Unit 68 - 120 Benzene, 1,1'-oxybis-100 102 mg/Kg 102 mg/Kg 1,1'-Biphenyl 100 85.2 85 57 - 120

LCS LCS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 61 - 145 96

Lab Sample ID: LCSD 570-132525/3-A

**Matrix: Solid** 

**Analysis Batch: 133041** 

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

**Prep Batch: 132525** 

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits **RPD** Analyte Added Unit %Rec Limit 100 99.6 68 - 120 2 Benzene, 1,1'-oxybismg/Kg 100 20 100 83.5 83 57 - 120 1,1'-Biphenyl mg/Kg 20

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 99 61 - 145

Lab Sample ID: 440-279274-1 MS Client Sample ID: BR West@1'

**Matrix: Solid** 

**Analysis Batch: 133041** 

Prep Type: Total/NA

Prep Batch: 132525

MS MS Sample Sample Spike Result Qualifier Analyte Result Qualifier Added Unit %Rec Limits Benzene, 1,1'-oxybis-ND 100 105 mg/Kg 103 68 - 120 1,1'-Biphenyl ND 100 87.4 mg/Kg 87 57 - 120

MS MS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 114 61 - 145

Lab Sample ID: 440-279274-1 MSD Client Sample ID: BR West@1'

**Matrix: Solid** 

**Analysis Batch: 133041** Prep Batch: 132525 MSD MSD Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Analyte D Benzene, 1,1'-oxybis-ND 98.1 99.5 mg/Kg 100 68 - 120 6 20 1,1'-Biphenyl ND 98.1 82.4 mg/Kg

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%Rec.

Prep Type: Total/NA

**RPD** Limit

57 - 120 20

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

Job ID: 440-279274-1

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

Lab Sample ID: 440-279274-1 MSD

**Matrix: Solid** 

Analysis Batch: 133041

MSD MSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 109 61 - 145 Client Sample ID: BR West@1'

Prep Type: Total/NA

**Prep Batch: 132525** 

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-639719/1-A ^5

**Matrix: Solid** 

Analysis Batch: 639891

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

**Prep Batch: 639719** 

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Arsenic	ND		3.0	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Barium	ND		1.5	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Beryllium	ND		0.50	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Cadmium	ND		0.50	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Chromium	ND		1.0	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Cobalt	ND		1.0	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Copper	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Lead	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Molybdenum	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Nickel	ND		2.0	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Selenium	ND		3.0	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Silver	ND		1.5	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Thallium	ND		10	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Vanadium	ND		1.0	mg/Kg		02/25/21 08:59	02/26/21 11:25	5
Zinc	ND		5.0	mg/Kg		02/25/21 08:59	02/26/21 11:25	5

Lab Sample ID: LCS 440-639719/2-A ^5

**Matrix: Solid** 

Analysis Batch: 639891

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 639719

Analysis Batch: 639891							Prep Batch: 639719
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	51.0	59.1		mg/Kg		116	80 - 120
Arsenic	51.0	52.0		mg/Kg		102	80 - 120
Barium	51.0	53.5		mg/Kg		105	80 - 120
Beryllium	51.0	52.9		mg/Kg		104	80 - 120
Cadmium	51.0	52.9		mg/Kg		104	80 - 120
Chromium	51.0	54.3		mg/Kg		106	80 - 120
Cobalt	51.0	53.8		mg/Kg		105	80 - 120
Copper	51.0	54.7		mg/Kg		107	80 - 120
Lead	51.0	53.7		mg/Kg		105	80 - 120
Molybdenum	51.0	56.4		mg/Kg		111	80 - 120
Nickel	51.0	56.0		mg/Kg		110	80 - 120
Selenium	51.0	50.3		mg/Kg		99	80 - 120
Silver	25.5	27.2		mg/Kg		107	80 - 120
Thallium	51.0	44.3		mg/Kg		87	80 - 120
Vanadium	51.0	53.4		mg/Kg		105	80 - 120
Zinc	51.0	54.4		mg/Kg		107	80 - 120

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Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera - Kramer Junction

Job ID: 440-279274-1

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

Lab Sample ID: 440-279352-A-5-B MS ^5

**Matrix: Solid** 

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

Analysis Batch: 639891  Analyte	•	Sample Qualifier	Spike Added		MS Qualifier	Unit	D	%Rec	Prep Batch: 639719 %Rec. Limits										
										Antimony	ND	F1	50.5	26.3	F1	mg/Kg		52	75 - 125
										Arsenic	ND		50.5	50.4		mg/Kg		96	75 - 125
Barium	60	F1 F2	50.5	128	F1	mg/Kg		133	75 - 125										
Beryllium	ND		50.5	50.7		mg/Kg		100	75 - 125										
Cadmium	ND		50.5	49.2		mg/Kg		97	75 - 125										
Chromium	12		50.5	64.8		mg/Kg		105	75 - 125										
Cobalt	4.4		50.5	55.1		mg/Kg		100	75 - 125										
Copper	8.6		50.5	63.6		mg/Kg		109	75 - 125										
Lead	2.7		50.5	53.8		mg/Kg		101	75 - 125										
Molybdenum	ND		50.5	52.6		mg/Kg		104	75 - 125										
Nickel	8.8		50.5	62.4		mg/Kg		106	75 - 125										
Selenium	ND		50.5	46.7		mg/Kg		93	75 - 125										
Silver	ND		25.3	26.8		mg/Kg		106	75 - 125										
Thallium	ND		50.5	44.6		mg/Kg		88	75 - 125										
Vanadium	27		50.5	83.3		mg/Kg		112	75 - 125										
Zinc	28		50.5	80.5		mg/Kg		104	75 - 125										

Lab Sample ID: 440-279352-A-5-C MSD ^5

**Matrix: Solid** 

**Client Sample ID: Matrix Spike Duplicate** 

**Prep Type: Total/NA** 

**Analysis Batch: 639891 Prep Batch: 639719** Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits RPD **Analyte** Unit D %Rec Limit F1 26.5 F1 Antimony ND 49.3 mg/Kg 54 75 - 125 20 mg/Kg Arsenic ND 49.3 50.4 98 75 - 125 0 20 60 F1 F2 49.3 296 75 - 125 20 Barium 206 F1 F2 mg/Kg 47 Beryllium ND 49.3 51.7 104 75 - 125 2 20 mg/Kg ND Cadmium 49.3 49.8 mg/Kg 101 75 - 125 20 Chromium 12 49.3 65.3 mg/Kg 108 75 - 125 20 Cobalt 4.4 49.3 56.2 mg/Kg 105 75 - 125 20 Copper 8.6 49.3 64.4 mg/Kg 113 75 - 125 20 49.3 54.4 Lead 2.7 105 75 - 125 20 mg/Kg Molybdenum ND 49.3 53.8 109 75 - 125 20 mg/Kg Nickel 8.8 49.3 62.9 110 75 - 125 20 mg/Kg Selenium ND 49.3 47.4 mg/Kg 96 75 - 125 20 Silver ND 24.6 26.7 mg/Kg 108 75 - 125 20 Thallium ND 49.3 45.4 mg/Kg 92 75 - 12520 Vanadium 27 49.3 83.8 mg/Kg 116 75 - 12520 Zinc 28 49.3 20 81.0 mg/Kg 108 75 - 125

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-639927/1-A

**Matrix: Solid** 

**Analysis Batch: 640053** 

**Client Sample ID: Method Blank** Prep Type: Total/NA Prep Batch: 639927

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac ND 0.020 03/01/21 10:10 03/01/21 14:13 Mercury mg/Kg

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# **QC Sample Results**

Client: FPL Energy Solar Partners III-VII, LLC

Job ID: 440-279274-1

Project/Site: Nextera - Kramer Junction

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 440-639927/2-A Matrix: Solid				Clier	ıt Saı	mple ID		trol Sample be: Total/NA
Analysis Batch: 640053								tch: 639927
Analysis Batch. 040000	Spike	LCS	LCS				%Rec.	1011. 000027
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	0.392	0.366		mg/Kg		93	80 - 120	

Lab Sample ID: 440-279549- Matrix: Solid	-A-1-E MS						C	lient Sa	mple ID: Matrix Spike Prep Type: Total/NA
Analysis Batch: 640053									<b>Prep Batch: 639927</b>
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Mercury	0.14	F1	0.408	0.418	F1	mg/Kg		69	75 - 125

Lab Sample ID: 440-279549 Matrix: Solid Analysis Batch: 640053	9-A-1-F MS	D				Client S	amp	le ID: N	latrix Spil Prep Ty Prep Ba	pe: Tot	al/NA
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.14	F1	0.392	0.414	F1	mg/Kg		70	75 - 125	1	20

3/3/2021

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

Job ID: 440-279274-1

## **GC Semi VOA**

#### **Prep Batch: 132525**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-279274-1	BR West@1'	Total/NA	Solid	3550C	
440-279274-2	BR West@Bottom	Total/NA	Solid	3550C	
440-279274-3	BR Center@1'	Total/NA	Solid	3550C	
440-279274-4	BR Center@Bottom	Total/NA	Solid	3550C	
440-279274-5	BR East@1'	Total/NA	Solid	3550C	
440-279274-6	BR East@Bottom	Total/NA	Solid	3550C	
440-279274-6 - DL	BR East@Bottom	Total/NA	Solid	3550C	
440-279274-7	LF Composite	Total/NA	Solid	3550C	
MB 570-132525/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-132525/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-132525/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
440-279274-1 MS	BR West@1'	Total/NA	Solid	3550C	
440-279274-1 MSD	BR West@1'	Total/NA	Solid	3550C	

#### Analysis Batch: 133041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-279274-1	BR West@1'	Total/NA	Solid	8015B	132525
440-279274-2	BR West@Bottom	Total/NA	Solid	8015B	132525
440-279274-3	BR Center@1'	Total/NA	Solid	8015B	132525
440-279274-4	BR Center@Bottom	Total/NA	Solid	8015B	132525
440-279274-5	BR East@1'	Total/NA	Solid	8015B	132525
440-279274-6	BR East@Bottom	Total/NA	Solid	8015B	132525
440-279274-6 - DL	BR East@Bottom	Total/NA	Solid	8015B	132525
440-279274-7	LF Composite	Total/NA	Solid	8015B	132525
MB 570-132525/1-A	Method Blank	Total/NA	Solid	8015B	132525
LCS 570-132525/2-A	Lab Control Sample	Total/NA	Solid	8015B	132525
LCSD 570-132525/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	132525
440-279274-1 MS	BR West@1'	Total/NA	Solid	8015B	132525
440-279274-1 MSD	BR West@1'	Total/NA	Solid	8015B	132525

#### **Metals**

#### **Prep Batch: 639719**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
440-279274-8	EP5-NW	Total/NA	Solid	3050B	
440-279274-9	EP5-NE	Total/NA	Solid	3050B	
440-279274-10	EP5-SE	Total/NA	Solid	3050B	
440-279274-11	EP5-SW	Total/NA	Solid	3050B	
440-279274-12	EP5-Center	Total/NA	Solid	3050B	
440-279274-13	EP4-NW	Total/NA	Solid	3050B	
440-279274-14	EP4-NE	Total/NA	Solid	3050B	
440-279274-15	EP4-SE	Total/NA	Solid	3050B	
440-279274-16	EP4-SW	Total/NA	Solid	3050B	
440-279274-17	EP4-Center	Total/NA	Solid	3050B	
440-279274-18	EP3-NW	Total/NA	Solid	3050B	
440-279274-19	EP3-NE	Total/NA	Solid	3050B	
440-279274-20	EP3-SE	Total/NA	Solid	3050B	
440-279274-21	EP3-SW	Total/NA	Solid	3050B	
440-279274-22	EP3-Center	Total/NA	Solid	3050B	
MB 440-639719/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-639719/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	

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

Job ID: 440-279274-1

## **Metals (Continued)**

#### Prep Batch: 639719 (Continued)

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	440-279352-A-5-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
Į	440-279352-A-5-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

#### Analysis Batch: 639891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-279274-8	EP5-NW	Total/NA	Solid	6010B	639719
440-279274-9	EP5-NE	Total/NA	Solid	6010B	639719
440-279274-10	EP5-SE	Total/NA	Solid	6010B	639719
440-279274-11	EP5-SW	Total/NA	Solid	6010B	639719
440-279274-13	EP4-NW	Total/NA	Solid	6010B	639719
440-279274-14	EP4-NE	Total/NA	Solid	6010B	639719
440-279274-15	EP4-SE	Total/NA	Solid	6010B	639719
440-279274-16	EP4-SW	Total/NA	Solid	6010B	639719
440-279274-17	EP4-Center	Total/NA	Solid	6010B	639719
440-279274-18	EP3-NW	Total/NA	Solid	6010B	639719
440-279274-19	EP3-NE	Total/NA	Solid	6010B	639719
440-279274-20	EP3-SE	Total/NA	Solid	6010B	639719
440-279274-21	EP3-SW	Total/NA	Solid	6010B	639719
440-279274-22	EP3-Center	Total/NA	Solid	6010B	639719
MB 440-639719/1-A ^5	Method Blank	Total/NA	Solid	6010B	639719
LCS 440-639719/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	639719
440-279352-A-5-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	639719
440-279352-A-5-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	639719

#### **Prep Batch: 639927**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-279274-8	EP5-NW	Total/NA	Solid	7471A	<u> </u>
440-279274-9	EP5-NE	Total/NA	Solid	7471A	
440-279274-10	EP5-SE	Total/NA	Solid	7471A	
440-279274-11	EP5-SW	Total/NA	Solid	7471A	
440-279274-12	EP5-Center	Total/NA	Solid	7471A	
440-279274-13	EP4-NW	Total/NA	Solid	7471A	
440-279274-14	EP4-NE	Total/NA	Solid	7471A	
440-279274-15	EP4-SE	Total/NA	Solid	7471A	
440-279274-16	EP4-SW	Total/NA	Solid	7471A	
440-279274-17	EP4-Center	Total/NA	Solid	7471A	
140-279274-18	EP3-NW	Total/NA	Solid	7471A	
440-279274-19	EP3-NE	Total/NA	Solid	7471A	
440-279274-20	EP3-SE	Total/NA	Solid	7471A	
440-279274-21	EP3-SW	Total/NA	Solid	7471A	
440-279274-22	EP3-Center	Total/NA	Solid	7471A	
MB 440-639927/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-639927/2-A	Lab Control Sample	Total/NA	Solid	7471A	
440-279549-A-1-E MS	Matrix Spike	Total/NA	Solid	7471A	
440-279549-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

#### **Analysis Batch: 639939**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-279274-12	EP5-Center	Total/NA	Solid	6010B	639719

