DOCKETED	
Docket Number:	08-AFC-03C
Project Title:	Marsh Landing Generating Station Compliance
TN #:	249525
Document Title:	Part 4 - 2022 Marsh landing CEC Annual Report
Description:	Annual Compliance Operations Report 2022, Part 4
Filer:	David Frandsen
Organization:	NRG
Submitter Role:	Applicant
Submission Date:	3/31/2023 8:56:05 AM
Docketed Date:	3/31/2023



Industrial User Report Checklist And Certification Statement Form

Attn: Environmental Compliance Specialist		Jason Yu	n
Environmental Specialist Phone	(925) 756-1913	Fax	(925) 756-1961
Industrial User Facility Name	M	arsh Landin	g LLC
Duly Authorized Representative Name		Joe Mour	a
Duly Authorized Representative Phone		925-779-66	85

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 ____



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 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, 2022

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	Jae Mum
Duly Authorized Representative Print	Joe Moura
Date	07/11/2022



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

July 11, 2022

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

Subject: 2022 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 2022 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, 2022. This report includes monthly flow data and quarterly analytical data required to be collected in 2022. Semiannual analytical data was submitted with the first quarterly report for 2022. Data are summarized in the attached tables.

It should be noted that a Special Discharge Permit (#SDP-0601-1229) was obtained from Delta Diablo for the period of June 1 – June 30, 2022 which allowed for an increased flow rate of 34 gpm which when added to our current permit (0311963-S0) of 21 gpm allowed for a total discharge flow rate of 55 GPM with a daily total discharge of 79,200 Gallons per day.

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,

ka Mum

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 2022 Monthly Flow Data
Table 3:	May 2022 Monthly Flow Data
Table 4:	June 2022 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 2022
Report Type	Quarterly

Constituent	Sample Date	Permit Limit	Result	Units
Field pH	4/19/2022	6-10	7.6	S.U.
BOD	4/19/2022	-	33	mg/L
COD	4/19/2022	-	50	mg/L
Arsenic	4/19/2022	0.15	0.00051	mg/L
Cadmium	4/19/2022	0.1	0.000049 J	mg/L
Chromium	4/19/2022	0.5	0.00066	mg/L
Copper	4/19/2022	0.5	0.015	mg/L
Iron	4/19/2022	-	0.18	mg/L
Lead	4/19/2022	0.5	ND	mg/L
Mercury	4/19/2022	0.003	ND	mg/L
Molybdenum	4/19/2022	-	0.0016	mg/L
Nickel	4/19/2022	0.5	0.0042	mg/L
Selenium	4/19/2022	0.25	0.00017 J	mg/L
Silver	4/19/2022	0.2	ND	mg/L
Zinc	4/19/2022	1.0	0.045	mg/L
TDS	4/19/2022	-	340	mg/L
TSS	4/19/2022	-	14.4	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-22
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuous, measured by flow meter
Sample Date	4/1/2022 - 4/30/2022
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

Day	Total Flow (gpd)	Instantaneous Max (gpm)	Minutes per Day of Flow exceeding 23.1 gpm
1	0	0.00	34
2	0	0.00	
3	0	0.00	
4	4,921	19.62	
5	8,980	19.58	
6	2,799	19.68	
7	6,984	19.60	
8	0	0.00	
9	0	0.00	
10	0	0.00	
11	514	16.82	
12	0	0.00	
13	0	0.00	
14	0	0.00	
15	0	0.00	
16	492	12.06	
17	0	0.00	
18	16,870	19.91	
19	25,250	19.74	
20	0	0.00	
21	6,311	19.66	
22	3,843	19.58	
23	5,812	19.57	
24	0	0.00	
25	4,980	19.63	
26	28,026	19.66	
27	6,823	19.59	
28	0	0.00	
29	448	16.67	
30	0	0.00	

Total Monthly Flow (gal)	123,052	Did flow exceed limits?	NO
Daily Max Flow (gpd)	28,026	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	4,102		

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-22
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuous, measured by flow meter
Sample Date	5/1/2022 - 5/31/2022
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

Day	Total Flow (gpd)	Instantaneous Max (gpm)	Minutes per Day of Flow exceeding 23.1 gpm
1	0	0.00	gpin
2	6,315	20.38	
3	11,647	19.16	
4	2,014	18.88	
5	8,100	20.21	
6	0	0.00	
7	0	0.00	
8	0	0.00	
9	474	16.76	
10	0	0.00	
11	4,187	19.41	
12	4,543	19.16	
13	5,174	19.13	
14	5,766	19.10	
15	0	0.00	
16	14,981	19.13	
17	1,765	19.04	
18	3,455	20.44	
19	4,377	19.14	
20	1,636	19.08	
21	9,694	19.07	
22	0	0.00	
23	4,569	19.15	
24	6,436	19.11	
25	0	0.00	
26	10,838	19.15	
27	0	0.00	
28	0	0.00	
29	0	0.00	
30	4,693	19.28	
31	8,794	19.23	

Total Monthly Flow (gal)	119,458	Did flow exceed limits?	NO
Daily Max Flow (gpd)	14,981	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	3,853		

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-22					
Report Type	Quarterly					
Constituent	Flow					
Sample Type	Continuous, measured by flow meter					
Sample Date	6/1/2022 - 6/30/2022					
Permit Limits (s.u.)	NTE 79,200 gpd. NTE 55 gpm +10% (60.5 gpm) for 15 consecutive minutes or 30 minutes in a 24-hour period					

	Tabal Flow (and)		Minutes per Day of Flow exceeding 60.5
Day	Total Flow (gpd)	Instantaneous Max (gpm)	gpm
1	9,367	36.10	
2	2	1.86	
3	451	16.89	
4	0	0.00	
5	0	0.00	
6	6,770	25.10	
7	0	0.00	
8	9,429	35.22	
9	0	0.00	
10	22,308	28.00	
11	7,657	27.89	
12	0	0.00	
13	13,164	36.60	
14	17,842	36.92	
15	39,194	50.37	
16	0	0.00	
17	0	0.00	
18	0	0.00	
19	0	0.00	
20	8,726	36.65	
21	17,003	51.11	
22	64,879	50.55	
23	24,000	51.06	
24	36,620	50.09	
25	4,055	36.90	
26	0	0.00	
27	6,547	29.76	
28	2,690	30.00	
29	5,262	37.25	
30	5,054	37.30	

 30
 5,054
 37.30

 * - Permit Flows from June 1 - June 30 were increased under permit #SDP-0601-1229 to 55 GPM with a total daily flow of 79,200 gallons per day.

Total Monthly Flow (gal)	301,018	Did flow exceed limits?	NO
Daily Max Flow (gpd)	64,879	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	10,034		

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:	SM 4500-H+B
							Unit:	standard
							Reporting Limit:	0.18
						Ме	thod Detection Limit:	0.06
FAC Combined Waste Water	ML-22- 045	4/19/22	1300	4/19/22	1300	Wastewater	Grab	7.6

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

Environmental Engineer David Frandsen Signature: David Frandsen Date: April 19, 2022

Sampling Technologist: James E Robinson

Jann E. Roch Signature: 19-Apr-22 Date:



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2204A69

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: 04/19/2022

Analytical Report reviewed & approved for release on 04/26/2022 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: 2204A69

Project: Marsh Landing DDSD Quarterly

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
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 (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2204A69

Project: Marsh Landing DDSD Quarterly

Analytical Qualifiers

J

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

Quality Control Qualifiers

F10

MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.



Client:NRG Energy, LLCDate Received:04/19/2022 17:33Date Prepared:04/20/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2204A69
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
FAC Combined Wastewater	2204A69-001B	Water	04/19/20	22 13:00	WetChem	243938
Analytes	Result	MDL	<u>RL</u>	DF		Date Analyzed
BOD	33	16	16	4		04/25/2022 11:53

Analyst(s): MGO



Client:NRG Energy, LLCDate Received:04/19/2022 17:33Date Prepared:04/21/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2204A69
Extraction Method:	SM5220 D-1997
Analytical Method:	SM5220 D-1997
Unit:	mg/L

Chemical Oxygen Demand (COD) as mg O2 /L						
Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
FAC Combined Wastewater	2204A69-001A	Water	04/19/20	22 13:00	SPECTROPHOTOMETER2	243995
Analytes	Result	MDL	<u>RL</u>	DF	Date	e Analyzed
COD	50	9.5	10	1	04/2	1/2022 18:45

Analyst(s): NYG



Client:NRG Energy, LLCDate Received:04/19/2022 17:33Date Prepared:04/21/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2204A69
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	mg/L

Metals								
Client ID	Lab ID	Matrix]	Date Collected		Instrument	Batch ID	
FAC Combined Wastewater	2204A69-001E	Water	()4/19/2022 1	13:00	ICP-MS5 186SMPL.d	243847	
Analytes	<u>Result</u>	<u>Qualifiers</u>	MDL	<u>RL</u>	DF		Date Analyzed	
Arsenic	0.00051		0.000074	0.00050	1		04/21/2022 21:3	
Cadmium	0.000049	J	0.000043	0.00050	1		04/21/2022 21:35	
Chromium	0.00066		0.00028	0.00050	1		04/21/2022 21:35	
Copper	0.015		0.00075	0.0015	1		04/21/2022 21:35	
Iron	0.18		0.026	0.050	1		04/21/2022 21:35	
Lead	ND		0.00019	0.00050	1		04/21/2022 21:35	
Mercury	ND		0.000033	0.000050	1		04/21/2022 21:35	
Molybdenum	0.0016		0.00013	0.00050	1		04/21/2022 21:35	
Nickel	0.0042		0.00033	0.00050	1		04/21/2022 21:35	
Selenium	0.00017	J	0.00016	0.00050	1		04/21/2022 21:35	
Silver	ND		0.000092	0.00050	1		04/21/2022 21:35	
Zinc	0.045		0.014	0.020	1		04/21/2022 21:35	
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>				
Terbium	113			70-130			04/21/2022 21:35	
<u>Analyst(s):</u> AL								



