DOCKETED	
Docket Number:	08-AFC-03C
Project Title:	Marsh Landing Generating Station Compliance
TN #:	255387-2
Document Title:	Marsh Landing 2023 CEC Compliance Annual Report Part 2 of 4
Description:	Annual Compliance Operations Report
Filer:	David Frandsen
Organization:	NRG
Submitter Role:	Applicant
Submission Date:	3/29/2024 4:39:32 PM
Docketed Date:	3/29/2024



Attn: Environmental Compliance Specialist		Jason Y	un
Environmental Specialist Phone	(925) 756-1913	Fax	(925) 756-1961
Industrial User Facility Name	N.	larsh Landi	ng LLC
Duly Authorized Representative Name		Joe Mou	Ira
Duly Authorized Representative Phone		925-779-6	6685

This Industrial User Report Checklist and Certification Statement Form shall be submitted with all Self-Monitoring Reports (SMRs), as specified by the Wastewater Discharge Permit issued by Delta Diablo, hereinafter referred to as the District. When submitting Self-Monitoring Reports, check all that are applicable.

Self-Monitoring Reports (SMRs) (Required)

- Flow Discharge Summary (Review Discharge Permit.)
- □ Calibration of Effluent Flow Meters; if applicable.

Monitoring Results – all required tests completed, results reviewed, results included Quality Assurance/Quality Control (QA/QC) and Chain-of-Custody (COC) (Review Discharge Permit):

pH (field-grab) (shall be analyzed within 15 minutes of sample collection).

Results, collection time, analysis time and Technician's Initials shall be reported in the comments section of the respective COC. The pH meter shall be accurate and reproducible to 0.1 pH unit with a range of 0 to 14 and equipped with a temperature–compensation adjustment (Standard methods).

- □ Cyanide samples were tested for oxidizers and preserved with Sodium Hydroxide (NaOH). This shall be reported in the comments section on the respective COC, if applicable.
- Selenium lab analysis by EPA Method 200.8 by Reaction Mode: if applicable.
- Total Phenolics lab analysis by EPA Method 420.4: if applicable.
- All sample analysis for regulatory compliance reporting shall be completed by an ELAP certified Laboratory.
- Certification Statement included (see attached)
- Other requested data

DELTA DIABLO



Violations (if applicable)

All wastewater discharge violations are reported during this period:

☐ The District was contacted within 24- hours of becoming aware of the violation. Date: _____

A follow-up resample was completed. Date:

- Corrective actions implemented to resolve violation (Please explain in writing)
- □ Significant Non-Compliance (SNC) Status Review Please circle the review period *: <u>January – June</u> and <u>July -December</u>.

The SIU shall conduct a SNC review for the previous completed period * prior to the Self-monitoring Report (SMR) due date. Examples: A <u>October SMR</u> due date, the SNC review period is **January – June** or an <u>April SMR</u> due date, the SNC review period is **July – December.**

The SNC definition can be found in 40 CFR 403.8.

- a) Chronic SNC=>66% of a regulated parameter in violation during six-month Period *.
- b) Technical Review Criteria (TRC) SNC = >33% of a regulated pollutant during a sixmonth period* equals or exceeds the product of the daily maximum limit or the average limit multiplied by the applicable TRC factor (1.4 for BOD, TSS and Oil/Grease and 1.2 for all other regulated pollutants except pH).

□ Is the SIU in SNC (as defined in <u>a</u> and/or <u>b</u>) for this period*? Yes □, No □; If yes, for what period? ________. Please report the SNC status to the District in the SMR and include corrective actions to resolve the SNC classification.

□ Other violations – i.e., reporting, spills to sewer, or prohibited discharges

All violations will be discussed in the cover letter of the Self-Monitoring Report.

Significant Changes

Anticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned changes shall be submitted at least 90 days prior to implementation, and shall include a detailed description of this change.



Industrial User Facility Name	Marsh Landing LLC
Industrial User Facility Address	3201-C Wilbur Avenue, Antioch, CA 94509
Duly Authorized Representative Phone	925-779-6685
Indicate Period Covered by This Report	April 1-June 30, 2023

Certification Statement

Certification Statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations (40 CFR 403.6).

Duly Authorized Representative Signature	ka Menna
Duly Authorized Representative Print	Joe Moura
Date	7/10/2023

.



Marsh Landing LLC Marsh Landing Generating Station 3201-C Wilbur Avenue (shipping) PO Box 1687 (mailing) Antioch, CA 94509

July 10, 2023

Mr. Jason Yun Delta Diablo 2500 Pittsburg-Antioch Highway Antioch, CA 94509-1373

Subject: 2023 Second Quarterly (April 1-June 30) Self-Monitoring Report Marsh Landing LLC, Marsh Landing Generating Station, Industrial Wastewater Discharge Permit 0311963-S

This letter documents the transmittal of the 2023 Second Quarterly Self-Monitoring Report (SMR).

Compliance Statement (choose one):

 \square There were no violations of waste discharge requirements during the reporting period.

The following violation(s) of waste discharge requirements occurred during the reporting period, as described below:

Discussion:

This report is the SMR filed for the station and covers the period from April 1 through June 30, 2023. This report includes monthly flow data and quarterly analytical data required to be collected in 2023. Semiannual analytical data was submitted with the first quarterly report for 2023. Data are summarized in the attached tables.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. If you have any questions, please contact Mr. David Frandsen, Environmental Specialist at David.Frandsen@nrg.com or call 925.779.6695.

Sincerely,

los Munn

Joe Moura Plant Manager Marsh Landing LLC Marsh Landing Generating Station

Attachments	
Table 1:	Quarterly Analytical Results for Combined Wastewater (FAC Combined)
Table 2:	April 2023 Monthly Flow Data
Table 3:	May 2023 Monthly Flow Data
Table 4:	June 2023 Monthly Flow Data

Attachment 1: pH COC Attachment 2: Analytical Reports

Table 1

Quarterly Results for Combined Wastewater (FAC Combined)

Industrial User Name	Marsh Landing LLC		
Location	Marsh Landing Generating Station		
Permit Number	0311963-S		
SIC	4911		
Address	3201-C Wilbur Avenue		
	Antioch CA 94509		

Sample Station Location	FAC Combined
Sample Station Description	Local Limits FAC Combined Wastewater
Reporting Period	April - June 2023
Report Type	Quarterly

Constituent	Sample Date	Permit Limit	Result	Units
Field pH	4/20/2023	6-10	7.1	S.U.
BOD	4/20/2023	-	2.3	mg/L
COD	4/20/2023	-	14	mg/L
Arsenic	4/20/2023	0.15	0.00038 J	mg/L
Cadmium	4/20/2023	0.1	ND	mg/L
Chromium	4/20/2023	0.5	0.0011	mg/L
Copper	4/20/2023	0.5	0.0035	mg/L
Iron	4/20/2023	-	0.12	mg/L
Lead	4/20/2023	0.5	ND	mg/L
Mercury	4/20/2023	0.003	ND	mg/L
Molybdenum	4/20/2023	-	0.0012	mg/L
Nickel	4/20/2023	0.5	0.0032	mg/L
Selenium	4/20/2023	0.25	ND	mg/L
Silver	4/20/2023	0.2	ND	mg/L
Zinc	4/20/2023	1.0	0.062	mg/L
TDS	4/20/2023	-	230	mg/L
TSS	4/20/2023	-	1.4	mg/L

J = The reported concentration is an estimated value.

mg/L = Milligrams per liter

ND = Not detected at or above the laboratory Method Detection Limit or Reporting Limit.

S.U. = Standard units

Table 2 Monthly Flow Data

Industrial User Name	Marsh Landing LLC		
Location	Marsh Landing Generating Station		
Permit Number	0311963-S		
SIC	4911		
Address	3201-C Wilbur Avenue		
	Antioch CA 94509		
Sample Station Location	Outfall #4		
Sample Station Description	Flow Monitoring Structure		
Reporting Period	April-23		
Report Type	Quarterly		
Constituent	Flow		
Sample Type	Continuous, measured by flow meter		
Sample Date	4/1/2023 - 4/30/2023		
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 gpm +10% (23.1 gpm) for 15 consecutive minutes or 30 minutes in a 24-hour period		

			Minutes per Day of Flow exceeding 23.1
Day	Total Flow (gpd)	Instantaneous Max (gpm)	gpm
1	0	0.00	
2	5,184	19.63	
3	0	0.00	
4	3,630	19.75	
5	3,964	19.76	
6	0	0.00	
7	5,500	19.65	
8	4,004	19.66	
9	0	0.00	
10	499	16.13	
11	0	0.00	
12	0	0.00	
13	0	0.00	
14	0	0.00	
15	0	0.00	
16	0	0.00	
17	471	14.96	
18	13,130	21.90	
19	17,813	19.78	
20	13,173	20.00	
21	17,004	19.61	
22	0	0.00	
23	0	0.00	
24	9,793	19.73	
25	546	19.59	
26	0	0.00	
27	0	0.00	
28	8,159	20.64	
29	15,755	19.64	
30	0	0.00	

Total Monthly Flow (gal)	118,624	Did flow exceed limits?	NO
Daily Max Flow (gpd)	17,813	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	3,954		

Table 3 Monthly Flow Data

Industrial User Name	Marsh Landing LLC		
Location	Marsh Landing Generating Station		
Permit Number	0311963-S		
SIC	4911		
Address	3201-C Wilbur Avenue		
	Antioch CA 94509		
Sample Station Location	Outfall #4		
Sample Station Description	Flow Monitoring Structure		
Reporting Period	May-23		
Report Type	Quarterly		
Constituent	Flow		
Sample Type	Continuous, measured by flow meter		
Sample Date	5/1/2023 - 5/31/2023		
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 gpm +10% (23.1 gpm) for 15 consecutive minutes or 30 minutes in a 24-hour period		

			Minutes per Day of Flow exceeding 23.1
Day	Total Flow (gpd)	Instantaneous Max (gpm)	gpm
1	0	0.00	
2	0	0.00	
3	10,273	19.60	
4	475	18.72	
5	4,805	19.87	
6	0	0.00	
7	0	0.00	
8	0	0.00	
9	5,626	38.57	4
10	624	19.58	
11	0	0.00	
12	4,027	19.65	
13	448	19.53	
14	476	21.35	
15	17,946	20.24	
16	926	20.70	
17	12,483	19.64	
18	3,517	19.85	
19	0	0.00	
20	458	18.90	
21	0	0.00	
22	1,777	19.74	
23	12,911	19.62	
24	4,231	19.69	
25	7,300	19.56	
26	0	0.00	
27	3,920	20.11	
28	0	0.00	
29	0	0.00	
30	0	0.00	
31	4,627	22.87	

Total Monthly Flow (gal)	96,850	Did flow exceed limits?	NO
Daily Max Flow (gpd)	17,946	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	3,124		

Table 4 Monthly Flow Data

Industrial User Name	Marsh Landing LLC					
Location	Marsh Landing Generating Station					
Permit Number	0311963-S					
SIC	4911					
Address	3201-C Wilbur Avenue					
	Antioch CA 94509					
Sample Station Location	Outfall #4					
Sample Station Description	Flow Monitoring Structure					
Reporting Period	June-23					
Report Type	Quarterly					
Constituent	Flow					
Sample Type	Continuous, measured by flow meter					
Sample Date	6/1/2023 - 6/30/2023					
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 gpm +10% (23.1 gpm) for 15 consecutive minutes or 30 minutes in a 24-hour period					

			Minutes per Day of Flow exceeding 23.1
Day	Total Flow (gpd)	Instantaneous Max (gpm)	gpm
1	0	0.00	
2	6,146	19.60	
3	4,233	19.56	
4	0	0.00	
5	438	18.53	
6	6,140	19.66	
7	1,604	19.56	
8	0	0.00	
9	0	0.00	
10	0	0.00	
11	0	0.00	
12	5,206	19.72	
13	6,456	19.58	
14	0	0.00	
15	0	0.00	
16	397	17.35	
17	6,457	19.74	
18	5,034	19.57	
19	4,597	19.63	
20	6,593	19.58	
21	1,254	19.66	
22	8,507	19.64	
23	0	0.00	
24	0	0.00	
25	0	0.00	
26	2,785	19.67	
27	7,759	19.64	
28	8,779	26.75	14
29	0	0.00	
30	10,883	19.66	

Total Monthly Flow (gal)	93,269	Did flow exceed limits?	NO
Daily Max Flow (gpd)	10,883	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	3,109		

Marsh Landing Generating Station

Reported to: Environmental Engineer

NPDES Monthly Analytical Report

Sample Point	Sample Number	Sample Date (m/d/y)	Sample Collection Time	Date Analyzed (m/d/y)	pH Analysis Time	Sample Medium	Sample Type (Grab)	рН
Method:						Method:	SM 4500-H+B	
							Unit:	standard
Reporting Limit:							0.18	
						Λ	Method Detection Limit:	0.06
FAC Combined Waste Water	C Combined Waste Water ML-23- 040 4/20/23 1330 4/20/23 1330 Wastewater Grab		Grab	7_1				

SM = Standard Method; ppm = parts per million; mg/L = milligrams per liter; N/A = not applicable

Environmental Engineer	David Frandsen	Sampling Technologist:	Ryan Robinson
Signature:	David Franken	Signature:	Reall
Date:	april 21,23	Date:	20-Apr-23
	12.1		



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2304E96

Report Created for: NRG Energy, LLC

3201 Wilbur Avenue Antioch, CA 94509

Project Contact: Project P.O.: Project:

David Frandsen 4501914176 Marsh Landing DDSD; Quarterly

Project Received: 04/21/2023

Analytical Report reviewed & approved for release on 04/28/2023 by:

Christine Askari Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com CA ELAP 1644 ♦ NELAP 4033 ORELAP



Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2304E96

Project: Marsh Landing DDSD; Quarterly

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
СРТ	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit ¹
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting limit ²
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure

¹ MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016.

² RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL)



WorkOrder: 2304E96

Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

Project: Marsh Landing DDSD; Quarterly

- TEQ Toxicity Equivalents
- TZA TimeZone Net Adjustment for sample collected outside of MAI's UTC.
- WET (STLC) Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.



Client:NRG Energy, LLCDate Received:04/21/2023 8:30Date Prepared:04/21/2023Project:Marsh Landing DDSD; Quarterly

WorkOrder:	2304E96
Extraction Method:	SM5210B
Analytical Method:	SM5210 B
Unit:	mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
FAC Combined Wastewater	2304E96-001B	Water	04/20/202	23 12:30	WetChem	268145
Analytes	Result	MDL	<u>RL</u>	DF		Date Analyzed
BOD	2.3	2.0	2.0	1.02		04/26/2023 16:16

Analyst(s): JRA



Client:NRG Energy, LLCDate Received:04/21/2023 8:30Date Prepared:04/24/2023Project:Marsh Landing DDSD; Quarterly

WorkOrder:	2304E96
Extraction Method:	SM5220 D
Analytical Method:	SM5220 D-1997
Unit:	mg/L

Chemical Oxygen Demand (COD) as mg O2 /L						
Client ID	Lab ID	Matrix	Date (Collected	Instrument	Batch ID
FAC Combined Wastewater	2304E96-001A	Water	04/20/2	2023 12:30	SPECTROPHOTOMETER2	268290
Analytes	Result	MDL	RL	DE	Da	te Analyzed
COD	14	8.2	10	1	04/	24/2023 15:53

Analyst(s): IGC



Client:NRG Energy, LLCDate Received:04/21/2023 8:30Date Prepared:04/21/2023Project:Marsh Landing DDSD; Quarterly

WorkOrder:	2304E96
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	mg/L

Metals							
Client ID	Lab ID	Matrix	Ι	Date Colle	cted	Instrument	Batch ID
FAC Combined Wastewater	2304E96-001E	Water	C	04/20/2023 1	2:30	ICP-MS6 163SMPL.d	268141
<u>Analytes</u>	<u>Result</u>	Qualifiers	MDL	<u>RL</u>	DE		Date Analyzed
Arsenic	0.00038	J	0.000074	0.00050	1		04/24/2023 13:45
Cadmium	ND		0.000043	0.00050	1		04/24/2023 13:45
Chromium	0.0011		0.00028	0.00050	1		04/24/2023 13:45
Copper	0.0035		0.00075	0.0015	1		04/24/2023 13:45
Iron	0.12		0.026	0.050	1		04/24/2023 13:45
Lead	ND		0.00019	0.00050	1		04/24/2023 13:45
Mercury	ND		0.000033	0.000050	1		04/24/2023 13:45
Molybdenum	0.0012		0.00013	0.00050	1		04/24/2023 13:45
Nickel	0.0032		0.00033	0.00050	1		04/24/2023 13:45
Selenium	ND		0.00016	0.00050	1		04/24/2023 13:45
Silver	ND		0.000092	0.00050	1		04/24/2023 13:45
Zinc	0.062		0.014	0.020	1		04/24/2023 13:45
Surrogates	<u>REC (%)</u>			<u>Limits</u>			
Terbium	106			70-130			04/24/2023 13:45
<u>Analyst(s):</u> MIG							



Client:NRG Energy, LLCDate Received:04/21/2023 8:30Date Prepared:04/26/2023Project:Marsh Landing DDSD; Quarterly

WorkOrder:	2304E96
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C-1997
Unit:	mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
FAC Combined Wastewater	2304E96-001C	Water	04/20/202	23 12:30	WetChem	268460
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF		Date Analyzed
Total Dissolved Solids	230	10.0	10.0	1		04/27/2023 13:35

Analyst(s): JRA



Client:NRG Energy, LLCDate Received:04/21/2023 8:30Date Prepared:04/24/2023Project:Marsh Landing DDSD; Quarterly

WorkOrder:	2304E96
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D-1997
Unit:	mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
FAC Combined Wastewater	2304E96-001D	Water	04/20/202	23 12:30	WetChem	268232
Analytes	Result	MDL	<u>RL</u>	DF		Date Analyzed
Total Suspended Solids	1.40	1.00	1.00	1		04/24/2023 16:30

Analyst(s): JME

Client:	NRG Energy, LLC	WorkOrder:	2304E96
Date Prepared:	04/21/2023	BatchID:	268145
Date Analyzed:	04/26/2023	Extraction Method:	SM5210B
Instrument:	WetChem	Analytical Method:	SM5210 B
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD; Quarterly	Sample ID:	MB/LCS/LCSD-268145 2304E96-001B

	QC Su	mmary	Report for	BOD					
Analyte	MB Result		MDL	RL					
BOD	ND		2.0	2.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	200	210	198		102	108	80-120	6.02	16
Analyte	SAMP Re	sult	DUP Result				F	RPD	RPD Limit
BOD	2.3		2.4				2	2.2	10



Client:	NRG Energy, LLC	WorkOrder:	2304E96
Date Prepared:	04/24/2023	BatchID:	268290
Date Analyzed:	04/24/2023	Extraction Method:	SM5220 D
Instrument:	SPECTROPHOTOMETER2	Analytical Method:	SM5220 D-1997
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD; Quarterly	Sample ID:	MB/LCS/LCSD-268290

	QC Summary Report for COD								
Analyte	MB Result		MDL	RL					
COD	ND		8.2	10		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	94	96	100		94	96	90-110	2.11	20

Client:	NRG Energy, LLC
Date Prepared:	04/21/2023
Date Analyzed:	04/21/2023
Instrument:	ICP-MS4
Matrix:	Water
Project:	Marsh Landing DDSD; Quarterly

WorkOrder:	2304E96
BatchID:	268141
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-268141