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

Job ID: 440-279274-1

#### **Metals**

#### **Analysis Batch: 640053**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-279274-8	EP5-NW	Total/NA	Solid	7471A	639927
440-279274-9	EP5-NE	Total/NA	Solid	7471A	639927
440-279274-10	EP5-SE	Total/NA	Solid	7471A	639927
440-279274-11	EP5-SW	Total/NA	Solid	7471A	639927
440-279274-12	EP5-Center	Total/NA	Solid	7471A	639927
440-279274-13	EP4-NW	Total/NA	Solid	7471A	639927
440-279274-14	EP4-NE	Total/NA	Solid	7471A	639927
440-279274-15	EP4-SE	Total/NA	Solid	7471A	639927
440-279274-16	EP4-SW	Total/NA	Solid	7471A	639927
440-279274-17	EP4-Center	Total/NA	Solid	7471A	639927
440-279274-18	EP3-NW	Total/NA	Solid	7471A	639927
440-279274-19	EP3-NE	Total/NA	Solid	7471A	639927
440-279274-20	EP3-SE	Total/NA	Solid	7471A	639927
440-279274-21	EP3-SW	Total/NA	Solid	7471A	639927
440-279274-22	EP3-Center	Total/NA	Solid	7471A	639927
MB 440-639927/1-A	Method Blank	Total/NA	Solid	7471A	639927
LCS 440-639927/2-A	Lab Control Sample	Total/NA	Solid	7471A	639927
440-279549-A-1-E MS	Matrix Spike	Total/NA	Solid	7471A	639927
440-279549-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	639927

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2

2

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9

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11

## **Definitions/Glossary**

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-279274-1

Project/Site: Nextera - Kramer Junction

#### **Qualifiers**

N/	-+-	10
IVI	ela	15
••••		•

Qualifier **Qualifier Description** F1

MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

#### **Glossary**

Abbreviation	These commonly	y used abbreviations may	y or may not be	present in this report.
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¤ 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** 

Detection Limit (DoD/DOE) DΙ

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

Decision Level Concentration (Radiochemistry) DLC

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 MLMinimum Level (Dioxin) Most Probable Number MPN 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** 

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

**TNTC** Too Numerous To Count

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# **Accreditation/Certification Summary**

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

Job ID: 440-279274-1

#### **Laboratory: Eurofins Calscience Irvine**

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

Auth	hority	Program	Identification Number	Expiration Date
Calif	fornia	State	2706	06-30-21

## **Laboratory: Eurofins Calscience LLC**

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

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

**Eurofins Calscience Irvine** 

<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.

# **Chain of Custody Record**

Eurofins Calscience Irvine 17461 Derian Ave Suite 100 Irvine, CA 92814-5817 Phone: 949-261 1022 Fax: 949-260-3297	טֿ	hain of Custody Record	Custo	ody Re	cord							💸 eurofins		Environment Testing America
Client Information (Sub Contract Lab)	Sampler SIA	2	وريم	Lab PM:		i.			Camer Tracking No(s):	ng No(s):		COC No:		
Client Contact:	Phone:			E-Mail:				9	State of Origin	ä		Page:	8	
Company Nexters					Accreditations Required (See note):	Required (S	se note):					Job #:		
Address: 41400 Hux 395	Due Date Requested				P.		Analysis Requested	s Requ	ested					
"	TAT Requested (days):	;(s			V						<u></u>		≅ ≳ (	None
	<u> </u>	,me/		g som så met gr. 539.	<b>34</b> 7							C Zn Acetate D Nitric Acid E NaHSO4	OTQ	ASNaO2 Na2O4S Na2SO3
Phone: (96) 762-5562	PO#.				, <u>, , , , , , , , , , , , , , , , , , </u>								π. N. ⊢	Na2S2O3 H2SO4 FSP Dodecaburtrate
ŀ	W0#:										164	_ >	-⊃>	Acetone MCAA
Project Name: Nextere - Frame Junch la	Project #:										enist			pH 4-5 other (specify)
	SSOW#:									***************************************	100 10	Other.		
				Matrix (W-water, Ellerable)	<b>Б10</b> N/SW шю				***		Mumber			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	(C=comp, o G=grab) <sub>BT*</sub>	- 8	Perf.	ab a	Rate of Ph.			and Control of State	BIOT		ial Instruc	Special Instructions/Note:
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BR Eastell	•	2420			×									
BR East @ Bottom		9830			X									
LF (ompo)ite		000	<b>11</b>		X									
				9		******				40-2792	74 Chair	440-279274 Chain of Custody		
											(ameter)	<b>Jago</b> - 111 g		
Note: Since laboratory accreditations are subject to change. Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratory accreditation in the State of Origin listed above for analysis/lessis/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.	f places the ownership or being analyzed, the sar state, return the signed C	of method, ana mpies must be hain of Custod	yte & accredita shipped back t y attesting to s:	tion complians to the Eurofins aid complicans	Se upon out se Calscience to Eurofins	ubcontract is aboratory or s Calscience.	aboratories. other instru	This samp ations will b	e shipment provided.	is forwarde Any change	d under cha as to accred	in-of-custody. If i	the laborato ould be brou	ry does not currently ght to Eurofins
Possible Hazard Identification					Sample	Disposal (	A fee m	ry be as:	essed if	samples	are retaii	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	nan 1 mor	ith)
Unconfirmed						Return To Client	ient	Dis	Disposal By Lab	ap.	Arct	Archive For	M	Months
Deliverable Requested: I, II, III, IV Other (specify)	Primary Deliverable Rank:	le Rank:			Special	Special Instructions/QC Requirements:	/QC Req	irement						
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Relinquished by:	Date/Time:		ပိ	Company	Recei	A A Page	2				<u>77</u>	1540		Company (PV
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Custody Seal No.

**Eurofins Calscience Irvine** 

17461 Derian Avenue

Suite 100

💸 eurofins 🔤

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica Sample Specific Notes. Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) Sampler For Lab Use Only TALS Project #: Walk-in Client: ab Sampling: Job / SDG No Ž 7-8-7 Disposal by Lab Carrier Date: Other Return to Client Lab Contact: Site Contact: RCRA Filter&3 Sample (Y/N)
Perform MS/MSD (Y/ 22 metal 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 NPDES Cont. Analysis Turnaround Time
IDAR DAYS WORKING DAYS Matrix Gles Kalys Regulatory Program Dw Type (C=Comp, G≕Grab) TAT if different from Below 9 2 weeks 2 days 1 week 1 day Sample Time 1220 1230 1205 1210 9 1150 || 0.0 210 140 Preservation Used: 1= Ice, 2= HCj; 3= H2SO4; 4=HNO3; 5=NaOH, 6= Othe Project Manager CALENDAR DAYS 248-21 Beg Sample Date Tel/Fax: XOOO Emai⊦ Project Name Nexton - France June Alm Skin Irritant Special Instructions/QC Requirements & Comments 4400 How 395 Zp Baran CA 93516 (260) 762-5562 Sample Identification Irvine CA 92614-5843 phone 949.261 1022 fax 949 260.3299 Client Contact Flammable Possible Hazard Identification アナーにより Company Name Nexher ا رواد 895- NE DAI NO EPY-NE EP5-MM 3 50-1-5E -Jrds VNon-Hazard City/State/Zip Address: Phone # O d Site. ¥

Therm ID No

Corr'd:

Cooler Temp. (°C): Obs'd

Received by

Date/Time 248-40 Pyo Date/Time

COMPANY

Company

Custody Seal No.

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Company Company

Date/Time Date/Time

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Received in Laby

Date/Time

Company

3/3/2021

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Eurofins Calscience Irvine 17461 Derian Avenue	Chain	Chain of Custody Record	_	Curofins Environment Testing
Suite 100 Irvine CA 92614-5843 phone 949 261 1022 fax 949.260.3299	Regulatory Program: Dow DIVIDES DRCRA Dother Project Manager 6 (2)	RCRA Dother	TestAmerica Lab	Tricica TestAmerica Laboratories, Inc. dibia Eurofins TestAmerica COC_No:
Client Contact	Email	Site Contact:	Date. 2-(8-2/	2 of ) cocs
Company Name: Northern	Tel/Fax	Lab Contact:	Carrier:	TALS Project #:
Address. 4M Cro Hur 395	Analysis Turnaround Time			Sampler
City/State/Zin	CALENDAR DAYS WORKING DAYS			For Lab Use Only:

	Project Manager:		]		COC No.	No.
Clean Contact		- Tank	Site Contact:	1Date 7-19-2		of COCs
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iy Name: <b>Ne king k</b>	Tel/Fax		Lab Contact:	Carrier:	IALS	IALS Project #:
Address. 4Mm H. In 291	Analysis Turnaround Time	nd Time			Sampler	ier.
15	CALENDAR DAYS	WORKING DAYS			For	For Lab Use Only:
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Phone: (%) X2-5562	TAT if differen					waik-in Crient:
FAX. /	2 weeks				Cap	Lab Sampling
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	Sample   Sample   Type					
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27-5- Center	1317		×			
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						The state of the s
Preservation Used: 1= Ce; 2= HCi; 3= HZSO4: 4=HNO3; 5=NaCH; 6= Cmer	5=NaOH; 6= Omer			to the contract of the section of th		
Possible Hazard Identification.  Are any samples from a listed EPA Hazardous Waste? Pleas the Comments Section if the lab is to dispose of the sample.	Please List any EPA Waste Codes nole	Codes for the sample in		Sample Disposal ( A tee may be assessed if samples are retained longer than 1 month)	des are retained ione	ger than 1 month)
Thur Harand	Polson B	DWOT	Topic in the Clark			Months
uctions/QC Requirements & C					A CALLED AND A CAL	
Custody Selate Inflact: //   Yes   No	Custody Seal No		Cooler Temp. (°C): Obs'd	°C): Obs'd. Corr'd:	***************************************	Therm ID No.
7/1/	Company APL	Pate Tighe (	Date Time ( Cu Received by:	Company	Date/	Date/Time
Relinquished by:	Company	Date/Time:	Received by	Company	Date/	Date/Time:
		i.				
Relinquisned by	Company.	Date/ IIme	received in Laboration by		(PV Date)	0 ps/ 17/2/2
			XX		Form No. CA-C-WI-0	Form No. CA-C-WI-002, Rev 4.35, dated 10/6/2020

# Seurofin:

# Chain of Custody Record

Eurofins Calscience Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Phone. 949-261-1022 Fax: 949-260-3297	Chain of Custody Record	Record		💸 eurofin:	Loc. 440 <b>27927</b>
Client Information (Sub Contract Lab)	Sampler: Lat	Lab PM: Fama, Sheri M	Carrier Tracking No(s):	COC No: 440-166505 1	
Client Confact: Shipping/Receiving	Phone: E-1	E-Mail: Sheri Fama@Eurofinset.com	State of Origin California	Page: Page 1 of 1	

Client Information (Sub Contract Lab)	Sampler:			Lab PW	Lab PW: Eama Shari M	•	Carrier Tracking No(s):	COC No.	No:	
	Ohono				,			0	440-100000	
sceiving	<u> </u>			E-Mail Sheri	Fama@	E-Ma⊪. Sheri Fama@Eurofinset.com	State of Origin California	Page:	Page: Page 1 of 1	
Company					Accreditation	Accreditations Required (See note):		H qof		
s Carscience LLC					State Pro	State Program - California		440	440-279274-1	
Address. 7440 Lincoln Way,	Due Date Requested: 3/3/2021	ij				Analysis F	Analysis Reguested	Pres	Preservation Codes	sə
	TAT Requested (days):	ys):					-  -  -	A-HCL	A-HCL	M - Hexane
Grove								C-Z	C - Zn Acetate	O - AsNaO2
State, Zip CA, 92841								Д - О П		P - Na204S Q - Na2SO3
;95-5494(Tel) 714-894-7501(Fax)	PO#:				(0				F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecabydrate
Email:	.wo#:				(on				I-Ice J-Di Water	U - Acetone V - MCAA
Project Name: Nextera Kramer Junction	Project #: 44005151				10 86			***************************************	K-EDTA L-EDA	W - pH 4-5 Z - other (specify)
Site: FPL Kramer Junction	SSOW#:				x) as			of con	٤	
			Sample	Matrix (w=water	iltered n MS/M DRO/35			Jedmu		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample	6 ~	S=solid, O=waste/oil, BT=Tissue, A=Air}	nohe9		***************************************	N lato1	Special pa	Special Instructions/Note:
	X	X	100	ion Code:	X			X		
BR West@1' (440-279274-1)	2/18/21	08.45 Pacific		Solid	_	×		1 Then	Therminol	
BR West@Bottom (440-279274-2)	2/18/21	08.55 Pacific		Solid	Î	×		1 Then	Therminol.	
BR Center@1' (440-279274-3)	2/18/21	09·00 Pacific		Solid	^	×		1 Thermino	minol	
BR Center@Bottom (440-279274-4)	2/18/21	09·10 Pacific		Solid		×		1 Thermino	minol	
BR East@1' (440-279274-5)	2/18/21	09:20 Pacific		Solid		×		Thermino	minol	
BR East@Bottom (440-279274-6)	2/18/21	09 30 Pacific		Solid	_	×		1 Ther	Therminol	
LR Composite (440-279274-7)	2/18/21	10-00 Pacific		Solid	Â	×		1 Therminol	minol	
				4	,					
Note Since laboratory accreditations are subject to change. Eurofins Calscience places the ownership of method, analyte & accreditation compilance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience above for analysis/lests/matrix had a contract to date the provided. This is the contract to the Eurofins of Eurofins.	places the ownership being analyzed the s	of method, a amples must Chain of Cus	nalyte & accrected back back back back back back back back	ditation complia	nce upon c is Calscien	out subcontract laboratories. This ce laboratory or other instruction	s sample shipment is forwarded s will be provided Any change	under chain-of-cu s to accreditation s	stody If the lab	oratory does not currently brought to Eurofins

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

LOSSING HAZAR DISCHILLICATION		5	liple Disposal ( A fee fillay be as	Sample Disposal (A ree may be assessed it samples are retained longer dian 1 month)	
Unconfirmed			Return To Client Dis	Disposal By Lab Archive For	Months
Deliverable Requested I, II, III, IV, Other (specify)	Primary Deliverable Rank. 2	Spe	Special Instructions/QC Requirements.	46	
Empty Kit Relinquished by:	Date	Time		Method of Shipment:	
Relinquished by	Date/Time: Date/Time: Date/Time:	Company CALL	Received by	Date Time: 9/1 11:43	S Company (Z
Refinquished by:		Company	Received by:	Date/I/me: / /	Сотрапу
Relinquished by:	Date/Time:	Сотрапу	Received by	Date/Time:	Company
Custody Seals Infact: Custody Seal No. Δ Yes. Δ No			Cooler Temperature(s) °C and Other Remarks:	arks: 37/25 54	ોલ
					Vor. 11/01/2020

# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-279274-1

Login Number: 279274 List Source: Eurofins Irvine

List Number: 1

Creator: Lagunas, Jorge L

ordator. Lugarius, corgo L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-279274-1

Login Number: 279274 List Number: 2

Creator: Koopman, Jennifer

List Source: Eurofins Calscience List Creation: 02/19/21 04:11 PM

Creator: Koopman, Jenniter		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	N/A	Lab does not accept radioactive samples.
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	2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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# **Environment Testing America**

# **ANALYTICAL REPORT**

**Eurofins Calscience Irvine** 17461 Derian Ave Suite 100 Irvine, CA 92614-5817

Tel: (949)261-1022

Laboratory Job ID: 440-285792-1

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: 7/23/2021 1:19:36 PM

Sheri Fama, Project Manager I

(949)260-3274

Sheri.Fama@Eurofinset.com

----- LINKS -----

**Review your project** results through Total Access

**Have a Question?** 



Visit us at:

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**

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Case Narrative	4
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Method Summary	6
Lab Chronicle	7
QC Sample Results	8
QC Association Summary	10
Definitions/Glossary	11
Certification Summary	
Chain of Custody	13
Receipt Checklists	15

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# **Sample Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-285792-1	BR Northwest	Solid	07/08/21 17:00	07/09/21 17:20
440-285792-2	BR Southeast	Solid	07/08/21 17:05	07/09/21 17:20
440-285792-3	BR Northeast	Solid	07/08/21 17:10	07/09/21 17:20
440-285792-4	BR Southwest	Solid	07/08/21 17:20	07/09/21 17:20

Job ID: 440-285792-1

#### **Case Narrative**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Job ID: 440-285792-1

Job ID: 440-285792-1

**Laboratory: Eurofins Calscience Irvine** 

**Narrative** 

Job Narrative 440-285792-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/9/2021 5:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was  $2.7^{\circ}$  C.