Client:NRG Energy, LLCDate Received:04/19/2022 17:33Date Prepared:04/21/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2204A69
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C-1997
Unit:	mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix Date C		Date Collected Instrume		Batch ID
FAC Combined Wastewater	2204A69-001C	Water	04/19/2022 13:00		WetChem	244027
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF		Date Analyzed
Total Dissolved Solids	340	10.0	10.0	1		04/22/2022 10:45

Analyst(s): HAD



Client:NRG Energy, LLCDate Received:04/19/2022 17:33Date Prepared:04/26/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2204A69
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D-1997
Unit:	mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix Date Collected		Instrument	Batch ID	
FAC Combined Wastewater	2204A69-001D	Water	04/19/2022 13:00		WetChem	244251
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF		Date Analyzed
Total Suspended Solids	14.4	2.00	2.00	2		04/26/2022 15:40

Analyst(s): MGO

Client:	NRG Energy, LLC	WorkOrder:	2204A69
Date Prepared:	04/20/2022	BatchID:	243938
Date Analyzed:	04/25/2022	Extraction Method:	SM5210B
Instrument:	WetChem	Analytical Method:	SM5210 B
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD Quarterly	Sample ID:	MB/LCS/LCSD-243938

	QC Su	mmary l	Report for	r BOD					
Analyte	MB Result		MDL	RL					
BOD	ND		4.0	5.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	170	200	198		85	98	80-120	15.2	16



Client:	NRG Energy, LLC	WorkOrder:	2204A69
Date Prepared:	04/21/2022	BatchID:	243995
Date Analyzed:	04/21/2022	Extraction Method:	SM5220 D-1997
Instrument:	SPECTROPHOTOMETER2	Analytical Method:	SM5220 D-1997
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD Quarterly	Sample ID:	MB/LCS/LCSD-243995

	QC Su	mmary l	Report for	r COD					
Analyte	MB Result		MDL	RL					
COD	ND		9.5	10		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	100	100	100		102	100	90-110	1.98	20

Client:	NRG Energy, LLC
Date Prepared:	04/21/2022
Date Analyzed:	04/21/2022
Instrument:	ICP-MS5
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2204A69
BatchID:	243847
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-243847
	2204A69-001EMS/MSD

QC Summary Report for Metals

MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
ND	0.074	0.50	-	-	-
ND	0.043	0.50	-	-	-
ND	0.28	0.50	-	-	-
ND	0.75	1.5	-	-	-
ND	26	50	-	-	-
ND	0.19	0.50	-	-	-
ND	0.033	0.050	-	-	-
ND	0.13	0.50	-	-	-
ND	0.33	0.50	-	-	-
ND	0.16	0.50	-	-	-
ND	0.092	0.50	-	-	-
ND	14	20	-	-	-
540			500	108	70-130
	Result ND ND	Result ND 0.074 ND 0.043 ND 0.28 ND 0.75 ND 26 ND 0.19 ND 0.033 ND 0.13 ND 0.33 ND 0.16 ND 14	Result ND 0.074 0.50 ND 0.043 0.50 ND 0.28 0.50 ND 0.75 1.5 ND 26 50 ND 0.19 0.50 ND 0.13 0.50 ND 0.13 0.50 ND 0.13 0.50 ND 0.16 0.50 ND 0.14 20	Result Val ND 0.074 0.50 - ND 0.043 0.50 - ND 0.28 0.50 - ND 0.75 1.5 - ND 26 50 - ND 0.19 0.50 - ND 0.19 0.50 - ND 0.13 0.50 - ND 0.13 0.50 - ND 0.16 0.50 - ND 0.16 0.50 - ND 14 20 -	Result Val %REC ND 0.074 0.50 - - ND 0.043 0.50 - - ND 0.28 0.50 - - ND 0.75 1.5 - - ND 26 50 - - ND 0.19 0.50 - - ND 0.13 0.50 - - ND 0.13 0.50 - - ND 0.16 0.50 - - ND 0.13 0.50 - - ND 0.16 0.50 - - ND 0.16 0.50 - - ND 0.16 0.50 - - ND 14 20 - -

Client:	NRG Energy, LLC
Date Prepared:	04/21/2022
Date Analyzed:	04/21/2022
Instrument:	ICP-MS5
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2204A69
BatchID:	243847
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	µg/L
Sample ID:	MB/LCS/LCSD-243847
	2204A69-001EMS/MSD

QC Summary Report for Metals

		•	·	-						
Analyte		LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic		53	53	50		106	105	85-115	0.351	20
Cadmium		55	53	50		109	107	85-115	2.41	20
Chromium		53	53	50		106	105	85-115	0.615	20
Copper		52	52	50		104	103	85-115	1.00	20
Iron		5000	5000	5000		99	100	85-115	0.304	20
Lead		52	52	50		105	104	85-115	0.865	20
Mercury		1.3	1.3	1.25		106	103	85-115	2.52	20
Molybdenum		51	51	50		101	103	85-115	1.42	20
Nickel		51	51	50		102	102	85-115	0.384	20
Selenium		52	52	50		104	104	85-115	0.154	20
Silver		51	52	50		102	103	85-115	1.19	20
Zinc		530	530	500		107	106	85-115	1.16	20
Surrogate Recovery										
Terbium		540	540	500		108	107	70-130	0.285	20
Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	1	56	54	50	0.0005100	112	107	85-115	4.08	20
Cadmium	1	55	54	50	ND	111	107	85-115	3 30	20

Arsenic	1	56	54	50	0.0005100	112	107	85-115	4.08	20
Cadmium	1	55	54	50	ND	111	107	85-115	3.39	20
Chromium	1	53	51	50	0.0006560	107	103	85-115	4.01	20
Copper	1	66	64	50	0.01528	132,F10	128,F10	85-115	3.06	20
Iron	1	5300	5100	5000	0.1797	106	103	85-115	2.85	20
Lead	1	55	53	50	ND	109	106	85-115	3.07	20
Mercury	1	1.3	1.3	1.25	ND	108	102	85-115	5.65	20
Molybdenum	1	55	55	50	0.001614	110	110	85-115	0.334	20
Nickel	1	55	54	50	0.004158	111	107	85-115	3.11	20
Selenium	1	53	51	50	ND	106	103	85-115	2.61	20
Silver	1	51	51	50	ND	102	102	85-115	0.473	20
Zinc	1	570	560	500	0.04511	113	111	85-115	2.07	20
Surrogate Recovery										
Terbium	1	570	550	500		113	110	70-130	2.89	20

Client:	NRG Energy, LLC
Date Prepared:	04/21/2022
Date Analyzed:	04/22/2022
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2204A69
BatchID:	244027
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C-1997
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-244027

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	980	966	1000		98	97	80-120	1.44	10

Client:	NRG Energy, LLC
Date Prepared:	04/26/2022
Date Analyzed:	04/26/2022
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2204A69
BatchID:	244251
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D-1997
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-244251

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	82.0	88.0	100		82	88	80-120	7.06	10

McCampbell Analytical, 1534 Willow Pass Rd		Inc.			CH	A	1-0F -	-CUS	ST)DY	RE	COI	RD		Page	1 of	1
1534 Willow Pittsburg, C. (925) 252-92	A 94565-1701 262	WaterTra	K CLIP	EDF	E	QuIS	e r: 2204 Dry- on Summa	-Weight		Client Email Excel	Code:	GOA]HardC	ору	Quote		21237	2 -flag
Report to: David Frandsen		Email:	David.Frandse	•			Bill to: Account	ts Payal	ble				Reque	sted TAT	s:	5 day 7 day	
NRG Energy, LL 3201 Wilbur Ave Antioch, CA 945 (925) 427-3479	nue	cc/3rd Party: PO: Project:	4501914176	n@nrg.com; joe.mo	oura@n	rg.	NRG 4900 N. Scottsda invoices	ale, AZ	85251	,				Received Logged:		*	0/2022 0/2022
									Red	quested	Tests ((See leg	jend be	low)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
2204A69-001	FAC Combined Was	stewater	Water	4/19/2022 13:00		В	A	E	А	С	D	1					

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: Adrianna Cardoza

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 Landing Use QUOTE 21 correct analyte l	2372	for any	Marsh I	Landing projects to mg/L.	get	QCI	rder: 2204 Level: LEV gged: 4/19	/EL 2		
			Water	Frax [WriteOn		Exce	el EQui	S	√ En	nail	HardCopy	Third	Party J-flag	l.		
LabID	ClientSa	mpID	Matrix	Test Nam	ne		Containers /Composites	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	ТАТ	Test Due Date	Sediment Content	Hold	Sub Out
001A	FAC Combine Wastewater	:d	Water	SM5220D	(COD)		2	aVOA w/ H2SO4				4/19/2022 13:00	5 days	4/26/2022	Present		
001B	FAC Combine Wastewater	d	Water	SM5210B	(BOD)		1	500mL HDPE, unprsv.				4/19/2022 13:00	7 days	4/28/2022	Present		
001C	FAC Combine Wastewater	ed	Water	SM2540C	(TDS)		1	500mL HDPE, unprsv.				4/19/2022 13:00	5 days	4/26/2022	Present		
001D	FAC Combine Wastewater	d	Water	SM2540D	(TSS)		1	1L HDPE, unprsv.				4/19/2022 13:00	5 days	4/26/2022	Present		
001E	FAC Combine Wastewater	d	Water	Chromium Mercury, N	letals) <arsenic, (<br="">a, Copper, Iron, Le Molybdenum, Nic Silver, Zinc></arsenic,>	ead,	1	250mL HDPE w/ HNO3				4/19/2022 13:00	5 days	4/26/2022	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).