QC Summary Report for Metals

Analyte	MB Result		MDL	RL		SPK Val	MB SS %REC	ME	B SS mits
Arsenic	ND		0.074	0.50		-	-	-	
Cadmium	ND		0.043	0.50		-	-	-	
Chromium	ND		0.28	0.50		-	-	-	
Copper	ND		0.75	1.5		-	-	-	
Iron	ND		26	50		-	-	-	
Lead	ND		0.19	0.50		-	-	-	
Mercury	ND		0.033	0.050		-	-	-	
Molybdenum	ND		0.13	0.50		-	-	-	
Nickel	ND		0.33	0.50		-	-	-	
Selenium	ND		0.16	0.50		-	-	-	
Silver	ND		0.092	0.50		-	-	-	
Zinc	ND		14	20		-	-	-	
Surrogate Recovery									
Terbium	520					500	104	70	-130
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	52	52	50		105	103	85-115	1.33	20
Cadmium	52	52							
		52	50		103	105	85-115	1.52	20
Chromium	52	53	50 50		103 105	105 106	85-115 85-115	1.52 0.800	20 20
Chromium Copper	52 54	53 52 52	50 50 50		103 105 107	105 106 103	85-115 85-115 85-115	1.52 0.800 3.34	20 20 20
Chromium Copper Iron	52 54 5200	53 53 52 5200	50 50 50 5000		103 105 107 104	105 106 103 104	85-115 85-115 85-115 85-115 85-115	1.52 0.800 3.34 0.263	20 20 20 20
Chromium Copper Iron Lead	52 54 5200 51	52 53 52 5200 51	50 50 50 5000 5000		103 105 107 104 103	105 106 103 104 102	85-115 85-115 85-115 85-115 85-115	1.52 0.800 3.34 0.263 0.977	20 20 20 20 20 20
Chromium Copper Iron Lead Mercury	52 54 5200 51 1.3	52 53 52 5200 51 1.3	50 50 50 5000 50 1.25		103 105 107 104 103 101	105 106 103 104 102 102	85-115 85-115 85-115 85-115 85-115 85-115	1.52 0.800 3.34 0.263 0.977 1.18	20 20 20 20 20 20 20
Chromium Copper Iron Lead Mercury Molybdenum	52 54 5200 51 1.3 50	52 53 52 5200 51 1.3 51	50 50 5000 50 1.25 50		103 105 107 104 103 101	105 106 103 104 102 102 102	85-115 85-115 85-115 85-115 85-115 85-115 85-115	1.52 0.800 3.34 0.263 0.977 1.18 1.08	20 20 20 20 20 20 20 20
Chromium Copper Iron Lead Mercury Molybdenum Nickel	52 54 5200 51 1.3 50 53	52 53 52 5200 51 1.3 51 51	50 50 50 5000 50 1.25 50 50		103 105 107 104 103 101 101 106	105 106 103 104 102 102 102 103	85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115	1.52 0.800 3.34 0.263 0.977 1.18 1.08 2.84	20 20 20 20 20 20 20 20 20
Chromium Copper Iron Lead Mercury Molybdenum Nickel Selenium	52 54 5200 51 1.3 50 53 53 53	52 53 52 5200 51 1.3 51 51 51 53	50 50 5000 5000 50 1.25 50 50 50		103 105 107 104 103 101 106	105 106 103 104 102 102 102 103 104	85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115	1.52 0.800 3.34 0.263 0.977 1.18 1.08 2.84 1.12	20 20 20 20 20 20 20 20 20 20 20
Chromium Copper Iron Lead Mercury Molybdenum Nickel Selenium Silver	52 54 5200 51 1.3 50 53 53 53 52	52 53 52 5200 51 1.3 51 51 53 53	50 50 5000 50 1.25 50 50 50 50 50		103 105 107 104 103 101 106 106 105	105 106 103 104 102 102 102 103 105 105	85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115	1.52 0.800 3.34 0.263 0.977 1.18 1.08 2.84 1.12 0.360	20 20 20 20 20 20 20 20 20 20 20 20
Chromium Copper Iron Lead Mercury Molybdenum Nickel Selenium Silver Zinc	52 54 5200 51 1.3 50 53 53 53 52 530	52 53 52 5200 51 1.3 51 53 53 53 53 53	50 50 5000 50 1.25 50 50 50 50 50 50 50 50 500		103 105 107 104 103 101 106 105 106 105 106	105 106 103 104 102 102 102 103 105 105 103	85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115	1.52 0.800 3.34 0.263 0.977 1.18 1.08 2.84 1.12 0.360 3.12	20 20 20 20 20 20 20 20 20 20 20 20
Chromium Copper Iron Lead Mercury Molybdenum Nickel Selenium Silver Zinc Surrogate Recovery	52 54 5200 51 1.3 50 53 53 53 53 52 530	52 53 52 5200 51 1.3 51 51 53 53 53 53 5200	50 50 5000 50 1.25 50 50 50 50 50 500		103 105 107 104 103 101 106 105 106 105 106 105 106	105 106 103 104 102 102 102 103 105 105 105 105	85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115	1.52 0.800 3.34 0.263 0.977 1.18 1.08 2.84 1.12 0.360 3.12	20 20 20 20 20 20 20 20 20 20 20 20

Client:	NRG Energy, LLC
Date Prepared:	04/26/2023
Date Analyzed:	04/27/2023
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing DDSD; Quarterly

WorkOrder:	2304E96
BatchID:	268460
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C-1997
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-268460

QC Summary Report for Total Dissolved Solids

Analyte	MB Result		MDL	RL					
Total Dissolved Solids	ND		10.0	10.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Dissolved Solids	1000	936	1000		100	94	80-120	6.61	10

Client:	NRG Energy, LLC
Date Prepared:	04/24/2023
Date Analyzed:	04/24/2023
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing DDSD; Quarterly

WorkOrder:	2304E96
BatchID:	268232
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D-1997
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-268232

QC Summary Report for Total Suspended Solids

Analyte	MB Result		MDL	RL					
Total Suspended Solids	ND		1.00	1.00		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Suspended Solids	92.0	90.0	100		92	90	80-120	2.20	10

	oell Analytical,	lnc.			CHA	NR	 -0F-	CUS	TOD	Y RE	COF	SD	P	age	1 of	1
Pittsburg, (925) 252-	CA 94565-1701 9262	WaterTrax	ĸ ∏CLIP	EDF	Work(Orde NuIS tection	r: 2304E	2 96 Weight 'Y	Clien ✓ Email	ntCode: [GOA HardC	ору	ThirdPar	ty	√ J-fla	ag
Report to: David Frandsei	n	Email:	David.Frandse	n@nrg.com		Bi	Il to: Account	s Payabl	e			Reque	ested TATs:		5 days; 7 days;	
Antioch, CA 94 (925) 427-3479	/enue 4509 FAX: (925) 779-6679	PO: Project:	4501914176 Marsh Landing	DDSD; Quarterly	oura@m	ig	NRG 4900 N. Scottsdale Road, Ste. 5000 Scottsdale, AZ 85251 invoices@clearwayenergy.coupahost.c				00 ost.co	Date . Date .	Received: Logged:		04/21/2 04/21/2	2023 2023
									Request	ed Tests	(See leg	end be	elow)			-
Lab ID	ClientSampI	D	Matrix	Collection Date	Hold	1	2	3	4 5	6	7	8	9	10	11	12
2304E96-001	FAC Combined Was	stewater	Water	4/20/2023 12:30		В	Α	E	A C	D						

Test Legend:

1	BOD_W	
5	TDS_W	
9		

2	COD_W
6	TSS_W
10	-

3	METALSMS_TTLC_W(PPM)
7	
11	

4	PRDisposal Fee
8	
12	

Project Manager: Susan Thompson

Prepared by: Agustina Venegas

Comments: Use QUOTE 212372 for any Marsh Landing projects to get correct analyte list. Always report in mg/L.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: NRG ENERGY, LLC Client Contact: David Frandsen Contact's Email: David.Frandsen@nrg.com				Project: Comments	Marsh Landing Use QUOTE 21 correct analyte 1	g DD 2372 ist. Al	SD; Qi for any lways ro	uarterly Marsh I eport in	, Landing projects to mg/L.	get	Work O QC I Date Lo	order: 230 Level: LEV gged: 4/21	4E96 /EL 2 /2023	3			
			Water	Irax		EDF	Exce	EQui	S	√ En	nail	HardCopy		Party J-flag)		
LabIE	ClientSa	ampID	Matrix	Test Name	•		Containers /Composites	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Ou
001A	FAC Combine Wastewater	ed	Water	SM5220D (0	COD)		1	aVOA w/ H2SO4				4/20/2023 12:30	5 days	4/28/2023	Present		
001B	FAC Combine Wastewater	ed	Water	SM5210B (H	BOD)		1	500mL HDPE, unprsv.				4/20/2023 12:30	7 days	5/2/2023	Present		
001C	FAC Combine Wastewater	ed	Water	SM2540C (7	TDS)		1	500mL HDPE, unprsv.				4/20/2023 12:30	5 days	4/28/2023	Present		
001D	FAC Combine Wastewater	ed	Water	SM2540D (7	TSS)		1	1L HDPE, unprsv.				4/20/2023 12:30	5 days	4/28/2023	Present		
001E	FAC Combine Wastewater	ed	Water	E200.8 (Met Chromium, G Mercury, Mo Selenium, Si	tals) <arsenic, cad<br="">Copper, Iron, Lead, olybdenum, Nickel, ilver, Zinc></arsenic,>	mium,	1	250mL HDPE w/ HNO3				4/20/2023 12:30	5 days	4/28/2023	Present		

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U^{**} = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

2304E96

Chain of Custody

Y

		P	age 1 of	2-Quate	erly			Phone: (9	25) 779-65	600 Fax: (9	25) 779-650	9				
		SAMPL	LES SUBMITTE	D TO			SEND INVO	NCE TO		F	PROJECT			ANALYSIS F	REQUEST	
Laboratory: LAP Cert. No. Address: Phone/Fax:		1534 Wille	McCampbell / 16 w Pass Road, 1 925.252.9262/	Analytical, Inc. 44 Pittsburg, CA 94 925.252.9269	565-1701		Company: Marst Attention: Acco Address: Inviced P.O. No.: 45	h Landing LLC punts Payable Belearwayenerg.com 501914176	Plant: Title: Phase: Manager:	0007400	Marsh Lar DDSI Quarte David Frar	nding) rly ndsen	SM5220D)	M 5210B)	M 2540B)	M 2540D)
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Des	cription	Number	Туре	Volume (each, mL)	Preserv.	cop (s	BOD (S	TDS (S	TSS (S
ML-23-035	20-Apr-23	1230	DDSD	Quarterly	Wastewater	C-24	FAC Combined	Wastewater	2	Amber VOAs	43	H ₂ SO ₄ (pH<2, 4°C)	x			
ML-23-036	20-Apr-23	1230	DDSD	Quarterly	Wastewater	C-24	FAC Combined	Wastewater	1	HDPE Bottle	1,000	None (ZHS, 4°C)		x		
ML-23-037	20-Apr-23	1230	DDSD	Quarterly	Wastewater	C-24	FAC Combined	Wastewater	1	HDPE Bottle	500	None (4°C)			×	
ML-23-038	20-Apr-23	1230	DDSD	Quarterly	Wastewater	C-24	FAC Combined	Wastewater	1	Poly	1,000	None				x
	DED			1.000								HOLDING TIME:	28 days	48 hours	7 days	7 day
Phone/Fax: E-mail E-mail CC: E-mail CC:	<u>da</u> jan jc	Antioch, CA 945 925.324-3533/6 vid.frandsen@ni nes.robinson@ni pe.moura@nrg	509 509 r <u>g.com</u> r <u>g.com</u>			•	Please report all results with the units of I RESULTS AND PRICING PER QUOTE ID: *Include sample description with client sample numb					of mg/L. ID: 212372. number ID.				
			PRINTED NAM	ΛE			SIGNATURE		COMPANY				DATE		Т	ME
Sampled by:		1	Ryan Robins	on		T	Uple	NRG Energy Services 2				20)-Apr-23		123	00
Relinquished by:		(Ryan Robins	on	/	A	1.11	NRG Energy Services 21 -				21-20	Apr-23		29	530
Received by:	ed by AGRIFINAVENEGAS A.				alefinar McCampbell Analytical, Inc. 2			2/ 20	Apr-23		08	30				
Relinquished by:	1.0					1	, ~									
Received by:																
Relinquished by:																
Received by:								1 mar 1								

Marsh Landing Generating Station 3201 Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509

0.20 WET

Chain of Custody Page 2 of 2-Quarterly

Marsh Landing Generating Station 3201 Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509

Phone: (925) 779-6500 Fax: (925) 779-6509

		SAMP	PLES SUBMITTE	ED TO			SEND INVOIC	ETO		PR	OJECT			ANALYSIS R	EQUEST	
Laboratory:			McCampbell /	Analytical, Inc			Company: Marsh L	anding LLC	Plant:		Marsh Landi	ng	~			
ELAP Cert. No.			16	644			Attention: Accourt	nts Payable	Title:		DDSD		. 0.8			
Address:		1534 Wi	llow Pass Road,	Pittsburg, CA 94	565-1701		Address: invoices@ck	arwayenergy.com	Phase:		Quarterly	·	als 20			
Phone/Fax:			925.252.9262	/ 925.252.9269			P.O. No.: 450*	Manager: David Frandsen			Aet					
		ILL STREET		SAM	PLE INFORMA	TION			CONTAINER INFORMATION				al A			
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Descr	Number	Туре	Volume (each, mL)	Preserv.	Tot (EPA N				
ML-23-039	20-Apr-23	1230	DDSD	Quarterly	Wastewater	C-24	FAC Combined W	astewater	1	HDPE Bottle	250	HNO3 (pH<2)	x			
											Н	OLDING TIME:	28 days			
	REPO	ORTING		LABO	DRATORY NOT	ES RE: SAM	IPLE RECEIPT/CONDITION			DIRE	CTIONS FOR	LABORATOR	Y			
Original to: Title: Address: Phone/Fax: F-mail:	nal to: David Frandsen Title: Environmental Specialist/Engineer dress: P.O. Box 1687 Antioch, CA 94509 e/Fax: 925.324-3533/6509			STANDARD TAT (5-day). Establish calibration standards so Minimum Level (ML) value is the lowest calibra standard, the lowest quantifiable concentration or Reporting Limit (RL). Report "Detected, but Not Quantified (DNQ) with estimated J-flagged concentrations below the RL and include method detection limits (MDLs) in report. Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Mercury, Nickel, Molybdenum, Selenium (reaction mod Silver, Zipe) 												
E-mail CC	ian	nes robinson@r	nra.com					Silver, Zinc								
E-mail CC:	10	ioe.moura@nrg	com					Please report all results with the units of r								
								RESULTS AND	PRICING	G PER C	UOTE I	D: 21237	2.			
															*Inclu	de
A contraction								Cample description	with clien	t samnle i	umber ID				mora	uc
		Salah Indian	PRINTED NAM	ME			SIGNATURE	sample description	COMPANY	t Sample I	iumber ib		DATE		TI	ME
Sampled by:			Ryan Robins	son		7	Ufil	NRG	Energy Se	rvices		2	20-Apr-23		12	30
Relinquished by:		1	Ryan Robins	son		1	el no	NRG Energy Services 21				21=	0-Apr-23		09	30
Received by:	d by: Agilsting VENEGAS				digging McCampbell Analytical, Inc. 2				21 =	Apr-23		08	130			
Relinquished by:						5										
Received by:																
Relinquished by:																
Received by:																



Sample Receipt Checklist

Client Name: NRG Energy, LLC Project: Marsh Landing DDSD; Quarterly						Date and Time Received: Date Logged: Received by:	4/21/2023 08:30 4/21/2023 Agustina Venegas
WorkOrder №: Carrier:	2304E96 <u>Client Drop-In</u>	Matrix: <u>Water</u>				Logged by:	Agustina Venegas
		Chain of (Custody	<u>(COC) Infor</u>	rmatio	on	
Chain of custody	present?		Yes	\checkmark	No		
Chain of custody	signed when relinquis	hed and received?	Yes		No		
Chain of custody	agrees with sample la	bels?	Yes	✓	No		
Sample IDs noted	d by Client on COC?		Yes	✓	No		
Date and Time of	collection noted by Cl	ient on COC?	Yes	✓	No		
Sampler's name	noted on COC?		Yes	✓	No		
COC agrees with	Quote?		Yes		No	\checkmark	
		Samp	le Rece	ipt Informati	<u>ion</u>		
Custody seals int	act on shipping contain	ner/cooler?	Yes		No		NA 🗹
Custody seals intact on sample bottles?			Yes		No		NA 🗹
Shipping containe	er/cooler in good condi	tion?	Yes	✓	No		
Samples in prope	er containers/bottles?		Yes	✓	No		
Sample container	rs intact?		Yes	✓	No		
Sufficient sample	volume for indicated t	est?	Yes	✓	No		
		Sample Preservati	ion and	<u>Hold Time (</u>	<u>HT) Ir</u>	nformation	
All samples recei	ved within holding time	?	Yes	✓	No		
Samples Receive	ed on Ice?		Yes	✓	No		
		(Ісе Тур	e: WE	TICE)			
Sample/Temp Bla	ank temperature			Temp: 0.2	2°C		
ZHS conditional a requirement (VO	analyses: VOA meets : Cs, TPHg/BTEX, RSK)	zero headspace ?	Yes		No		NA 🖌
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No		
pH acceptable up <2; 522: <4; 218.	oon receipt (Metal: <2; 7: >8)?	Nitrate 353.2/4500NO3:	Yes	✓	No		
UCMR Samples: pH tested and a 537.1: 6 - 8)?	acceptable upon receip	ot (200.7: ≤2; 533: 6 - 8;	Yes		No		NA 🗹
Free Chlorine to [not applicable	ested and acceptable to 200.7]?	upon receipt (<0.1mg/L)	Yes		No		NA 🗹

Comments:



Attn: Environmental Compliance Specialist		Jason	ı Yun	
Environmental Specialist Phone	(925) 756-1913	Fax	(925) 756-1961	
Industrial User Facility Name	Ν	Marsh Lai	nding LLC	
Duly Authorized Representative Name		Joe M	loura	
Duly Authorized Representative Phone		925-77	9-6685	

This Industrial User Report Checklist and Certification Statement Form shall be submitted with all Self-Monitoring Reports (SMRs), as specified by the Wastewater Discharge Permit issued by Delta Diablo, hereinafter referred to as the District. When submitting Self-Monitoring Reports, check all that are applicable.

Self-Monitoring Reports (SMRs) (Required)

Solution Flow Discharge Summary (Review Discharge Permit.)

Calibration of Effluent Flow Meters; if applicable.

Monitoring Results – all required tests completed, results reviewed, results included Quality Assurance/Quality Control (QA/QC) and Chain-of-Custody (COC) (Review Discharge Permit):

pH (field-grab) (shall be analyzed within 15 minutes of sample collection).

Results, collection time, analysis time and Technician's Initials shall be reported in the comments section of the respective COC. The pH meter shall be accurate and reproducible to 0.1 pH unit with a range of 0 to 14 and equipped with a temperature–compensation adjustment (Standard methods).

- Cyanide samples were tested for oxidizers and preserved with Sodium Hydroxide (NaOH). This shall be reported in the comments section on the respective COC, if applicable.
- Selenium lab analysis by EPA Method 200.8 by Reaction Mode: if applicable.
- Total Phenolics lab analysis by EPA Method 420.4: if applicable.
- All sample analysis for regulatory compliance reporting shall be completed by an ELAP certified Laboratory.
- Certification Statement included (see attached)

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DELTA DI ABLO

0CT **1 2** 2023 Revised July 2014

Page 1 of 3



Violations (if applicable)

All wastewater discharge violations are reported during this period:

☐ The District was contacted within 24- hours of becoming aware of the violation. Date: _____

A follow-up resample was completed. Date:

- Corrective actions implemented to resolve violation (Please explain in writing)
- □ Significant Non-Compliance (SNC) Status Review Please circle the review period *: <u>January – June</u> and <u>July -December</u>.

The SIU shall conduct a SNC review for the previous completed period * prior to the Self-monitoring Report (SMR) due date. Examples: A <u>October SMR</u> due date, the SNC review period is **January – June** or an <u>April SMR</u> due date, the SNC review period is **July – December.**

The SNC definition can be found in 40 CFR 403.8.

- a) Chronic SNC=>66% of a regulated parameter in violation during six-month Period *.
- b) Technical Review Criteria (TRC) SNC = >33% of a regulated pollutant during a sixmonth period* equals or exceeds the product of the daily maximum limit or the average limit multiplied by the applicable TRC factor (1.4 for BOD, TSS and Oil/Grease and 1.2 for all other regulated pollutants except pH).

□ Is the SIU in SNC (as defined in <u>a</u> and/or <u>b</u>) for this period*? Yes □, No □; If yes, for what period? ________. Please report the SNC status to the District in the SMR and include corrective actions to resolve the SNC classification.

 \Box Other violations – i.e., reporting, spills to sewer, or prohibited discharges

All violations will be discussed in the cover letter of the Self-Monitoring Report.

□ <u>Significant Changes</u>



Deltanticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned **Diable** shall be submitted at least 90 days prior to implementation, and shall include a detailed **Diable** cescription of this change.

Industrial User Report Checklist And Certification Statement Form

Certification Statement

Industrial User Facility Name	Marsh Landing LLC
Industrial User Facility Address	3201-C Wilbur Avenue, Antioch, CA 94509
Duly Authorized Representative Phone	925-779-6685
Indicate Period Covered by This Report	July 1-September 30, 2023

Certification Statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations (40 CFR 403.6).

Duly Authorized Representative Signature	
Duly Authorized Representative Print	Joe Moura
Date	



Marsh Landing LLC Marsh Landing Generating Station 3201-C Wilbur Avenue (shipping) PO Box 1687 (mailing) Antioch, CA 94509

October 11, 2023

Mr. Jason Yun Delta Diablo 2500 Pittsburg-Antioch Highway Antioch, CA 94509-1373

Subject: 2023 Third Quarterly (July 1-September 30) Self-Monitoring Report Marsh Landing LLC, Marsh Landing Generating Station, Industrial Wastewater Discharge Permit 0311963-S

This letter documents the transmittal of the 2023 Third Quarterly Self-Monitoring Report (SMR).

Compliance Statement (choose one):

 \square There were no violations of waste discharge requirements during the reporting period.