#### GC Semi VOA

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

#### **Organic Prep**

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

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**Client Sample ID: BR Northwest** 

Date Collected: 07/08/21 17:00 Date Received: 07/09/21 17:20 Lab Sample ID: 440-285792-1

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	82		5.0	mg/Kg		07/21/21 15:32	07/22/21 15:59	1
1,1'-Biphenyl	22		5.0	mg/Kg		07/21/21 15:32	07/22/21 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		60 - 138			07/21/21 15:32	07/22/21 15:59	1

**Client Sample ID: BR Southeast** 

Date Collected: 07/08/21 17:05 Date Received: 07/09/21 17:20

Lab Sample ID: 440-285792-2

Matrix: Solid

Matrix: Solid

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	69	4.9	mg/Kg		07/21/21 15:32	07/22/21 16:25	1
1,1'-Biphenyl	4.9	4.9	mg/Kg		07/21/21 15:32	07/22/21 16:25	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106	60 - 138			07/21/21 15:32	07/22/21 16:25	1

**Client Sample ID: BR Northeast** 

Lab Sample ID: 440-285792-3 Date Collected: 07/08/21 17:10 Matrix: Solid Date Received: 07/09/21 17:20

Method: 8015B - Diesel	Range Organics (DRO) (	GC)				
Analyte	Result Qualifie	r RL	Unit	D Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND ND	5.1	mg/Kg	07/21/21 15:32	07/22/21 16:51	1
1,1'-Biphenyl	ND	5.1	mg/Kg	07/21/21 15:32	07/22/21 16:51	1
Surrogate	%Recovery Qualifie	r Limits		Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102	60 - 138		07/21/21 15:32	07/22/21 16:51	1

**Client Sample ID: BR Southwest** Lab Sample ID: 440-285792-4

Date Collected: 07/08/21 17:20 Date Received: 07/09/21 17:20

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	77		4.8	mg/Kg		07/21/21 15:32	07/22/21 17:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		60 - 138			07/21/21 15:32	07/22/21 17:17	1
- Method: 8015B - Diesel	Range Organics (	(DRO) (GC	) - DL					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	850		24	mg/Kg		07/21/21 15:32	07/22/21 18:04	- 5

# **Method Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Laboratory **Method Description** Protocol Diesel Range Organics (DRO) (GC) SW846 ECL 1 Ultrasonic Extraction SW846 ECL 1

#### **Protocol References:**

Method

8015B

3550C

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

#### **Laboratory References:**

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

Job ID: 440-285792-1

#### **Lab Chronicle**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Client Sample ID: BR Northwest Lab Sample ID: 440-285792-1

Date Collected: 07/08/21 17:00 Matrix: Solid
Date Received: 07/09/21 17:20

Dil Batch Batch Batch Initial Final Prepared Method Factor Number or Analyzed **Prep Type** Type Run **Amount** Amount Analyst Lab Total/NA 3550C 165609 07/21/21 15:32 N5Y3 ECL 1 Prep 9.92 g 10 mL 07/22/21 15:59 N5Y3 Total/NA 8015B 165843 ECL 1 Analysis 1

Client Sample ID: BR Southeast Lab Sample ID: 440-285792-2

Date Collected: 07/08/21 17:05
Date Received: 07/09/21 17:20

Batch Batch Dil Initial Final Batch Prepared Method **Factor Amount Amount** Number or Analyzed **Prep Type** Type Run Analyst Lab Total/NA Prep 3550C 10.30 g 10 mL 165609 07/21/21 15:32 N5Y3 ECL 1 8015B Total/NA Analysis 165843 07/22/21 16:25 N5Y3 ECL 1 1

Client Sample ID: BR Northeast Lab Sample ID: 440-285792-3

Date Collected: 07/08/21 17:10 Matrix: Solid
Date Received: 07/09/21 17:20

Batch Batch Dil Initial Final Batch **Prepared** Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab Total/NA Prep 3550C 9.85 g 10 mL 165609 07/21/21 15:32 N5Y3 ECL 1 Total/NA Analysis 8015B 165843 07/22/21 16:51 N5Y3 ECL 1 1

Client Sample ID: BR Southwest Lab Sample ID: 440-285792-4

Date Collected: 07/08/21 17:20 Matrix: Solid
Date Received: 07/09/21 17:20

Batch Batch Dil Initial Final **Batch** Prepared Method Factor Amount Amount Number **Prep Type** Type Run or Analyzed Analyst Lab Total/NA 3550C Prep 10.43 g 10 mL 165609 07/21/21 15:32 N5Y3 ECL 1 Total/NA Analysis 8015B 1 165843 07/22/21 17:17 N5Y3 ECL<sub>1</sub> Total/NA Prep 3550C DL 10.43 g 10 mL 165609 07/21/21 15:32 N5Y3 ECL<sub>1</sub> Total/NA Analysis 8015B DL 5 165843 07/22/21 18:04 N5Y3 ECL 1

Laboratory References:

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

**Eurofins Calscience Irvine** 

7/23/2021

Job ID: 440-285792-1

Matrix: Solid

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-285792-1

Project/Site: Nextera Kramer Junction

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

Lab Sample ID: MB 570-165609/1-A **Client Sample ID: Method Blank** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 165843

	MB	MB					
Analyte	Result	Qualifier	RL	Unit I	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		5.0	mg/Kg	07/21/21 15:32	07/22/21 13:48	1
1,1'-Biphenyl	ND		5.0	mg/Kg	07/21/21 15:32	07/22/21 13:48	1

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac

n-Octacosane (Surr) 107 60 - 138 07/21/21 15:32 07/22/21 13:48

Lab Sample ID: LCS 570-165609/2-A **Matrix: Solid** 

**Analysis Batch: 165843** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene, 1,1'-oxybis-	100	93.5		mg/Kg		94	68 - 120	
1,1'-Biphenyl	100	78.5		mg/Kg		79	57 - 120	

LCS LCS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 94 60 - 138

Lab Sample ID: LCSD 570-165609/3-A

**Matrix: Solid** 

Analysis Batch: 165843							Prep Ba	itch: 16	55609
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene, 1,1'-oxybis-	100	96.4		mg/Kg		96	68 - 120	3	20
1,1'-Biphenyl	100	81.0		mg/Kg		81	57 - 120	3	20

LCSD LCSD Surrogate %Recovery Qualifier

Limits 60 - 138 n-Octacosane (Surr)

Lab Sample ID: 440-285792-1 MS **Client Sample ID: BR Northwest** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 165843									Prep Ba	tch: 165609
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene, 1,1'-oxybis-	82		101	191		mg/Kg		107	68 - 120	
1,1'-Biphenyl	22		101	108		mg/Kg		84	57 - 120	

MS MS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 97 60 - 138

Lab Sample ID: 440-285792-1 MSD

Matrix: Solid									Prep Ty	•	
Analysis Batch: 165843									Prep Ba	itcn: 10	05609
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene, 1,1'-oxybis-	82		96.3	183		mg/Kg		104	68 - 120	4	20
1,1'-Biphenyl	22		96.3	104		mg/Kg		84	57 - 120	4	20

**Eurofins Calscience Irvine** 

**Client Sample ID: BR Northwest** 

**Prep Batch: 165609** 

Prep Type: Total/NA

**Prep Batch: 165609** 

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

**Client Sample ID: Lab Control Sample Dup** 

Page 8 of 16 7/23/2021

# **QC Sample Results**

Job ID: 440-285792-1 Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

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

Lab Sample ID: 440-285792-1 MSD **Matrix: Solid** 

**Analysis Batch: 165843** 

MSD MSD

%Recovery Qualifier Limits Surrogate n-Octacosane (Surr) 103 60 - 138 **Client Sample ID: BR Northwest** 

**Prep Type: Total/NA Prep Batch: 165609** 

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

#### Job ID: 440-285792-1

# **GC Semi VOA**

#### **Prep Batch: 165609**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-285792-1	BR Northwest	Total/NA	Solid	3550C	
440-285792-2	BR Southeast	Total/NA	Solid	3550C	
440-285792-3	BR Northeast	Total/NA	Solid	3550C	
440-285792-4 - DL	BR Southwest	Total/NA	Solid	3550C	
440-285792-4	BR Southwest	Total/NA	Solid	3550C	
MB 570-165609/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-165609/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-165609/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
440-285792-1 MS	BR Northwest	Total/NA	Solid	3550C	
440-285792-1 MSD	BR Northwest	Total/NA	Solid	3550C	

#### **Analysis Batch: 165843**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-285792-1	BR Northwest	Total/NA	Solid	8015B	165609
440-285792-2	BR Southeast	Total/NA	Solid	8015B	165609
440-285792-3	BR Northeast	Total/NA	Solid	8015B	165609
440-285792-4	BR Southwest	Total/NA	Solid	8015B	165609
440-285792-4 - DL	BR Southwest	Total/NA	Solid	8015B	165609
MB 570-165609/1-A	Method Blank	Total/NA	Solid	8015B	165609
LCS 570-165609/2-A	Lab Control Sample	Total/NA	Solid	8015B	165609
LCSD 570-165609/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	165609
440-285792-1 MS	BR Northwest	Total/NA	Solid	8015B	165609
440-285792-1 MSD	BR Northwest	Total/NA	Solid	8015B	165609

## **Definitions/Glossary**

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-285792-1

Project/Site: Nextera Kramer Junction

## **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) Most Probable Number MPN 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

**Eurofins Calscience Irvine** 

Page 11 of 16

# **Accreditation/Certification Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Job ID: 440-285792-1

## **Laboratory: Eurofins Calscience LLC**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
Arkansas DEQ	State	88-0161	11-19-21
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	SCAQMD LAP	17LA0919	11-30-21
California	State	2944	09-30-21
Guam	State	21-003R	06-22-22
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-30-22
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

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# Chain of Custody Record 557091 ❖ eurofins

Environment Testing TestAmerica

7/23/2021

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<b>Eurofins Calscience Irvine</b> 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Phone 949-261-1022 Fax 949-260-3297		Chain o	f Custo	n of Custody Record	cord	***				eurofins 🖒	ins Equironment To Artierica
Client Information (Sub Contract Lab)	Sampler			Lab PM Fama,	Sheri M	Lab PM Fama, Sheri M		Carrier Tracking No(s)	g No(s):	COC No. 440-171321	-
Client Contact: Shipping/Receiving	Phone.			E-Mail Sheri F	ama@Euro	finset.com		State of Origin California		Page Page 1 of 1	
Company Eurofins Calscience LLC				8 E	creditations Reate Prograr	equired (See not n - California	 			Job #:	2-1
Address. 7440 Lincoln Way, ,	Due Date Requested 7/22/2021	_				An	alysis Re	Analysis Requested		Preservation Codes	Ses
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Note: Since laboratory accreditations are subject to change Eurofins Calscience places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-be-dustory of the laboratory of other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.	nce places the ownership of atrix being analyzed, the sa um the signed Chain of Cus	if method analy nples must be s tody attesting to	te & accreditation shipped back to said complican	on compliance unthe Eurofins Carce to Eurofins C	pon out subco Iscience labora alscience.	intract laboratorie atory or other ins	es. This sam	ole shipment is fo be provided. Any	warded under of changes to acon	rain-of-custody If the editation status should	laboratory does not currently be brought to Eurofins Calso
Possible Hazard Identification					Sample D	isposal (A f	ee may be	assessed if	amples are	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	han 1 month)
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											Ver 11/01/2020
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# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-285792-1

Login Number: 285792 List Source: Eurofins Calscience Irvine

List Number: 1

Creator: Lagunas, Jorge L

Creator: Lagunas, Jorge L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by meter.</td <td>y a survey True</td> <td></td>	y a survey 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 tampered with.	or 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 to	the COC. True	
Samples are received within Holding Time (excluding tests with im HTs)	nmediate 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 request MS/MSDs	ted True	
Containers requiring zero headspace have no headspace or bubble <6mm (1/4").	le is True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-285792-1

List Number: 285792 List Source: Eurofins Calscience LLC
List Number: 2 List Creation: 07/12/21 12:00 PM

Creator: Cruise, Noel

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	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	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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# **Environment Testing America**

# **ANALYTICAL REPORT**

**Eurofins Calscience Irvine** 17461 Derian Ave Suite 100 Irvine, CA 92614-5817

Tel: (949)261-1022

Laboratory Job ID: 440-288354-1

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: 9/15/2021 5:34:30 PM

Sheri Fama, Project Manager I

(949)260-3274

Sheri.Fama@Eurofinset.com

----- LINKS -----

**Review your project** results through Total Access

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

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

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

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

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# **Sample Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera - Kramer Junction

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-288354-1	Segs III 426-South	Solid	08/31/21 18:10	09/01/21 18:35
440-288354-2	Segs III 426-North	Solid	08/31/21 18:15	09/01/21 18:35
440-288354-3	Segs III slope	Solid	08/31/21 18:20	09/01/21 18:35

Job ID: 440-288354-1

#### **Case Narrative**

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

Job ID: 440-288354-1

Job ID: 440-288354-1

**Laboratory: Eurofins Calscience Irvine** 

Narrative

Job Narrative 440-288354-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/1/2021 6:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was  $0.6^{\circ}$  C.