- 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.

22041269

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

and the second sec		P	age i oi	z-Qual	eny			Filone.	(323) 773-03	100 Fax. (5	25) 779-650	5				
	S. 1. 2. 570		LES SUBMITTE			A second	SEND INVOID				ROJECT			ANALYSIS R	EQUEST	1000-00-
Laboratory: ELAP Cert. No. Address: Phone/Fax:			16 low Pass Road,	Analytical, Inc 644 Pittsburg, CA 94 / 925.252.9269	565-1701		Attention: Accou Address: moces@c	Landing LLC nts Payable Isatwayenergy com 1914176	Plant: Title: Phase: Manager:		Marsh Lan DDSD Quarter David Fran	rty idsen	(SM5220D)	BOD (SM 5210B)	TDS (SM 2540B)	TSS (SM 2540D)
				SAM	PLE INFORMAT	TION				CONTAIN	ER INFORMA	TION	(S	(SI	(Sh	(SV
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Desc	ription	Number	Туре	Volume (each, mL)	Preserv.	COD	BOD	TDS	TSS
ML-22-040	19-Apr-22	1300	DDSD	Quarterly	Wastewater	C-24	FAC Combined V	FAC Combined Wastewater		Amber VOAs	43	H ₂ SO ₄ (pH<2, 4°C)	x			
ML-22-041	19-Apr-22	1300	DDSD	Quarterly	Wastewater	C-24	FAC Combined W	Vastewater	1	HDPE Bottle	1,000	None (ZHS, 4°C)		x		
ML-22-042	19-Apr-22	1300	DDSD	Quarterly	Wastewater	C-24	FAC Combined V	Vastewater	1	HDPE Bottle	500	None (4°C)			x	
ML-22-043	19-Apr-22	1300	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wastewater		1	Poly	1,000	None				x
												HOLDING TIME:	28 days	48 hours	7 dave	7 day
E-mail E-mail CC: E-mail CC:	jam	vid.frandsen@n ies.robinson@r ie.moura@nrg	arg.com 1.com					RESULTS AND *Include sample de								
S. 1922 See	(a		PRINTED NAM	ME		NULLER SE	SIGNATURE		COMPANY				DATE		TI	ME
Sampled by		Ja	ames E. Robi	nson.		Ja	mo E. Ros.	NRG Energy Services			19	19-Apr-22		1300		
Relinquished by	1	Ja	James E. Robinson.			pos E. Koch.	MRG. Roch. NRG			NRG Energy Services				17	33	
Received by	HA	WH	NA		0	ZA	RANT	McCam	pbell Analyt	ical, Inc.		19	9-Apr-22		17:	33
Relinquished by	V					\sum	\smile									
Received by																
Relinquished by																
Neceived by					5											

22041A69

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				SEND INVOIC	ETO		PR	OJECT		in the set of	ANALYSIS R	EQUEST	
Laboratory:			McCampbell /	Analytical, Inc			Company: Marsh La	anding LLC	Plant:		Marsh Landi	ing	2			
ELAP Cert. No.			1	544			Attention: Account	ts Payable	Title:		DDSD		0.8			
Address:		1534 Wi	llow Pass Road,	Pittsburg, CA 94	4565-1701		Address: invoices@cle	arwayenergy.com	Phase:		Quarterly	1	als 20			
Phone/Fax:			925.252.9262	925.252.9269			P.O. No.: 4501	914176	Manager.		David Frand	sen	od			
				SAM	PLE INFORMA	TION				CONTAINER	RINFORMAT	ION	Total Metals ¹ (EPA Method 200.8)			
Sample	Sample	Sample	Regulatory	Regulatory	Sample	Sample					Volume		AN			
Number	Date	Collection	Driver	Frequency	Medium	Type	Sample Descri	ption	Number	Туре	(each, mL)	Preserv.	L d			
		Time		Traquency	moundin	1360					(each, mc)		~			
ML-22-044	19-Apr-22	1300	DDSD	Quarterly	Wastewater	C-24	FAC Combined W	actowator	1	HDPE	250	HNO3	x			
WIL-22-044	13-00-22	1500	0000	Quarterry	VVasievvaler	0-24	TAC Combined W	astewater		Bottle	250	(pH<2)	^			
				Contraction of the second												
			100	and the second												
			1		3						L		00.1			
	DED	ORTING	Contraction of the local division of the loc	LAB	PATORY NOT	ES DE: SAI	MPLE RECEIPT/CONDITION			DIDE		OLDING TIME: R LABORATOR				
Original to:	NEF	David Frand	sen	EAD	SKATOKT NOT	LO RE. OAI	THE RECEIPTICONDITION	STANDARD TAT (5 de	w) Establ					unders in the		Ph
Title:	Environ	mental Specia						STANDARD TAT (5-da								
Address:	Littlion	P.O. Box 16						standard, the lowest qu								
Address.		Antioch, CA 9	Contractor and Contractor					report.	J-flagged concentrations below the RL and include method detection limits (MDLs) in							in
Phone/Fax:								1. Arsenic, Cadmium, 0	hromium (Connor Iror	Lood Mor	ound Miskel A	Achebdonum	Colonium	Incastion .	mada)
E-mail:							Silver, Zinc	Shiomum, (sopper, nor	i, Lead, Mei	cury, Mickel, N	loiybuenun	i, Selenium	(reaction i	mode),	
E-mail CC:											- f					
E-mail CC:	-	joe.moura@nr						Please report all results with the units of mg/L.								
								RESULTS AND	PRICING	G PER C	UOTE I	D: 21237	2.			
															*Inc	lude
								sample description	with clien	t sample	number IC).				
			PRINTED NA	ME		in the second	SIGNATURE	sample description	COMPANY			N/1914/2014	DATE	18 (19 (No.)	TIN	ΛE
Sampled by:		_	ames E. Robi			Λ	- 0A /	NIDO	Ca				0 4 00		10	
Sampled by:		J	ames E. Robi	nson.		You	mo E. Kon.	NRG	Energy Se	vices		1 1	9-Apr-22		13	00
						10	0.001						9-Apr-22			>>
Relinquished by:		J	ames E. Robi	nson.		an	ME E Room	NRG Energy Services							17	33
	Λ	1.			-	you	a. Juni									~
Received by:	1	11 chin	AV-			11	1 Sting	McCamp	obell Analyt	ical, Inc.		1	9-Apr-22		12	22
	M	10//N		2	- 14	192				1000					17	5
Relinquished by:	11				(1	
	U															
Descined by																
Received by:																
Relinquished by:																
Received by:																

1.00 WARY



Sample Receipt Checklist

Client Name: Project:	NRG Energy, LLC Marsh Landing DDSI) Quarterly			[Date and Time Received: Date Logged: Received by:	4/19/2022 17:33 4/19/2022 Agustina Venegas
WorkOrder №: Carrier:	2204A69 Client Drop-In	Matrix: <u>Water</u>			L	Logged by:	Adrianna Cardoza
		Chain of (Custody	<u>(COC) Infor</u>	matio	n	
Chain of custody	present?		Yes	✓	No 🗌		
Chain of custody	signed when relinquisl	ned and received?	Yes	✓	No 🗌		
Chain of custody	agrees with sample la	pels?	Yes	✓	No		
Sample IDs noted	d by Client on COC?		Yes	✓	No 🗌		
Date and Time of	f collection noted by Cl	ent on COC?	Yes	✓	No		
Sampler's name	noted on COC?		Yes	✓	No		
COC agrees with	Quote?		Yes	✓	No 🗌		
		<u>Samp</u>	le Rece	ipt Informati	<u>ion</u>		
Custody seals int	act on shipping contain	ner/cooler?	Yes		No 🗌	ı _	
Custody seals int	act on sample bottles?		Yes	✓	No 🗌	ı _	
Shipping containe	er/cooler in good condi	tion?	Yes	✓	No 🗌		
Samples in prope	er containers/bottles?		Yes	✓	No 🗌		
Sample containe	rs intact?		Yes	✓	No		
Sufficient sample	volume for indicated t	est?	Yes	✓	No		
		Sample Preservati	ion and	Hold Time (I	HT) Int	formation	
All samples recei	ved within holding time	?	Yes		No	I	
Samples Receive	ed on Ice?		Yes	✓	No		
		(Ісе Тур	e: WE	,			
Sample/Temp Bla	ank temperature			Temp: 1°0	с _		
	analyses: VOA meets z Cs, TPHg/BTEX, RSK)		Yes		No		NA 🗹
Sample labels ch	ecked for correct prese	ervation?	Yes	✓	No		
pH acceptable up <2; 522: <4; 218.		Nitrate 353.2/4500NO3:	Yes		No 🗌]	
UCMR Samples: pH tested and a		ot (200.7: ≤2; 533: 6 - 8;	Yes		No 🗌]	
537.1: 6 - 8)?							
Free Chlorine to [not applicable	ested and acceptable to 200.7]?	upon receipt (<0.1mg/L)	Yes		No 🗌		
			·				



Industrial User Report Checklist And Certification Statement Form

Attn: Environmental Compliance Specialist		Jason	ı Yun		
Environmental Specialist Phone	(925) 756-1913 Fax (925) 756-1961				
Industrial User Facility Name	Marsh Landing LLC				
Duly Authorized Representative Name		Joe M	Ioura		
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)

Flow Discharge Summary (Review Discharge Permit.)