The following violation(s) of waste discharge requirements occurred during the reporting period, as described below:

Discussion:

This report is the SMR filed for the station and covers the period from July 1 through September 30, 2023. This report includes monthly flow data and quarterly and semiannual analytical data required to be collected in 2023. Data are summarized in the attached tables.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. If you have any questions, please contact Mr. David Frandsen, Environmental Specialist at <u>david.frandsen@nrg.com</u> or call 925.779.6695

Sincerely,

Joe Moura

Plant Manager Marsh Landing LLC Marsh Landing Generating Station

Attachments

Table 1:	Quarterly Results for Combined Wastewater (FAC Combined)
Table 2:	Semiannual Results for Combined Wastewater (FAC Combined)
Table 3:	July 2023 Monthly Flow Data
Table 4:	August 2023 Monthly Flow Data
Table 5:	September 2023 Monthly Flow Data

Attachment 1:pH COCAttachment 2:Analytical Reports

Table 1

Quarterly Results for Combined Wastewater (IW-001)

Industrial User Name	Marsh Landing LLC					
Location	Marsh Landing Generating Station					
Permit Number	0311963-S					
SIC	4911					
Address	3201-C Wilbur Avenue					
	Antioch CA 94509					

Sample Station Location	FAC Combined
Sample Station Description	Local Limits FAC Combined Wastewater
Reporting Period	July - September 2023
Report Type	Quarterly

Constituent	Sample Date	Permit Limit	Result	Units
Field pH	8/1/2023	6-10	7.3	S.U.
BOD	8/1/2023	-	ND	mg/L
COD	8/1/2023	-	26.0	mg/L
Arsenic	8/1/2023	0.15	0.00083	mg/L
Cadmium	8/1/2023	0.1	ND	mg/L
Chromium	8/1/2023	0.5	0.00061	mg/L
Copper	8/1/2023	0.5	0.0035	mg/L
Iron	8/1/2023	-	0.11	mg/L
Lead	8/1/2023	0.5	ND	mg/L
Mercury	8/1/2023	0.003	ND	mg/L
Molybdenum	8/1/2023	-	0.0021	mg/L
Nickel	8/1/2023	0.5	0.0033	mg/L
Selenium	8/1/2023	0.25	0.00018 J	mg/L
Silver	8/1/2023	0.2	ND	mg/L
Zinc	8/1/2023	1.0	0.025	mg/L
TDS	8/1/2023	-	286.0	mg/L
TSS	8/1/2023	-	1.8	mg/L

mg/L = Milligrams per liter

ND = Not detected at or above the laboratory Method Detection Limit or Reporting Limit.

J = Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.

Table 2 Semiannual Results for Combined Wastewater (IW-001)

Industrial User Name	Marsh Landing LLC
Location	Marsh Landing Generating Station
Permit Number	0311963-S
SIC	4911
Address	3201-C Wilbur Avenue
	Antioch CA 94509

Sample Station Location	FAC Combined		
Sample Station Description	Local Limits FAC Combined Wastewater		
Reporting Period	July - September 2023		
Report Type	Semiannual		

Constituent	Sample Date	Permit Limit	Result	Units
Cyanide	8/1/2023	0.20	0.0016	mg/L
Total Phenolics (EPA 420.4)	8/1/2023	1.0	ND	mg/L
Ammonia as N	8/1/2023	200	0.27	mg/L
Oil and Grease Animal/Vegetable (HEM)	8/1/2023	300	ND	mg/L
Oil and Grease Petroleum/Mineral (SGT-HEM)	8/1/2023	100	2.2 J	mg/L
TOXIC ORGANICS				
Bromodichloromethane	8/1/2023	-	0.00052	mg/L
Bromoform	8/1/2023	-	0.00047 JB	mg/L
Chloroform	8/1/2023	-	0.00062	mg/L
Dibromochloromethane	8/1/2023	_	0.00038	mg/L
TOTAL TOXIC ORGANICS	8/1/2023	2.0	0.0015	mg/L

mg/L = Milligrams per liter

ND = Not detected at or above the laboratory Method Detection Limit or Reporting Limit.

J=Result is less than the RL/ML but greater than the MDL. The Reported concentration is an estimated value.

B=Analyte detected in the associated Method Blank at a concentration greater than 1/10 the reported sample result.
Table 3 Monthly Flow Data

Industrial User Name	Marsh Landing LLC
Location	Marsh Landing Generating Station
Permit Number	0311963-S
SIC	4911
Address	3201-C Wilbur Avenue
	Antioch CA 94509
Sample Station Location	Outfall #4
Sample Station Description	Flow Monitoring Structure
Reporting Period	Jul-23
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuous, measured by flow meter
Sample Date	7/1/2023 - 7/31/2023
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 gpm +10% (23.1 gpm) for 15 consecutive minutes or 30 minutes in a 24-hour period

			Minutes per Day of Flow exceeding 23.1
Day	Total Flow (gpd)	Instantaneous Max (gpm)	gpm
1	3,206	19.66	
2	13,278	20.70	
3	10,794	19.64	
4	16,757	19.62	
5	14,742	19.59	
6	0	0.00	
7	3,758	19.58	
8	7,332	19.58	
9	0	0.00	
10	4,741	20.23	
11	10,791	19.57	
12	4,556	19.68	
13	383	20.66	
14	452	19.63	
15	10,231	19.84	
16	18,317	20.01	
17	27,217	19.64	
18	22,840	19.59	
19	28,042	19.60	
20	28,080	19.92	
21	28,079	20.70	
22	28,012	20.52	
23	28,080	19.72	
24	28,079	19.57	
25	25,793	19.63	
26	12,904	19.61	
27	261	19.54	
28	1,939	19.57	
29	7,962	19.87	
30	11,075	19.74	
31	7,762	20.10	

Total Monthly Flow (gal)	405,467	Did flow exceed limits?	NO
Daily Max Flow (gpd)	28,080	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	13,080		

Table 4 Monthly Flow Data

Industrial User Name	Marsh Landing LLC			
Location	Marsh Landing Generating Station			
Permit Number	0311963-S			
SIC		4911		
Address	3201-C Wilbur Avenue			
		Antioch CA 94509		
Sample Station Location		Outfall #4		
Sample Station Description		Flow Monitoring Structure		
Reporting Period		Aug-23		
Report Type		Quarterly		
Constituent		Flow		
Sample Type		Continuous, measured by flow me	ter	
Sample Type		8/1/2023 - 8/31/2023		
	NTE 30 240 and	NTE 21 app $\pm 10\%$ for 15 consecutive	minutes or 30 minutes in	
Permit Limits (s.u.)	NTE 50,240 gpd.	a 24-hour period		
	NTE 30,240 gpc	d. NTE 21 gpm +10% (23.1 gpm) for 15	consecutive minutes or	
Permit Limits (s.u.)	,	30 minutes in a 24-hour period		
			Minutes per Day of Flow	
			exceeding 23.1	
Day	Total Flow (gpd)	Instantaneous Max (gpm)	gpm	
1	9,947	19.58		
2	11,593	20.06		
3	0	0.00		
4	3,482	19.58		
5	13,640	19.61		
6	9,319	19.66		
7	23,496	20.97		
8	28,080	19.62		
9	2,502	19.55		
10	0	0.00		
11	480	19.71		
12	5,314	19.73		
13	8,611	19.72		
14	19,893	19.73		
15	28.081	19.60		
16	28.036	19.61		
17	28.022	19.59		
18	0	0.00		
19	0	0.00		
20	0	0.00		
20	8 498	19.61		
21	0,490	19.01		
22	6 224	10.63		
23	0,324	19.05		
24	4,430	10.00		
25	0	0.00		
26	0	0 0.00		
2/	4,009	19.68		
28	0	0.00		
29	6,531	10.50		
30	14,490	19.59		
31	0	0.00		

Total Monthly Flow (gal)	264,783	Did flow exceed limits?	NO
Daily Max Flow (gpd)	28,081	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	8,541		

Table 5 Monthly Flow Data

Industrial User Name	Marsh Landing LLC
Location	Marsh Landing Generating Station
Permit Number	0311963-S
SIC	4911
Address	3201-C Wilbur Avenue
	Antioch CA 94509
Sample Station Location	Outfall #4
Sample Station Description	Flow Monitoring Structure
Reporting Period	Sep-23
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuous, measured by flow meter
Sample Date	9/1/2023 - 9/31/2023
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 gpm +10% (23.1 gpm) for 15 consecutive minutes or 30 minutes in a 24-hour period

			Minutes per Day of Flow exceeding 23.1
Day	Total Flow (gpd)	Instantaneous Max (gpm)	gpm
1	5,387	19.59	
2	6,887	19.73	
3	398	17.30	
4	0	0.00	
5	11,890	19.68	
6	0	0.00	
7	0	0.00	
8	4,125	19.69	
9	12,522	19.58	
10	0	0.00	
11	11,180	19.62	
12	12,382	21.26	
13	5,289	19.61	
14	6,910	19.72	
15	12,204	19.64	
16	0	0.00	
17	0	0.00	
18	0	0.00	
19	0	0.00	
20	6,650	20.40	
21	4,119	19.55	
22	0	0.00	
23	0	0.00	
24	864	20.43	
25	10,308	20.84	
26	5,286	19.57	
27	0	0.00	
28	0	0.00	
29	0	0.00	
30	8,818	19.68	

Total Monthly Flow (gal)	125,220	Did flow exceed limits?	NO
Daily Max Flow (gpd)	12,522	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	4,174		

Marsh Landing Generating Station

Reported to: Environmental Engineer

NPDES Monthly Analytical Report

Sample Point	Sample Number	Sample Date (m/d/y)	Sample Collection Time	Date Analyzed (m/d/v)	pH Analysis Time	Sample Medium	Sample Type (Grab)	рН
Method:					SM 4500-H+B			
							Unit:	standard
							Reporting Limit:	0.18
						1	Method Detection Limit:	0.06
IW-001	ML-23- 081	8/1/23	1030	8/1/23	1030	Wastewater	Grab	7.3

SM = Standard Method; ppm = parts per million; mg/L = milligrams per liter; N/A = not applicable

Environmental Engineer	David Frandsen	Sampling Technologist:	Ryan Robinson	0
Signature:	David Frandsen	Signature:	PA.IL	_
Date:	aug 1, 202 3	Date:	1-Aug-23	
	0			



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2308016

Report Created for: NRG Energy, LLC

3201 Wilbur Avenue Antioch, CA 94509

Project Contact: Project P.O.: Project:

David Frandsen 4501914176 Marsh Landing; DDSD Quarterly

Project Received: 08/01/2023

Analytical Report reviewed & approved for release on 08/09/2023 by:

Jena Alfaro Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.



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Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2308016

Project: Marsh Landing; DDSD Quarterly

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
СРТ	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit ¹
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit ²
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure

¹ MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

² RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.



WorkOrder: 2308016

Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

Project: Marsh Landing; DDSD Quarterly

TEQ Toxicity Equivalents

TZA TimeZone Net Adjustment for sample collected outside of MAI's UTC.

WET (STLC) Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.

i9 The BOD dilution scheme was setup per the method and met the criterion of a residual dissolved oxygen of at least 1 mg/L and final DO difference of 2mg/L, however the reported sample yielded a result of ND based on the method dilutions performed.



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/03/2023Project:Marsh Landing; DDSD Quarterly

WorkOrder:	2308016
Extraction Method:	SM5210B
Analytical Method:	SM5210 B
Unit:	mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date	Collected	Instrument	Batch ID
IW-001	2308016-001B	Water	08/01/	2023 10:30	WetChem	275057
Analytes	<u>Result</u>	MD	<u>_ RL</u>	DF		Date Analyzed
BOD	ND	2.0	2.0	1.02		08/08/2023 13:29

Analyst(s): JRA

Analytical Comments: i9



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/03/2023Project:Marsh Landing; DDSD Quarterly

WorkOrder:	2308016
Extraction Method:	SM5220 D
Analytical Method:	SM5220 D-1997
Unit:	mg/L

Chemical Oxygen Demand (COD) as mg O2 /L						
Client ID	Lab ID	Matrix	Date C	Collected	Instrument	Batch ID
IW-001	2308016-001A	Water	08/01/2	023 10:30	SPECTROPHOTOMETER2	275089
Analytes	Result	MDL	<u>RL</u>	DE	Dat	e Analyzed
COD	26	8.2	10	1	08/0	03/2023 16:47

Analyst(s): IGC



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/01/2023Project:Marsh Landing; DDSD Quarterly

WorkOrder:	2308016
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	mg/L

Metals							
Client ID	Lab ID	Matrix]	Date Collected		Instrument	Batch ID
IW-001	2308016-001E	Water		08/01/2023 1	0:30	ICP-MS5 194SMPL.d	274897
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	MDL	<u>RL</u>	DF		Date Analyzed
Arsenic	0.00083		0.000071	0.00050	1		08/02/2023 17:13
Cadmium	ND		0.000050	0.00050	1		08/02/2023 17:13
Chromium	0.00061		0.00026	0.00050	1		08/02/2023 17:13
Copper	0.0035		0.00063	0.0015	1		08/02/2023 17:13
Iron	0.11		0.022	0.050	1		08/02/2023 17:13
Lead	ND		0.00019	0.00050	1		08/02/2023 17:13
Mercury	ND		0.000031	0.000050	1		08/02/2023 17:13
Molybdenum	0.0021		0.00014	0.00050	1		08/02/2023 17:13
Nickel	0.0033		0.00033	0.00050	1		08/02/2023 17:13
Selenium	0.00018	J	0.00018	0.00050	1		08/02/2023 17:13
Silver	ND		0.000051	0.00050	1		08/02/2023 17:13
Zinc	0.025		0.011	0.020	1		08/02/2023 17:13
Surrogates	<u>REC (%)</u>			<u>Limits</u>			
Terbium	105			70-130			08/02/2023 17:13
<u>Analyst(s):</u> AL							



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/07/2023Project:Marsh Landing; DDSD Quarterly

WorkOrder:	2308016
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C
Unit:	mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
IW-001	2308016-001C	Water	08/01/202	23 10:30	WetChem	275281
Analytes	Result	MDL	<u>RL</u>	DF		Date Analyzed
Total Dissolved Solids	286	10.0	10.0	1		08/08/2023 12:20

Analyst(s): JME



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/07/2023Project:Marsh Landing; DDSD Quarterly

WorkOrder:	2308016
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D
Unit:	mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
IW-001	2308016-001D	Water	08/01/202	23 10:30	WetChem	275318
Analytes	Result	MDL	<u>RL</u>	<u>DF</u>		Date Analyzed
Total Suspended Solids	1.80	1.00	1.00	1		08/07/2023 18:30

Analyst(s): JRA

Client:	NRG Energy, LLC	WorkOrder:	2308016
Date Prepared:	08/03/2023	BatchID:	275057
Date Analyzed:	08/08/2023	Extraction Method:	SM5210B
Instrument:	WetChem	Analytical Method:	SM5210 B
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing; DDSD Quarterly	Sample ID:	MB/LCS/LCSD-275057

QC Summary Report for BOD									
Analyte	MB Result		MDL	RL					
BOD	ND		2.0	2.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	170	170	198		85	87	80-120	1.76	16



Client:	NRG Energy, LLC	WorkOrder:	2308016
Date Prepared:	08/03/2023	BatchID:	275089
Date Analyzed:	08/03/2023	Extraction Method:	SM5220 D
Instrument:	SPECTROPHOTOMETER2	Analytical Method:	SM5220 D-1997
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing; DDSD Quarterly	Sample ID:	MB/LCS/LCSD-275089

	QC Summary Report for COD								
Analyte	MB Result		MDL	RL					
COD	ND		8.2	10		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	100	100	100		100	100	90-110	0	20

Client:	NRG Energy, LLC
Date Prepared:	08/01/2023
Date Analyzed:	08/01/2023 - 08/02/2023
Instrument:	ICP-MS6
Matrix:	Water
Project:	Marsh Landing; DDSD Quarterly

WorkOrder:	2308016
BatchID:	274897
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-274897

QC Summary Report for Metals

Analyte	MB Result		MDL	RL		SPK Val	MB SS %REC	M Li	B SS imits
Arsenic	ND		0.071	0.50		-	-	-	
Cadmium	ND		0.050	0.50		-	-	-	
Chromium	ND		0.26	0.50		-	-	-	
Copper	ND		0.63	1.5		-	-	-	
Iron	ND		22	50		-	-	-	
Lead	ND		0.19	0.50		-	-	-	
Mercury	ND		0.031	0.050		-	-	-	
Molybdenum	ND		0.14	0.50		-	-	-	
Nickel	ND		0.33	0.50		-	-	-	
Selenium	ND		0.18	0.50		-	-	-	
Silver	ND		0.051	0.50		-	-	-	
Zinc	ND		11	20		-	-	-	
Surrogate Recovery									
Terbium	490					500	97	70	0-130
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	44	48	50		88	95	85-115	7.84	20
Cadmium	45	48	50		90	96	85-115	6.82	20
Chromium	45	48	50		90	96	85-115	7.52	20
Copper	45	48	50		91	96	85-115	5.78	20
Iron	4700	4700	5000		94	95	85-115	0.874	20
Lead	45	48	50		90	97	85-115	6.99	20
Mercury	1.2	1.2	1.25		93	97	85-115	3.37	20
Molybdenum	47	47	50		94	95	85-115	0.876	20
Nickel	45	49	50		91	97	85-115	6.85	20
Selenium	46	50	50		92	99	85-115	7.69	20
Silver	45	49	50		91	98	85-115	7.62	20
Zinc	460	490	500		91	97	85-115	6.59	20
Surrogate Recovery									
Terbium	480	490	500		96	97	70-130	1.66	20

Client:	NRG Energy, LLC
Date Prepared:	08/07/2023
Date Analyzed:	08/08/2023
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing; DDSD Quarterly

WorkOrder:	2308016
BatchID:	275281
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-275281

QC Summary Report for Total Dissolved Solids

Analyte	MB Result		MDL	RL					
Total Dissolved Solids	ND		10.0	10.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Dissolved Solids	972	950	1000		97	95	80-120	2.29	10

Client:	NRG Energy, LLC
Date Prepared:	08/07/2023
Date Analyzed:	08/07/2023
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing; DDSD Quarterly

WorkOrder:	2308016
BatchID:	275318
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-275318

QC Summary Report for Total Suspended Solids

Analyte	MB Result		MDL	RL					
Total Suspended Solids	ND		1.00	1.00		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Suspended Solids	107	106	100		107	106	80-120	0.939	10

McCampbell Analy	rtical, Inc.		CHAI	N-OF-CU	STODY	RECORD	Pag	ge 1 of 1
Pittsburg, CA 94565-1701 (925) 252-9262	□WaterTrax		WorkOrd	er: 2308016	ClientC ✓Email	Code: GOA	ThirdParty	y y J-flag
Report to: David Frandsen	Email: Dav	id.Frandsen@nrg.co	m	Bill to: Accounts Paya	ble	Req	uested TATs:	5 days; 7 days;
NRG Energy, LLC 3201 Wilbur Avenue Antioch, CA 94509 (925) 427-3479 FAX: (925)	cc/3rd Party: joe.i PO: 450 Project: Mar 779-6679	moura@nrg.com; jan 1914176 sh Landing; DDSD Q	nes.robinson@nrg. uarterly	NRG 112 Telly Stree New Roads, L/ invoices@nrg.	et A 70760 com	Dat Dat	te Received: te Logged:	08/01/2023 08/01/2023
					Requ	ested Tests (See le	egend below)	
Lab ID	ClientSampID	Matrix	Collection Date 8/1/2023 10:30	Hold 1 2	3 4	5 6 7 C D	89	10 11 12

Test Legend:

1	BOD_W	2	
5	TDS_W	6	
9		10	

2	COD_W
6	TSS_W
10	

3	METALSMS_TTLC_W(PPM)
7	
11	

4	PRDisposal Fee
8	
12	-

Project Manager: Susan Thompson

Prepared by: Lilly Ortiz

Comments: Use QUOTE 212372 for any Marsh Landing projects to get correct analyte list. Always report in mg/L.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Name:NRG ENERGY, LLCClient Contact:David FrandsenContact's Email:David.Frandsen@nrg.com					Project: Comments	Marsh Landin	g; DE 2372	DSD Qu	uarterly Marsh I	Landing projects to	o get	Work O QC I Date Log	rder: 2308 Level: LEN gged: 8/1/	8016 /EL 2 2023			
			WaterT	rax [EDF	Exce		S	Iways n ∎En	nail	HardCopy	Third	Party 🖌 J-flag	I		
LabID	ClientS	ampID	Matrix	Test Nam	le		Containers /Composites	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	ТАТ	Test Due Date	Sediment Content	Hold	Sub Out
001A	IW-001		Water	SM5220D	(COD)		2	aVOA w/ H2SO4				8/1/2023 10:30	5 days	8/8/2023	None		
001B	IW-001		Water	SM5210B	(BOD)		1	500mL HDPE, unprsv.				8/1/2023 10:30	7 days	8/10/2023	None		
001C	IW-001		Water	SM2540C	(TDS)		1	500mL HDPE, unprsv.				8/1/2023 10:30	5 days	8/8/2023	None		
001D	IW-001		Water	SM2540D	(TSS)		1	1L HDPE, unprsv.	· 🗌			8/1/2023 10:30	5 days	8/8/2023	None		
001E	IW-001		Water	E200.8 (Me Chromium, Mercury, M Selenium, S	etals) <arsenic, c<br="">, Copper, Iron, Le Aolybdenum, Nicl Silver, Zinc></arsenic,>	admium, ad, cel,	1	250mL HDPE w/ HNO3				8/1/2023 10:30	5 days	8/8/2023	None		

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

2308014

Chain of Custody Page 1 of 2-Quaterly

Marsh Landing Generating Station 3201 Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509