#### **Receipt Exceptions**

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

#### GC Semi VOA

Method 8015B: Surrogate recovery for the following samples were outside control limits: Segs III 426-South (440-288354-1) and Segs III 426-North (440-288354-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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.

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Client Sample ID: Segs III 426-South

Date Collected: 08/31/21 18:10 Date Received: 09/01/21 18:35 Lab Sample ID: 440-288354-1

Lab Sample ID: 440-288354-2

Lab Sample ID: 440-288354-3

**Matrix: Solid** 

Method: 8015B - Diesel F	Range Organics (I	DRO) (GC	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	9100		510	mg/Kg		09/13/21 10:39	09/13/21 22:37	100
1,1'-Biphenyl	3400		510	mg/Kg		09/13/21 10:39	09/13/21 22:37	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	350	S1+	60 - 138			09/13/21 10:39	09/13/21 22:37	100

Client Sample ID: Segs III 426-North

Date Collected: 08/31/21 18:15

Date Received: 09/01/21 18:35

Method: 8015B - Diesel F	Range Organics (	DRO) (GC	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	10000		470	mg/Kg		09/13/21 10:39	09/13/21 23:03	100
1,1'-Biphenyl	3600		470	mg/Kg		09/13/21 10:39	09/13/21 23:03	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	252	S1+	60 - 138			09/13/21 10:39	09/13/21 23:03	100

Client Sample ID: Segs III slope

Date Collected: 08/31/21 18:20

Date Received: 09/01/21 18:35

 Method: 8015B - Diesel F	Range Organics (DRO) (GC	;)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	89	25	mg/Kg		09/13/21 10:39	09/13/21 23:30	5
1,1'-Biphenyl	34	25	mg/Kg		09/13/21 10:39	09/13/21 23:30	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96	60 - 138			09/13/21 10:39	09/13/21 23:30	5

**Matrix: Solid** 

**Matrix: Solid** 

# **Method Summary**

Client: FPL Energy Solar Partners III-VII, LLC

**Method Description** 

Ultrasonic Extraction

Diesel Range Organics (DRO) (GC)

Project/Site: Nextera - Kramer Junction

Protocol	Laboratory
SW846	ECL 1

SW846

#### **Protocol References:**

Method

8015B

3550C

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

#### **Laboratory References:**

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

Job ID: 440-288354-1

ECL 1

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#### **Lab Chronicle**

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

Client Sample ID: Segs III 426-South Lab Sample ID: 440-288354-1

Date Collected: 08/31/21 18:10 Date Received: 09/01/21 18:35

**Matrix: Solid** 

Job ID: 440-288354-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.90 g	10 mL	178698	09/13/21 10:39	UYUW	ECL 1
Total/NA	Analysis	8015B		100			178753	09/13/21 22:37	N5Y3	ECL 1

Client Sample ID: Segs III 426-North Lab Sample ID: 440-288354-2

Date Collected: 08/31/21 18:15 Date Received: 09/01/21 18:35

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.61 g	10 mL	178698	09/13/21 10:39	UYUW	ECL 1
Total/NA	Analysis	8015B		100			178753	09/13/21 23:03	N5Y3	ECL 1

Lab Sample ID: 440-288354-3 Client Sample ID: Segs III slope

Date Collected: 08/31/21 18:20

**Matrix: Solid** 

Date Received: 09/01/21 18:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.05 g	10 mL	178698	09/13/21 10:39	UYUW	ECL 1
Total/NA	Analysis	8015B		5			178753	09/13/21 23:30	N5Y3	ECL 1

**Laboratory References:** 

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

9/15/2021

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-288354-1

Project/Site: Nextera - Kramer Junction

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

Lab Sample ID: MB 570-178698/1-A **Client Sample ID: Method Blank Prep Type: Total/NA** 

**Matrix: Solid** 

**Analysis Batch: 178753** 

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		5.0	mg/Kg	_	09/13/21 10:39	09/13/21 19:32	1
1,1'-Biphenyl	ND		5.0	mg/Kg		09/13/21 10:39	09/13/21 19:32	1

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 86 60 - 138 09/13/21 10:39 09/13/21 19:32

83

**Client Sample ID: Lab Control Sample Dup** 

Client Sample ID: Lab Control Sample

57 - 120

**Prep Batch: 178698** 

Prep Type: Total/NA

Lab Sample ID: LCS 570-178698/2-A

**Matrix: Solid** 

1,1'-Biphenyl

Analysis Batch: 178753							Prep Ba	tch: 178698
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene, 1,1'-oxybis-	100	97.8		mg/Kg		98	68 - 120	

82.5

mg/Kg

100

LCS LCS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 82 60 - 138

Lab Sample ID: LCSD 570-178698/3-A

Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 178753							Prep Ba	itch: 1	78698
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene, 1,1'-oxybis-	100	99.0		mg/Kg		99	68 - 120	1	20
1.1'-Biphenyl	100	83.6		ma/Ka		84	57 - 120	1	20

LCSD LCSD Surrogate %Recovery Qualifier Limits 60 - 138 n-Octacosane (Surr) 83

Lab Sample ID: 440-288353-A-1-D MS	Client Sample ID: Matrix Spike
Matrix: Solid	Prep Type: Total/NA
Analysis Patch: 179752	Prop Batch: 179609

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene, 1,1'-oxybis-	70		97.2	177		mg/Kg		110	68 - 120	
1,1'-Biphenyl	11		97.2	90.9		mg/Kg		82	57 - 120	

MS MS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 85 60 - 138

Lab Sample ID: 440-288353-A-1-E MSD

Matrix: Solid Analysis Batch: 178753									Prep Ty Prep Ba	•	
Analysis Daten. 170755	Sample	Sample	Spike	MSD	MSD				%Rec.	aton. 1	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene, 1,1'-oxybis-	70		94.0	172		mg/Kg		108	68 - 120	3	20
1,1'-Biphenyl	11		94.0	91.7		mg/Kg		86	57 - 120	1	20

**Eurofins Calscience Irvine** 

9/15/2021

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# **QC Sample Results**

Client: FPL Energy Solar Partners III-VII, LLC

Job ID: 440-288354-1

Project/Site: Nextera - Kramer Junction

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

Lab Sample ID: 440-288353-A-1-E MSD

Matrix: Solid

**Analysis Batch: 178753** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

**Prep Batch: 178698** 

MSD MSD

Surrogate %Reco

%Recovery Qualifier

**Limits** 60 - 138

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# **QC Association Summary**

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

Job ID: 440-288354-1

# **GC Semi VOA**

## **Prep Batch: 178698**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288354-1	Segs III 426-South	Total/NA	Solid	3550C	
440-288354-2	Segs III 426-North	Total/NA	Solid	3550C	
440-288354-3	Segs III slope	Total/NA	Solid	3550C	
MB 570-178698/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-178698/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-178698/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
440-288353-A-1-D MS	Matrix Spike	Total/NA	Solid	3550C	
440-288353-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

## **Analysis Batch: 178753**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288354-1	Segs III 426-South	Total/NA	Solid	8015B	178698
440-288354-2	Segs III 426-North	Total/NA	Solid	8015B	178698
440-288354-3	Segs III slope	Total/NA	Solid	8015B	178698
MB 570-178698/1-A	Method Blank	Total/NA	Solid	8015B	178698
LCS 570-178698/2-A	Lab Control Sample	Total/NA	Solid	8015B	178698
LCSD 570-178698/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	178698
440-288353-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B	178698
440-288353-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	178698

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# **Definitions/Glossary**

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-288354-1

Project/Site: Nextera - Kramer Junction

#### **Qualifiers**

#### **GC Semi VOA**

Qualifier **Qualifier Description** 

S1+ Surrogate recovery exceeds control limits, high biased.

# **Glossary**

Abbreviation	These o	commo	nly use	ed abl	orev	/iatior	ารเ	may	or ma	ly 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

Duplicate Error Ratio (normalized absolute difference) DER

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)

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

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

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

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** 

Relative Error Ratio (Radiochemistry) **RER** 

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

**TNTC** Too Numerous To Count

# **Accreditation/Certification Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Job ID: 440-288354-1 Project/Site: Nextera - Kramer Junction

# **Laboratory: Eurofins Calscience LLC**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
Arkansas DEQ	State	88-0161	11-19-21
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	SCAQMD LAP	17LA0919	11-30-21
California	State	2944	09-30-21
Guam	State	21-003R	06-22-22
Nevada	State	CA00111	07-31-22
Oregon	NELAP	CA300001	01-30-22
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

STHEFT TO THE		Cha	Chain of Custody Record	cord 206320	TestAmerico
Joine to 92614 Phone 949 261 1022 Fax	Regulatory Program	M	□ NPDES □ RCRA □ Other		THE LEADER IN ENVIRONMENTAL TESTIN  TestAmerica Laboratories, Inc  TAL-8210 (07):
Client Contact	Project Manager		Site Contact.	Date: 9-1-2/	COC No
Company Name //wrec.	1 !		Lab Calitact:	٠.	of COCs
7		Turnaround Time			Sampler For Lab Ilea Only:
City/State/Lip Krok (	TAT if different from Below	WORKING DATS	<b>2</b> 0		Walk-in Client:
Fax:			/ / / / / N		Lab Sampling:
Project Name: Newton - Norman dunchon.	1 week				Job / SDG No.
PO#	10		N/S		
•	Sample		g ltered Si srform M		2/7/2
Coc III 47 C-Suff	84-21 1810 G	Watrix C			Sample Specific Notes.
1 2	12°L				
0	1		X		
Page					
13					
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Approximate the second				440-288354 Chain of Custouy	Istory
Baccaranton Hand, 4-13- D-101, 3-10504, A-HMO3, 6-45-00, S-	2-N-0 G-0				
Possible Hazard Identification			1	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	ned longer than 1 month)
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.	se List any EPA Waste Code	s for the sample			
Non-Hazard Flammable Skin Irritant	☐ Poison B	Unknown	Return to Client	Disposal by Lab	Months
Special Instructions/QC Requirements & Comments					
Custody Seals Integral Tyes No	Custody Seal No		Cooler Temp. (°C): Obs'd	1	Therm ID No 🗲 🤾 20
Relinquished by)	Company	Date/Time	94-21 Peogly Received by:	Company	Date/Time 9/1/21 (835
Relinquished by:	Company:	Date/Time	Received by	pany.	
Relinquished by:	Company:	Date/Time	Received in Laboratory by	у. Сотрапу	Date/Time.
)21					

Ver 06/08/2021

# Chain of Custody Record

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

**Eurofins Calscience Irvine** 

17461 Derian Ave Suite 100

Irvine, CA 92614-5817

🕏 eurofins

Environment Testing

N - None
O - AsiNaO2
P - Na2X03
Q - Na2X03
R - Na2X03
S - H2X04
T - TSP Dodecahydrate
U - Acetione
V - MCAA Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method analyte & accreditation compilance upon out subcontract laboratory or other instructions. This sample shipmed the chang analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience. Special Instructions/Note: W - pH 4-5 Z - other (specify) Company Company Sompany Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Monti Preservation Codes G - Amchlor H - Ascorbic Acid COC No. 440-172942.1 440-288354-1 C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH 0000 Page 1 of 1 J - DI Water K - EDTA L - EDA Therminol B - NaOH herminol [herminol A-HCL 1-1ce 15266 Total Number of containers 2 Date(Time: Date/Time: ethod of Shipment: Carrier Tracking No(s): 6 State of Origin California **Analysis Requested** Sooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: Accreditations Required (See note) State Program - California E-Mail: Sheri Fama@Eurofinset.com Received by: Lab PM: Fama, Sheri M × × 8012B\_DRO/3550C (MOD) Therminol × Perform MS/MSD (Yes or No) Time Field Filtered Sample (Yes or No.) (Wmwater Smoolld, Omwaste/oil, Preservation Code: Solid Solid Solid Company (C=comp, G=arab) Sample Type Primary Deliverable Rank 2 Sample 060 Pacific 18 15 Pacific 18:20 Time Pacific Date TAT Requested (days): Due Date Requested: 9/14/2021 Sample Date 8/31/21 8/31/21 8/31/21 Project #: 44005151 SSOW#: Date/Time: Phone: #OM 2 多 Client Information (Sub Contract Lab) Unconfirmed Deliverable Requested 1, II, III, IV, Other (specify) Custody Seal No Sample Identification - Client ID (Lab ID) 714-895-5494(Tel) 714-894-7501(Fax) Segs III 426-South (440-288354-1) Segs III 426-North (440-288354-2) Possible Hazard Identification Segs 6 slope (440-288354-3) Empty Kit Relinquished by: Eurofins Calscience LLC Custody Seals Intact:

A Yes A No Nextera Kramer Junction FPL Kramer Junction Shipping/Receiving 7440 Lincoln Way, Garden Grove elinquished by: elinquished by oject Name: State Zip: CA, 92841

# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-288354-1

Login Number: 288354 List Source: Eurofins Calscience Irvine

List Number: 1

Creator: Lagunas, Jorge L

oreator. Lagunas, Jorge L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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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# Login Sample Receipt Checklist

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-288354-1

Login Number: 288354
List Source: Eurofins Calscience LLC
List Number: 2
List Creation: 09/02/21 11:13 AM

Creator: Ortiz-Luis, Michael

Answer	Comment
N/A	
N/A	
N/A	
True	
True	
True	
True	1.5
True	
True	
True	
False	Received project as a subcontract.
True	
N/A	
	N/A N/A N/A N/A True True True True True True True True

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# **Environment Testing America**

# **ANALYTICAL REPORT**

**Eurofins Calscience Irvine** 17461 Derian Ave Suite 100 Irvine, CA 92614-5817

Tel: (949)261-1022

Laboratory Job ID: 440-288353-1

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: 9/15/2021 5:15:52 PM

Sheri Fama, Project Manager I

(949)260-3274

Sheri.Fama@Eurofinset.com

----- LINKS -----

**Review your project** results through Total Access

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

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

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

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

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# **Sample Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera - Kramer Junction

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-288353-1	BR SW #1	Solid	08/31/21 18:25	09/01/21 18:35
440-288353-2	BR SW #2	Solid	08/31/21 18:30	09/01/21 18:35

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Job ID: 440-288353-1

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#### **Case Narrative**

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

Job ID: 440-288353-1

Job ID: 440-288353-1

**Laboratory: Eurofins Calscience Irvine** 

**Narrative** 

Job Narrative 440-288353-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/1/2021 6:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