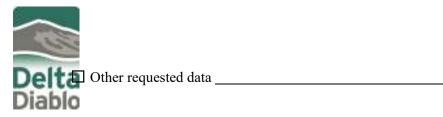
□ Calibration of Effluent Flow Meters; if applicable.

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

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)



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.

 \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** submitted at least 90 days prior to implementation, and shall include a detailed **Diable** scription 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, 2022

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	Daniel Leach for Joe Moura
Duly Authorized Representative Print	Joe Moura
Date	Oct 14,2022



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

October 10, 2022

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

Subject: 2022 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 2022 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, 2022. This report includes monthly flow data and quarterly and semiannual analytical data required to be collected in 2022. 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.

It should be noted that a Special Discharge Permit (#SDP-0701-1230) was obtained from Delta Diablo for the period of July 1 – Oct. 31, 2022 which allowed for an increased flow rate of 34 gpm which when added to our current permit (0311963-S0) of 21 gpm allowed for a total discharge flow rate of 55 GPM with a daily total discharge of 79,200 Gallons per day.

If you have any questions, please contact Mr. David Frandsen, Environmental Specialist at david.frandsen@nrg.com or call 925.779.6695

Sincerely,

Daniel Leach for Joe Moura

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 2022 Monthly Flow Data
Table 4:	August 2022 Monthly Flow Data
Table 5:	September 2022 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	July - September 2022			
Report Type	Quarterly			

Constituent	Sample Date	Permit Limit	Result	Units
Field pH	7/19/2022	6-10	7.9	S.U.
BOD	7/19/2022	-	ND	mg/L
СОД	7/19/2022	-	66.0	mg/L
Arsenic	7/19/2022	0.15	0.00068	mg/L
Cadmium	7/19/2022	0.1	ND	mg/L
Chromium	7/19/2022	0.5	0.00049 J	mg/L
Copper	7/19/2022	0.5	0.013	mg/L
Iron	7/19/2022	-	0.11	mg/L
Lead	7/19/2022	0.5	ND	mg/L
Mercury	7/19/2022	0.003	ND	mg/L
Molybdenum	7/19/2022	-	0.0021	mg/L
Nickel	7/19/2022	0.5	0.0039	mg/L
Selenium	7/19/2022	0.25	0.00023 J	mg/L
Silver	7/19/2022	0.2	ND	mg/L
Zinc	7/19/2022	1.0	0.029	mg/L
TDS	7/19/2022	-	444.0	mg/L
TSS	7/19/2022	-	7.4	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 estima

 Table 2

 Semiannual 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	July - September 2022
Report Type	Semiannual

Constituent	Sample Date	Permit Limit	Result	Units
Cyanide	7/19/2022	0.20	ND	mg/L
Total Phenolics (EPA 420.4)	7/19/2022	1.0	ND	mg/L
Ammonia as N	7/19/2022	200	6.0	mg/L
Oil and Grease Animal/Vegetable (HEM)	7/19/2022	300	54	mg/L
Oil and Grease Petroleum/Mineral (SGT-HEM)	7/19/2022	100	1.4	mg/L
TOXIC ORGANICS				
Bromodichloromethane	7/19/2022	-	0.0029	mg/L
Bromoform	7/19/2022	-	0.00067	mg/L
Chloroform	7/19/2022	-	0.0017	mg/L
Dibromochloromethane	7/19/2022	_	0.0030	mg/L
TOTAL TOXIC ORGANICS	7/19/2022	2.0	0.0083	mg/L

mg/L = Milligrams per liter

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

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-22
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuous, measured by flow meter
Sample Date	7/1/2022 - 7/31/2022
Permit Limits (s.u.)	NTE 79,200 gpd. NTE 55 gpm +10% for 15 consecutive minutes or 30 minutes in a 24-hour period

Day	Total Flow (gpd)	Instantaneous Max (gpm)	Minutes per Day of Flow exceeding 60.5
Day1		0.00	gpm
2	0	0.00	
3	0	0.00	
4	0	0.00	
5	465	15.44	
6	2,837	26.05	
7	4,550	28.59	
8	8,717	37.56	
9	0	0.00	
10	0	0.00	
11	437	16.59	
12	11	11.29	
13	0	0.00	
14	0	0.00	
15	0	0.00	
16	0	0.00	
17	0	0.00	
18	19,958	31.47	
19	28,323	49.35	
20	10,129	48.39	
21	2,335	37.08	
22	0	0.00	
23	0	0.00	
24	0	0.00	
25	13,134	36.80	
26	1,986	36.86	
27	11,022	48.97	
28	9,643	35.90	
29	548	16.99	
30	6,116	27.12	
31	0	0.00	

* - Permit Flows in July were increased with a <u>Special Discharge Permit</u> (SDP-0701-1230) to 55 GPM with a maximum total daily flow of 79,200 gallons per day.

Total Monthly Flow (gal)	120,211	Did flow exceed limits?	NO
Daily Max Flow (gpd)	79,200	Flow above daily max (79,200 gpd)?	NO
Average Monthly Flow (gpd)	3,878		

Table 4 Monthly Flow Data

Industrial User Name		Marsh Landing LLC					
Location		Marsh Landing Generating Sta	tion				
Permit Number		0311963-S					
SIC		4911					
Address	3201-C Wilbur Avenue Antioch CA 94509						
Address							
		Antioch CA 94909					
Sample Station Location		Outfall #4					
Sample Station Description		Flow Monitoring Structure					
Reporting Period		Aug-22					
Report Type		Quarterly					
Constituent		Elow					
Sample Type		Continuous, measured by flow r	neter				
Sample Type		8/1/2022 - 8/31/2022					
	NTE 30.240 apd.	NTE 21 gpm +10% for 15 consecutiv	e minutes or 30 minutes in				
Permit Limits (s.u.)	00,2.10 gpai	a 24-hour period					
	NTE 79,200 gpd.	. NTE 55 gpm +10% (60.5 gpm) for	15 consecutive minutes or				
Permit Limits (s.u.)		30 minutes in a 24-hour peri					
			Minutes per Day of Flow				
			exceeding 60.5				
Day	Total Flow (gpd)	Instantaneous Max (gpm)	gpm				
1	6,987	36.28					
2	7,326	28.48					
3	8,683	36.94					
4	0	0.00					
5	3,864	26.06					
6	6,877	29.23					
7	0	0.00					
8	7,468	35.30					
9	3,276	35.86					
10	3,767	25.61					
11	3,750	28.65					
12	494	17.09					
13	0	0.00					
14	0	0.00					
15	13,133	36.35					
16	23,783	48.61					
17	25,652	48.53					
18	5,999	29.04					
19	9,170	37.75					
20	0	0.00					
21	449	16.45					
22	0	0.00					
23	5,760	23.16					
23	2,213	24.74					
25	464	16.28					
25	4,790	35.58					
20	2,690	36.12					
27	428	15.80					
29	8,223	47.06					
30	14,455	37.08					
31	18,755	50.82 creased under permit #SDP-0701-12					

* - Permit Flows from July 1 - October 31 were increased under permit #SDP-0701-1230 to 55 GPM with a total daily flow of 79,200 gallons per day.

Total Monthly Flow (gal)	188,455	Did flow exceed limits?	NO
Daily Max Flow (gpd)	79,200	Flow above daily max (79,200 gpd)?	NO
Average Monthly Flow (gpd)	6,079		

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-22
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuous, measured by flow meter
Sample Date	9/1/2022 - 9/31/2022
Permit Limits (s.u.)	NTE 79,200 gpd. NTE 55 gpm +10% (60.5 gpm) for 15 consecutive minutes or 30 minutes in a 24-hour period

Day	Total Flow (and)	Instantancous May (apm)	Minutes per Day of Flow exceeding 60.5
Day 1	Total Flow (gpd) 45,657	Instantaneous Max (gpm) 50.80	gpm
2	71,999	50.66	
3	48,334	50.88	
	· · · · ·		
4	31,474	50.91	
5	49,247	51.06	
6	74,572	54.54	
7	76,414	54.56	
8	77,441	54.80	
9	77,757	54.39	
10	76,619	54.09	
11	50,572	52.78	
12	0	0.00	
13	363	15.51	
14	8,371	37.12	
15	0	0.00	
16	411	16.47	
17	6,445	27.84	
18	0	0.00	
19	0	0.00	
20	0	0.00	
21	423	16.53	
22	9,522	35.31	
23	0	0.00	
24	0	0.00	
25	427	16.32	
26	0	0.00	
27	0	0.00	
28	0	0.00	
29	0	0.00	
30	11,023	47.05	

 30
 11,023
 47.05

 * - Permit Flows from July 1 - October 31 were increased under permit #SDP-0701-1230 to 55 GPM with a total daily flow of 79,200 gallons per day.