Phone: (925) 779-6500 Fax: (925) 779-6509

		SAMP	LES SUBMITTE	D TO		and the second	SEND INVOIC	ETO		P	ROJECT			ANALYSIS F	REQUEST		í.
Laboratory: ELAP Cert. No. Address: Phone/Fax:		1534 Will	McCampbell A 164 low Pass Road, F 925.252.9262/	nalytical, Inc. 44 Pittsburg, CA 94 925.252.9269	565-1701		Company: Marsh L Attention: Accourt Address: Invoices@sk P.O. No.: 4501	anding LLC hts Payable 1914176	Plant: Title: Phase: Manager:	Marsh Landing DDSD Quarterly David Frandsen			M5220D)	M 5210B)	A 2540B)	1 2540D)	
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Descr	iption	Number	Type	R INFORM4 Volume (each, mL)	TION Preserv.	COD (S BOD (S	BOD (SI	TDS (SM	TSS (SN	
ML-23-057	8/1/2023	1030	DDSD	Quarterly	Wastewater	C-24	IW-001		2	Amber VOAs	43	H₂SO₄ (pH<2, 4°C)	x				
ML-23-058	8/1/2023	1030	DDSD	Quarterly	Wastewater	C-24	IW-001		1	HDPE Bottle	1,000	None (ZHS, 4°C)		x			
ML-23-059	8/1/2023	1030	DDSD	Quarterly	Wastewater	C-24	IW-001		1	HDPE Bottle	500	None (4°C)			x		
ML-23-060	8/1/2023	1030	DDSD	Quarterly	Wastewater	C-24	IW-001		1	Poly	1,000	None				x	
Original to: Title: Address: Phone/Fax: E-mail: E-mail CC: E-mail CC:	Environ <u>dav</u> j <u>an</u> jc	David Frands: mental Speciali P.O. Box 168 Antioch, CA 94 925.324-3533/6 vid.frandsen@n ies.robinson@n ie.moura@nrg	en st/Engineer 37 509 5509 r <u>a.com</u> ir <u>a.com</u>					STANDARDTAT (5-day standard, the lowest qua with estimated J-flagged Please report al RESULTS AND *Include sample des	y). Establis antifiable co d concentral I results PRICING scription v	th calibration ncentration tions below s with th G PER (vith client	n standards or Reportin the RL and te units QUOTE I sample n	so Minimum Levi g Limit (RL). Rep include method d of mg/L. D: 212372. umber ID.	el (ML) valu ort "Detecte etection lim	e is the low ed, but Not (its (MDLs) i	est calibra Quantified n report.	ition " (DNQ)	
			PRINTED NAM	E			SIGNATURE		COMPANY		1000		DATE		TIN	IE P	
Sampled by:			Ryan Robins	on		70	all	NRG E	Energy Ser	vices		8/	1/2023		10-	30	
Relinquished by:			Ryan Robins	on		De	1.N	NRG E	Energy Ser	vices		8/1	1/2023		T	30	1155
Received by: Relinquished by:	by Agusting. age			iptimar.	McCampl	bell Analyti	cal, Inc.		8/1/	2023	3	1153	SA				
Received by:																1	
Relinquished by:							N.										
 Received by: 								-they		1							

Chain of Custody Page 2 of 2-Quarterly

Marsh Landing Generating Station

3201 Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509 Phone: (925) 779-6500 Fax: (925) 779-6509

SAMPLES SUBMITTED TO SEND INVOICE TO PROJECT ANALYSIS REQUEST Laboratory: McCampbell Analytical, Inc. Marsh Landing LLC Company Plant. Marsh Landing 8 ELAP Cert. No. 1644 Attention: Accounts Payable Title DDSD Total Metals¹ (EPA Method 200.8 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Address Address: invoices@clearwayenergy.com Phase: Quarterly Phone/Fax 925.252.9262/ 925.252.9269 P.O. No. 4501914176 Manager David Frandsen SAMPLE INFORMATION CONTAINER INFORMATION Sample Sample Sample Regulatory Regulatory Sample Sample Volume Collection Sample Description Number Type Preserv. Number Date Driver Frequency Medium Type (each, mL) Time ML-23-061 8/1/2023 HDPE HNO3 DDSD 1030 Quarterly Wastewater C-24 IW-001 х 1 250 Bottle (pH<2) HOLDING TIME: 28 days LABORATORY NOTES RE: SAMPLE RECEIPT/CONDITION REPORTING DIRECTIONS FOR LABORATORY Original to David Frandsen STANDARD TAT (5-day). Establish calibration standards so Minimum Level (ML) value is the lowest calibration Title Environmental Specialist/Engineer standard, the lowest quantifiable concentration or Reporting Limit (RL). Report "Detected, but Not Quantified" Address P.O. Box 1687 (DNQ) with estimated J-flagged concentrations below the RL and include method detection limits (MDLs) in Antioch, CA 94509 report. 925.324-3533/6509 Phone/Fax 1. Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Mercury, Nickel, Molybdenum, Selenium (reaction mode), E-mail david frandsen@nrg.com Silver, Zinc E-mail CC: james.robinson@nrg.com Please report all results with the units of mg/L. E-mail CC joe.moura@nrg.com RESULTS AND PRICING PER QUOTE ID: 212372. *Include sample description with client sample number ID. COMPANY PRINTED NAME SIGNATURE DATE TIME 1030 Sampled by Ryan Robinson **NRG Energy Services** 8/1/2023 Relinquished by Ryan Robinson NRG Energy Services 8/1/2023 1150 1150 NAN Received by B NA 2073 McCampbell Analytical, Inc. 55 Relinquished by Received by Relinquished by Received by



Sample Receipt Checklist

Client Name: Project:	NRG Energy, LLC Marsh Landing; DDS	SD Quarterly	Date and Time Received Date Logged: Received by:	l: 8/1/2023 11:55 8/1/2023 Agustina Venegas		
WorkOrder №: Carrier:	2308016 <u>Client Drop-In</u>	Matrix: <u>Water</u>			Logged by:	Lilly Ortiz
		Chain of (Custody	/ (COC) Infor	mation	
Chain of custody	present?		Yes		No 🗌	
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No 🗌	
Chain of custody	agrees with sample la	bels?	Yes	✓	No 🗌	
Sample IDs noted	d by Client on COC?		Yes	✓	No 🗌	
Date and Time of	collection noted by C	lient on COC?	Yes	✓	No 🗌	
Sampler's name	noted on COC?		Yes	✓	No 🗌	
COC agrees with	Quote?		Yes		No 🗌	NA 🗹
		Samp	le Rece	eipt Informati	ion	
Custody seals int	act on shipping contai	ner/cooler?	Yes		No 🗌	NA 🗹
Custody seals int	act on sample bottles	?	Yes		No 🗌	NA 🗹
Shipping containe	er/cooler in good cond	ition?	Yes		No 🗌	
Samples in prope	er containers/bottles?		Yes		No 🗌	
Sample container	rs intact?		Yes		No 🗌	
Sufficient sample	volume for indicated	test?	Yes	✓	No 🗌	
		Sample Preservati	ion and	<u>Hold Time (l</u>	HT) Information	
All samples recei	ved within holding time	e?	Yes	✓	No 🗌	
Samples Receive	ed on Ice?		Yes	✓	No 🗌	
		(Ісе Тур	e: WE	TICE)		_
Sample/Temp Bla	ank temperature			Temp: 1.6	O°6	
ZHS conditional a requirement (VOC	analyses: VOA meets Cs, TPHg/BTEX, RSK	zero headspace)?	Yes		No	NA 🗹
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No 🗌	
pH acceptable up <2; 522: <4; 218.	oon receipt (Metal: <2; 7: >8)?	Nitrate 353.2/4500NO3:	Yes	✓	No 🗌	
UCMR Samples: pH tested and a	acceptable upon recei	pt (200.7: ≤2; 533: 6 - 8;	Yes		No 🗌	NA 🗹
557.1.0-0)?						
Free Chlorine to [not applicable	ested and acceptable to 200.7]?	upon receipt (<0.1mg/L)	Yes		No 🗀	NA 🗹



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2308017

Report Created for: NRG Energy, LLC

3201 Wilbur Avenue Antioch, CA 94509

Project Contact: Project P.O.: Project:

David Frandsen 4501914176 Marsh Landing; DDSD Semi-Annual

Project Received: 08/01/2023

Analytical Report reviewed & approved for release on 08/09/2023 by:

an hunter

Susan Thompson Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com CA ELAP 1644 ♦ NELAP 4033 ORELAP



Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2308017

Project: Marsh Landing; DDSD Semi-Annual

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit ¹
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit ²
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure

¹ MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

² RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.



Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC WorkOrder: 2308017

- **Project:** Marsh Landing; DDSD Semi-Annual
- TEQ **Toxicity Equivalents**
- TimeZone Net Adjustment for sample collected outside of MAI's UTC. TZA
- WET (STLC) Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

В Analyte detected in the associated Method Blank at a concentration greater than 1/10 the reported sample result. J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value. Sample diluted due to high organic content interfering with quantitative/or qualitative analysis. a3

Quality Control Qualifiers

- F2
 - LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.
- F5 LCS/LCSD recovery is outside of acceptance limits; however, the data is acceptable based upon the TNI allowable marginal exceedances.



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/08/2023Project:Marsh Landing; DDSD Semi-Annual

 WorkOrder:
 2308017

 Extraction Method:
 E1664A_S0

 Analytical Method:
 E1664A

 Unit:
 mg/L

Hexane Extractable Material (HEM; Oil & Grease) with Silica Gel Clean-Up

Client ID	Lab ID	Matrix		Date C	ollected	Instrument	Batch ID
IW-001	2308017-001B	Water		08/01/20	023 10:30	O&G	275374
Analytes	Result	<u>Qualifiers</u>	MDL	<u>RL</u>	DE		Date Analyzed
SGT-HEM	2.2	J	1.2	5.3	1		08/08/2023 14:50

Analyst(s): LAM



Client:	NRG Energy, LLC
Date Received:	08/01/2023 11:55
Date Prepared:	08/08/2023
Project:	Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
Extraction Method:	E1664A
Analytical Method:	E1664A
Unit:	mg/L

Hexane Extractable Material (HEM; Oil & Grease) without Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date C	ollected	Instrument	Batch ID
IW-001	2308017-001A	Water	08/01/20)23 10:30	O&G	275374
Analytes	Result	MDL	<u>RL</u>	DF		Date Analyzed
HEM	ND	2.6	5.1	1		08/08/2023 14:45

Analyst(s): LAM



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/02/2023Project:Marsh Landing; DDSD Semi-Annual

 WorkOrder:
 2308017

 Extraction Method:
 E608.3/SW3620B

 Analytical Method:
 E608.3

 Unit:
 mg/L

Organochlorine Pesticides + PCBs w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collec	ted	Instrument	Batch ID
IW-001	2308017-001F	Water	08/01/2023 1	0:30	GC40 08032315.d	274945
Analytes	<u>Result</u>	<u> </u>	MDL RL	<u>DF</u>		Date Analyzed
Aldrin	ND	(0.000005 0.000020	20		08/03/2023 14:18
a-BHC	ND	(0.000006 0.000020	20		08/03/2023 14:18
b-BHC	ND	(0.000014 0.000020	20		08/03/2023 14:18
d-BHC	ND	(0.000002 0.000020	20		08/03/2023 14:18
g-BHC	ND	(0.000009 0.000020	20		08/03/2023 14:18
Chlordane (Technical)	ND	(0.000046 0.00040	20		08/03/2023 14:18
p,p-DDD	ND	(0.000002 0.000020	20		08/03/2023 14:18
p,p-DDE	ND	(0.000003 0.000020	20		08/03/2023 14:18
p,p-DDT	ND	(0.000003 0.000020	20		08/03/2023 14:18
Dieldrin	ND	(0.000002 0.000020	20		08/03/2023 14:18
Endosulfan I	ND	(0.000002 0.000020	20		08/03/2023 14:18
Endosulfan II	ND	(0.000009 0.000020	20		08/03/2023 14:18
Endosulfan sulfate	ND	(0.000006 0.000040	20		08/03/2023 14:18
Endrin	ND	(0.000003 0.000020	20		08/03/2023 14:18
Endrin aldehyde	ND	(0.000011 0.000020	20		08/03/2023 14:18
Heptachlor	ND	(0.000008 0.000020	20		08/03/2023 14:18
Heptachlor epoxide	ND	(0.000005 0.000020	20		08/03/2023 14:18
Toxaphene	ND	(0.000040 0.00040	20		08/03/2023 14:18
Aroclor1016	ND	(0.000038 0.00040	20		08/03/2023 14:18
Aroclor1221	ND	(0.000048 0.00040	20		08/03/2023 14:18
Aroclor1232	ND	(0.000076 0.00040	20		08/03/2023 14:18
Aroclor1242	ND	(0.000056 0.00040	20		08/03/2023 14:18
Aroclor1248	ND	(0.000036 0.00040	20		08/03/2023 14:18
Aroclor1254	ND	(0.000030 0.00040	20		08/03/2023 14:18
Aroclor1260	ND	(0.000056 0.00040	20		08/03/2023 14:18
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Decachlorobiphenyl	125		60-130			08/03/2023 14:18
Analyst(s): SVE			Analytical Comm	ents:	a3	



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/02/2023Project:Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
Extraction Method:	E624.1
Analytical Method:	E624.1
Unit:	mg/L

Acrolein, Acrylonitrile, & 2-Chloroethyl Vinyl Ether

Client ID	Lab ID	Matrix]	Date Colle	ected	Instrument	Batch ID
IW-001	2308017-001H	Water		08/01/2023	10:30	GC10 08022314.D	275071
Analytes	<u>Result</u>		MDL	<u>RL</u>	DF		Date Analyzed
Acrolein (Propenal)	ND		0.0037	0.0050	1		08/02/2023 23:01
Acrylonitrile	ND		0.00027	0.0020	1		08/02/2023 23:01
2-Chloroethyl Vinyl Ether	ND		0.00052	0.0010	1		08/02/2023 23:01
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>			
Dibromofluoromethane	103			70-130			08/02/2023 23:01
Analyst(s): ALU							



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/03/2023Project:Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
Extraction Method:	E624.1
Analytical Method:	E624.1
Unit:	mg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
IW-001	2308017-001G	Water	0	8/01/2023 10):30	GC16 08022326.D	275004
Analytes	<u>Result</u>	<u>Qualifiers</u>	MDL	<u>RL</u>	<u>DF</u>		Date Analyzed
Benzene	ND		0.000034	0.00020	1		08/03/2023 01:53
Bromodichloromethane	0.00052		0.000022	0.000050	1		08/03/2023 01:53
Bromoform	0.00047	JB	0.00010	0.00050	1		08/03/2023 01:53
Bromomethane	ND		0.00026	0.00050	1		08/03/2023 01:53
Carbon tetrachloride	ND		0.000033	0.000050	1		08/03/2023 01:53
Chlorobenzene	ND		0.000092	0.00050	1		08/03/2023 01:53
Chloroethane	ND		0.00023	0.00050	1		08/03/2023 01:53
Chloroform	0.00062		0.000015	0.00010	1		08/03/2023 01:53
Chloromethane	ND		0.00018	0.00050	1		08/03/2023 01:53
Dibromochloromethane	0.00038		0.000069	0.00015	1		08/03/2023 01:53
1,2-Dichlorobenzene	ND		0.00011	0.00050	1		08/03/2023 01:53
1,3-Dichlorobenzene	ND		0.00012	0.00050	1		08/03/2023 01:53
1,4-Dichlorobenzene	ND		0.00011	0.00050	1		08/03/2023 01:53
1,1-Dichloroethane	ND		0.00014	0.00050	1		08/03/2023 01:53
1,2-Dichloroethane (1,2-DCA)	ND		0.000011	0.000020	1		08/03/2023 01:53
1,1-Dichloroethene	ND		0.000003	0.000010	1		08/03/2023 01:53
trans-1,2-Dichloroethene	ND		0.00012	0.00050	1		08/03/2023 01:53
1,2-Dichloropropane	ND		0.000029	0.00020	1		08/03/2023 01:53
cis-1,3-Dichloropropene	ND		0.00013	0.00050	1		08/03/2023 01:53
trans-1,3-Dichloropropene	ND		0.00020	0.00050	1		08/03/2023 01:53
Ethylbenzene	ND		0.00014	0.00050	1		08/03/2023 01:53
Methylene chloride	ND		0.00075	0.0020	1		08/03/2023 01:53
1,1,2,2-Tetrachloroethane	ND		0.000018	0.000020	1		08/03/2023 01:53
Tetrachloroethene	ND		0.000028	0.00020	1		08/03/2023 01:53
Toluene	ND		0.000096	0.00050	1		08/03/2023 01:53
1,1,1-Trichloroethane	ND		0.00014	0.00050	1		08/03/2023 01:53
1,1,2-Trichloroethane	ND		0.000026	0.00020	1		08/03/2023 01:53
Trichloroethene	ND		0.000030	0.00050	1		08/03/2023 01:53
Trichlorofluoromethane	ND		0.00013	0.00050	1		08/03/2023 01:53
Vinyl chloride	ND		0.000002	0.0000050	1		08/03/2023 01:53
Surrogates	<u>REC (%)</u>			<u>Limits</u>			
Dibromofluoromethane	108			70-130			08/03/2023 01:53
Toluene-d8	105			70-130			08/03/2023 01:53
4-BFB	92			70-130			08/03/2023 01:53
<u>Analyst(s):</u> TW							



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/02/2023Project:Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	mg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
IW-001	2308017-0011	Water	0	8/01/2023 10):30	GC48 08032316.D	274948
Analytes	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>		Date Analyzed
Acenaphthene	ND		0.000015	0.000025	5		08/03/2023 15:02
Acenaphthylene	ND		0.000009	0.000025	5		08/03/2023 15:02
Anthracene	ND		0.000010	0.000025	5		08/03/2023 15:02
Benzidine	ND		0.014	0.025	5		08/03/2023 15:02
Benzo (a) anthracene	ND		0.00010	0.00025	5		08/03/2023 15:02
Benzo (a) pyrene	ND		0.000025	0.000025	5		08/03/2023 15:02
Benzo (b) fluoranthene	ND		0.000027	0.000050	5		08/03/2023 15:02
Benzo (g,h,i) perylene	ND		0.000020	0.000050	5		08/03/2023 15:02
Benzo (k) fluoranthene	ND		0.000025	0.000050	5		08/03/2023 15:02
Bis (2-chloroethoxy) Methane	ND		0.0026	0.0050	5		08/03/2023 15:02
Bis (2-chloroethyl) Ether	ND		0.000025	0.000025	5		08/03/2023 15:02
Bis (2-chloroisopropyl) Ether	ND		0.000025	0.000050	5		08/03/2023 15:02
Bis (2-ethylhexyl) Phthalate	ND		0.00066	0.0013	5		08/03/2023 15:02
4-Bromophenyl Phenyl Ether	ND		0.0015	0.0050	5		08/03/2023 15:02
Butylbenzyl Phthalate	ND		0.00041	0.0013	5		08/03/2023 15:02
4-Chloro-3-methylphenol	ND		0.0030	0.0050	5		08/03/2023 15:02
2-Chloronaphthalene	ND		0.0028	0.0050	5		08/03/2023 15:02
2-Chlorophenol	ND		0.00018	0.00025	5		08/03/2023 15:02
4-Chlorophenyl Phenyl Ether	ND		0.0025	0.0050	5		08/03/2023 15:02
Chrysene	ND		0.000014	0.000025	5		08/03/2023 15:02
Dibenzo (a,h) anthracene	ND		0.000026	0.000050	5		08/03/2023 15:02
Di-n-butyl Phthalate	ND		0.00039	0.0013	5		08/03/2023 15:02
1,2-Dichlorobenzene	ND		0.0027	0.0050	5		08/03/2023 15:02
1,3-Dichlorobenzene	ND		0.0030	0.0050	5		08/03/2023 15:02
1,4-Dichlorobenzene	ND		0.0022	0.0050	5		08/03/2023 15:02
3,3-Dichlorobenzidine	ND		0.000031	0.000050	5		08/03/2023 15:02
2,4-Dichlorophenol	ND		0.000028	0.000050	5		08/03/2023 15:02
Diethyl Phthalate	ND		0.00011	0.00025	5		08/03/2023 15:02
2,4-Dimethylphenol	ND		0.0027	0.0050	5		08/03/2023 15:02
Dimethyl Phthalate	ND		0.000030	0.000050	5		08/03/2023 15:02
4,6-Dinitro-2-methylphenol	ND		0.019	0.025	5		08/03/2023 15:02
2,4-Dinitrophenol	ND		0.0034	0.0050	5		08/03/2023 15:02
2,4-Dinitrotoluene	ND		0.00014	0.00025	5		08/03/2023 15:02
2,6-Dinitrotoluene	ND		0.00015	0.00025	5		08/03/2023 15:02
Di-n-octyl Phthalate	ND		0.0061	0.013	5		08/03/2023 15:02
1,2-Diphenylhydrazine	ND		0.0021	0.0050	5		08/03/2023 15:02
Fluoranthene	ND		0.000019	0.000050	5		08/03/2023 15:02