#### **Receipt Exceptions**

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

#### GC Semi VOA

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

#### **Organic Prep**

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

# **Client Sample Results**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera - Kramer Junction

Lab Sample ID: 440-288353-1 Client Sample ID: BR SW #1

Date Collected: 08/31/21 18:25 **Matrix: Solid** 

Date Received: 09/01/21 18:35

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	70		4.7	mg/Kg		09/13/21 10:39	09/13/21 21:44	1
1,1'-Biphenyl	11		4.7	mg/Kg		09/13/21 10:39	09/13/21 21:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		60 - 138			09/13/21 10:39	09/13/21 21:44	1

Client Sample ID: BR SW #2 Lab Sample ID: 440-288353-2 **Matrix: Solid** 

Date Collected: 08/31/21 18:30

Date Received: 09/01/21 18:35

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	56		5.1	mg/Kg		09/13/21 10:39	09/13/21 22:11	1
1,1'-Biphenyl	7.5		5.1	mg/Kg		09/13/21 10:39	09/13/21 22:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		60 - 138			09/13/21 10:39	09/13/21 22:11	1

**Eurofins Calscience Irvine** 

9/15/2021

# **Method Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera - Kramer Junction

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
3550C	Ultrasonic Extraction	SW846	ECL 1

#### **Protocol References:**

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

#### **Laboratory References:**

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

Job ID: 440-288353-1

## **Lab Chronicle**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera - Kramer Junction

Client Sample ID: BR SW #1 Lab Sample ID: 440-288353-1

Date Collected: 08/31/21 18:25

Date Received: 09/01/21 18:35

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Method Factor Number or Analyzed Type Run **Amount Amount** Analyst Lab Prep Total/NA 3550C 10.53 g 10 mL 178698 09/13/21 10:39 UYUW ECL 1 Total/NA 8015B 09/13/21 21:44 N5Y3 Analysis 178753 ECL 1 1

Client Sample ID: BR SW #2 Lab Sample ID: 440-288353-2

Date Collected: 08/31/21 18:30 Date Received: 09/01/21 18:35

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.89 g	10 mL	178698	09/13/21 10:39	UYUW	ECL 1
Total/NA	Analysis	8015B		1			178753	09/13/21 22:11	N5Y3	ECL 1

**Laboratory References:** 

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

Job ID: 440-288353-1

**Matrix: Solid** 

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Job ID: 440-288353-1

mg/Kg

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera - Kramer Junction

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

Lab Sample ID: MB 570-178698/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 178753** 

	MB	MB					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		5.0	mg/Kg		09/13/21 10:39	09/13/21 19:32	1
1,1'-Biphenyl	ND		5.0	mg/Kg		09/13/21 10:39	09/13/21 19:32	1
	MB	МВ						

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 86 60 - 138 09/13/21 10:39 09/13/21 19:32

Lab Sample ID: LCS 570-178698/2-A

Matrix: Solid							Prep Type: Total/NA
Analysis Batch: 178753							<b>Prep Batch: 178698</b>
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene, 1.1'-oxybis-	100	97.8		ma/Ka		98	68 - 120

82.5

100

LCS LCS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 82 60 - 138

Lab Sample ID: LCSD 570-178698/3-A

1,1'-Biphenyl

Matrix: Solid Analysis Batch: 178753							Prep Ty Prep Ba	•	
•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene, 1,1'-oxybis-	100	99.0		mg/Kg		99	68 - 120	1	20
1,1'-Biphenyl	100	83.6		mg/Kg		84	57 - 120	1	20

LCSD LCSD Surrogate %Recovery Qualifier Limits 60 - 138 n-Octacosane (Surr)

Lab Sample ID: 440-288353-1 MS

Matrix: Solid Analysis Batch: 178753									Prep Type: Total/NA Prep Batch: 178698	
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene, 1,1'-oxybis-	70		97.2	177		mg/Kg		110	68 - 120	_

1,1'-Biphenyl	11		97.2	90.9	mg/Kg	
	MS	MS				
Surrogate	%Recovery	Qualifier	l imits			

85

Lab Sample ID: 440-288353-1 MSD

n-Octacosane (Surr)

Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 178753									Prep Ba	atch: 1	<b>78698</b>
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene, 1,1'-oxybis-	70		94.0	172		mg/Kg		108	68 - 120	3	20
1,1'-Biphenyl	11		94.0	91.7		mg/Kg		86	57 - 120	1	20

60 - 138

**Eurofins Calscience Irvine** 

9/15/2021

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**Prep Batch: 178698** 

Client Sample ID: Lab Control Sample

83 57 - 120

Client Sample ID: Lab Control Sample Dup

82

57 - 120

Client Sample ID: BR SW #1

Client Sample ID: BR SW #1

# **QC Sample Results**

Client: FPL Energy Solar Partners III-VII, LLC

Job ID: 440-288353-1

Project/Site: Nextera - Kramer Junction

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

Lab Sample ID: 440-288353-1 MSD Matrix: Solid

**Analysis Batch: 178753** 

MSD MSD

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Client Sample ID: BR SW #1

**Prep Type: Total/NA** 

**Prep Batch: 178698** 

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# **QC Association Summary**

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

Job ID: 440-288353-1

# **GC Semi VOA**

## **Prep Batch: 178698**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288353-1	BR SW #1	Total/NA	Solid	3550C	
440-288353-2	BR SW #2	Total/NA	Solid	3550C	
MB 570-178698/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-178698/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-178698/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
440-288353-1 MS	BR SW #1	Total/NA	Solid	3550C	
440-288353-1 MSD	BR SW #1	Total/NA	Solid	3550C	

## **Analysis Batch: 178753**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288353-1	BR SW #1	Total/NA	Solid	8015B	178698
440-288353-2	BR SW #2	Total/NA	Solid	8015B	178698
MB 570-178698/1-A	Method Blank	Total/NA	Solid	8015B	178698
LCS 570-178698/2-A	Lab Control Sample	Total/NA	Solid	8015B	178698
LCSD 570-178698/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	178698
440-288353-1 MS	BR SW #1	Total/NA	Solid	8015B	178698
440-288353-1 MSD	BR SW #1	Total/NA	Solid	8015B	178698

**Eurofins Calscience Irvine** 

9/15/2021

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# **Definitions/Glossary**

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-288353-1

Project/Site: Nextera - Kramer Junction

**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)

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

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) Most Probable Number MPN 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

**Eurofins Calscience Irvine** 

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# **Accreditation/Certification Summary**

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

Job ID: 440-288353-1

# **Laboratory: Eurofins Calscience LLC**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
Arkansas DEQ	State	88-0161	11-19-21
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	SCAQMD LAP	17LA0919	11-30-21
California	State	2944	09-30-21
Guam	State	21-003R	06-22-22
Nevada	State	CA00111	07-31-22
Oregon	NELAP	CA300001	01-30-22
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

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# eurofins

# **Chain of Custody Record**

Eurofins Calscience Irvine 17461 Derian Ave Surte 100 Irvine, CA 92614-5817 Phone 949-374-4027	Chain of Custody Record	y Record		💸 eurofins	Envitonment Tes' ng America
Client Information (Sub Contract Lab)	Sampler	Lab PM: Fama, Sheri M	Carrier Tracking No(s):	COC No:	
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sheri Fama@Eurofinset.com	State of Origin California	Page: Page 1 of 1	
Company Eurofins Calscience LLC		Accreditations Required (See note): State Program - California	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Job #: 440-288353-1	
Address	Dis Date Demosted				

TIONE 343-201-1022 FAX. 343-200-323/					
Client Information (Sub Contract Lab)	Sampler	Lab	Lab PM: Fama, Sheri M	g No(s):	COC No 440-172942 1
Client Contact: Shipping/Receiving	Phone.	E-Ma She	E-Mail: Sheri Fama@Eurofinset.com	State of Origin California	Page: Page 1 of 1
Company Eurofins Calscience LLC			note): ia	No.	Job #: 440-288353-1
Address. 7440 Lincoln Way.	Due Date Requested: 9/14/2021		Analysis Reguested		Preservation Codes.
City Garden Grove	TAT Requested (days):				
State, Zip CA, 92841	<b>T</b>				C - ZJ Acetare C - ASNAUZ D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	PO#:				70
Email:	WO#;		(ON	S	
Project Name: Nextera Kramer Junction	Project #: 44005151		10 68	eniejr	K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Site: FPL Kramer Junction	SSOW#:		A) ası	0,001	Other:
Sample Identification - Client ID (Lab ID)	Sample Date Time 6	Sample Matrix Type (weverier Seconds) (C=Comp, co-wasteloit, G=crap)	be1e1ll∃ blei= M/≳M απο7те <sup>с</sup> eε∖ояа_ae≀os	Fotal Number	Snecial Instructions (Note
	X	180	X	X	
BR SW #1 (440-288353-1)	8/31/21 18:25 Pacific	Solid	×		Therminol
BR SW #2 (440-288353-2)	8/31/21 18 30 Pacific	Solid	×		Therminol
	5				
Note: Since laboratory accreditations are subject to change. Eurofins Calscience places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.	ce places the ownership of method and ix being analyzed the samples must be date, return the signed Chain of Custon	lyte & accreditation comp shipped back to the Euro by attesting to said compli	iance upon out subcontract laboratories. This sam fins Calscience laboratory or other instructions will rance to Eurofins Calscience.	ple shipment is forwarded under chair be provided Any changes to accredit	i-of-custody If the laboratory does not current ation status should be brought to Eurofins
Possible Hazard Identification			Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	assessed if samples are retain	retained longer than 1 month)
Deliverable Requested I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Requiren		
Empty Kit Kelinquished by:	Date.		Time	Method of Shipment:	
Relinquished by	Date/Time Off WO	Company	Received by Mul (Q	Date(Time:	Company Company
Relinquished by:	Dated Tiphe	Company	Received by	Date/fime:	
Refinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No		•	Cooler Temperature(s) °C and Other Remarks:	21/61	), c. s.
					Ver 06/08/2021

# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-288353-1

Login Number: 288353 List Source: Eurofins Calscience Irvine

List Number: 1

Creator: Lagunas, Jorge L

oroator. Lagariao, oorgo L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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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# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-288353-1

Login Number: 288353 List Source: Eurofins Calscience LLC List Number: 2 List Creation: 09/02/21 11:12 AM

Creator: Ortiz-Luis, Michael

oreator. Ortiz-Euro, infortaci		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817

Tel: (949)261-1022

Laboratory Job ID: 440-290241-1

Client Project/Site: Nextera-Kramer Junction

For:

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

Attn: Maria Lopez

Authorized for release by: 10/31/2021 12:38:05 PM

Sheri Fama, Project Manager I

(949)260-3274

Sheri.Fama@Eurofinset.com

·····LINKS ······

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

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

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

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# **Sample Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera-Kramer Junction

Lab Sample ID Client Sample ID Matrix Collected Received Segs III Center Section-10-17-21 440-290241-1 10/17/21 10:45 10/18/21 16:43 Solid

Job ID: 440-290241-1

#### **Case Narrative**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera-Kramer Junction

Job ID: 440-290241-1

Job ID: 440-290241-1

**Laboratory: Eurofins Calscience Irvine** 

**Narrative** 

Job Narrative 440-290241-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 10/18/2021 4:43 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2° C.

#### **Receipt Exceptions**

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

#### GC Semi VOA

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

#### **Organic Prep**

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

# **Client Sample Results**

Client: FPL Energy Solar Partners III-VII, LLC

Job ID: 440-290241-1

Project/Site: Nextera-Kramer Junction

Client Sample ID: Segs III Center Section-10-17-21 Lab Sample ID: 440-290241-1

Date Collected: 10/17/21 10:45

Date Received: 10/18/21 16:43

Method: 8015B - Diesel F	Range Organics (DRO) (GC	<b>&gt;</b> )				
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	23	5.2	mg/Kg	10/29/21 11:53	10/29/21 13:28	1
1,1'-Biphenyl	7.7	5.2	mg/Kg	10/29/21 11:53	10/29/21 13:28	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94	60 - 138		10/29/21 11:53	10/29/21 13:28	1

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# **Method Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera-Kramer Junction

Protocol Laboratory

Job ID: 440-290241-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
3550C	Ultrasonic Extraction	SW846	ECL 1

#### **Protocol References:**

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

#### **Laboratory References:**

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

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# **Lab Chronicle**

Client: FPL Energy Solar Partners III-VII, LLC

Job ID: 440-290241-1

Project/Site: Nextera-Kramer Junction

Client Sample ID: Segs III Center Section-10-17-21 Lab Sample ID: 440-290241-1

Date Collected: 10/17/21 10:45 Matrix: Solid

Date Received: 10/18/21 16:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.56 g	10 mL	190380	10/29/21 11:53	N5Y3	ECL 1
Total/NA	Analysis	8015B		1			190373	10/29/21 13:28	UJ3K	ECL 1

#### **Laboratory References:**

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

**Eurofins Calscience Irvine** 

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Job ID: 440-290241-1

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

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

Lab Sample ID: MB 570-190380/1-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 190373** 

**Analysis Batch: 190373** 

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 190380** 

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND	5.0	mg/Kg		10/29/21 11:53	10/29/21 13:02	1
1,1'-Biphenyl	ND	5.0	mg/Kg		10/29/21 11:53	10/29/21 13:02	1

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 100 60 - 138 10/29/21 11:53 10/29/21 13:02

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

**Prep Batch: 190380** 

Spike LCS LCS %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 68 - 120 Benzene, 1,1'-oxybis-100 82.2 mg/Kg 82 1,1'-Biphenyl 100 86.0 mg/Kg 86 57 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 60 - 138 90

Lab Sample ID: LCSD 570-190380/3-A

Lab Sample ID: LCS 570-190380/2-A

**Matrix: Solid** 

**Analysis Batch: 190373** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Batch: 190380

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene, 1,1'-oxybis-	100	86.4		mg/Kg		86	68 - 120	5	20
1,1'-Biphenyl	100	90.3		mg/Kg		90	57 - 120	5	20

LCSD LCSD

Surrogate %Recovery Qualifier Limits 60 - 138 n-Octacosane (Surr)

Lab Sample ID: 440-290241-1 MS

**Matrix: Solid** 

**Analysis Batch: 190373** 

Client Sample ID: Segs III Center Section-10-17-21

Prep Type: Total/NA Prep Batch: 190380

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Benzene, 1,1'-oxybis-23 97.8 109 88 68 - 120 mg/Kg 1,1'-Biphenyl 7.7 97.8 98.1 mg/Kg 92 57 - 120

MS MS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 100 60 - 138

Lab Sample ID: 440-290241-1 MSD

**Matrix: Solid** 

Analysis Batch: 190373

Client Sample ID: Segs III Center Section-10-17-21

Prep Type: Total/NA Prep Batch: 190380

Allalysis Dalcil. 1903/3									Fieh D	aton. 18	90300
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene, 1,1'-oxybis-	23		101	116		mg/Kg		92	68 - 120	6	20
1,1'-Biphenyl	7.7		101	104		mg/Kg		95	57 - 120	5	20