Total Monthly Flow (gal)	717,072	Did flow exceed limits?	NO
Daily Max Flow (gpd)	79,200	Flow above daily max (79,200 gpd)?	NO
Average Monthly Flow (gpd)	23,902		

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)	pН
							Method:	SM 4500-H+B
							Unit:	standard
							Reporting Limit:	0.18
						Ме	thod Detection Limit:	0.06
FAC Combined Waste Water	ML-22- 075	7/19/22	1413	7/19/22	1413	Wastewater	Grab	7.9

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

Sampling Technologist: James E Robinson **Environmental Engineer** avid Frandsen and Frandsen by 21, 2022 avid Signature: Journ E. Rath. Signature: 19-Jul-22 Date: Date:



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2207A76

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:

07/19/2022

Analytical Report reviewed & approved for release on 07/27/2022 by:

Jennifer Lagerbom 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: 2207A76

Project: Marsh Landing DDSD Quarterly

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
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 (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



J

Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2207A76

Project: Marsh Landing DDSD Quarterly

Analytical Qualifiers

- 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:07/19/2022 15:58Date Prepared:07/20/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2207A76
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	2207A76-001B	Water	07/19/202	22 14:00	WetChem	249945
<u>Analytes</u>	<u>Result</u>	MDL	<u>RL</u>	DF		Date Analyzed
BOD	ND	40	40	10		07/25/2022 14:11

Analyst(s): JRA

Analytical Comments: i9



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/20/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2207A76
Extraction Method:	SM5220 D-1997
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
FAC Combined Wastewater	2207A76-001A	Water	07/19/2	022 14:00	SPECTROPHOTOMETER2	249965
Analytes	Result	MDL	<u>RL</u>	DF	Dat	e Analyzed
COD	66	9.5	10	1	07/2	20/2022 12:28

Analyst(s): NYG



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/20/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2207A76
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	mg/L

Metals							
Client ID	Lab ID	Matrix]	Date Colle	cted	Instrument	Batch ID
FAC Combined Wastewater	2207A76-001E	Water		07/19/2022 1	4:00	ICP-MS5 146SMPL.d	249857
Analytes	<u>Result</u>	Qualifiers	MDL	<u>RL</u>	DF		Date Analyzed
Arsenic	0.00068		0.000074	4 0.00050	1		07/20/2022 16:55
Cadmium	ND		0.000043	3 0.00050	1		07/20/2022 16:55
Chromium	0.00049	J	0.00028	0.00050	1		07/20/2022 16:55
Copper	0.013		0.00075	0.0015	1		07/20/2022 16:55
Iron	0.11		0.026	0.050	1		07/20/2022 16:55
Lead	ND		0.00019	0.00050	1		07/20/2022 16:55
Mercury	ND		0.000033	3 0.000050	1		07/20/2022 16:55
Molybdenum	0.0021		0.00013	0.00050	1		07/20/2022 16:55
Nickel	0.0039		0.00033	0.00050	1		07/20/2022 16:55
Selenium	0.00023	J	0.00016	0.00050	1		07/20/2022 16:55
Silver	ND		0.000092	2 0.00050	1		07/20/2022 16:55
Zinc	0.029		0.014	0.020	1		07/20/2022 16:55
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>			
Terbium	111			70-130			07/20/2022 16:55
Analyst(s): AL							



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/19/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2207A76
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C-1997
Unit:	mg/L

Total Dissolved Solids						
Client ID Lab ID Matrix Date Collected Instrument Batch ID						
FAC Combined Wastewater	2207A76-001C	Water	07/19/2022	2 14:00	WetChem	249904
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF		Date Analyzed
Total Dissolved Solids	444	10.0	10.0	1		07/19/2022 19:50

Analyst(s): JRA



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/20/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2207A76
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D-1997
Unit:	mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Col	llected	Instrument	Batch ID
FAC Combined Wastewater	2207A76-001D	Water	07/19/202	2 14:00	WetChem	249947
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF		Date Analyzed
Total Suspended Solids	7.40	1.00	1.00	1		07/20/2022 13:55

Analyst(s): MGO

Client:	NRG Energy, LLC	WorkOrder:	2207A76
Date Prepared:	07/20/2022	BatchID:	249945
Date Analyzed:	07/25/2022	Extraction Method:	SM5210B
Instrument:	WetChem	Analytical Method:	SM5210 B
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD Quarterly	Sample ID:	MB/LCS/LCSD-249945

Analyte	QC Summary Report for BOD								
	MB Result		MDL	RL					
BOD	ND		4.0	4.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	180	200	198		93	103	80-120	10.8	16



Client:	NRG Energy, LLC	WorkOrder:	2207A76
Date Prepared:	07/20/2022	BatchID:	249965
Date Analyzed:	07/20/2022	Extraction Method:	SM5220 D-1997
Instrument:	SPECTROPHOTOMETER2	Analytical Method:	SM5220 D-1997
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD Quarterly	Sample ID:	MB/LCS/LCSD-249965 2207A76-001AMS/MSD

		QC Summary Report for COD								
Analyte		MB Result		MDL	RL					
COD		ND		9.5	10		-	-	-	
Analyte		LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD		96	96	100		96	96	90-110	0	20
Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
COD	1	150	150	100	66.00	82	80	80-120	1.36	20

Client:	NRG Energy, LLC
Date Prepared:	07/20/2022
Date Analyzed:	07/20/2022
Instrument:	ICP-MS4
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2207A76
BatchID:	249857
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-249857

QC Summary Report for Metals

Analyte	MB Result		MDL	RL		SPK Val	MB SS %REC		3 SS nits
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	560					500	112	70	-130
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	54	53	50		107	106	85-115	0.938	20
Cadmium	53	54	50		106	107	85-115	0.878	20
Chromium	53	53	50		107	106	85-115	0.431	20
Copper	55	55	50		110	110	85-115	0.164	20
Iron	5200	5100	5000		105	103	85-115	1.71	20
Lead	52	52	50		104	104	85-115	0.168	20
Mercury	1.3	1.2	1.25		102	98	85-115	3.99	20
Molybdenum	52	52	50		104	104	85-115	0.339	20
morysaonam		53	50		106	106	85-115	0.0867	20
Nickel	53	00				407		0.000	20
	53 54	53	50		108	107	85-115	0.860	20
Nickel			50 50		108	107	85-115 85-115	1.60	20
Nickel Selenium	54	53							
Nickel Selenium Silver	54 52	53 53	50		105	106	85-115	1.60	20

Client:	NRG Energy, LLC
Date Prepared:	07/19/2022
Date Analyzed:	07/19/2022
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2207A76
BatchID:	249904
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C-1997
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-249904

QC Summary Report for Total Dissolved Solids

Analyte	MB Result		MDL	RL					
Total Dissolved Solids	ND		10.0	10.0		-	-	-	
Analyte	LCS	LCSD	SPK		LCS	LCSD	LCS/LCSD	RPD	RPD
Total Dissolved Solids	Result	Result	Val 1000		%REC	%REC	Limits 80-120	1.39	Limit 10

Client:	NRG Energy, LLC
Date Prepared:	07/20/2022
Date Analyzed:	07/20/2022
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2207A76
BatchID:	249947
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D-1997
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-249947

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	RPC Limi
Total Suspended Solids	87.0	95.0	100		87	95	80-120	8.79	10

•	bell Analytical,	lnc.			CHA	IN-OI	F-CU	STO	DY F	REC	ORE		Page	e 1 of	1
	CA 94565-1701 -9262	WaterTrax		EDF	EQu	rder: 220 S	Pry-Weight	C ✓Er)A ardCopy	-	o teID: dParty	212372 ✓ J-f	
Report to: David Frandse		Email:	David.Frandse	0		Bill to: Accou	unts Paya				Re	quested T/	ATs:	5 days 7 days	-
NRG Energy, I 3201 Wilbur A Antioch, CA 9 (925) 427-3479	venue	PO: PO: Project:	4501914176	g.com; james.robin I DDSD Quarterly	lson@nrg.	4900 Scotts	N. Scotts sdale, AZ ses@clear	85251	,		Da	te Receiv te Loggeo		07/19/ 07/19/	
								Requ	ested Te	sts (See	e legenc	below)			
Lab ID	ClientSampl	D	Matrix	Collection Date	Hold	2	3	4	5	6	7	8 9	10) 11	12
2207A76-001	FAC Combined Was	tewater	Water	7/19/2022 14:00	E	3 A	E	А	С	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: Cassandra Gallegos

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 Landing : Use QUOTE 21 correct analyte 1	2372 1	for any	Marsh	Landing projects to	o get	QC I	order: 220 Level: LEV gged: 7/19	VEL 2	2
			□Water	Frax	WriteOn	EDF	Exce	el EQui	S	√ En	nail	HardCopy	Third	IParty J-flaç	ł		
LabID) ClientSa	mpID	Matrix	Test Name	2		Containers /Composites	Bottle & Preservative		Head Space	Dry- Weight	Collection Date & Time	ТАТ	Test Due Date	Sediment Content	Hold	Sub Out
001A	FAC Combine Wastewater	ed	Water	SM5220D (COD)		2	aVOA w/ H2SO4				7/19/2022 14:00	5 days	7/26/2022	Present		
001B	FAC Combine Wastewater	ed	Water	SM5210B (1	BOD)		1	500mL HDPE, unprsv.				7/19/2022 14:00	7 days	7/28/2022	Present		
001C	FAC Combine Wastewater	ed	Water	SM2540C (*	TDS)		1	500mL HDPE, unprsv.				7/19/2022 14:00	5 days	7/26/2022	Present		
001D	FAC Combine Wastewater	ed	Water	SM2540D (TSS)		1	1L HDPE, unprsv.				7/19/2022 14:00	5 days	7/26/2022	Present		
001E	FAC Combine Wastewater	ed	Water	Chromium,	tals) <arsenic, (<br="">Copper, Iron, Lo olybdenum, Nic ilver, Zinc></arsenic,>	ead,	1	250mL HDPE w/ HNO3				7/19/2022 14:00	5 days	7/26/2022	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.