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/02/2023Project:Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	mg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
IW-001	2308017-0011	Water	0	8/01/2023 10):30	GC48 08032316.D	274948
Analytes	<u>Result</u>		MDL	<u>RL</u>	DF		Date Analyzed
Fluorene	ND		0.000009	0.000050	5		08/03/2023 15:02
Hexachlorobenzene	ND		0.000008	0.000025	5		08/03/2023 15:02
Hexachlorobutadiene	ND		0.000005	0.000025	5		08/03/2023 15:02
Hexachlorocyclopentadiene	ND		0.012	0.025	5		08/03/2023 15:02
Hexachloroethane	ND		0.000017	0.000050	5		08/03/2023 15:02
Indeno (1,2,3-cd) pyrene	ND		0.000035	0.000050	5		08/03/2023 15:02
Isophorone	ND		0.0023	0.0050	5		08/03/2023 15:02
Naphthalene	ND		0.000032	0.000050	5		08/03/2023 15:02
Nitrobenzene	ND		0.0031	0.0050	5		08/03/2023 15:02
2-Nitrophenol	ND		0.015	0.025	5		08/03/2023 15:02
4-Nitrophenol	ND		0.018	0.025	5		08/03/2023 15:02
N-Nitrosodimethylamine	ND		0.018	0.025	5		08/03/2023 15:02
N-Nitrosodiphenylamine	ND		0.0018	0.0050	5		08/03/2023 15:02
N-Nitrosodi-n-propylamine	ND		0.0030	0.0050	5		08/03/2023 15:02
Pentachlorophenol	ND		0.00081	0.0013	5		08/03/2023 15:02
Phenanthrene	ND		0.000018	0.000025	5		08/03/2023 15:02
Phenol	ND		0.000096	0.00020	5		08/03/2023 15:02
Pyrene	ND		0.000014	0.000025	5		08/03/2023 15:02
1,2,4-Trichlorobenzene	ND		0.0026	0.0050	5		08/03/2023 15:02
2,4,6-Trichlorophenol	ND		0.000027	0.000050	5		08/03/2023 15:02
Surrogates	<u>REC (%)</u>			<u>Limits</u>			
2-Fluorophenol	45			20-103			08/03/2023 15:02
Phenol-d5	33			20-120			08/03/2023 15:02
Nitrobenzene-d5	68			61-130			08/03/2023 15:02
2-Fluorobiphenyl	96			63-115			08/03/2023 15:02
2,4,6-Tribromophenol	90			48-149			08/03/2023 15:02
4-Terphenyl-d14	63			32-113			08/03/2023 15:02
Analyst(s): AK			Analy	tical Comm	<u>ents:</u> a3		



Client:	NRG Energy, LLC
Date Received:	08/01/2023 11:55
Date Prepared:	08/02/2023
Project:	Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
Extraction Method:	E350.1
Analytical Method:	E350.1
Unit:	mg/L

Ammonia As Nitrogen						
Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
IW-001	2308017-001E	Water	08/01/20	23 10:30	WC_SKALAR 230802D1_40	274981
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF	Date	e Analyzed
Ammonia, total as N	0.27	0.095	0.10	1	08/0	2/2023 16:32

Analyst(s): IGC



Client:NRG Energy, LLCDate Received:08/01/2023 11:55Date Prepared:08/02/2023Project:Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
Extraction Method:	Kelada-01
Analytical Method:	Kelada-01
Unit:	mg/L

Cyanide, Total								
Client ID	Lab ID	Matrix		Date Co	llected	Instrument	Batch ID	
IW-001	2308017-001C	Water		08/01/202	3 10:30	WC_Skalar3 230802a0_26	274950	
Analytes	<u>Result</u>		MDL	<u>RL</u>	DF	Da	ite Analyzed	
Total Cyanide	0.0016		0.00062	2 0.0010	1	08,	/02/2023 11:20	

Analyst(s): CC



Client:	NRG Energy, LLC
Date Received:	08/01/2023 11:55
Date Prepared:	08/04/2023
Project:	Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
Extraction Method:	E420.4
Analytical Method:	E420.4
Unit:	mg/L

Phenolics								
Client ID	Lab ID	Matrix		Date Col	lected	Instrument	Batch ID	
IW-001	2308017-001D	Water		08/01/2023	3 10:30	WC_SKALAR 230804A1_28	275175	
Analytes	<u>Result</u>		MDL	<u>RL</u>	<u>DF</u>	Date	Analyzed	
Phenolics	ND		0.0014	0.0020	1	08/04	4/2023 12:41	

Analyst(s): CC

Client:	NRG Energy, LLC	WorkOrder:	2308017
Date Prepared:	08/08/2023	BatchID:	275374
Date Analyzed:	08/08/2023	Extraction Method:	E1664A_SG
Instrument:	O&G	Analytical Method:	E1664A
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing; DDSD Semi-Annual	Sample ID:	MB/LCS/LCSD-275374

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
HEM	ND	2.5	5.0	-	-	-
SGT-HEM	ND	1.1	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	19	20	20.83	91	98	78-114	7.37	30
SGT-HEM	7.9	7.0	10.42	76	68	64-132	11.5	30
Client:	NRG Energy, LLC							
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Date Prepared:	08/02/2023							
Date Analyzed:	08/02/2023							
Instrument:	GC40							
Matrix:	Water							
Project:	Marsh Landing; DDSD Semi-Annual							

WorkOrder:	2308017
BatchID:	274945
Extraction Method:	E608.3/SW3620B
Analytical Method:	E608.3
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-274945

QC Summary Report for E608.3 w/ Florisil Clean-up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00028	0.0010	-	-	-
a-BHC	ND	0.00031	0.0010	-	-	-
b-BHC	ND	0.00069	0.0010	-	-	-
d-BHC	ND	0.00014	0.0010	-	-	-
g-BHC	ND	0.00045	0.0010	-	-	-
Chlordane (Technical)	ND	0.0023	0.020	-	-	-
a-Chlordane	ND	0.00085	0.0010	-	-	-
g-Chlordane	ND	0.00015	0.0010	-	-	-
p,p-DDD	ND	0.00011	0.0010	-	-	-
p,p-DDE	ND	0.00018	0.0010	-	-	-
p,p-DDT	ND	0.00017	0.0010	-	-	-
Dieldrin	ND	0.00014	0.0010	-	-	-
Endosulfan I	ND	0.00011	0.0010	-	-	-
Endosulfan II	ND	0.00046	0.0010	-	-	-
Endosulfan sulfate	ND	0.00033	0.0020	-	-	-
Endrin	ND	0.00018	0.0010	-	-	-
Endrin aldehyde	ND	0.00053	0.0010	-	-	-
Endrin ketone	ND	0.00026	0.0010	-	-	-
Heptachlor	ND	0.00041	0.0010	-	-	-
Heptachlor epoxide	ND	0.00025	0.0010	-	-	-
Methoxychlor	ND	0.00012	0.0010	-	-	-
Toxaphene	ND	0.0020	0.020	-	-	-
Aroclor1016	ND	0.0019	0.020	-	-	-
Aroclor1221	ND	0.0024	0.020	-	-	-
Aroclor1232	ND	0.0038	0.020	-	-	-
Aroclor1242	ND	0.0028	0.020	-	-	-
Aroclor1248	ND	0.0018	0.020	-	-	-
Aroclor1254	ND	0.0015	0.020	-	-	-
Aroclor1260	ND	0.0028	0.020	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.039			0.05	78	60-130

Client:	NRG Energy, LLC
Date Prepared:	08/02/2023
Date Analyzed:	08/02/2023
Instrument:	GC40
Matrix:	Water
Project:	Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
BatchID:	274945
Extraction Method:	E608.3/SW3620B
Analytical Method:	E608.3
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-274945

QC Summary Report for E608.3 w/ Florisil Clean-up

Analyte	LCS Result	LCSD Result	SPK Val	L	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.036	0.037	0.050	7	71	74	54-130	3.84	20
a-BHC	0.034	0.036	0.050	6	68,F2	71	70-130	3.74	20
b-BHC	0.037	0.038	0.050	7	73	77	70-130	4.45	20
d-BHC	0.036	0.038	0.050	7	73	76	70-130	4.33	20
g-BHC	0.032	0.033	0.050	6	64	66	60-130	3.13	20
a-Chlordane	0.036	0.037	0.050	7	72	75	55-130	3.67	20
g-Chlordane	0.037	0.038	0.050	7	73	76	55-130	3.68	20
p,p-DDD	0.041	0.043	0.050	8	33	86	70-130	3.52	20
p,p-DDE	0.040	0.041	0.050	8	30	83	70-130	3.44	20
p,p-DDT	0.040	0.041	0.050	7	79	83	70-130	4.36	20
Dieldrin	0.038	0.039	0.050	7	76	79	70-130	3.63	20
Endosulfan I	0.038	0.039	0.050	7	76	79	70-130	3.24	20
Endosulfan II	0.042	0.044	0.050	8	34	87	70-130	3.52	20
Endosulfan sulfate	0.042	0.043	0.050	8	34	87	70-130	3.57	20
Endrin	0.050	0.051	0.050	9	99	103	70-130	3.33	20
Endrin aldehyde	0.034	0.035	0.050	6	67	69	60-130	3.23	20
Endrin ketone	0.038	0.040	0.050	7	77	80	60-130	4.22	20
Heptachlor	0.038	0.039	0.050	7	76	79	43-130	4.18	20
Heptachlor epoxide	0.038	0.039	0.050	7	75	77	70-130	2.60	20
Methoxychlor	0.040	0.042	0.050	8	31	84	70-130	4.39	20
Aroclor1016	0.14	0.15	0.15	ç	93	98	70-130	200,F2	20
Aroclor1260	0.14	0.15	0.15	ç	90	97	70-130	200,F2	20
Surrogate Recovery									
Decachlorobiphenyl	0.035	0.037	0.050	7	70	75	60-130	5.91	20

Client:	NRG Energy, LLC
Date Prepared:	08/02/2023
Date Analyzed:	08/02/2023
Instrument:	GC10
Matrix:	Water
Project:	Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
BatchID:	275071
Extraction Method:	E624.1
Analytical Method:	E624.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-275071

QC Summary Report for E624.1 MB MDL RL SPK MB SS MB SS Analyte Result Val %REC Limits Acrolein (Propenal) ND 3.7 5.0 ---Acrylonitrile ND 0.27 2.0 ---2-Chloroethyl Vinyl Ether ND 0.52 1.0 ---Surrogate Recovery Dibromofluoromethane 26 25 104 70-130 Analyte LCS LCSD SPK LCS LCSD LCS/LCSD RPD RPD Result Result Val %REC %REC Limits Limit Acrolein (Propenal) 20 22 25 20 108 125 71-140 14.5 Acrylonitrile 24 23 20 120 113 67-145 5.45 20 2-Chloroethyl Vinyl Ether 70-124 5.22 23 22 20 117 111 20 Surrogate Recovery Dibromofluoromethane 28 26 25 106 70-130 6.06 20 112

Client:	NRG Energy, LLC
Date Prepared:	08/02/2023
Date Analyzed:	08/02/2023
Instrument:	GC16
Matrix:	Water
Project:	Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
BatchID:	275004
Extraction Method:	E624.1
Analytical Method:	E624.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-275004

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzene	ND	0.034	0.20	-	-	-
Bromodichloromethane	ND	0.022	0.050	-	-	-
Bromoform	0.41,J	0.10	0.50	-	-	-
Bromomethane	ND	0.26	0.50	-	-	-
Carbon tetrachloride	ND	0.033	0.050	-	-	-
Chlorobenzene	ND	0.092	0.50	-	-	-
Chloroethane	ND	0.23	0.50	-	-	-
Chloroform	ND	0.015	0.10	-	-	-
Chloromethane	ND	0.18	0.50	-	-	-
Dibromochloromethane	ND	0.069	0.15	-	-	-
1,2-Dichlorobenzene	ND	0.11	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.12	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.11	0.50	-	-	-
1,1-Dichloroethane	ND	0.14	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.011	0.020	-	-	-
1,1-Dichloroethene	ND	0.0036	0.010	-	-	-
trans-1,2-Dichloroethene	ND	0.12	0.50	-	-	-
1,2-Dichloropropane	ND	0.029	0.20	-	-	-
cis-1,3-Dichloropropene	ND	0.13	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.20	0.50	-	-	-
Ethylbenzene	ND	0.14	0.50	-	-	-
Methylene chloride	ND	0.75	2.0	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.018	0.020	-	-	-
Tetrachloroethene	ND	0.028	0.20	-	-	-
Toluene	ND	0.096	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.14	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.026	0.20	-	-	-
Trichloroethene	ND	0.030	0.50	-	-	-
Trichlorofluoromethane	ND	0.13	0.50	-	-	-
Vinyl chloride	ND	0.0027	0.0050	-	-	-
Surrogate Recovery						
Dibromofluoromethane	28			25	113	70-130
Toluene-d8	25			25	99	70-130
4-BFB	2.5			2.5	98	70-130

NRG Energy, LLC
08/02/2023
08/02/2023
GC16
Water
Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
BatchID:	275004
Extraction Method:	E624.1
Analytical Method:	E624.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-275004

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzene	4.0	3.8	4	99	94	65-130	5.08	20
Bromodichloromethane	4.0	3.8	4	99	95	60-130	3.69	20
Bromoform	3.9	3.7	4	97	92	70-130	4.49	20
Bromomethane	5.2	4.7	4	131,F2	118	50-130	10.9	20
Carbon tetrachloride	4.1	3.9	4	103	98	70-130	4.41	20
Chlorobenzene	4.4	4.2	4	109	106	65-130	2.82	20
Chloroethane	4.4	4.2	4	111	106	60-140	4.13	20
Chloroform	3.8	3.7	4	95	92	70-130	3.59	20
Chloromethane	4.7	4.4	4	117	109	50-130	7.03	20
Dibromochloromethane	4.0	3.9	4	101	97	70-130	3.65	20
1,2-Dichlorobenzene	4.1	4.0	4	103	100	65-130	2.71	20
1,3-Dichlorobenzene	4.3	4.2	4	107	105	70-130	1.55	20
1,4-Dichlorobenzene	4.1	4.2	4	103	105	65-130	1.61	20
1,1-Dichloroethane	4.4	4.2	4	109	106	70-130	3.31	20
1,2-Dichloroethane (1,2-DCA)	3.7	3.5	4	92	87	70-130	5.39	20
1,1-Dichloroethene	3.9	3.8	4	98	94	60-130	4.09	20
trans-1,2-Dichloroethene	4.3	4.2	4	108	104	70-130	3.79	20
1,2-Dichloropropane	4.0	3.9	4	100	97	60-130	3.78	20
cis-1,3-Dichloropropene	4.0	3.9	4	99	98	60-130	1.73	20
trans-1,3-Dichloropropene	4.0	3.8	4	99	96	60-130	3.35	20
Ethylbenzene	4.5	4.4	4	112	109	60-130	2.65	20
Methylene chloride	4.1	3.9	4	103	97	60-130	6.26	20
1,1,2,2-Tetrachloroethane	4.0	4.0	4	100	99	60-130	0.729	20
Tetrachloroethene	4.0	4.0	4	100	99	70-130	1.59	20
Toluene	4.2	4.1	4	104	103	70-130	1.21	20
1,1,1-Trichloroethane	4.1	3.9	4	103	98	70-130	5.05	20
1,1,2-Trichloroethane	4.3	4.1	4	107	102	70-130	5.17	20
Trichloroethene	4.3	4.3	4	108	107	65-130	1.37	20
Trichlorofluoromethane	4.4	4.2	4	109	104	60-130	4.41	20
Vinyl chloride	2.1	2.0	2	105	98	60-130	7.43	20
Surrogate Recovery								
Dibromofluoromethane	29	27	25	115	107	70-130	6.49	20
Toluene-d8	28	26	25	111	106	70-130	4.81	20
4-BFB	2.6	2.4	2.5	105	96	70-130	8.74	20

Client:	NRG Energy, LLC
Date Prepared:	08/02/2023
Date Analyzed:	08/02/2023
Instrument:	GC21
Matrix:	Water
Project:	Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
BatchID:	274948
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-274948

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.0029	0.0050	-	-	-
Acenaphthylene	ND	0.0018	0.0050	-	-	-
Anthracene	ND	0.0020	0.0050	-	-	-
Benzidine	ND	2.7	5.0	-	-	-
Benzo (a) anthracene	ND	0.020	0.050	-	-	-
Benzo (a) pyrene	ND	0.0050	0.0050	-	-	-
Benzo (b) fluoranthene	ND	0.0053	0.010	-	-	-
Benzo (g,h,i) perylene	ND	0.0039	0.010	-	-	-
Benzo (k) fluoranthene	ND	0.0050	0.010	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.51	1.0	-	-	-
Bis (2-chloroethyl) Ether	ND	0.0050	0.0050	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.0049	0.010	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.13	0.25	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.29	1.0	-	-	-
Butylbenzyl Phthalate	ND	0.081	0.25	-	-	-
4-Chloro-3-methylphenol	ND	0.59	1.0	-	-	-
2-Chloronaphthalene	ND	0.56	1.0	-	-	-
2-Chlorophenol	ND	0.036	0.050	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.49	1.0	-	-	-
Chrysene	ND	0.0027	0.0050	-	-	-
Dibenzo (a,h) anthracene	ND	0.0052	0.010	-	-	-
Di-n-butyl Phthalate	ND	0.078	0.25	-	-	-
1,2-Dichlorobenzene	ND	0.53	1.0	-	-	-
1,3-Dichlorobenzene	ND	0.59	1.0	-	-	-
1,4-Dichlorobenzene	ND	0.44	1.0	-	-	-
3,3-Dichlorobenzidine	ND	0.0062	0.010	-	-	-
2,4-Dichlorophenol	ND	0.0056	0.010	-	-	-
Diethyl Phthalate	ND	0.021	0.050	-	-	-
2,4-Dimethylphenol	ND	0.53	1.0	-	-	-
Dimethyl Phthalate	ND	0.0059	0.010	-	-	-
4,6-Dinitro-2-methylphenol	ND	3.7	5.0	-	-	-
2,4-Dinitrophenol	ND	0.68	1.0	-	-	-
2,4-Dinitrotoluene	ND	0.027	0.050	-	-	-
2,6-Dinitrotoluene	ND	0.030	0.050	-	-	-
Di-n-octyl Phthalate	ND	1.2	2.5	-	-	-
1,2-Diphenylhydrazine	ND	0.42	1.0	-	-	-
Fluoranthene	ND	0.0038	0.010	-	-	
Fluorene	ND	0.0018	0.010	-	-	-

Client:	NRG Energy, LLC
Date Prepared:	08/02/2023
Date Analyzed:	08/02/2023
Instrument:	GC21
Matrix:	Water
Project:	Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
BatchID:	274948
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-274948

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Hexachlorobenzene	ND	0.0017	0.0050	-	-	-
Hexachlorobutadiene	ND	0.0011	0.0050	-	-	-
Hexachlorocyclopentadiene	ND	2.3	5.0	-	-	-
Hexachloroethane	ND	0.0034	0.010	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.0070	0.010	-	-	-
Isophorone	ND	0.45	1.0	-	-	-
Naphthalene	ND	0.0063	0.010	-	-	-
Nitrobenzene	ND	0.61	1.0	-	-	-
2-Nitrophenol	ND	3.0	5.0	-	-	-
4-Nitrophenol	ND	3.6	5.0	-	-	-
N-Nitrosodimethylamine	ND	3.6	5.0	-	-	-
N-Nitrosodiphenylamine	ND	0.36	1.0	-	-	-
N-Nitrosodi-n-propylamine	ND	0.60	1.0	-	-	-
Pentachlorophenol	ND	0.16	0.25	-	-	-
Phenanthrene	0.0038,J	0.0036	0.0050	-	-	-
Phenol	ND	0.019	0.040	-	-	-
Pyrene	ND	0.0028	0.0050	-	-	-
1,2,4-Trichlorobenzene	ND	0.52	1.0	-	-	-
2,4,6-Trichlorophenol	ND	0.0053	0.010	-	-	-
Surrogate Recovery						
2-Fluorophenol	2.3			5	46	20-103
Phenol-d5	1.7			5	34	20-120
Nitrobenzene-d5	3.8			5	76	61-130
2-Fluorobiphenyl	3.5			5	69	63-115
2,4,6-Tribromophenol	4.3			5	87	48-149
4-Terphenyl-d14	3.4			5	67	32-113

Client:	NRG Energy, LLC
Date Prepared:	08/02/2023
Date Analyzed:	08/02/2023
Instrument:	GC21
Matrix:	Water
Project:	Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
BatchID:	274948
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-274948