**Eurofins Calscience Irvine** 

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10/31/2021

# **QC Sample Results**

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-290241-1

Project/Site: Nextera-Kramer Junction

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

Client Sample ID: Segs III Center Section-10-17-21 Lab Sample ID: 440-290241-1 MSD **Matrix: Solid** 

**Analysis Batch: 190373** 

MSD MSD

%Recovery Qualifier Limits Surrogate n-Octacosane (Surr) 95 60 - 138

**Prep Type: Total/NA** 

Prep Batch: 190380

# **QC Association Summary**

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-290241-1

Project/Site: Nextera-Kramer Junction

# GC Semi VOA

## **Analysis Batch: 190373**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-290241-1	Segs III Center Section-10-17-21	Total/NA	Solid	8015B	190380
MB 570-190380/1-A	Method Blank	Total/NA	Solid	8015B	190380
LCS 570-190380/2-A	Lab Control Sample	Total/NA	Solid	8015B	190380
LCSD 570-190380/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	190380
440-290241-1 MS	Segs III Center Section-10-17-21	Total/NA	Solid	8015B	190380
440-290241-1 MSD	Segs III Center Section-10-17-21	Total/NA	Solid	8015B	190380

## **Prep Batch: 190380**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-290241-1	Segs III Center Section-10-17-21	Total/NA	Solid	3550C	
MB 570-190380/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-190380/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-190380/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
440-290241-1 MS	Segs III Center Section-10-17-21	Total/NA	Solid	3550C	
440-290241-1 MSD	Segs III Center Section-10-17-21	Total/NA	Solid	3550C	

# **Definitions/Glossary**

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-290241-1

Project/Site: Nextera-Kramer Junction

# 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

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

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# **Accreditation/Certification Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera-Kramer Junction

Job ID: 440-290241-1

# **Laboratory: Eurofins Calscience LLC**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
California	State	2944	09-30-22

DSTAMONICAL STANDARD TO STANDA	THE LEADER IN ENVIRONMENTAL RESINGS TESTAMERICA LABORATORIES, Inc. 29624/ TAL-8210 (0713)	COC No:	Sampler	For Lab Use Only:	Walk-in Client:	Lab Sampling	Job / SDG No		Sample Specific Notes.			12	/ 3	? <i>!!!</i>	7					samples are retained longer than 1 month)	Months	(	Therm ID No	Date/Time:	Date/Time	Date/Time /21 1643		1 2 3 4 5
cord 206330		Date: 10-13-7	l carrier.														440-290241 Chain of Custody			e may be assessed if samples are retali	Disposal by Lab		(°C) Obsid: 1.2	Company:	Company:	Company IX		7 8 9 10 11
Chain of Custody Record	NPDE	Site Confact:		DAYS CAN		ノ(N)	<b>} / P</b> OSW	N/SV dwe	ri o p o Filtered S Perform M	X ( INM(X										Sample Disposal ( A fee may be assessed if the sample in the	Return to Client		Cooler Temp	Date/Time Received by Of W	Date/Time Received by:	Date/Time Received in Laborato	3	13
	Regulatory Program Dow	Project Manager   Marx   102	Tell-ax Ansheie Turnaround Time		from Bek	2 weeks	1 week	[ ] 1 day	Sample Type (C=Comp.) Date Time G=Gmb) Matrix	10-17-4 1045 6 GM							minutation to the state of the		: 5=NaOH, 6= Other	te Codes for	☐ Poison B Unknown	THE PARTY OF THE P	Custody Seal No	Company Date Date		Company Date		
TESTAMETICS TIVING Suite 100 suite 100	Irvine, CA 92614 Phone 949 261 1022 Fax	Client Contact	Z I	Christate/Zin Dan A 2 2 2 L	Phone:		Site:	PO#	Sample Identification	Sest Ul Centur Seation -10-17-21			22age	13	of 4	6			Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH, 6= Other	Possible Hazard Identification Are any samples from a listed PHA Hazardous Waste? Please List any EPA Waste Codes for Common State Codes for Cod	Non-Hazard Flammable Skin Irritant	tions/QC	Custod/Seals Infatt: /     Yes   No	ML	Relinquished by:	騰elinquished by: S	21	

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone 949-261-1022 Fax: 949-260-3297

**Chain of Custody Record** 

eurofins Environment Testing America

Client Information (Sub Contract Lab)	oampier	Lab PM: Fama, Sheri M	Carrier Tracking No(s):	COC No: 440-174533 1
Client Contact: Shipping/Receiving	Phone:	E-Mail·	State of Origin	Page
Company		Shen Fama@Eurotinset.com	California	Page 1 of 1
Eurofins Calscience LLC		Accreditations Required (See note): State - California, State Program - California	California	Job #: 440-290241-1
Address. 7440 Lincoln Way, ,	Due Date Requested: 10/29/2021	Analysis	Analysis Requested	ŏ
City Garden Grove	TAT Requested (days):			
State Zip State Zip CA, 92841	-			C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 O - Na2SO3
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	PO#			
Email:	WO#:	(on	£	- Ascorbic Acid Ice - Di Water
Project Name: Nextera Kramer Junction	Project #: 44005151	10 66	ienis)	
Site: FPL Kramer Junction	SSOW#:	A) asi	of con	Other .
Sample Identification - Client ID (Lah ID)	Sample Date Time G=crush) or	Matrix (Wareter Sesoid Sesoid Filtered Coveration). 1610 Filtered Sesoid	TedmuV (670	Once in lands and lands
	Preserva	X		Special manacatorismore.
Seg III Center Section-10-17-21 (440-290241-1)	10/17/21 10.45 Pacific	Solid		Therminol
Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This samples thin method is a constitution of the laboratory of the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately if all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.	se places the ownership of method, analyte & accred x being analyzed, the samples must be shipped bac date, return the signed Chain of Custody attesting to	sitation compliance upon out subcontract laboratories. Thi kt the Eurofins Calscience laboratory or other instruction said complicance to Eurofins Calscience.	iis sample shipment is forwarded under chain ins will be provided. Any changes to accredite	of-custody If the laboratory does not currently tion status should be brought to Eurofins
Possible Hazard Identification Unconfirmed		Sample Disposal ( A fee may	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  Return To Client  Disposal By Lab  Mont	d longer than 1 month)
Deliverable Requested 1, II, III, IV, Other (specify)	Primary Deliverable Rank. 2	Special Instructions/QC Requirements		
Eppety-KityRelinquished-by	Date:	Time	Method of Shipment:	
Relinquished by CLS	76/2/ 18:35	EO MO Received WX	Date/Time:	18:25 Company
Reimquistre	हीं १९१८	มี	4 Date/Type: 1	1921S Company
ſ	Date/Time	Company Received by:	Date(Fime: /	Сотрапу
Custody Seals Intact: Custody Seal No. Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	ner Remarks: 8.4/3,3	
		2 3× 3×		Ver. 06/08/2021

# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-290241-1

Login Number: 290241 List Source: Eurofins Calscience Irvine

List Number: 1

Creator: Escalante, Maria I

Creator: Escalante, Maria I		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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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# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-290241-1

List Number: 290241 List Source: Eurofins Calscience LLC
List Number: 2 List Creation: 10/18/21 09:48 PM

Creator: Le, Danny

Creator: Le, Danny		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	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	3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 440-292395-1

Client Project/Site: Nextera Kramer Junction

For:

FPL Energy Solar Partners III-VII, LLC 43880 Harper Lake Rd Hinkley, California 92347

Attn: Maria Lopez

Authorized for release by: 12/20/2021 4:15:04 PM

Sheri Fama, Project Manager I (949)261-1022

Sheri.Fama@Eurofinset.com

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

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

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

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# **Sample Summary**

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-292395-1	MW-1-12-4-21	Water	12/04/21 10:40	12/06/21 09:46
440-292395-2	MW-2-12-4-21	Water	12/04/21 12:40	12/06/21 09:46
440-292395-3	MW-3-12-4-21	Water	12/04/21 15:00	12/06/21 09:46
440-292395-4	MW-4-12-4-21	Water	12/04/21 15:50	12/06/21 09:46
440-292395-5	DUP-12-4-21	Water	12/04/21 00:01	12/06/21 09:46
440-292395-6	LF@6'-12-4-21	Solid	12/04/21 09:10	12/06/21 09:46

Job ID: 440-292395-1

#### **Case Narrative**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Job ID: 440-292395-1

Job ID: 440-292395-1

**Laboratory: Eurofins Calscience Irvine** 

Narrative

Job Narrative 440-292395-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 12/6/2021 9:46 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° C.

#### Receipt Exceptions

The following samples were received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time for Phosphate by 300: MW-1-12-4-21 (440-292395-1) and DUP-12-4-21 (440-292395-5).

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-1-12-4-21 (440-292395-1) and DUP-12-4-21 (440-292395-5).

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

Method 3005A: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: MW-1-12-4-21 (440-292395-1), MW-2-12-4-21 (440-292395-2), MW-3-12-4-21 (440-292395-3), MW-4-12-4-21 (440-292395-4) and DUP-12-4-21 (440-292395-5). 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 on 12/13/21 @ 10:50 hours 1:1 HNO3 Reagent # 6786894

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**

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

Eurofins Calscience Irvine 12/20/2021

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**Matrix: Water** 

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

Lab Sample ID: 440-292395-1 Client Sample ID: MW-1-12-4-21

Date Collected: 12/04/21 10:40 **Matrix: Water** 

Date Received: 12/06/21 09:46

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		100	ug/L		12/09/21 16:53	12/16/21 17:36	1
1,1'-Biphenyl	ND		100	ug/L		12/09/21 16:53	12/16/21 17:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	54		53 - 151			12/09/21 16:53	12/16/21 17:36	1
Method: 300.0 - Anions,	lon Chromatogra	phy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as PO4	ND	H H3	0.50	mg/L			12/06/21 13:30	1
Analyte Chloride	Result 300	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 300.0 - Anions, Analyte	_		RL	Unit	D	Prepared	Analyzed	Dil Fac
	300		25	mg/L			12/06/21 15:12	50
Sulfate	340		25 25	mg/L mg/L			12/06/21 15:12 12/06/21 15:12	
	340 (ICP) - Total Reco	overable Qualifier		•	D	Prepared		50 50
Sulfate Method: 6010B - Metals	340 (ICP) - Total Reco		25	mg/L	D	Prepared 12/14/21 10:54	12/06/21 15:12	50 50
Sulfate Method: 6010B - Metals ( Analyte	340 (ICP) - Total Recc Result		25 <b>RL</b>	mg/L <b>Unit</b>	<u>D</u>	12/14/21 10:54	12/06/21 15:12  Analyzed	50
Sulfate  Method: 6010B - Metals ( Analyte Potassium	340 (ICP) - Total Reco Result 12		25  RL 1.0	mg/L  Unit  mg/L	<u>D</u>	12/14/21 10:54	12/06/21 15:12  Analyzed 12/15/21 12:25	50 50 <b>Dil Fac</b>
Sulfate  Method: 6010B - Metals ( Analyte  Potassium Sodium	340 (ICP) - Total Reco Result 12 370		25  RL 1.0	mg/L  Unit  mg/L	<u>D</u>	12/14/21 10:54	12/06/21 15:12  Analyzed 12/15/21 12:25	50 50 <b>Dil Fac</b>

Client Sample ID: MW-2-12-4-21 Lab Sample ID: 440-292395-2

Date Collected: 12/04/21 12:40 Date Received: 12/06/21 09:46

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		99	ug/L		12/09/21 16:53	12/16/21 18:04	1
1,1'-Biphenyl	ND		99	ug/L		12/09/21 16:53	12/16/21 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	65		53 - 151			12/09/21 16:53	12/16/21 18:04	1
_ Method: 300.0 - Anions	, Ion Chromatogra	phy						
Method: 300.0 - Anions Analyte	•	ı <mark>phy</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	KL	Unit	D	Prepared	Anaiyzed	DII Fac	
Chloride	290	25	mg/L			12/06/21 15:30	50	
Orthophosphate as PO4	ND	0.50	mg/L			12/06/21 12:19	1	
Sulfate	240	25	mg/L			12/06/21 15:30	50	
_								

Method: 6010B - Metals (I	CP) - Total Recoverable						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	5.9	1.0	mg/L		12/14/21 10:54	12/15/21 12:28	1
Sodium	340	1.0	mg/L		12/14/21 10:54	12/15/21 12:28	1

General Chemistry Analyte	Result Qualifier	RL	<u>Unit</u>	<u>D</u> .	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100	20	mg/L			12/08/21 10:40	1

**Eurofins Calscience Irvine** 

12/20/2021

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

Client Sample ID: MW-3-12-4-21

Lab Sample ID: 440-292395-3

Date Collected: 12/04/21 15:00 **Matrix: Water** 

Date Received: 12/06/21 09:46

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		97	ug/L		12/09/21 16:53	12/16/21 18:30	1
1,1'-Biphenyl	ND		97	ug/L		12/09/21 16:53	12/16/21 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	70		53 - 151			12/09/21 16:53	12/16/21 18:30	1
Method: 300.0 - Anions, I	on Chromatogra	nhv						
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		25	mg/L			12/06/21 15:47	50
Orthophosphate as PO4	ND		0.50	mg/L			12/06/21 12:55	1
Sulfate	220		25	mg/L			12/06/21 15:47	50
Method: 6010B - Metals (	ICP) - Total Reco	overable						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	5.8		1.0	mg/L		12/14/21 10:54	12/15/21 12:30	1
Sodium	280		1.0	mg/L		12/14/21 10:54	12/15/21 12:30	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		10	mg/L			12/08/21 10:40	1

Client Sample ID: MW-4-12-4-21

Date Collected: 12/04/21 15:50

Date Received: 12/06/21 09:46

**Total Dissolved Solids** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		98	ug/L		12/09/21 16:53	12/16/21 18:57	1
1,1'-Biphenyl	ND		98	ug/L		12/09/21 16:53	12/16/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	73		53 - 151			12/09/21 16:53	12/16/21 18:57	1
- Method: 300.0 - Anions, Id	on Chromatogra	vhq						
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		25	mg/L			12/06/21 16:05	50
Orthophosphate as PO4	ND		0.50	mg/L			12/06/21 13:12	1
Sulfate	200		25	mg/L			12/06/21 16:05	50
- Method: 6010B - Metals (I	CP) - Total Reco	verable						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	5.6		1.0	mg/L		12/14/21 10:54	12/15/21 12:32	1
Sodium	250		1.0	mg/L		12/14/21 10:54	12/15/21 12:32	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