2207 A76

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

			LES SUBMITTE		CONTRACTOR OF		SEND INVOICE	το	P	ROJECT			ANALYSIS R	EQUEST	
Laboratory: ELAP Cert. No. Address: Phone/Fax:			McCampbell / 16 llow Pass Road,	Analytical, Inc 644 Pittsburg, CA 94 / 925.252.9269		TION	Company: Marsh Lan Attention: Accounts Address: record Dates P.O. No.: 450191	ding LLC Plant: Payable Title: ayenergy com Phase:		Marsh Lan DDSD Quarter David Fran ER INFORMA	ty dsen	(SM5220D)	BOD (SM 5210B)	(SM 2540B)	TSS (SM 2540D)
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Descript	ion Number	Туре	Volume (each, mL)	Preserv.	COD	BOD	TDS	TSS
ML-22-061	19-Jul-22	1400	DDSD	Quarterly	Wastewater	C-24	FAC Combined Was	stewater 2	Amber VOAs	43	H ₂ SO ₄ (pH<2, 4°C)	×			
ML-22-062	19-Jul-22	1400	DDSD	Quarterly	Wastewater	C-24	FAC Combined Was	stewater 1	HDPE Bottle	1,000	None (ZHS, 4°C)		x		
ML-22-063	19-Jul-22	1400	DDSD	Quarterly	Wastewater	C-24	FAC Combined Was	stewater 1	HDPE Bottle	500	None (4°C)			x	
ML-22-064	19-Jul-22	1400	DDSD	Quarterly	Wastewater	C-24	FAC Combined Was	stewater 1	Poly	1,000	None				x
		ORTING					MPLE RECEIPT/CONDITION				HOLDING TIME:	28 days	48 hours	7 days	7 days
Phone/Fax: E-mail: E-mail CC: E-mail CC:	<u>dar</u> jan	925.324-3533/6 vid.frandsen@n nes.robinson@r ne.moura@nrg	rg.com trg.com				1	Please report all result RESULTS AND PRICIN Include sample description v	G PER (D: 212372.				
			PRINTED NAM	ME			SIGNATURE	COMPANY				DATE		TI	ME
Sampled by:		Ji	ames E. Robi	nson.		ga	MSE. Roh.	NRG Energy Se	rvices		1!	9-Jul-22		14	100
Relinquished by:	1	Ja	ames E. Robi	nson.		yan	MSE. Roh.	NRG Energy Se	rvices		1	9-Jul-22		15.	58
Deserves	4	1120					1. Dia no 1								-0
Received by:	170	1017	MN/T	\sim	4	214	CANTY.	McCampbell Analy	tical, Inc.		1	9-Jul-22		15:	2×2
Received by: Relinquished by:	110	1127	MN/T		a	K	GAINAV.	McCampbell Analy	tical, Inc.		1	9-Jul-22		15:	2×2
Relinquished by Received by	110	<i>JUS 7</i>	YN /T		A	K	GAINAV.	McCampbell Analy	tical, Inc.			9-Jul-22		15	
Relinquished by	10	<i>JUS7</i>	hr A		4	K	GAINAV.	McCampbell Analy	tical, Inc.			9-Jul-22		/5	

2.70 WEA

2207A76

Chain of Custody Page 2 of 2-Quarterly

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

3201 Wilbur Avenue, P.O. Box 1687, Antioch, CA 9450 Phone: (925) 779-6500 Fax: (925) 779-6509

		SAMP	LES SUBMITTE	DTO			SEND INVOICE	PROJECT					ANALYSIS R	EQUEST		
Laboratory:			McCampbell A	Analytical, Inc.			Company: Marsh La	nding LLC	Plant:		Marsh Landi	ing	6			
ELAP Cert. No.				44				s Payable	Title:		DDSD		°100.6			
Address:		1534 Will	low Pass Road, I		565-1701		, address:	rwayenergy.com	Phase: Quarterly Manager: David Frands				d 2			
Phone/Fax:			925.252.9262/		PLE INFORMAT		P.O. No.: 45019	914176	Manager:	ONTAINEE	INFORMAT		tho			
STATISTICS STATISTICS		Sample		March and South States						SONTAINER			Me			
Sample Number	Sample Date	Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Descrip	otion	Number	Туре	Volume (each, mL)	Preserv.	Total Metals ¹ (EPA Method 200.8)			
ML-22-065	19-Jul-22	1400	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wastewater		1	HDPE Bottle	250	HNO3 (pH<2)	х			
	DEDG	DETINO							Contractor and the			OLDING TIME:				COLUMN TWO IS NOT
Original In:	REPC	David Frands		LABC	RATORY NOT	ES RE: SAN	IPLE RECEIPT/CONDITION		- Establi	and the second		RLABORATOR	the state of the s			the set
Original to: Title:	Environ	mental Special						STANDARD TAT (5-da standard, the lowest qui								
Address:	Linion	P.O. Box 168						(DNQ) with estimated J								
100000000000000000000000000000000000000		Antioch, CA 94	1509					report.								
Phone/Fax:		925.324-3533/6	6509					1. Arsenic, Cadmium, C	Chromium, C	Copper, Iror	, Lead, Mer	cury, Nickel, M	lolybdenum	n, Selenium	(reaction i	mode),
E-mail:		vid.frandsen@r						Silver, Zinc								1013
E-mail CC:		ies.robinson@r						Please report al	I results	with th	e units	of mg/L.				
E-mail CC:	r	oe.moura@nrg	.com					RESULTS AND	PRICING	PER C	UOTE I	D: 21237	2.			
															*Inc	lude
								sample description	with clien	t sample	number ID).				
			PRINTED NAM	1E			SIGNATURE		COMPANY				DATE		TIM	ME
Sampled by:		Ja	ames E. Robir	nson.		Ja	mo E. Rosi.	NRGI	Energy Ser	rvices			19-Jul-22		14	00
Relinquished by:		Ja	ames E. Robin	nson.		Ja	mo E. Rech.	NRG	Energy Ser	rvices			19-Jul-22		15.	58
Received by:	AA	krt	NA		a	1	ultinon?	McCamp	bell Analyt	ical, Inc.			19-Jul-22		155	5\$
Relinquished by:	0				- (\mathcal{I}	J									
Received by:																
Relinquished by:																
Received by:										W.	a					



Sample Receipt Checklist

Client Name: Project:	NRG Energy, LLC Marsh Landing DDS	D Quarterly			C	Date and Time Received: Date Logged: Received by:	7/19/2022 15:58 7/19/2022 Agustina Venegas
WorkOrder №: Carrier:	2207A76 Client Drop-In	Matrix: <u>Water</u>			L	ogged by:	Cassandra Gallegos
		Chain of C	Sustody	/ (COC) Infor	rmatior	<u>1</u>	
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 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]	
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	on and	Hold Time (I	<u>HT) Inf</u>	ormation	
All samples recei	ved within holding time	e?	Yes	✓	No 🗌]	
Samples Receive	ed on Ice?		Yes	✓	No		
		(Ісе Тур	e: WE				_
Sample/Temp Bla	ank temperature			Temp: 2.7	7°C		
	analyses: VOA meets Cs, TPHg/BTEX, RSK		Yes		No		NA 🗹
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No]	
pH acceptable up <2; 522: <4; 218.		Nitrate 353.2/4500NO3:	Yes	✓	No 🗌]	
UCMR Samples: pH tested and a 537.1: 6 - 8)?		pt (200.7: ≤2; 533: 6 - 8;	Yes		No		NA 🗹
Free Chlorine t [not applicable		upon receipt (<0.1mg/L)	Yes		No		NA 🔽
		==========					

Comments:



02 August 2022

McCampbell Analytical/Alpha Quote 222315 Attn: Lab Reports 1534 Willow Pass Rd. Pittsburg, CA 94565 RE: Water Quality- J-flags Work Order: 22G3451

Enclosed are the results of analyses for samples received by the laboratory on 07/27/22 22:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sheri Speaks

Sheri L. Speaks Project Manager



Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

McCampbell Analytical/Alpha Quote 222315	Project Manager:	Lab Reports	
1534 Willow Pass Rd.	Project:	Water Quality- J-flags	Reported:
Pittsburg CA, 94565	Project Number:	2207A70	08/02/22 10:04

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728 Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922 North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303 San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055 Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | Service Center

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FAC Combined Wastewater	22G3451-01	Water	07/19/22 14:00	07/27/22 22:50



McCampbell Analytical/Alpha Quote 222315	Project Manager:	Lab Reports	
1534 Willow Pass Rd.	Project:	Water Quality- J-flags	Reported:
Pittsburg CA, 94565	Project Number:	2207A70	08/02/22 10:04