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.22	0.23	0.25	88	94	60-132	6.21	25
Acenaphthylene	0.21	0.22	0.25	84	89	54-126	6.79	25
Anthracene	0.25	0.27	0.25	99	108	60-130	9.46	25
Benzidine	14	14	25	54	57	20-130	5.57	25
Benzo (a) anthracene	0.26	0.27	0.25	104	109	60-130	4.06	25
Benzo (a) pyrene	0.28	0.29	0.25	110	116	60-130	5.14	25
Benzo (b) fluoranthene	0.26	0.28	0.25	106	111	60-130	4.63	25
Benzo (g,h,i) perylene	0.28	0.29	0.25	110	116	50-130	5.21	25
Benzo (k) fluoranthene	0.31	0.32	0.25	122	127	60-130	3.90	25
Bis (2-chloroethoxy) Methane	4.0	4.4	5	79	87	65-130	9.69	25
Bis (2-chloroethyl) Ether	0.19	0.19	0.25	74	74	60-130	0.0637	25
Bis (2-chloroisopropyl) Ether	0.17	0.19	0.25	69	78	63-139	11.8	25
Bis (2-ethylhexyl) Phthalate	0.30	0.31	0.25	120	125	60-130	4.06	25
4-Bromophenyl Phenyl Ether	4.5	4.7	5	91	95	65-120	4.29	25
Butylbenzyl Phthalate	0.29	0.30	0.25	116	119	60-140	2.47	25
4-Chloro-3-methylphenol	4.4	5.1	5	88	103	65-130	14.9	25
2-Chloronaphthalene	4.2	4.5	5	83	90	65-120	8.34	25
2-Chlorophenol	0.17	0.20	0.25	70	79	60-130	13.0	25
4-Chlorophenyl Phenyl Ether	4.4	4.8	5	88	95	65-130	8.20	25
Chrysene	0.27	0.28	0.25	107	110	70-130	2.92	25
Dibenzo (a,h) anthracene	0.27	0.29	0.25	106	115	50-130	7.98	25
Di-n-butyl Phthalate	0.29	0.31	0.25	116	125	60-130	7.84	25
1,2-Dichlorobenzene	3.2	3.6	5	63	71	60-130	11.5	25
1,3-Dichlorobenzene	3.1	3.4	5	62	68	60-130	10.3	25
1,4-Dichlorobenzene	3.0	3.4	5	60	68	60-130	12.1	25
3,3-Dichlorobenzidine	0.25	0.26	0.25	99	105	60-130	5.71	25
2,4-Dichlorophenol	0.19	0.21	0.25	77	85	53-122	10.3	25
Diethyl Phthalate	0.21	0.23	0.25	85	91	65-130	6.56	25
2,4-Dimethylphenol	3.4	4.1	5	69	82	60-130	17.8	25
Dimethyl Phthalate	0.11	0.12	0.25	46,F5	48,F5	60-130	4.42	25
4,6-Dinitro-2-methylphenol	24	26	25	96	105	60-130	9.41	25
2,4-Dinitrophenol	4.4	4.8	5	87	97	50-130	10.2	25
2,4-Dinitrotoluene	0.29	0.32	0.25	114	129	70-130	11.9	25
2,6-Dinitrotoluene	0.28	0.31	0.25	113	126	68-137	10.6	25
Di-n-octyl Phthalate	5.9	6.2	5	118	125	70-130	5.94	25
1,2-Diphenylhydrazine	4.5	4.9	5	89	98	65-130	9.25	25
Fluoranthene	0.27	0.29	0.25	108	117	65-130	8.00	25
Fluorene	0.24	0.26	0.25	95	103	70-120	8.63	25

NRG Energy, LLC
08/02/2023
08/02/2023
GC21
Water
Marsh Landing; DDSD Semi-Annual

WorkOrder:	2308017
BatchID:	274948
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-274948

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Hexachlorobenzene	0.22	0.24	0.25	89	95	60-130	6.98	25
Hexachlorobutadiene	0.16	0.18	0.25	63,F5	72	68-130	12.3	25
Hexachlorocyclopentadiene	14	15	25	56	61	50-130	9.23	25
Hexachloroethane	0.15	0.17	0.25	61	68	55-120	11.1	25
Indeno (1,2,3-cd) pyrene	0.27	0.28	0.25	109	114	50-130	4.32	25
Isophorone	3.6	4.0	5	72	81	52-130	11.6	25
Naphthalene	0.16	0.18	0.25	65,F5	72	70-130	11.2	25
Nitrobenzene	3.8	4.4	5	76	89	60-130	15.8	25
2-Nitrophenol	22	26	25	88	104	70-130	16.3	25
4-Nitrophenol	11	12	25	44	49	30-130	10.8	25
N-Nitrosodimethylamine	12	13	25	47	54	30-130	13.8	25
N-Nitrosodiphenylamine	4.9	5.1	5	98	103	65-130	5.26	25
N-Nitrosodi-n-propylamine	4.1	4.2	5	83	84	59-130	2.18	25
Pentachlorophenol	1.3	1.4	1.25	100	111	60-130	10.1	25
Phenanthrene	0.24	0.26	0.25	96	102	65-120	6.49	25
Phenol	0.35	0.40	1	35,F5	40,F5	48-120	12.8	25
Pyrene	0.28	0.28	0.25	112	113	70-120	0.987	25
1,2,4-Trichlorobenzene	3.2	3.8	5	64	76	57-130	16.5	25
2,4,6-Trichlorophenol	0.24	0.26	0.25	96	104	69-130	7.90	25
Surrogate Recovery								
2-Fluorophenol	2.0	2.2	5	39	43	20-103	9.02	25
Phenol-d5	1.5	1.7	5	30	33	20-120	10.2	25
Nitrobenzene-d5	3.6	4.2	5	72	84	61-130	14.6	25
2-Fluorobiphenyl	3.6	3.8	5	72	76	63-115	5.35	25
2,4,6-Tribromophenol	4.6	5.0	5	93	100	48-149	7.04	25
4-Terphenyl-d14	3.4	3.4	5	69	69	32-113	0.0496	25

Client:	NRG Energy, LLC	WorkOrder:	2308017
Date Prepared:	08/02/2023	BatchID:	274981
Date Analyzed:	08/02/2023	Extraction Method:	E350.1
Instrument:	WC_SKALAR	Analytical Method:	E350.1
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing; DDSD Semi-Annual	Sample ID:	MB/LCS/LCSD-274981

	QC Summary Report for E350.1								
Analyte	MB Result		MDL	RL					
Ammonia, total as N	ND		0.095	0.10		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ammonia, total as N	4.0	4.0	4		100	101	88-113	1.07	20

Client:	NRG Energy, LLC	WorkOrder:	2308017
Date Prepared:	08/02/2023	BatchID:	274950
Date Analyzed:	08/02/2023	Extraction Method:	Kelada-01
Instrument:	WC_Skalar3	Analytical Method:	Kelada-01
Matrix:	Water	Unit:	μg/L
Project:	Marsh Landing; DDSD Semi-Annual	Sample ID:	MB/LCS/LCSD-274950

QC Summary Report for Kelada-01									
Analyte	MB Result		MDL	RL					
Total Cyanide	ND		0.62	1.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	49	52	50		99	105	90-110	5.82	20

Client:	NRG Energy, LLC	WorkOrder:	2308017
Date Prepared:	08/04/2023	BatchID:	275175
Date Analyzed:	08/04/2023	Extraction Method:	E420.4
Instrument:	WC_SKALAR	Analytical Method:	E420.4
Matrix:	Water	Unit:	μg/L
Project:	Marsh Landing; DDSD Semi-Annual	Sample ID:	MB/LCS/LCSD-275175

	QC Sur	QC Summary Report for E420.4							
Analyte	MB Result		MDL	RL					
Phenolics	ND		1.4	2.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Phenolics	40	40	40		100	99	80-120	1.50	20

McCampbell Analy	tical, Inc.		CHAII	N-OF-	CUST	DDY F	RECOR	Pa	ge 1 of 1
Pittsburg, CA 94565-1701 (925) 252-9262	WaterTrax		WorkOrd DF EQuIS	e r: 23080 1	L7 Veight ☑	ClientCo Email Excel	de: GOA	QuoteID	: 212372 y
Report to: David Frandsen	Email: David.	Frandsen@nrc.com		Bill to: Accounts	Pavable		R	equested TAT:	5 days;
NRG Energy, LLC 3201 Wilbur Avenue Antioch, CA 94509 (925) 427-3479 FAX: (925)	cc/3rd Party: joe.mc PO: 45019 Project: Marsh 779-6679	14176 Landing; DDSD Ser	es.robinson@nrg. mi-Annual	NRG 112 Telly New Roa invoices@	Street ds, LA 7076 2nrg.com	0	L L	Date Received: Date Logged:	08/01/2023 08/01/2023
						Reques	ted Tests (See	e legend below)	
Lab ID	ClientSampID	Matrix	Collection Date	Hold 1	2 3	4	5 6	7 8 9	10 11 12
2308017-001	IW-001	Water	8/1/2023 10:30	В	A F	G	H I I	E C D	A

Test Legend:

1	1664A_SG_W	2
5	624ACR+2CEVE_W	6
9	PHENOLICS_W(ppm)	10

2	1664A_W	
6	625_SCSM_W	
10	PRDisposal Fee	1

3	608_W
7	AMMONIA_W
11	

4	624_W
8	CN_PPM_W
12	

Project Manager: Susan Thompson

Prepared by: Lilly Ortiz

Comments: Use QUOTE 212372 for any Marsh Landing projects to get correct analyte list. Always report in mg/L.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Client	Name: Contact:	NRG ENE David Fran	RGY, LLC		Project:	Marsh Landing; DDSD Semi-Annual						Work O QC I	rder: 230 .evel: LEV	8017 √EL 2	
Conta	ct's Email:	David.Fra	ndsen@nrg.	com	Comment	Comments Use QUOTE 212372 for any Marsh Landing projects to get correct analyte list. Always report in mg/L.							gged: 8/1/	2023	
			Water	Trax CLIP EDF	Exc	el EQuIS		√ Err	nail	HardCopy	Third	Party J-flag			
LabID	ClientS	ampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U** I S	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	IW-001		Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl				8/1/2023 10:30	5 days	8/8/2023	Present		
001B	IW-001		Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl				8/1/2023 10:30	5 days	8/8/2023	Present		
001C	IW-001		Water	Kelada-01 (Cyanide, Total)	1	250mL aHDPE w/ NaOH				8/1/2023 10:30	5 days	8/8/2023	Present		
001D	IW-001		Water	E420.4 (Phenolics)	1	250mL aG w/ H2SO4				8/1/2023 10:30	5 days	8/8/2023	Present		
001E	IW-001		Water	E350.1 (Ammonia)	1	250mL aG w/ H2SO4				8/1/2023 10:30	5 days	8/8/2023	Present		

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

	<u>McCamp</u> "w	bell Analytico hen Quality Counts''	al, Inc.			Tol http:/	1534 Willo Il Free Telep //www.mcca	w Pass Road, Pittsburg, phone: (877) 252-9262 / ampbell.com / E-mail: m	CA 94565-1 Fax: (925) 25 ain@mccamp	701 52-9269 pbell.com			
			W	ORK OR	DER SUM	MARY							
Client Name: N	RG ENERGY, LLC			Project:	Marsh Landin	g; DDSD S	Semi-An	nual		Work O	order: 230	08017	
Client Contact: Da	avid Frandsen									QC I	Level: LE	VEL 2	2
Contact's Email: Da	avid.Frandsen@nrg.c	com		Comment	s Use QUOTE 2 correct analyte	12372 for an list. Always	y Marsh report in	Landing projects to mg/L.	o get	Date Lo	gged: 8/1	/2023	
	WaterT	Frax CLIP	EDF	Exc	cel EQu	IS 🔽 E	Email	HardCopy	Thirc	Party J-flag	9		
LabID ClientSam	pID Matrix	Test Name		Containers /Composites	Bottle & Preservative	U** Head Spac	l Dry- e Weigh	Collection Date t & Time	ТАТ	Test Due Date	Sediment Content	Hold	Sub Out
001F IW-001	Water	E608.3 (OC Pesticides+F Clean-up) <a-bhc_1, al<br="">Aroclor1016_1, Aroclor1 Aroclor1232_1, Aroclor1 Aroclor1248_1, Aroclor1 Aroclor1260_1, Aroclor1 Aroclor1262_2, Aroclor1 Aroclor1268_2, b-BHC_1 (Technical)_1, d-BHC_1. Endosulfan sulfate_1, En aldehyde_1, Endrin_1, g- Heptachlor epoxide_1, H p,p-DDD_1, p,p-DDE_1, Toxaphene_1></a-bhc_1,>	CBs w/ Florisil drin_1, 221_1, 242_1, 254_1, 268_1, 1, Chlordane Dieldrin_1, an II_1, drin BHC_1, pptachlor_1, p,p-DDT_1,	1	1LA Narrow Mout Unpres	n,		8/1/2023 10:30	5 days	8/8/2023	Present		

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		McCamp "N	bell Analytic Then Quality Counts'	al, Inc.				1 Toll 1 http://v	534 Willov Free Telep www.mcca	w Pass Road, Pittsburg, (hone: (877) 252-9262 / H impbell.com / E-mail: ma	CA 94565-1 Fax: (925) 25 nin@mccamp	701 52-9269 obell.com			
				W	ORK ORI	DER SUM	MA	RY							
Clien	t Name: NRG E	ENERGY, LLC			Project:	Marsh Landin	ıg; DI	DSD Se	emi-An	nual		Work	Order: 230)8017	
Client Conta	t Contact: David I act's Email: David.I	Frandsen Frandsen@nrg.	com		Comments	Use QUOTE 2 correct analyte	12372 list. A	for any Jways r	Marsh I eport in	Landing projects to mg/L.	o get	QC Date 1	C Level: LE Logged: 8/1	VEL 2 /2023	,
		Water	Trax CLIP	EDF	Exce	EQu	IS	🖌 En	nail	HardCopy	Thirc	IParty √ J-1	flag		
LabID	O ClientSampID	Matrix	Test Name		Containers /Composites	Bottle & Preservative	U**	[:] Head Space	Dry- Weight	Collection Date & Time	ТАТ	Test Due Da	te Sediment Content	Hold	Sub Out
001G	IW-001	Water	E624.1 (VOCs) <1,1,1-T 1,1,2,2-Tetrachloroethan Trichloroethane, 1,1-Dic Dichloroethane, 1,2-Dicl 1,2-Dichloroethane (1,2- Dichloropropane, 1,3-Di 1,4-Dichlorobenzene, Be Bromodichloromethane, Bromomethane, Carbon Chlorobenzene, Chloroe Chloroform, Chlorometh Dichloropropene, Dibromochloromethane, Methylene chloride, Tetr Toluene, trans-1,2-Dichl 1,3-Dichloropropene, Tr Trichlorofluoromethane,	Frichloroethane, ne, 1,1,2- chloroethane, 1,1- hlorobenzene, DCA), 1,2- ichlorobenzene, enzene, Bromoform, tetrachloride, thane, nane, cis-1,3- Ethylbenzene, rachloroethene, trans- ichloroethene, Vinyl chloride>	2	VOA w/ HCl				8/1/2023 10:30	5 days	8/8/2023	Present		
001H	IW-001	Water	E624.1 (ACRO, ACRY,	& 2-CEVE)	2	VOA, Unpres				8/1/2023 10:30	5 days	8/8/2023	Present		

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

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	<u>Mc</u>	:Camp "W	bbell Analytical, Inc. When Quality Counts''			Toll http://	1534 Willov Free Telep /www.mcca	w Pass Road, Pittsburg, hone: (877) 252-9262 / 1 mpbell.com / E-mail: ma	CA 94565-1 Fax: (925) 2: ain@mccamp	1701 52-9269 pbell.com			
			W	ORK OR	RDER SUM	MARY							
Client Name: Client Contact: Contact's Email:	NRG ENE David Fran David.Fran	RGY, LLC dsen dsen@nrg.	com	Project: Comment	Marsh Landin ts Use QUOTE 21	g; DDSD S	emi-Ani y Marsh I	nual Landing projects to	o get	Work O QC I Date Lo	rder: 230 Level: LEV gged: 8/1/	8017 VEL 2 2023	
		Water	Trax CLIP ED	F 🗌 Exe		S SE	mail	mg/∟. □HardCopy	Third	dParty 🖌 J-flaç	J		
LabID ClientSa	mpID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U** Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold Su Ou	ıb ut
001I IW-001		Water	E625.1 (SVOCs) <1,2,4- Trichlorobenzene, 1,2-Dichlorobenzene 1,2-Diphenylhydrazine, 1,3- Dichlorobenzene, 1,4-Dichlorobenzene 2,4,6-Trichlorophenol, 2,4- Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2- Chloronaphthalene, 2-Chlorophenol, 2- Nitrophenol, 3,3-Dichlorobenzidine, 4, Dinitro-2-methylphenol, 4-Bromophen Phenyl Ether, 4-Chloro-3-methylphenol 4-Chlorophenyl Phenyl Ether, 4- Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzidin Benzo (a) anthracene, Benzo (a) pyrene Benzo (b) fluoranthene, Bis (2- chloroethoxy) Methane, Bis (2- chloroisopropyl) Ether, Bis (2- ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h)	1 2, 6, 9, 1 6- 91 1, 2-	1LA Narrow Mouth Unpres	·,		8/1/2023 10:30	5 days	8/8/2023	Present		

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

	<u>Mc</u>	Camp "W	bell / hen Qua	Analytica Lity Counts''	l <u>, Inc.</u>		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com									
					W	ORK ORI	DER SUM	IMAR	RY							
Client Name: Client Contact	NRG ENE	RGY, LLC dsen				Project:	Marsh Landir	ıg; DDS	D Semi-Ani	nual		Work C QC 1	order: 230 Level: LE	08017 VEL 2		
Contact's Ema	il: David.Fran	dsen@nrg.c	om			Comments	Use QUOTE 2 correct analyte	12372 fo list. Alw	r any Marsh l ays report in	Landing projects to mg/L.	o get	Date Lo	gged: 8/1/	/2023		
		WaterT	rax		EDF	Exce	el 📃 EQu	IS	✓ Email	HardCopy	ThirdPa	arty 🖌 J-flag	9			
LabID Clier	ntSampID	Matrix	Test N	lame		Containers /Composites	Bottle & Preservative	U** H Sj	lead Dry- pace Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold Sub Out		
			anthrac Phthala octyl Pl Hexach Hexach Hexach Hexach yrene, Nitrobe N-Nitro Nitroso Pentach Phenol,	ene, Diethyl Phthala te, Di-n-butyl Phthala hthalate, Fluoranther lorobenzene, lorobutadiene, lorocyclopentadiene lorocthane, Indeno (Isophorone, Naphth mzene, N-Nitrosodir ssodi-n-propylamine, diphenylamine, nlorophenol, Phenan Pyrene>	tte, Dimethyl late, Di-n- ne, Fluorene, (1,2,3-cd) ialene, nethylamine, , N- threne,											

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

2303017

Chain of Custody Page 1 of 3-Semi-Annual

Marsh Landing Generating Station 3201 Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509 Phone: (925) 779-6500 Fax: (925) 779-6509

	- Show	SAMPI	LES SUBMITT	ED TO			SEND INVOIC	E TO		Р	ROJECT		MANE	ANALYSIS REC	UEST	
Laboratory: Attention: Address: Phone/Fax:		1534 Wille	McCampbell ow Pass Road, 925.252.9262	Analytical, In Pittsburg, CA 2/ 925.252.9269	IC. 94565-1701 9 MRI E INFORM		Company: Marsh Li Attention: Accoun Address: Invises Cele P.O. No.: 4501	anding LLC ts Payable anvayenergy com 914176	Plant: Title: Phase: Manager:	CONTAINS	Marsh Lan DDSD Semi-Ann David Fran	ding hual dsen	d Grease vegetable) ¹ thod 1664A)	d Grease imMineral) ² thod 1664A)		
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Descri	ption	Number	Туре	Volume (each, L)	Preserv.	Oil an (animal/ (EPA Me	Oil an (Petroleu (EPA Me		
ML-23-071	8/1/2023	1030	DDSD	Semi-Annua	Wastewater	Grab	IW-001		1	Amber Glass Jar	1	Hydrochloric Acid (pH<2, 4°C)	x			
ML-23-072	8/1/2023	1030	DDSD	Semi-Annua	Wastewater	Grab	IW-001		1	Amber Glass Jar	1	Hydrochloric Acid (pH<2, 4°C)		x		
	REPO	RTING		LAB	ORATORY NOT	ES RE: SA					DIRECTIONS	HOLDING TIME	28 days	28 days		
Christian Title: Address: Phone/Fax: E-mail E-mail CC: E-mail CC:	Environr 9 <u>dav</u> jam	David Frands nental Special P.O. Box 16 Antioch, CA 94 (25.324-3533// d.frandsen@r as.robinson@u ne.moura@nrg	ist/Engineer 87 1509 6509 <u>org.com</u> <u>org.com</u> L.com					STANDARD TAT (5-day). Establish calibration standards so Minimum Level (ML) value is the lowest calibration stand the lowest quantifiable concentration or Reporting Limit (RL). Report "Detected, but Not Quantified" (DNQ) with estimat flagged concentrations below the RL and include method detection limits (MDLs) in report. 1. Animal/Vegetable O/G 2. Petroleum/Mineral O/G Please report all results with the units of mg/L. RESULTS AND PRICING PER QUOTE ID: 212372. *Include sample description with client sample number ID.							alibration standard Q) with estimated 、	
Sampled by			PRINTED NA	ME			SIGNATURE	NRG		rvices			DATE 8/1/2023		TIME	
Relinquished by:			Ryan Robin	son	/	17	1 AM	NRG I	Energy Se	rvices			8/1/2023		1030	IISSA
Received by:	A	qus:	HinA	Y.	C	ZA	affinas -	McCamp	bell Analyt	ical, Inc.		8/1/2	2023		1155A	
Relinquished by:		/				U.	J ·									
Received by:																
Relinquished by:																
Received by:																

1.60,00

Chain of Custody Page 2 of 3-Semi-Annual

Marsh Landing Generating Station 3201 Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509 Phone: (925) 779-6500 Fax: (925) 779-6509