12/08/21 10:40

Lab Sample ID: 440-292395-4

**Matrix: Water** 

10

mg/L

# **Client Sample Results**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Client Sample ID: DUP-12-4-21

Date Collected: 12/04/21 00:01

Date Received: 12/06/21 09:46

Lab Sample ID: 440-292395-5

Lab Sample ID: 440-292395-6

<u>12/16/21 13:54</u> <u>12/16/21 22:32</u>

**Matrix: Solid** 

Job ID: 440-292395-1

Campio	 110		
	M	atrix:	Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		99	ug/L		12/09/21 16:53	12/16/21 19:24	1
1,1'-Biphenyl	ND		99	ug/L		12/09/21 16:53	12/16/21 19:24	1
			1.5			Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			riepaieu	Allalyzeu	DII Fac
n-Octacosane (Surr)	68		53 - 151			12/09/21 16:53	12/16/21 19:24	DII Fac
	68 Ion Chromatogra			Unit	D			1
n-Octacosane (Surr) Method: 300.0 - Anions,	68 Ion Chromatogra	phy	53 - 151	Unit mg/L	<u>D</u>	12/09/21 16:53	12/16/21 19:24	Dil Fac
n-Octacosane (Surr) Method: 300.0 - Anions, Analyte	lon Chromatogra Result 300	phy	53 - 151		<u>D</u>	12/09/21 16:53	12/16/21 19:24  Analyzed	Dil Fac

Method: 6010B - Meta	Method: 6010B - Metals (ICP) - Total Recoverable											
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac					
Potassium	12	1.0	mg/L		12/14/21 10:54	12/15/21 12:35	1					
Sodium	360	1.0	mg/L		12/14/21 10:54	12/15/21 12:35	1					

<b>General Chemistry</b>								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		20	mg/L			12/08/21 10:40	1

Client Sample ID: LF@6'-12-4-21

Date Collected: 12/04/21 09:10 Date Received: 12/06/21 09:46

n-Octacosane (Surr)

Date Received. 12/00/21	00.40										
Method: 8015B - Diesel Range Organics (DRO) (GC)											
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac					
Benzene, 1,1'-oxybis-	ND ND	4.8	mg/Kg	12/16/21 13:5	4 12/16/21 22:32	1					
1,1'-Biphenyl	ND	4.8	mg/Kg	12/16/21 13:5	4 12/16/21 22:32	1					
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac					

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# **Method Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
300.0	Anions, Ion Chromatography	MCAWW	IRV 1
6010B	Metals (ICP)	SW846	IRV 1
SM 2540C	Solids, Total Dissolved (TDS)	SM	IRV 1
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	IRV 1
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1
3550C	Ultrasonic Extraction	SW846	ECL 1

#### **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:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 IRV 1 = Eurofins Calscience Irvine, 17461 Derian Ave, Irvine, CA 92614, TEL (949)261-1022

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**Eurofins Calscience Irvine** 

12/20/2021

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Job ID: 440-292395-1

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Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Client Sample ID: MW-1-12-4-21

Date Collected: 12/04/21 10:40 Date Received: 12/06/21 09:46 Lab Sample ID: 440-292395-1

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			249.2 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 17:36	N5Y3	ECL 1
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	662287	12/06/21 13:30	PS	IRV 1
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	662288	12/06/21 13:30	PS	IRV 1
Total/NA	Analysis	300.0	DL	50	5 mL	1.0 mL	662288	12/06/21 15:12	PS	IRV 1
Total Recoverable	Prep	3005A			25 mL	25 mL	662889	12/14/21 10:54	LZY7	IRV 1
Total Recoverable	Analysis	6010B		1			663001	12/15/21 12:25	VZ0K	IRV 1
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	662384	12/08/21 10:40	VY3D	IRV 1

Lab Sample ID: 440-292395-2 Client Sample ID: MW-2-12-4-21

Date Collected: 12/04/21 12:40

Date Received: 12/06/21 09:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			252.2 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 18:04	N5Y3	ECL 1
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	662287	12/06/21 12:19	PS	IRV 1
Total/NA	Analysis	300.0		50	5 mL	1.0 mL	662288	12/06/21 15:30	PS	IRV 1
Total Recoverable	Prep	3005A			25 mL	25 mL	662889	12/14/21 10:54	LZY7	IRV 1
Total Recoverable	Analysis	6010B		1			663001	12/15/21 12:28	VZ0K	IRV 1
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	662384	12/08/21 10:40	VY3D	IRV 1

Client Sample ID: MW-3-12-4-21

Date Collected: 12/04/21 15:00

Date Received: 12/06/21 09:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			257.6 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 18:30	N5Y3	ECL 1
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	662287	12/06/21 12:55	PS	IRV 1
Total/NA	Analysis	300.0		50	5 mL	1.0 mL	662288	12/06/21 15:47	PS	IRV 1
Total Recoverable	Prep	3005A			25 mL	25 mL	662889	12/14/21 10:54	LZY7	IRV 1
Total Recoverable	Analysis	6010B		1			663001	12/15/21 12:30	VZ0K	IRV 1
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	662384	12/08/21 10:40	VY3D	IRV 1

Client Sample ID: MW-4-12-4-21

Date Collected: 12/04/21 15:50

Date Received: 12/06/21 09:46

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			254.8 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 18:57	N5Y3	ECL 1
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	662287	12/06/21 13:12	PS	IRV 1
Total/NA	Analysis	300.0		50	5 mL	1.0 mL	662288	12/06/21 16:05	PS	IRV 1

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Lab Sample ID: 440-292395-4

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Lab Sample ID: 440-292395-3 **Matrix: Water** 

**Matrix: Water** 

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**Matrix: Water** 

#### **Lab Chronicle**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Client Sample ID: MW-4-12-4-21

Date Collected: 12/04/21 15:50

Date Received: 12/06/21 09:46

Lab Sample ID: 440-292395-4

Matrix: Water

Job ID: 440-292395-1

Batch Batch Dil Initial Batch Final Prepared Method Factor Number or Analyzed **Prep Type** Type Run **Amount** Amount Analyst Lab Total Recoverable 3005A 25 mL 662889 12/14/21 10:54 LZY7 IRV 1 Prep 25 mL Total Recoverable 6010B 663001 12/15/21 12:32 VZ0K IRV 1 Analysis 1 Total/NA Analysis SM 2540C 1 100 mL 100 mL 662384 12/08/21 10:40 VY3D IRV 1

Client Sample ID: DUP-12-4-21 Lab Sar

Date Collected: 12/04/21 00:01 Date Received: 12/06/21 09:46 Lab Sample ID: 440-292395-5 Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			253.6 mL	2.5 mL	199934	12/09/21 16:53	UFLU	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 19:24	N5Y3	ECL 1
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	662287	12/06/21 12:37	PS	IRV 1
Total/NA	Analysis	300.0		50	5 mL	1.0 mL	662288	12/06/21 16:23	PS	IRV 1
Total Recoverable	Prep	3005A			25 mL	25 mL	662889	12/14/21 10:54	LZY7	IRV 1
Total Recoverable	Analysis	6010B		1			663001	12/15/21 12:35	VZ0K	IRV 1
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	662384	12/08/21 10:40	VY3D	IRV 1

Client Sample ID: LF@6'-12-4-21

Date Collected: 12/04/21 09:10

Date Received: 12/06/21 09:46

Lab Sample	ID: 440-292395-6
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Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.32 g	10 mL	201605	12/16/21 13:54	KG5J	ECL 1
Total/NA	Analysis	8015B		1			201522	12/16/21 22:32	N5Y3	ECL 1

#### **Laboratory References:**

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

IRV 1 = Eurofins Calscience Irvine Irvine, 17461 Derian Ave, Irvine, CA 92614, TEL (949)261-1022

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Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

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

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

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

**Matrix: Water** 

**Matrix: Water** 

**Analysis Batch: 201522** 

**Analysis Batch: 201522** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 199934

	1410 14							
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND	1	00	ug/L		12/09/21 16:53	12/16/21 10:34	1
1,1'-Biphenyl	ND	1	00	ug/L		12/09/21 16:53	12/16/21 10:34	1

MB MB

MD MD

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 71 53 - 151 12/09/21 16:53 12/16/21 10:34

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199934

Spike LCS LCS %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 57 - 120 Benzene, 1,1'-oxybis-1000 751 ug/L 75 1,1'-Biphenyl 1000 787 79 45 - 120 ug/L

53 - 151

LCS LCS Surrogate %Recovery Qualifier Limits

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

**Matrix: Water** 

n-Octacosane (Surr)

**Analysis Batch: 201522** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Batch: 199934

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene, 1,1'-oxybis-	1000	765		ug/L		77	57 - 120	2	20
1,1'-Biphenyl	1000	803		ug/L		80	45 - 120	2	20

LCSD LCSD

75

Surrogate %Recovery Qualifier Limits 53 - 151 n-Octacosane (Surr)

Lab Sample ID: MB 570-201605/1-A

**Matrix: Solid** 

**Analysis Batch: 201522** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA **Prep Batch: 201605** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		5.0	mg/Kg		12/16/21 13:54	12/16/21 20:18	1
1,1'-Biphenyl	ND		5.0	mg/Kg		12/16/21 13:54	12/16/21 20:18	1

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 62 60 - 138 <u>12/16/21 13:54</u> <u>12/16/21 20:18</u>

Lab Sample ID: LCS 570-201605/2-A

**Matrix: Solid** 

**Analysis Batch: 201522** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 201605** 

LCS LCS Spike %Rec. Result Qualifier Added Unit Limits Analyte D %Rec Benzene, 1,1'-oxybis-68 - 120 100 84.6 mg/Kg 85 1,1'-Biphenyl 100 88.9 mg/Kg 57 - 120

**Eurofins Calscience Irvine** 

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Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

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

Lab Sample ID: LCS 570-201605/2-A

Lab Sample ID: LCSD 570-201605/3-A

**Matrix: Solid** 

**Analysis Batch: 201522** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 201605** 

LCS LCS

%Recovery Qualifier Limits Surrogate n-Octacosane (Surr) 69 60 - 138

Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 201522** 

Prep Type: Total/NA

**Prep Batch: 201605** %Rec. **RPD** 

Spike LCSD LCSD Added Limits RPD Limit Analyte Result Qualifier Unit D %Rec Benzene, 1,1'-oxybis-100 84.3 mg/Kg 84 68 - 120 0 20 mg/Kg 1,1'-Biphenyl 100 88.5 89 57 - 120 0 20

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 68 60 - 138

Lab Sample ID: 440-292395-6 MS Client Sample ID: LF@6'-12-4-21

**Matrix: Solid** 

**Analysis Batch: 201522** 

Prep Type: Total/NA

**Prep Batch: 201605** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Limits Analyte Result Qualifier Unit %Rec ND 102 85.0 84 68 - 120 Benzene, 1,1'-oxybismg/Kg ND 1,1'-Biphenyl 102 89.3 88 mg/Kg 57 - 120

MS MS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 70 60 - 138

Lab Sample ID: 440-292395-6 MSD Client Sample ID: LF@6'-12-4-21

**Matrix: Solid** 

**Analysis Batch: 201522** 

Prep Type: Total/NA

**Prep Batch: 201605** 

MSD MSD **RPD** Spike %Rec. Sample Sample Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit **Analyte** ND 98.5 82 68 - 120 5 20 Benzene, 1,1'-oxybis-81 1 mg/Kg 1,1'-Biphenyl ND 98.5 85.2 mg/Kg 86 57 - 1205 20

MSD MSD

Surrogate %Recovery Qualifier Limits 60 - 138 n-Octacosane (Surr) 68

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-662287/6

**Matrix: Water** 

**Analysis Batch: 662287** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

MB MB

Unit Result Qualifier RL Prepared Analyzed Dil Fac Orthophosphate as PO4  $\overline{\mathsf{ND}}$ 0.50 mg/L 12/06/21 11:57

**Eurofins Calscience Irvine** 

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

Lab Sample ID: LCS 440-662287/5

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: Lab Control Sample

**Matrix: Water** Prep Type: Total/NA **Analysis Batch: 662287** 

Spike LCS LCS %Rec. Added Result Qualifier %Rec Limits Analyte Unit D Orthophosphate as PO4 5.00 4.98 mg/L 100 90 - 110

Lab Sample ID: 440-292395-1 MS Client Sample ID: MW-1-12-4-21

**Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 662287** Sample Sample Spike MS MS %Rec.

Result Qualifier Added Result Qualifier Unit %Rec Limits D 5.00 Orthophosphate as PO4 ND HH3 5.31 mg/L 106 80 - 120

Lab Sample ID: 440-292395-1 MSD Client Sample ID: MW-1-12-4-21

**Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 662287** Sample Sample Spike MSD MSD %Rec. **RPD** 

Result Qualifier Added Result Qualifier Limits **RPD** Analyte Unit %Rec Limit Orthophosphate as PO4 ND H H3 5.00 5.69 80 - 120 20 mg/L

Lab Sample ID: MB 440-662288/6 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA** 

**Analysis Batch: 662288** 

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac  $\overline{\mathsf{ND}}$ 0.50 Chloride mg/L 12/06/21 11:57 Sulfate ND 0.50 12/06/21 11:57 mg/L

Lab Sample ID: LCS 440-662288/5 Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 662288** 

Spike LCS LCS %Rec. **Analyte** Added Result Qualifier Unit D %Rec Limits Chloride 5.00 4 81 mg/L 96 90 - 110 Sulfate 5.00 5.01 100 90 - 110 mg/L

Lab Sample ID: 440-292395-1 MS Client Sample ID: MW-1-12-4-21 **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 662288** 

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Chloride 420 E 5.00 429 E 4 77 80 - 120 mg/L Sulfate 460 E 5.00 463 E 4 81 80 - 120 mg/L

Lab Sample ID: 440-292395-1 MSD Client Sample ID: MW-1-12-4-21

**Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 662288** 

Spike MSD MSD %Rec. **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 420 E 429 E 4 Chloride 5.00 mg/L 83 80 - 120 20 Sulfate 460 E 5.00 464 E 4 mg/L 90 80 - 120 O 20

**Eurofins Calscience Irvine** 

12/20/2021

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-662889/1-A

Lab Sample ID: LCS 440-662889/2-A

**Matrix: Water** 

**Matrix: Water** 

**Analysis Batch: 662923** 

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

Prep Batch: 662889

Result Qualifier RL Unit Prepared Analyzed Dil Fac Analyte Potassium ND 1.0 mg/L 12/14/21 10:54 12/14/21 15:49 Sodium ND 1.0 mg/L 12/14/21 10:54 12/14/21 15:49

> **Client Sample ID: Lab Control Sample Prep Type: Total Recoverable**

**Prep Batch: 662889** 

**Analysis Batch: 662923** Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Potassium 10.0 10.4 mg/L 104 80 - 120 10.0 10.7 107 80 - 120 Sodium mg/L

Lab Sample ID: 440-292819-O-1-B MS **Client Sample ID: Matrix Spike Matrix: Water Prep Type: Total Recoverable** 