Miscellaneous Physical/Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP# Note	s
FAC Combined Wastewater (22G	3451-01) Water	Sample	d: 07/19/22	2 14:00	Received	: 07/27/22	22:50					
Cyanide (total)	ND	0.0020	0.0050	mg/L	1	AH23132	08/01/22 04:52	08/01/22 13:08	10-204-00-1-X	MAP	1551	U



McCampbell Analytical/Alpha Quote 222315 1534 Willow Pass Rd. Pittsburg CA, 94565	Project Manager: Project: Project Number:	Water Quality- J-flags	Reported: 08/02/22 10:04					
Miscellaneous Phys	Miscellaneous Physical/Conventional Chemistry Parameters - Quality Control							

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH23132 - General Preparation	n										
Blank (AH23132-BLK1)					Prepared &	Analyzed:	08/01/22				
Cyanide (total)	ND	0.0020	0.0050	mg/L							U
LCS (AH23132-BS1)					Prepared &	Analyzed:	08/01/22				
Cyanide (total)	0.208	0.0020	0.0050	mg/L	0.200		104	85-115			
Duplicate (AH23132-DUP1)		Source: 2	22G3226-01		Prepared &	Analyzed:	08/01/22				
Cyanide (total)	ND	0.0020	0.0050	mg/L		0.00215			200	25	U
Matrix Spike (AH23132-MS1)		Source: 2	22G3226-01		Prepared &	Analyzed:	08/01/22				
Cyanide (total)	0.198	0.0020	0.0050	mg/L	0.200	0.00215	97.8	85-115			
Cyanide (total) Matrix Spike (AH23132-MS2)	0.198		0.0050 22G3460-01	U U		0.00215 Analyzed:		85-115			
	0.198			U U				85-115			
Matrix Spike (AH23132-MS2)		Source: 2 0.0020	22G3460-01	mg/L	Prepared & 0.200	Analyzed:	<u>08/01/22</u> 107				



McCampbell Analytical/Alpha Quote 222315	Project Manager:	Lab Reports	
1534 Willow Pass Rd.	Project:	Water Quality- J-flags	Reported:
Pittsburg CA, 94565	Project Number:	2207A70	08/02/22 10:04

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

ND Analyte NOT DETECTED at or above the reporting limit

- dry Sample results reported on a dry weight basis
- MDL Method detection limit
- Rec Recovery
- RPD Relative Percent Difference

Non-accredited analytes are reported only when ELAP accreditation for a requested analyte method pair is not available. For a list of accredited analytes, view our certificates at the Company link on our website at www.alpha-labs.com or contact your Project Manager directly.

McCampbell Analytical, Inc.



1534 Willow Pass Rd Pittsburg, CA 94565-1701 Phone: (925) 252-9262 Fax: (925) 252-9269

-

Subcontractor: Alpha Analytical Laboratories 262 Bickenbacker Circle

262 Rickenbacker Circle

SUB CHAIN-OF-CUSTODY RECORD 7°

Page 1 of 1

WorkOrder: 2207A70

ClientCode: GOA

DA EDF: NO

2263451

QC Level: LEVEL 2

Project Number: 2207A70

Project Name: Marsh Landing DDSD Semi-Annual

J-flag

Livermore, CA 94551

							Red	quested	Tests (s	see Leg	end bei	ow)
MAI Lab ID	ClientSampID	Source Name	PS Code	Matrix	Collection Date	TAT	1	2	3	4	5	6
2207A70-001C	FAC Combined Wastewater			Water	7/19/2022 14:00	STD	1					

Test Legend:

1 Kelada-01 (Cyanide, Total)	2	3
4	5	6

Comments: PLEASE USE 'CLIENT ID' AS THE SAMPLE ID AND EMAIL ASAP!

PLEASE ANALYZE FOR TOTAL CYANIDE

J-FLAG SHORT HOLD TIME RUSH 3 DAY

Please email results to Cassandra Gallegos at subdata@mccampbell.com upon completion.

[Date/Time		Date/Time
Relinquished by: Correnda Dulle	7.27.22	Received by:	
Relinquished by:	· · · · · · · · · · · · · · · · · · ·	Received by: RelERCC By JE 7/27/22 @	2Z:50
		ze	



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2207A70

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: (

07/19/2022

Analytical Report reviewed & approved for release on 07/27/2022 by:

a Co

Yen Cao 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: 2207A70

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
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 (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2207A70

Project: Marsh Landing DDSD Semi-Annual

Analytical Qualifiers

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value. a3 Sample diluted due to high organic content interfering with quantitative/or qualitative analysis.

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:07/19/2022 15:58Date Prepared:07/25/2022Project:Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
Extraction Method:	E1664A_SG
Analytical Method:	E1664A
Unit:	mg/L

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

Client ID	Lab ID	Matrix	Date Co	llected	Instrument	Batch ID
FAC Combined Wastewater	2207A70-001B	Water	07/19/202	2 14:00	O&G	250376
Analytes	<u>Result</u>	Qualifiers MDL	<u>RL</u>	DF		Date Analyzed
SGT-HEM	1.4	J 0.75	5.2	1		07/26/2022 15:30

Analyst(s): HN



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/25/2022Project:Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
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 Collected		Instrument	Batch ID	
FAC Combined Wastewater	2207A70-001A	Water	07/19/20	022 14:00	O&G	250375
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF		Date Analyzed
HEM	54	1.3	5.0	1		07/26/2022 14:00

Analyst(s): HN



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/19/2022Project:Marsh Landing DDSD Semi-Annual

 WorkOrder:
 2207A70

 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 Collected		Instrument	Batch ID	
FAC Combined Wastewater	2207A70-001F	Water	07/19/202	22 14:00	GC40 07222283.d	249854	
Analytes	<u>Result</u>		MDL RL	DF		Date Analyzed	
Aldrin	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
a-BHC	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
b-BHC	ND		0.000001 0.0000	020 2		07/23/2022 04:51	
d-BHC	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
g-BHC	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
Chlordane (Technical)	ND		0.000004 0.0000	40 2		07/23/2022 04:51	
p,p-DDD	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
p,p-DDE	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
p,p-DDT	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
Dieldrin	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
Endosulfan I	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
Endosulfan II	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
Endosulfan sulfate	ND		0.00000 0.0000	040 2		07/23/2022 04:51	
Endrin	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
Endrin aldehyde	ND		0.000001 0.0000	020 2		07/23/2022 04:51	
Heptachlor	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
Heptachlor epoxide	ND		0.00000 0.0000	020 2		07/23/2022 04:51	
Toxaphene	ND		0.000004 0.0000	40 2		07/23/2022 04:51	
Aroclor1016	ND		0.00003 0.0000	40 2		07/23/2022 04:51	
Aroclor1221	ND		0.000004 0.0000	40 2		07/23/2022 04:51	
Aroclor1232	ND		0.000007 0.0000	40 2		07/23/2022 04:51	
Aroclor1242	ND		0.000005 0.0000	40 2		07/23/2022 04:51	
Aroclor1248	ND		0.00003 0.0000	40 2		07/23/2022 04:51	
Aroclor1254	ND		0.00003 0.0000	40 2		07/23/2022 04:51	
Aroclor1260	ND		0.000005 0.0000	40 2		07/23/2022 04:51	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Decachlorobiphenyl	86		60-13	0		07/23/2022 04:51	
Analyst(s): CN	Analytical Comments: a3						



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/21/2022Project:Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70		
Extraction Method:	E624.1		
Analytical Method:	E624.1		
Unit:	mg/L		

Acrolein, Acrylonitrile, & 2-Chloroethyl Vinyl Ether										
Client ID	Lab ID	Matrix	Date Collected		Instrument GC10 07212210.D	Batch ID 250198				
FAC Combined Wastewater	2207A70-001H	Water	07/19/2022 14:00							
Analytes	<u>Result</u>		MDL	<u>RL</u>	DF		Date Analyzed			
Acrolein (Propenal)	ND		0.0039	0.0050	1		07/21/2022 16:22			
Acrylonitrile	ND		0.00023	0.0020	1		07/21/2022 16:22			
2-Chloroethyl Vinyl Ether	ND		0.00044	0.0010	1		07/21/2022 16:22			
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>						
Dibromofluoromethane	71			70-130			07/21/2022 16:22			
<u>Analyst(s):</u> LT										



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/23/2022Project:Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
Extraction Method:	E624.1
Analytical Method:	E624.1
Unit:	mg/L