		SAMPL	ES SUBMITTI	ED TO				SEND INVOIC	ID INVOICE TO PROJECT				ANALYSIS RI	EQUEST				
Laboratory:		N	AcCampbell	Analytical, In	с.		Company:	Marsh L	anding LLC	Plant:		Marsh Landing	3					
Attention:							Attention:	Accour	ts Payable	Title:		DDSD			(4)	20		
Address:		1534 Willo	w Pass Road,	Pittsburg, CA 9	94565-1701		Address:	invoices@cl	anwayenergy.com	Phase:		Semi-Annua		- ÷	42	as 35(
Phone/Fax:		A	925.252.9262	2/ 925.252.9269			P.O. No.:	4501	914176	Manager:		David Frandse	in	da-Ca	por	pod		
				SA	MPLE INFORM	ATION					CONTAINE	R INFORMATIC	N	yar	heth	heth		
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type		Sample Descr	ption	Number	Туре	Volume (each, mL)	Preserv.	Ο¥)	EPA N	Amr (EPA N		
ML-23-073	8/1/2023	1030	DDSD	Semi-Annual	Wastewater	Grab		IW-001		1	HDPE Bottle	250	HNO3 (pH<2)	x				
ML-23-074	8/1/2023	1030	DDSD	Semi-Annual	Wastewater	Grab		IW-001		1	Amber Glass Jar	500	H ₂ SO ₄ (pH<2, 4°C)		x			
ML-23-075	8/1/2023	1030	DDSD	Semi-Annual	Wastewater	C-24		IW-001		1	Amber Glass Jar	500	H ₂ SO ₄ (pH<2, 4°C)			x		
												н	OLDING TIME:	14 days	28 days	28 days		
	REPO	RTING		LABO	DRATORY NOT	ES RE: SA	MPLE RECEIPT/C	ONDITION				DIRECTIONS F	OR LABORATO	RY				
Original to:	-	David Frands	en	Cyanide sa	mple pretrea	ted with so	odium thiosulfat	te prior to	STANDARD TAT (5-da	y). Establ	ish calibratio	on standards so	o Minimum Lev	el (ML) valu	ue is the lowest	calibration st	andard,	
Title:	Environn	nental Speciali	st/Engineer	preservatio	n with sodiur	n hydroxid	e.		the lowest quantifiable	concentratio	on or Report	ing Limit (RL).	Report "Detec	ted, but Not	t Quantified" (DI	NQ) with estir	nated J-	
Address:		P.U. BOX 160	500	1					flagged concentrations	below the F	RL and inclue	de method dete	ection limits (M	DLs) in repo	ort.			
Phone/Eax	- 0	25 324-3533/6	509															
F-mail:	davi	d.frandsen@n	ra.com						1 Cyanide sample was	nretreated	with codium	thiosulfate priv	or to preservati	ion with cod	ium hydroxido			
E-mail CC:	jame	s.robinson@n	rg.com						Discos sample was	pretreated	with source	runosulate pric	or to preservati	Ion with Sou	ium nyuroxide.			
E-mail CC:	jo	e.moura@nrg.	com						Please report al	results	s with th	e units of	mg/L.					
									RESULTS AND	PRICING	g per q	UOTE ID:	212372.					
									*Include sample des	scription v	with client	sample num	ber ID.					
			PRINTED NA	ME			SIGNATUR	E		COMPAN	Y			DATE		TIM	E	
Sampled by:		1	Ryan Robins	son		T	1.1	1 s	NRG	Energy S	ervices			8/1/2023	3	103	0	
Relinquished by:			Ryan Robins	son	/	TA	TH-Y	2P	NRG	Energy S	ervices			8/1/2023	3	1130	5	11551
Received by:	A	9054	INA	γ .	0	IN	ietin	var.	McCan	npbell Anal	lytical, Inc.		8/1/	202:	3	1155	A	
Relinquished by:	-0					K	\mathcal{I}	8										
Received by:																		
Relinquished by:																		
Received by:																		

Chain of Custody Page 3 of 3-Semi-Annual

Marsh Landing Generating Station 3201 Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509 Phone: (925) 779-6500 Fax: (925) 779-6509

		SAN	IPLES SUBM	ITTED TO		SEND INVOICE TO PROJECT ANALYSIS REQUEST												
Laboratory Attention Address Phone/Fax		1534 Wi	McCampbe low Pass Roa 925,252 92	II Analytical, In d, Pittsburg, CA 1 62/ 925 252 9269	94565-1701		Company: Marsh Landing LLC Attention: Accounts Payable Address: mossificiationsmemory P.O. No.: 4501914176		Plant Title Phase Manager		Marsh Landi DDSD Semi-Annu David Frandi	ng al	& PCBs nod 608)	Irganics hod 624)	rganics ¹ nod 624)	olatile nics nod 625)		
Thomest ax.		Charles and	CEO.EDE.DE	SAMPL	EINFORMAT	ON	P.O. NO.			wanager.	ONTAINER	INFORMAT	ON	Aeth	Aeth o	Vet	i-Ve	
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type		Sample Description		Number	Туре	Volume (each, mL)	Preserv.	Pestici (EPA A	Volatil (EPA h	Volatil (EPA N	Sem Or (EPA h	
ML-23-076	8/1/2023	1030	DDSD	Semi-Annual	Water	Grab		IW-001		1	Amber Glass	1,000	None (4°C)	x				
ML-23-077	8/1/2023	1036	DDSD	Semi-Annual	Water	Grab		IW-001		2	Clear VOA	43	HCL (ZHS, pH<2, 4°C)		x			
ML-23-078	8/1/2023	(030	DDSD	Semi-Annual	Water	Grab		IW-001		2	Clear VOA	43	None (4°C)			×		
ML-23-079	8/1/2023	1030	DDSD	Semi-Annual	Water	Grab		IW-001 sidered the "sample collection time" for the purpose of d			Amber Glass	1,000	None (4°C)				×	
For composite	samples, the	completion tim	e of the 24-hr co	omposite or the time	of the final sam	ple aliquot is co	insidered the "s	ample collection time" for the	e purpose of dete	ermining sample	a holding time.	н	DLDING TIME:	40 days	14 days	3 days	40 days	
Original to Title Address Phone/Fax E-mail E-mail CC E-mail CC	Environma Ar 92 <u>david</u> james joe	David Frands ental Special P.O. Box 16 htioch, CA 94 5.324-3533/ frandsen@r s.robinson@t .moura@nrg	ien list/Engineer 87 1509 5509 <u>irg.com</u> <u>irg.com</u> com						Standard calibration Not Quantii detection lii 1. VOCs- A Please RESUL *Include sa	rAT (5-DAY standard, th fied" (DNQ) mits (MDLs) acrolein, acry report a TS AND ample desc	S). Establi e lowest qu with estima in report. /lonitrile, ar II result PRICIN ription wit	ish calibratic uantifiable cr ated J-flagge nd 2cleave ts with ti IG PER h client sar	n standards s oncentration o ed concentration he units o QUOTE II nple number	o Minimum I r Reporting I ons below th of mg/L.): 21237 ID.	Level (ML) \ Limit (RL). le RL and in	value is the Report "Del Include meth	lowest lected, but od	
Sampled by			PRINTED N	AME Inson		81	SIGNA	ATURE			PANY Ny Service	s		DATE 8/1/2023		TI	IE	
elinquished by:			Ryan Rob	inson	/		1	The	2	NRG Energ	y Service	s		8/1/2023		10	0	1155A
Received by	A	1US	hr	Ar	-1	iai	MCCampbell Analytical, Inc. 8/1/2023 1155					SA						
elinquished by.	0					0	0,											
elinquished by									-									
Received by:																		

.



Sample Receipt Checklist

Client Name: Project:	NRG Energy, LLC Marsh Landing; DD	SD Semi-Annual		Date and Time Received:8/1/2023 11:55Date Logged:8/1/2023Received by:Agustina Venegas					
WorkOrder №: Carrier:	2308017 <u>Client Drop-In</u>	Matrix: <u>Water</u>			Logged by:	Lilly Ortiz			
		<u>Chain c</u>	of Custody	(COC) Infor	mation				
Chain of custody	present?		Yes	✓	No 🗌				
Chain of custody	signed when relinquis	shed and received?	Yes	\checkmark	No 🗌				
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌				
Sample IDs noted	d by Client on COC?		Yes	✓	No 🗌				
Date and Time of	collection noted by C	Client on COC?	Yes	✓	No 🗌				
Sampler's name	noted on COC?		Yes	✓	No 🗌				
COC agrees with	Quote?		Yes	✓	No 🗌	NA			
		Sa	mple Rece	ipt Informat	ion				
Custody seals int	act on shipping conta	iner/cooler?	Yes		No 🗌	NA 🗹			
Custody seals int	act on sample bottles	?	Yes		No 🗌	NA 🖌			
Shipping containe	er/cooler in good cond	dition?	Yes	✓	No 🗌				
Samples in prope	er containers/bottles?		Yes	✓	No 🗌				
Sample container	rs intact?		Yes	✓	No 🗌				
Sufficient sample	volume for indicated	test?	Yes	✓	No 🗌				
		Sample Preserv	vation and	<u>Hold Time (</u>	HT) Information				
All samples recei	ved within holding tim	e?	Yes	✓	No 🗌				
Samples Receive	ed on Ice?		Yes	✓	No 🗌				
		(Ice T	Type: WE	TICE)		_			
Sample/Temp Bla	ank temperature			Temp: 1.6	O°6				
ZHS conditional a requirement (VO	analyses: VOA meets Cs, TPHg/BTEX, RSk	zero headspace ()?	Yes	✓	No	NA			
Sample labels ch	ecked for correct pres	servation?	Yes	✓	No 🗌				
pH acceptable up <2; 522: <4; 218.	oon receipt (Metal: <2 7: >8)?	; Nitrate 353.2/4500NO3:	Yes		No 🗌	NA 🗹			
UCMR Samples: pH tested and a	acceptable upon rece	ipt (200.7: ≤2: 533: 6 - 8:	Yes		Νο				
537.1: 6 - 8)?	, , , , , , , , , , , , , , , , , , , ,	, ,							
Free Chlorine to [not applicable	ested and acceptable to 200.7]?	upon receipt (<0.1mg/L)	Yes		No 🗌	NA 🗹			



Industrial User Report Checklist And Certification Statement Form

Attn: Environmental Compliance S	Specialist		Jason Yun						
Environmental Specialist	Phone	(925) 756-1913	(925) 756-1913 Fax (925) 756-1961						
Industrial User Facility Name	e	Marsh Landing LLC							
Duly Authorized Representation	tive Name	Joe Moura							
Duly Authorized Representation	tive Phone	925-779-6685							

This Industrial User Report Checklist and Certification Statement Form shall be submitted with all Self-Monitoring Reports (SMRs), as specified by the Wastewater Discharge Permit issued by Delta Diablo, hereinafter referred to as the District. When submitting Self-Monitoring Reports, check all that are applicable.

Self-Monitoring Reports (SMRs) (Required)

Flow Discharge Summary (Review Discharge Permit.)

□ Calibration of Effluent Flow Meters; if applicable.



Quality Assurance/Quality Control (QA/QC) and Chain-of-Custody (COC) (Review Discharge Permit):

pH (field-grab) (shall be analyzed within 15 minutes of sample collection).

Results, collection time, analysis time and Technician's Initials shall be reported in the comments section of the respective COC. The pH meter shall be accurate and reproducible to 0.1 pH unit with a range of 0 to 14 and equipped with a temperature-compensation adjustment (Standard methods).

- □ Cyanide samples were tested for oxidizers and preserved with Sodium Hydroxide (NaOH). This shall be reported in the comments section on the respective COC, if applicable.
- Selenium lab analysis by EPA Method 200.8 by Reaction Mode: if applicable.

□ Total Phenolics lab analysis by EPA Method 420.4: if applicable.

- All sample analysis for regulatory compliance reporting shall be completed by an ELAP certified Laboratory.
- Certification Statement included (see attached)

Other requested data

Revised July 2014

RECEIVED

JAN 09 2024



Industrial User Report Checklist And Certification Statement Form

Violations (if applicable)

All wastewater discharge violations are reported during this period:

☐ The District was contacted within 24- hours of becoming aware of the violation. Date:

A follow-up resample was completed. Date:

Corrective actions implemented to resolve violation (Please explain in writing)

□ Significant Non-Compliance (SNC) Status Review Please circle the review period *: <u>January – June</u> and <u>July -December</u>.

The SIU shall conduct a SNC review for the previous completed period * prior to the Self-monitoring Report (SMR) due date. Examples: A <u>October SMR</u> due date, the SNC review period is **January – June** or an <u>April SMR</u> due date, the SNC review period is **July – December.**

The SNC definition can be found in 40 CFR 403.8.

- a) Chronic SNC=>66% of a regulated parameter in violation during six-month Period *.
- b) Technical Review Criteria (TRC) SNC = >33% of a regulated pollutant during a sixmonth period* equals or exceeds the product of the daily maximum limit or the average limit multiplied by the applicable TRC factor (1.4 for BOD, TSS and Oil/Grease and 1.2 for all other regulated pollutants except pH).

□ Is the SIU in SNC (as defined in <u>a</u> and/or <u>b</u>) for this period*? Yes □, No □; If yes, for what period? ________. Please report the SNC status to the District in the SMR and include corrective actions to resolve the SNC classification.

□ Other violations – i.e., reporting, spills to sewer, or prohibited discharges

All violations will be discussed in the cover letter of the Self-Monitoring Report.

Significant Changes

Anticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned changes shall be submitted at least 90 days prior to implementation, and shall include a detailed description of this change.



Industrial User Report Checklist And Certification Statement Form

Certification Statement

Industrial User Facility Name	Marsh Landing LLC
Industrial User Facility Address	3201-C Wilbur Avenue, Antioch, CA 94509
Duly Authorized Representative Phone	925-779-6685
Indicate Period Covered by This Report	October 1-December 31, 2023

Certification Statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations (40 CFR 403.6).

Duly Authorized Representative Signature	Joe Mann
Duly Authorized Representative Print	Joe Moura
Date	11812024

t



Marsh Landing LLC Marsh Landing Generating Station 3201-C Wilbur Avenue (shipping) PO Box 1687 (mailing) Antioch, CA 94509

January 8, 2024

Mr. Jason Yun Delta Diablo 2500 Pittsburg-Antioch Highway Antioch, CA 94509-1373

Subject: 2023 Fourth Quarterly (October 1-December 31) Self-Monitoring Report NRG Marsh Landing, LLC, Marsh Landing Generating Station, Industrial Wastewater Discharge Permit 0311963-S

This letter documents the transmittal of the 2023 Fourth Quarterly Self-Monitoring Report (SMR).

Compliance Statement (choose one):

 \square There were no violations of waste discharge requirements during the reporting period.

The following violation(s) of waste discharge requirements occurred during the reporting period, as described below:

Discussion:

This report is the SMR filed for the station and covers the period from October 1 through December 31, 2023 This report includes monthly flow data and quarterly analytical data required to be collected in 2023. Data are summarized in the attached tables.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. If you have any questions, please contact Mr. David Frandsen, Environmental Specialist at <u>david.frandsen@nrg.com</u> or call 925.779.6695.

Sincerely,

Joe Mum

Plant Manager NRG Marsh Landing, LLC Marsh Landing Generating Station

Attachments	
Table 1:	Quarterly Results for Combined Wastewater (FAC Combined)
Table 2:	October 2023 Monthly Flow Data
Table 3:	November 2023 Monthly Flow Data
Table 4:	December 2023 Monthly Flow Data

Attachment 1: pH COC Attachment 2: Analytical Reports

Table 1 - Quarterly Analytical Results

Quarterly Results for Combined Wastewater (FAC Combined)

Industrial User Name	Marsh Landing LLC	
Location	Marsh Landing Generating Station	
Permit Number	0311963-S	
SIC	4911	
Address	3201-C Wilbur Avenue	
	Antioch CA 94509	

Sample Station Location	IW-001
Sample Station Description	Local Limits FAC Combined Wastewater
Reporting Period	October - December 2023
Report Type	Quarterly

Constituent	Sample Date Permit Limit Result		Result	Units
Field pH	11/8/2023	6-10	7.46	S.U.
BOD	11/8/2023	-	8.2	mg/L
COD	11/8/2023	-	26	mg/L
Arsenic	11/8/2023	0.15	0.00053	mg/L
Cadmium	11/8/2023	0.1	ND	mg/L
Chromium	11/8/2023	0.5	0.00070	mg/L
Copper	11/8/2023	0.5	0.010	mg/L
Iron	11/8/2023	-	0.17	mg/L
Lead	11/8/2023	0.5	ND	mg/L
Mercury	11/8/2023	0.003	ND	mg/L
Molybdenum	11/8/2023	-	0.0018	mg/L
Nickel	11/8/2023	0.5	0.0036	mg/L
Selenium	11/8/2023	0.25	ND	mg/L
Silver	11/8/2023	0.2	ND	mg/L
Zinc	11/8/2023	1.0	0.026	mg/L
TDS	11/8/2023	-	406	mg/L
тѕѕ	11/8/2023	-	8.34	mg/L

J = The reported concentration is an estimated value.

mg/L = Milligrams per liter

ND = Not detected at or above the laboratory Method Detection Limit or Reporting Limit.

S.U. = Standard units

Table 2 October Flow Data

Industrial User Name	Marsh Landing LLC		
Location	Marsh Landing Generating Station		
Permit Number	0311963-S		
SIC	4911		
Address	3201-C Wilbur Avenue		
	Antioch CA 94509		
Sample Station Location	SouthWestt Corner of Admin Building		
Sample Station Description	Flow Monitoring Structure		
Reporting Period	October, 2023		
Report Type	Quarterly		
Constituent	Flow		
Sample Type	Continuously Measured (Rosemount 8705 Flanged Magnetic Flow Meter)		
Sample Date	10/1/2023 - 10/31/2023		
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 gpm +10% (23.1 gpm) for 15 consecutive minutes or 30 minutes in a 24-hour period		

			Minutes per Day of Flow
Day	Total Flow (gpd)	Instantaneous Max (gpm)	exceeding 23.1 gpm
1	-	0.00	
2	5,696	19.81	
3	5,623	19.56	
4	-	0.00	
5	4,165	20.34	
6	13,532	19.65	
7	3,471	19.56	
8	-	0.00	
9	-	0.00	
10	6,076	19.74	
11	-	0.00	
12	4,935	19.58	
13	3,842	19.64	
14	3,158	19.56	
15	416	16.51	
16	6,055	19.77	
17	-	0.00	
18	6,146	19.62	
19	13,068	19.68	
20	12,875	19.68	
21	15,649	21.12	
22	-	0.00	
23	2,956	19.61	
24	3,023	19.57	
25	6,425	19.58	
26	5,227	19.59	
27	8,085	19.75	
28	2,613	19.57	
29	4,342	19.58	
30	4,537	19.71	
31	-	0.00	

Total Monthly Flow (gal)	141,915	Did flow exceed limits?	NO
Daily Max Flow (gpd)	15,649	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	4,578		

Table 3 November Flow Data

Industrial User Name	Marsh Landing LLC		
Location	Marsh Landing Generating Station		
Permit Number	0311963-S		
SIC	4911		
Address	3201-C Wilbur Avenue		
	Antioch CA 94509		
Flow Station Location	SouthWestt Corner of Admin Building		
Flow Station Description	Flow Monitoring Structure		
Reporting Period	November, 2023		
Report Type	Quarterly		
Constituent	Flow		
Sample Type	Continuously Measured (Rosemount 8705 Flanged Magnetic Flow Meter)		
Sample Date	11/1/2023 - 11/30/2023		
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 gpm +10% (23.1 gpm) for 15 consecutive minutes or 30 minutes in a 24-hour period		

			Minutes per Day of Flow
Day	Total Flow (gpd)	Instantaneous Max (gpm)	exceeding 23.1 gpm
1	-	0.00	
2	438	17.15	
3*	-	0.00	
4	-	0.00	
5	-	0.00	
6	-	0.00	
7	9,033	15.39	
8	19,829	19.69	
9	4,964	19.82	
10	4,196	19.68	
11	6,750	19.68	
12	5,364	19.59	
13	25,367	19.62	
14	4,915	19.58	
15	3,045	19.58	
16	11,291	19.62	
17	388	15.77	
18	-	0.00	
19	-	0.00	
20	4,065	19.61	
21	384	14.96	
22	6,250	19.67	
23	4,351	19.59	
24	4,263	19.62	
25	6,930	19.62	
26	-	0.00	
27	6,690	19.65	
28	6,982	19.61	
29	-	0.00	
30	14,675	19.65	

* - Nov 3rd Includes 25 hours of flow data -- Time Change

Total Monthly Flow (gal)	150,169	Did flow exceed limits?	NO
Daily Max Flow (gpd)	25,367	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	5,006		

Table 4 December Flow Data

Industrial User Name	Marsh Landing LLC		
Location	Marsh Landing Generating Station		
Permit Number	0311963-S		
SIC	4911		
Address	3201-C Wilbur Avenue		
	Antioch CA 94509		
Flow Station Location	SouthWestt Corner of Admin Building		
Flow Station Description	Flow Monitoring Structure		
Reporting Period	December, 2023		
Report Type	Quarterly		
Constituent	Flow		
Sample Type	Continuously Measured (Rosemount 8705 Flanged Magnetic Flow Meter)		
Sample Date	12/1/2023 - 12/31/2023		
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 gpm +10% (23.1 gpm) for 15 consecutive minutes or 30 minutes in a 24-hour period		

			Minutes per Day of Flow
Day	Total Flow (gpd)	Instantaneous Max (gpm)	exceeding 23.1 gpm
1	372	15.68	
2	-	0.00	
3	-	0.00	
4	2,686	20.13	
5	2,089	19.67	
6	382	15.81	
7	12,345	19.65	
8	-	0.00	
9	-	0.00	
10	-	0.00	
11	388	15.84	
12	-	0.00	
13	-	0.00	
14	-	0.00	
15	3,774	19.83	
16	507	15.56	
17	-	0.00	
18	4,354	19.69	
19	-	0.00	
20	11,203	20.48	
21	11,684	19.63	
22	5,061	19.63	
23	5,010	19.66	
24	-	0.00	
25	-	0.00	
26	389	15.14	
27	-	0.00	
28	3,649	19.89	
29	3,765	19.69	
30	10,055	19.61	
31		0.00	

Total Monthly Flow (gal) 77,714		Did flow exceed limits?	NO	
Daily Max Flow (gpd)	12,345	Flow above daily max (30,240 gpd)?	NO	
Average Monthly Flow (gpd)	2,507			

Marsh Landing Generating Station

Reported to: Environmental Engineer

NPDES Monthly Analytical Report

Sample Point	Sample Number	Sample Date (m/d/y)	Sample Collection Time	Date Analyzed (m/d/v)	pH Analysis Time	Sample Medium	Sample Type (Grab)	рН
	Method:							SM 4500-H+B
Unit: 9								
ίλ.							Reporting Limit:	0.18
						M	ethod Detection Limit:	0.06
ł₩-001	ML-23-111	11/8/23	1100	11/8/23	1100	Wastewater	Grab	7.46

SM = Standard Method; ppm = parts per million; mg/L = milligrams per liter; N/A = not applicable

David Frandsen **Environmental Engineer** David Franke Mov. 8. 23 Signature: Date:

Ryan Robinson Sampling Technologist: Signature: 11/8/2023 Date:



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2311501

Report Created for: NRG Energy, LLC

3201 Wilbur Avenue Antioch, CA 94509

Project Contact: Project P.O.: Project:

David Frandsen 4501914176 Marsh Landing DDSD Quarterly

Project Received: 11/08/2023

Analytical Report reviewed & approved for release on 11/17/2023 by:

Jena Alfaro Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com CA ELAP 1644 ♦ NELAP 4033 ORELAP



%D

Serial Dilution Percent Difference

Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2311501

Project: Marsh Landing DDSD Quarterly

Glossary Abbreviation

,°B	
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit ¹
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit ²
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range
SPK Val	Spike Value

¹ MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

² RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.



Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

Project: Marsh Landing DDSD Quarterly

WorkOrder: 2311501

SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	"Too Numerous to Count;" greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client:	NRG Energy, LLC
Date Received:	11/08/2023 12:28
Date Prepared:	11/10/2023
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2311501
Extraction Method:	SM5210B
Analytical Method:	SM5210 B
Unit:	mg/L

Biochemical Oxygen Demand (BOD)							
Client ID	Lab ID	Matrix	Date C	ollected	Instrument	Batch ID	
IW-001	2311501-001B	Water	11/08/20	023 11:00	WetChem	282064	
Analytes	<u>Result</u>	MDL	<u>RL</u>	DE		Date Analyzed	
BOD	8.2	8.0	8.0	4		11/15/2023 13:40	

Analyst(s): JRA


Client:NRG Energy, LLCDate Received:11/08/2023 12:28Date Prepared:11/14/2023Project:Marsh Landing DDSD Quarterly

WorkOrder:	2311501
Extraction Method:	SM5220 D
Analytical Method:	SM5220 D-1997
Unit:	mg/L

Chemical Oxygen Demand (COD) as mg O2 /L								
Client ID	Lab ID	Matrix	Date C	Collected	Instrument	Batch ID		
IW-001	2311501-001A	Water	11/08/2023 11:00		SPECTROPHOTOMETER2	282261		
Analytes	Result	MDL	<u>RL</u>	DF	Date	e Analyzed		
COD	26	8.2	10	1	11/1	4/2023 19:44		

Analyst(s): IGC



Client:NRG Energy, LLCDate Received:11/08/2023 12:28Date Prepared:11/08/2023Project:Marsh Landing DDSD Quarterly

WorkOrder:	2311501
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	mg/L

Metals									
Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID		
IW-001	2311501-001E	Water	1	1/08/2023 1	1:00	ICP-MS4 175SMPL.d	281902		
Analytes	Result		MDL	<u>RL</u>	DF		Date Analyzed		
Arsenic	0.00053		0.000071	0.00050	1		11/09/2023 15:21		
Cadmium	ND		0.000050	0.00050	1		11/09/2023 15:21		
Chromium	0.00070		0.00026	0.00050	1		11/09/2023 15:21		
Copper	0.010		0.00063	0.0015	1		11/09/2023 15:21		
Iron	0.17		0.022	0.050	1		11/09/2023 15:21		
Lead	ND		0.00019	0.00050	1		11/09/2023 15:21		
Mercury	ND		0.000031	0.000050	1		11/09/2023 15:21		
Molybdenum	0.0018		0.00014	0.00050	1		11/09/2023 15:21		
Nickel	0.0036		0.00033	0.00050	1		11/09/2023 15:21		
Selenium	ND		0.00018	0.00050	1		11/09/2023 15:21		
Silver	ND		0.000051	0.00050	1		11/09/2023 15:21		
Zinc	0.026		0.011	0.020	1		11/09/2023 15:21		
Surrogates	<u>REC (%)</u>			<u>Limits</u>					
Terbium	110			70-130			11/09/2023 15:21		
Analyst(s): WV									



Client:	NRG Energy, LLC
Date Received:	11/08/2023 12:28
Date Prepared:	11/13/2023
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2311501
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C
Unit:	mg/L

Total Dissolved Solids								
Client ID	Lab ID	Matrix	Date C	ollected	Instrument	Batch ID		
IW-001	2311501-001C	Water	11/08/20	023 11:00	WetChem	282219		
Analytes	<u>Result</u>	MDL	RL	DF		Date Analyzed		
Total Dissolved Solids	406	10.0	10.0	1		11/16/2023 13:53		

Analyst(s): JME



Client:NRG Energy, LLCDate Received:11/08/2023 12:28Date Prepared:11/10/2023Project:Marsh Landing DDSD Quarterly

WorkOrder: 2311501 Extraction Method: SM2540 D-1997 Analytical Method: SM2540 D Unit: mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
IW-001	2311501-001D	Water	11/08/2023 11:00		WetChem	282104
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF		Date Analyzed
Total Suspended Solids	8.34	1.67	1.67	1.667		11/10/2023 16:00

Analyst(s): JME

Client:	NRG Energy, LLC	WorkOrder:	2311501
Date Prepared:	11/10/2023	BatchID:	282064
Date Analyzed:	11/15/2023	Extraction Method:	SM5210B
Instrument:	WetChem	Analytical Method:	SM5210 B
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD Quarterly	Sample ID:	MB/LCS/LCSD-282064

QC Summary Report for BOD									
Analyte	MB Result		MDL	RL					
BOD	ND		2.0	2.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	180	180	198		93	93	80-120	0.271	16



Client:	NRG Energy, LLC	WorkOrder:	2311501
Date Prepared:	11/14/2023	BatchID:	282261
Date Analyzed:	11/14/2023	Extraction Method:	SM5220 D
Instrument:	SPECTROPHOTOMETER2	Analytical Method:	SM5220 D-1997
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD Quarterly	Sample ID:	MB/LCS/LCSD-282261

	QC Su	mmary l	Report for	r COD					
Analyte	MB Result		MDL	RL					
COD	ND		8.2	10		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	92	96	100		92	96	90-110	4.26	20

Client:	NRG Energy, LLC
Date Prepared:	11/08/2023
Date Analyzed:	11/09/2023
Instrument:	ICP-MS4
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2311501
BatchID:	281902
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-281902

QC Summary Report for Metals

Analyte	MB Result		MDL	RL		SPK Val	MB SS %REC	MB SS MB %REC Lin		
Arsenic	ND		0.071	0.50		-	-		-	
Cadmium	ND		0.050	0.50		-	-	-		
Chromium	ND		0.26	0.50		-	-	-		
Copper	ND		0.63	1.5		-	-	-		
Iron	ND		22	50		-	-	-	-	
Lead	ND		0.19	0.50		-	-	-		
Mercury	ND		0.031	0.050		-	-	-		
Molybdenum	ND		0.14	0.50		-	-	-		
Nickel	ND		0.33	0.50		-	-	-		
Selenium	ND		0.18	0.50		-	-	-		
Silver	ND		0.051	0.50		-	-	-		
Zinc	ND		11	20		-	-	-		
Surrogate Recovery										
Terbium	540					500	107	70)-130	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit	
Arsenic	50	53	50		101	106	85-115	4.97	20	
Cadmium	52	54	50		104	108	85-115	3.79	20	
Chromium	51	53	50		102	106	85-115	3.36	20	
Copper	53	55	50		105	109	85-115	3.78	20	
Iron	5200	5200	5000		104	104	85-115	0.0756	20	
Lead	51	53	50		103	106	85-115	3.41	20	
Mercury	1.3	1.3	1.25		103	106	106 85-115		20	
Molybdenum	51	52	50		103	104	85-115	1.04	20	
Nickel	52	54	50		105	109	85-115	3.71		
Selenium	52	56	50		104	111	85-115	6.92	20	
Silver	53	55	50		106	109	85-115	3.08	20	
Zinc	520	550	500		105	109	85-115	4.02	20	
Surrogate Recovery										
Terbium	540	540	500		107	108	70-130	0.464	20	

Client:	NRG Energy, LLC
Date Prepared:	11/13/2023
Date Analyzed:	11/16/2023
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2311501
BatchID:	282219
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-282219

QC Summary Report for Total Dissolved Solids

Analyte	MB Result		MDL	RL					
Total Dissolved Solids	ND		10.0	10.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Dissolved Solids	970	968	1000		97	97	80-120	0.206	10

Client:	NRG Energy, LLC
Date Prepared:	11/10/2023
Date Analyzed:	11/10/2023
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2311501
BatchID:	282104
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-282104

QC Summary Report for Total Suspended Solids

Analyte	MB Result		MDL	RL					
Total Suspended Solids	ND		1.00	1.00		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Suspended Solids	97.0	94.0	100		97	94	80-120	3.14	10

McCampbell Analytic	al, Inc.		CHAII	N-OF-CU	STO	DY R	ECOR	D	Pag	ge 1	of 1	
Pittsburg, CA 94565-1701 (925) 252-9262	_]WaterTraxC	LIP DEDF	WorkOrd	er: 2311501 Dry-Weigh on Summary	t ∠ E	C lientCode mail xcel	: GOA	у 🔲	ThirdParty	′ 🗸	J-flag	J
Report to: David Frandsen	Email: David.Fr	andsen@nrg.com		Bill to: Accounts Pay	able		R	equested	d TATs:	5 da 7 da	ays; ays;	
NRG Energy, LLC 3201 Wilbur Avenue Antioch, CA 94509 (925) 427-3479 FAX: (925) 779-6	PO: 4501914 PO: 4501914 Project: Marsh L	a@nrg.com; james 176 anding DDSD Quai	s.robinson@nrg. rterly	NRG 112 Telly Stre New Roads, L invoices@nrg	et A 70760 .com		L L	Vate Rec Vate Log	eived: ged:	11/ 11/	/08/20 /08/20	123 123
						Requeste	d Tests (See	elegend	below)			
Lab ID Cli	entSampID	Matrix	Collection Date	Hold 1 2	3	4 5	6 7	' 8	9	10	11	12
2311501-001	IW-001	Water	11/8/2023 11:00	ВА	F	A C	D					,

Test Legend:

1	BOD_W]	2	
5	TDS_W]	6	
9]	10	

COD_W
TSS_W

3	METALSMS_TTLC_W(PPM)
7	
11	

4	PRDisposal Fee
8	
12	

Prepared by: Valerie Alfaro

Comments: Use QUOTE 212372 for any Marsh Landing projects to get correct analyte list. Always report in mg/L.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Name:NRG ENERGY, LLCClient Contact:David FrandsenContact's Email:David.Frandsen@nrg.com							Project:Marsh Landing DDSD QuarterlyCommentsUse QUOTE 212372 for any Marsh Landing projects to get correct analyte list. Always report in mg/L.							Work Order: 2311501 QC Level: LEVEL 2 Date Logged: 11/8/2023					
_			Water	rax CLIP	EDF	Exce	el 📃 EQul	S	🖌 En	nail	HardCopy	Third	Party 🖌 J-flag	J					
LabID	ClientS	ampID	Matrix	Test Name		Containers /Composites	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	ТАТ	Test Due Date	Sediment Content	Hold	Sub Out			
001A	IW-001		Water	SM5220D (COD)		2	aVOA w/ H2SO4				11/8/2023 11:00	5 days	11/15/2023	Present					
001B	IW-001		Water	SM5210B (BOD)		1	500mL HDPE, unprsv.				11/8/2023 11:00	7 days	11/17/2023	Present					
001C	IW-001		Water	SM2540C (TDS)		1	500mL HDPE, unprsv.				11/8/2023 11:00	5 days	11/15/2023	Present					
001D	IW-001		Water	SM2540D (TSS)		1	1L HDPE, unprsv.				11/8/2023 11:00	5 days	11/15/2023	Present					
001E	IW-001		Water	E200.8 (Metals) <arsenic. Chromium, Copper, Iron, J Mercury, Molybdenum, N Selenium, Silver, Zinc></arsenic. 	, Cadmium, Lead, ickel,	1	250mL HDPE w/ HNO3				11/8/2023 11:00	5 days	11/15/2023	Present					

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U^{**} = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

Chain of Custody

x

Marsh Landing Generating Station 3201-C Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509

Page 1 of 2-Quaterly Phone: (925) 779-6500 Fax: (925) 779-6679																	
		SAMP	LES SUBMITTE	D TO			SEND INVOICE TO			ANALYSIS REQUEST							
Laboratory: ELAP Cert. No. Address: Phone/Fax:		1534 Will	McCampbell A 164 ow Pass Road, F 925.252.9262/	Analytical, Inc. 44 Pittsburg, CA 94 925.252.9269 SAM	565-1701	TION	Company: Marsh Landing Li Attention: Accounts Payab Address: Invised@stanny.versu. P.O. No.: 4501914176	LC Plani le Title com Phase Manager	CONTAIN	Marsh Lan DDSD Quarter David Fran	ding ly dsen	SM5220D)	SM 5210B)	śM 2540B)	M 2540D)		
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Description	Number	Туре	Volume (each, mL)	Preserv.	coD	BOD (TDS (S	TSS (S		
ML-23-106	11/23	1100	DDSD	Quarterly	Wastewater	C-24	IW-001	2	Amber VOAs	43	H ₂ SO ₄ (pH<2, 4*C)	x					
ML-23-107	18/23	1100	DDSD	Quarterly	Wastewater	C-24	IW-001	1	HDPE Bottle	1,000	None (ZHS, 4°C)		x				
ML-23-108	1/8/23	1100	DDSD	Quarterly	Wastewater	C-24	IW-001	1	HDPE Bottle	500	None (4°C)			x			
ML-23-109	1/8/23	1100	DDSD	Quarterly	Wastewater	C-24	IW-001	1	Poly	1,000	None				x		
	HOLDING TIM									HOLDING TIME:	28 days	48 hours	7 days	7 days			
Title: Address: E-mail: E-mail CC: E-mail CC: E-mail CC:	Environ , <u>dav</u> jam jo	mental Speciali P.O. Box 168 Antioch, CA 94 <u>id.frandsen@n</u> <u>es.robinson@nrg</u> <u>nan.robinson@nrg</u> c	st/Engineer 37 509 <u>rg.com</u> <u>rg.com</u> . <u>.com</u> m			â	standa with es Plea: RES *Inclu	ort "Detecto etection lim	ed, but Not	Quantified n report.	" (DNQ)						
		PRINTED	D NAME & PHON	NE NUMBER		0	SIGNATURE	COMPANY				DATE		Π	//E		
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Received by:																	

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2311501

501 9

Chain of Custody Page 2 of 2-Quarterly

Marsh Landing Generating Station 3201-C Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509

Phone: (925) 779-6500 Fax: (925) 779-6679

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		SAMP	LES SUBMITTE	DTO			SE		PR		ANALYSIS F	EQUEST					
Laboratory:	McCampbell Analytical, Inc.						Company:	Plant:		Marsh Land	ing	~					
ELAP Cert. No.		1644				Attention: Accounts Payable			Title:	itle: DDSD			- 0.8				
Address:		1534 Will	low Pass Road, I	Pittsburg, CA 94	565-1701		Address:	invoices@clearwayenergy.com			Quarterly			als 20			
Phone/Fax:			925.252.9262/	925.252.9269			P.O. No.: 4501914176			Manager:		David Frand	sen	Aet			
Alberta Patrica				SAM	PLE INFORMA	TION					CONTAINER	RINFORMAT	ION	Aeth Aeth			
Sample	Sample	Sample Collection	Regulatory	Regulatory	Sample	Sample	Sa	Sample Description			Type	Volume	Preserv	Tot PA N			
Number	Date	Time	Driver	Frequency	Medium	Туре					Type	(each, mL)	Treserv.	E)			
ML-23-110	1/8/23	(100)	DDSD	Quarterly	Wastewater	C-24		IW-001		1	HDPE Bottle	250	HNO3 (pH<2)	x			
						10											
												H	IOLDING TIME:	28 days			
	REPO	ORTING		LABO	DRATORY NOT	ES RE: SAI	MPLE RECEIPT/CONDITI	ION			DIRE	CTIONS FOR	RLABORATOR	Y			
Original to:	-	David Frands	en					1	STANDARD TAT (5-da	ay). Establi	sh calibrati	on standard	ls so Minimum	Level (ML)	value is the	e lowest ca	alibration
Title:	Environ	mental Speciali	ist/Engineer					1	standard, the lowest qu	antifiable co	oncentration	n or Reporti	ng Limit (RL).	Report "De	tected, but	Not Quant	tified"
Address:		P.O. Box 168	57					0	(DNQ) with estimated J	I-flagged co	ncentration	s below the	RL and includ	e method d	etection lim	its (MDLs)) in
C mail	da	Antioch, CA 94	509					1	report.								
E-mail:	day	nd frandsen@n	irg.com					1. Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Mercury, Nickel, Molybdenum, Selenium							(reaction	mode),	
E-mail CC:	Jan	es robinson@n	irg.com					1	Silver, Zinc	inc							
E-mail CC:	1	oe moura@nrg							Please report al	ort all results with the units of mg/L.							
E-Mail CC.		(particular) and a							RESULTS AND	PRICING	PER	UOTE I	D. 21237	2			
									LOOLIOTIND	· · · · · · · · · · · · · · · · · · ·		COLLI	D. LILUI			*lealur	
															Inclue	ae	
の感激などはなめ		PRINTED	NAME & PHO	NE NUMBER			SIGNATURE		sample description	COMPANY	sample	number ID		DATE		TIM	ME
Sampled by:		Ryan F	Robinson 925	-864-7701		70	ZIP	A	NRG	Energy Ser	vices		11-9	3-27		118	60
					/												V
Relinquished by:		Ryan F	Robinson 925	-864-7701		1	NRG Energy Services 11/0							123		15	22
Received by:	Illo Ortiz						McCampbell Analytical, Inc.							123	,	12	28
Relinquished by:								-						117 - 184			
Received by:																	
Relinguished by:																	
Received by:																	



Sample Receipt Checklist

Client Name: Project:	NRG Energy, LLC Marsh Landing DDS	D Quarterly		Date and Time Received:11/8/2023 12:28Date Logged:11/8/2023Received by:Lilly Ortiz					
WorkOrder №: Carrier:	2311501 <u>Client Drop-In</u>	Matrix: <u>Water</u>				Logged by:	Valerie Alfaro		
		Chain of C	Custody	/ (COC) Infor	rmatio	on			
Chain of custody	present?		✓	No					
Chain of custody	signed when relinquis	hed and received?	Yes		No				
Chain of custody	agrees with sample la	bels?	✓	No					
Sample IDs note	d by Client on COC?		Yes	✓	No				
Date and Time of	f collection noted by C	lient on COC?	Yes	✓	No				
Sampler's name	noted on COC?		Yes	✓	No				
COC agrees with	Quote?		Yes		No				
		Samp	le Rece	eipt Informati	<u>ion</u>				
Custody seals int	act on shipping contai	ner/cooler?	Yes		No		NA 🖌		
Custody seals int	act on sample bottles	?	Yes		No		NA 🖌		
Shipping containe	er/cooler in good cond	ition?	Yes	✓	No				
Samples in prope	er containers/bottles?		Yes	✓	No				
Sample containe	rs intact?		Yes	✓	No				
Sufficient sample	volume for indicated	test?	Yes	✓	No				
		Sample Preservati	<u>on and</u>	<u>Hold Time (I</u>	<u>'HT) Ir</u>	nformation			
All samples recei	ved within holding time	e?	Yes	✓	No		NA		
Samples Receive	ed on Ice?		Yes	✓	No				
		(Ісе Тур	e: WE	TICE)					
Sample/Temp Bla	ank temperature			Temp: 3.1	1°C	_			
ZHS conditional a requirement (VO	analyses: VOA meets Cs, TPHg/BTEX, RSK	zero headspace)?	Yes		No		NA 🗹		
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No				
pH acceptable up <2; 522: <4; 218.	oon receipt (Metal: <2; 7: >8)?	Nitrate 353.2/4500NO3:	Yes	<	No				
UCMR Samples:							_		
pH tested and a 537.1: 6 - 8)?	acceptable upon recei	pt (200.7: ≤2; 533: 6 - 8;	Yes		No		NA 🔽		
Free Chlorine t [not applicable	ested and acceptable to 200.7]?	upon receipt (<0.1mg/L)	Yes		No		NA 🗹		