**Analysis Batch: 662923 Prep Batch: 662889** Sample Sample Spike MS MS %Rec.

Result Qualifier Added Result Qualifier Limits Analyte D %Rec Unit Potassium 1.8 10.0 12.0 103 75 - 125 mg/L Sodium 210 10.0 217 4 112 75 - 125 mg/L

Lab Sample ID: 440-292819-O-1-C MSD

**Matrix: Water** 

**Analysis Batch: 662923** 

**Client Sample ID: Matrix Spike Duplicate Prep Type: Total Recoverable Prep Batch: 662889** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Potassium	1.8		10.0	12.3		mg/L		105	75 - 125	2	20
Sodium	210		10.0	218	4	mg/L		127	75 - 125	1	20

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

Lab Sample ID: MB 440-662384/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 662384** 

MB MB

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **Total Dissolved Solids**  $\overline{\mathsf{ND}}$ 10 mg/L 12/08/21 09:10

Lab Sample ID: LCS 440-662384/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 662384** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Dissolved Solids 1000 976 mg/L 90 - 110

Lab Sample ID: 440-292395-1 DU Client Sample ID: MW-1-12-4-21 Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 662384

DU DU RPD Sample Sample RPD Analyte Result Qualifier Result Qualifier Unit Limit Total Dissolved Solids 1200 1240 mg/L

**Eurofins Calscience Irvine** 

# **QC Association Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

#### Job ID: 440-292395-1

# **GC Semi VOA**

#### **Prep Batch: 199934**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-292395-1	MW-1-12-4-21	Total/NA	Water	3510C	
440-292395-2	MW-2-12-4-21	Total/NA	Water	3510C	
440-292395-3	MW-3-12-4-21	Total/NA	Water	3510C	
440-292395-4	MW-4-12-4-21	Total/NA	Water	3510C	
440-292395-5	DUP-12-4-21	Total/NA	Water	3510C	
MB 570-199934/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-199934/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-199934/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

#### **Analysis Batch: 201522**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-292395-1	MW-1-12-4-21	Total/NA	Water	8015B	199934
440-292395-2	MW-2-12-4-21	Total/NA	Water	8015B	199934
440-292395-3	MW-3-12-4-21	Total/NA	Water	8015B	199934
440-292395-4	MW-4-12-4-21	Total/NA	Water	8015B	199934
440-292395-5	DUP-12-4-21	Total/NA	Water	8015B	199934
440-292395-6	LF@6'-12-4-21	Total/NA	Solid	8015B	201605
MB 570-199934/1-A	Method Blank	Total/NA	Water	8015B	199934
MB 570-201605/1-A	Method Blank	Total/NA	Solid	8015B	201605
LCS 570-199934/2-A	Lab Control Sample	Total/NA	Water	8015B	199934
LCS 570-201605/2-A	Lab Control Sample	Total/NA	Solid	8015B	201605
LCSD 570-199934/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	199934
LCSD 570-201605/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	201605
440-292395-6 MS	LF@6'-12-4-21	Total/NA	Solid	8015B	201605
440-292395-6 MSD	LF@6'-12-4-21	Total/NA	Solid	8015B	201605

#### **Prep Batch: 201605**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-292395-6	LF@6'-12-4-21	Total/NA	Solid	3550C	<del></del>
MB 570-201605/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-201605/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-201605/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
440-292395-6 MS	LF@6'-12-4-21	Total/NA	Solid	3550C	
440-292395-6 MSD	LF@6'-12-4-21	Total/NA	Solid	3550C	

# HPLC/IC

#### **Analysis Batch: 662287**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-292395-1	MW-1-12-4-21	Total/NA	Water	300.0	
440-292395-2	MW-2-12-4-21	Total/NA	Water	300.0	
440-292395-3	MW-3-12-4-21	Total/NA	Water	300.0	
440-292395-4	MW-4-12-4-21	Total/NA	Water	300.0	
440-292395-5	DUP-12-4-21	Total/NA	Water	300.0	
MB 440-662287/6	Method Blank	Total/NA	Water	300.0	
LCS 440-662287/5	Lab Control Sample	Total/NA	Water	300.0	
440-292395-1 MS	MW-1-12-4-21	Total/NA	Water	300.0	
440-292395-1 MSD	MW-1-12-4-21	Total/NA	Water	300.0	

# **QC Association Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

# HPLC/IC

#### Analysis Batch: 662288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-292395-1	MW-1-12-4-21	Total/NA	Water	300.0	
440-292395-1 - DL	MW-1-12-4-21	Total/NA	Water	300.0	
440-292395-2	MW-2-12-4-21	Total/NA	Water	300.0	
440-292395-3	MW-3-12-4-21	Total/NA	Water	300.0	
440-292395-4	MW-4-12-4-21	Total/NA	Water	300.0	
440-292395-5	DUP-12-4-21	Total/NA	Water	300.0	
MB 440-662288/6	Method Blank	Total/NA	Water	300.0	
LCS 440-662288/5	Lab Control Sample	Total/NA	Water	300.0	
440-292395-1 MS	MW-1-12-4-21	Total/NA	Water	300.0	
440-292395-1 MSD	MW-1-12-4-21	Total/NA	Water	300.0	

#### **Metals**

#### **Prep Batch: 662889**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-292395-1	MW-1-12-4-21	Total Recoverable	Water	3005A	<u> </u>
440-292395-2	MW-2-12-4-21	Total Recoverable	Water	3005A	
440-292395-3	MW-3-12-4-21	Total Recoverable	Water	3005A	
440-292395-4	MW-4-12-4-21	Total Recoverable	Water	3005A	
440-292395-5	DUP-12-4-21	Total Recoverable	Water	3005A	
MB 440-662889/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-662889/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-292819-O-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-292819-O-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

#### **Analysis Batch: 662923**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-662889/1-A	Method Blank	Total Recoverable	Water	6010B	662889
LCS 440-662889/2-A	Lab Control Sample	Total Recoverable	Water	6010B	662889
440-292819-O-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	662889
440-292819-O-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	662889

#### **Analysis Batch: 663001**

Lab Sample ID 440-292395-1	Client Sample ID  MW-1-12-4-21	Prep Type  Total Recoverable	Matrix Water	Method 6010B	Prep Batch 662889
440-292395-2	MW-2-12-4-21	Total Recoverable	Water	6010B	662889
440-292395-3	MW-3-12-4-21	Total Recoverable	Water	6010B	662889
440-292395-4	MW-4-12-4-21	Total Recoverable	Water	6010B	662889
440-292395-5	DUP-12-4-21	Total Recoverable	Water	6010B	662889

# **General Chemistry**

#### Analysis Batch: 662384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-292395-1	MW-1-12-4-21	Total/NA	Water	SM 2540C	
440-292395-2	MW-2-12-4-21	Total/NA	Water	SM 2540C	
440-292395-3	MW-3-12-4-21	Total/NA	Water	SM 2540C	
440-292395-4	MW-4-12-4-21	Total/NA	Water	SM 2540C	
440-292395-5	DUP-12-4-21	Total/NA	Water	SM 2540C	
MB 440-662384/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-662384/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-292395-1 DU	MW-1-12-4-21	Total/NA	Water	SM 2540C	

**Eurofins Calscience Irvine** 

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Job ID: 440-292395-1

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# **Definitions/Glossary**

Client: FPL Energy Solar Partners III-VII, LLC Job ID: 440-292395-1

Project/Site: Nextera Kramer Junction

#### **Qualifiers**

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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.

H Sample was prepped or analyzed beyond the specified holding time

H3 Sample was received and analyzed past holding time.

**Metals** 

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)

MCI EPA recommended "Maximum Control of the C

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

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# **Accreditation/Certification Summary**

Client: FPL Energy Solar Partners III-VII, LLC

Project/Site: Nextera Kramer Junction

Job ID: 440-292395-1

#### **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	06-30-22
the agency does not o		eport, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Pren Method	Matriy	Δnalvte	
Analysis Method 300.0	Prep Method	Matrix Water	Analyte Orthophosphate as PO4	
	Prep Method 3005A			

# **Laboratory: Eurofins Calscience LLC**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
California	State	2944	09-30-22

Eurofins Calscience Irvine

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Phone 949 261 1022 Fax	Domination Dropous				LestAmerica Laboratories, Inc.	ratories, Inc.
	10	DW NPDES			COC No	6110 0170
Cilent Contact	Manager ///4/4	10 DC2	Site Contact:	Date	2	
Company Name: I/CX/erg - Kriene Junchly	Tel/Fax.		Lab Contact:	Carrier:	ot ot	cocs
768	Analysis Turnaround Time	Time	\{\begin{align*} \text{S} & \text		Sampler	
A/ VWVVV diZie	☐ CALENDAR DAYS ☐ WOR	WORKING DAYS	'r 	1	For Lab Use Only:	
1	TAT if different from Below				Walk-in Client:	
Fax	X 2 weeks		9  00  00  /^	12 -	Lab Sampling	
Project Name Nexters - Tramer Janchly			) a	m)		
Site	2 days			γο	Job / SDG No.	
PO#	1 day		TO COMPANY TO SITUATION OF THE PARTY OF THE	w		
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of		<b>-</b>				
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The state of the s						
				440-292395 Chain of Custody	of Custody	
Preservation Used: 1= loe, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other	5=NaOH; 6= Other	Section 1				
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Pleas Comments Section if the lab is to dispose of the sample	Please List any EPA Waste Codes for the sample in the	he sample in tl		Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month,	ed longer than 1 month)	_
Non-Hazard Hammable Skin Irritant	Poison B Unknown	иn	Return to Client	Disposal by Lab	Months	
Special Instructions/QC Requirements & Comments	The state of the s	Market and the second s		-		
	Modulation Mo		Cooler Temp ("C) Obs'd	S'd. + Corr'd:	Therm ID No. D	
Relinduishedor	Company:	Date/Time:	d bawea	Compa	Date/Time:	
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Referenced Dr.	Nov HISTAY	Date/Time R 12/6/3/09/8	Received by:	Company.	Date/Time	
Belinquished by	Сотрапу:	Date/Time	Received in aboratory	Company IPV	Date/Time: (21	9440
<b>9</b> 21			<i>A</i>			

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**Chain of Custody Record** 

Testimerica Irvine Eurothus 17461 Berian Ave Suite 100

**Eurofins Calscience Irvine** 

17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Phone 949-261-1022 Fax: 949-260-3297

Seurofins Environment Testing America

**Chain of Custody Record** 

(1- 17-man) weight	Sampler:			Lab PM:		<b>!</b> .				Carrier	Carrier Tracking No(s):	(s)o		COC No:	
Client milorination (Sub Contract Lab)	-			Fame	Fama, Sheri M	5		ļ					~	440-176362 1	
Ollent Contact. Shipping/Receiving	Phone:			E-Mail. Sheri	Fama@	Eurofi	E-Mail. Sheri Fama@Eurofinset.com			State of Origin: California	Origin: Thia		-	Page: Page 1 of 1	
Company Eurofins Calscience LLC					Accreditat State - (	ons Rec	Accreditations Required (See note): State - California, State Program - California	note): Prograr	S C	formia				Job #: 440-292395-1	
Address: 7440 Lincoln Way,	Due Date Requested	.pe					٨	Analysis Requested	Po Po	) della	5			Preservation Codes	les
City Garden Grove	TAT Requested (days):	ys):				-			_			-		A+HCL B+NaOH	M. Hexane N. None
State, Zip CA, 92841									· · · · · · · · · · · · · · · · · · ·					D-Nitric Acid	P - Na204S Q - Na2SO3
Phone 714-895-5494(TeI) 714-894-7501(Fax)	PO #:				(c	jo								F - MeOH G - Amchlor H - Assorbis Acid	R - Na2S203 S - H2S04 T TSD Dodombudges
Email	WO#:				(0)					WANTE AND		····			U - Acetone V - MCAA
Project Name: Nextera Kramer Junction	Project #: 44005151				93 OL V				.,,.,			W	nenist		W - pH 4-5 Z - other (specify)
Site: FPL Kramer Junctioh	SSOW#:				x) as							Ju W-rub	003 JO	Other:	nggalangan kangan k
			Sample Type		Filtered mS/m		,	- :					Mumber		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time		Sesolid, O=waste/oil, BT=Tissue, A=Air)	Perior				· · · · · · · · · · · · · · · · · · ·				letoT		Special Instructions/Note.
		X	Preservation Code:	on Code:	$\geqslant$								X		
MW-1-12-4-21 (440-292395-1)	12/4/21	10 40 Pacific		Water		×							2		
MW-2-12-4-21 (440-292395-2)	12/4/21	12 40 Pacific		Water		×			<u> </u>				-04		
MW-3-12-4-21 (440-292395-3)	12/4/21	15:00 Pacific		Water		×			-				2		
MW-4-12-4-21 (440-292395-4)	12/4/21	15.50 Pacific		Water		×							2		
DUP-12-4-21 (440-292395-5)	12/4/21	00·01 Pacific		Water		×							2		
LF @ 6'-12-4-21 (440-292395-6)	12/4/21	09·10 Pacific		Solid		×								Therminol	
and the second s															
														-	
														- 1	
Note: Since laboratory addressions are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-bustody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation is takins should be brought to Eurofins Calscience affaition immediately. Any changes to accreditations are current to date return the sinned Chain of Customy affairments to said complicance to Eurofins.	e places the ownershi cbeing analyzed the	p of method, a samples must Chain of Gus	nalyte & accred be shipped bac	litation complia k to the Eurofir said complica	nce upon is Calscier	out subc	contract laboration of the contract of the contract laboration of the contract laboration is a contract laboration of the contract labora	oratories. ner instru	This sa	mple shi Il be prov	ment is founded Any	orwarded changes	under cha to accred	in-of-custody If the la litation status should b	boratory does not currently e brought to Eurofins
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Sample Disposal ( A fee may be assessed if samples are retained fonger than 1 month)

Return To Client Disposal By Lab Archive For Month
Special Instructions/QC Requirements. S Date/Time: 6-2021 ethod of Shipment: Cooler Temperature(s) Sand Off Received by: Received by Received by: Company Company Time Primary Deliverable Rank 2 Date Unconfirmed
Deliverable Requested I, II, III, IV, Other (specify) Custody Seal No. Possible Hazard Identification Empty Kik Relinquished by Custody Seals Intact: Δ Yes Δ No elinquished by elinquished by

# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-292395-1

Login Number: 292395 List Source: Eurofins Calscience Irvine

List Number: 1

Creator: Skinner, Alma D

Creator. Skillier, Alilla D		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

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# **Login Sample Receipt Checklist**

Client: FPL Energy Solar Partners III-VII, LLC

Job Number: 440-292395-1

Login Number: 292395
List Source: Eurofins Calscience LLC
List Number: 2
List Creation: 12/07/21 11:16 AM

Creator: Ortiz-Luis, Michael

Creator: Ortiz-Luis, Michael		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5, 3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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