Volatile Organics

Client ID	Lab ID	Matrix	Matrix Date Collected			Instrument	Batch ID	
FAC Combined Wastewater	2207A70-001G	Water		7/19/2022 14	4:00	GC45 07232222.D	250263	
Analytes	<u>Result</u>	Ν	<u>IDL</u>	<u>RL</u>	DF		Date Analyzed	
Benzene	ND	0	.00012	0.00020	1		07/23/2022 21:58	
Bromodichloromethane	0.0029	0	.000025	0.000050	1		07/23/2022 21:58	
Bromoform	0.00067	0	.00031	0.00050	1		07/23/2022 21:58	
Bromomethane	ND	0	.00018	0.00050	1		07/23/2022 21:58	
Carbon tetrachloride	ND	0	.000028	0.000050	1		07/23/2022 21:58	
Chlorobenzene	ND	0	.00011	0.00050	1		07/23/2022 21:58	
Chloroethane	ND	0	.00020	0.00050	1		07/23/2022 21:58	
Chloroform	0.0017	0	.000091	0.00010	1		07/23/2022 21:58	
Chloromethane	ND	0	.00028	0.00050	1		07/23/2022 21:58	
Dibromochloromethane	0.0030	0	.000026	0.00015	1		07/23/2022 21:58	
1,2-Dichlorobenzene	ND	0	.00016	0.00050	1		07/23/2022 21:58	
1,3-Dichlorobenzene	ND	0	.00012	0.00050	1		07/23/2022 21:58	
1,4-Dichlorobenzene	ND	0	.000093	0.00050	1		07/23/2022 21:58	
1,1-Dichloroethane	ND	0	.00015	0.00050	1		07/23/2022 21:58	
1,2-Dichloroethane (1,2-DCA)	ND	0	.000011	0.000020	1		07/23/2022 21:58	
1,1-Dichloroethene	ND	0	.000009	0.000010	1		07/23/2022 21:58	
trans-1,2-Dichloroethene	ND	0	.00011	0.00050	1		07/23/2022 21:58	
1,2-Dichloropropane	ND	0	.000019	0.00020	1		07/23/2022 21:58	
cis-1,3-Dichloropropene	ND	0	.00021	0.00050	1		07/23/2022 21:58	
trans-1,3-Dichloropropene	ND	0	.00028	0.00050	1		07/23/2022 21:58	
Ethylbenzene	ND	0	.00014	0.00050	1		07/23/2022 21:58	
Methylene chloride	ND	0	.00074	0.0020	1		07/23/2022 21:58	
1,1,2,2-Tetrachloroethane	ND	0	.000011	0.000020	1		07/23/2022 21:58	
Tetrachloroethene	ND	0	.00016	0.00020	1		07/23/2022 21:58	
Toluene	ND	0	.00017	0.00050	1		07/23/2022 21:58	
1,1,1-Trichloroethane	ND	0	.00011	0.00050	1		07/23/2022 21:58	
1,1,2-Trichloroethane	ND	0	.00011	0.00020	1		07/23/2022 21:58	
Trichloroethene	ND	0	.00025	0.00050	1		07/23/2022 21:58	
Trichlorofluoromethane	ND	0	.00014	0.00050	1		07/23/2022 21:58	
Vinyl chloride	ND	0	.000004	0.0000050	1		07/23/2022 21:58	
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>				
Dibromofluoromethane	94			70-130			07/23/2022 21:58	
Toluene-d8	90			70-130			07/23/2022 21:58	
4-BFB	97			70-130			07/23/2022 21:58	



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/19/2022Project:Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	mg/L

Semi-Volatile Organics

Client ID	Lab ID	Lab ID Matrix			cted	Instrument	Batch ID
FAC Combined Wastewater	2207A70-001I	Water	0	7/19/2022 1	4:00	GC48 07202216.D	249829
Analytes	<u>Result</u>		MDL	<u>RL</u>	DF		Date Analyzed
Acenaphthene	ND		0.000010	0.000026	5		07/20/2022 16:12
Acenaphthylene	ND		0.000004	0.000026	5		07/20/2022 16:12
Anthracene	ND		0.000014	0.000026	5		07/20/2022 16:12
Benzidine	ND		0.012	0.026	5		07/20/2022 16:12
Benzo (a) anthracene	ND		0.000062	0.00026	5		07/20/2022 16:12
Benzo (a) pyrene	ND		0.000016	0.000026	5		07/20/2022 16:12
Benzo (b) fluoranthene	ND		0.000029	0.00010	5		07/20/2022 16:12
Benzo (g,h,i) perylene	ND		0.000026	0.00010	5		07/20/2022 16:12
Benzo (k) fluoranthene	ND		0.000027	0.00010	5		07/20/2022 16:12
Bis (2-chloroethoxy) Methane	ND		0.0013	0.0052	5		07/20/2022 16:12
Bis (2-chloroethyl) Ether	ND		0.000010	0.000026	5		07/20/2022 16:12
Bis (2-chloroisopropyl) Ether	ND		0.000078	0.00026	5		07/20/2022 16:12
Bis (2-ethylhexyl) Phthalate	ND		0.00023	0.0010	5		07/20/2022 16:12
4-Bromophenyl Phenyl Ether	ND		0.00078	0.0052	5		07/20/2022 16:12
Butylbenzyl Phthalate	ND		0.000038	0.00026	5		07/20/2022 16:12
4-Chloro-3-methylphenol	ND		0.0019	0.0052	5		07/20/2022 16:12
2-Chloronaphthalene	ND		0.0011	0.0052	5		07/20/2022 16:12
2-Chlorophenol	ND		0.000067	0.00026	5		07/20/2022 16:12
4-Chlorophenyl Phenyl Ether	ND		0.0011	0.0052	5		07/20/2022 16:12
Chrysene	ND		0.000010	0.000026	5		07/20/2022 16:12
Dibenzo (a,h) anthracene	ND		0.000029	0.00010	5		07/20/2022 16:12
Di-n-butyl Phthalate	ND		0.000093	0.00026	5		07/20/2022 16:12
1,2-Dichlorobenzene	ND		0.00088	0.0052	5		07/20/2022 16:12
1,3-Dichlorobenzene	ND		0.0014	0.0052	5		07/20/2022 16:12
1,4-Dichlorobenzene	ND		0.0014	0.0052	5		07/20/2022 16:12
3,3-Dichlorobenzidine	ND		0.000012	0.000026	5		07/20/2022 16:12
2,4-Dichlorophenol	ND		0.000016	0.000052	5		07/20/2022 16:12
Diethyl Phthalate	ND		0.000083	0.00026	5		07/20/2022 16:12
2,4-Dimethylphenol	ND		0.0025	0.0052	5		07/20/2022 16:12
Dimethyl Phthalate	ND		0.000025	0.000052	5		07/20/2022 16:12
4,6-Dinitro-2-methylphenol	ND		0.0098	0.026	5		07/20/2022 16:12
2,4-Dinitrophenol	ND		0.0020	0.0052	5		07/20/2022 16:12
2,4-Dinitrotoluene	ND		0.00010	0.00026	5		07/20/2022 16:12
2,6-Dinitrotoluene	ND		0.000098	0.00026	5		07/20/2022 16:12
Di-n-octyl Phthalate	ND		0.0040	0.0052	5		07/20/2022 16:12
1,2-Diphenylhydrazine	ND		0.0010	0.0052	5		07/20/2022 16:12
Fluoranthene	ND			0.000052	5		07/20/2022 16:12



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/19/2022Project:Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	mg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	D	ate Collec	ted	Instrument	Batch ID		
FAC Combined Wastewater	2207A70-001I	Water	0	7/19/2022 1	4:00	GC48 07202216.D	249829		
Analytes	<u>Result</u>		MDL	<u>RL</u>	DF		Date Analyzed		
Fluorene	ND		0.000015	0.000052	5		07/20/2022 16:12		
Hexachlorobenzene	ND		0.000008	0.000026	5		07/20/2022 16:12		
Hexachlorobutadiene	ND		0.000010	0.000026	5		07/20/2022 16:12		
Hexachlorocyclopentadiene	ND		0.012	0.026	5		07/20/2022 16:12		
Hexachloroethane	ND		0.000015	0.000052	5		07/20/2022 16:12		
Indeno (1,2,3-cd) pyrene	ND		0.000037	0.00010	5		07/20/2022 16:12		
Isophorone	ND		0.0048	0.010	5		07/20/2022 16:12		
Naphthalene	ND		0.000062	0.00026	5		07/20/2022 16:12		
Nitrobenzene	ND		0.0015	0.0052	5		07/20/2022 16:12		
2-Nitrophenol	ND		0.0088	0.026	5		07/20/2022 16:12		
4-Nitrophenol	ND		0.0083	0.026	5		07/20/2022 16:12		
N-Nitrosodimethylamine	ND		0.0098	0.026	5		07/20/2022 16:12		
N-Nitrosodiphenylamine	ND		0.0012	0.0052	5		07/20/2022 16:12		
N-Nitrosodi-n-propylamine	ND		0.0018	0.0052	5		07/20/2022 16:12		
Pentachlorophenol	ND		0.00046	0.0013	5		07/20/2022 16:12		
Phenanthrene	ND		0.000013	0.000026	5		07/20/2022 16:12		
Phenol	ND		0.00030	0.0010	5		07/20/2022 16:12		
Pyrene	ND		0.000009	0.000026	5		07/20/2022 16:12		
1,2,4-Trichlorobenzene	ND		0.00098	0.0052	5		07/20/2022 16:12		
2,4,6-Trichlorophenol	ND		0.000020	0.000052	5		07/20/2022 16:12		
Surrogates	<u>REC (%)</u>			<u>Limits</u>					
2-Fluorophenol	46			30-130			07/20/2022 16:12		
Phenol-d5	31			20-130			07/20/2022 16:12		
Nitrobenzene-d5	63			60-130			07/20/2022 16:12		
2-Fluorobiphenyl	73			50-130			07/20/2022 16:12		
2,4,6-Tribromophenol	67			60-130			07/20/2022 16:12		
4-Terphenyl-d14	48			40-130			07/20/2022 16:12		
<u>Analyst(s):</u> LAT			Anal	ytical Comm	<u>ents:</u> a	3			



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/20/2022Project:Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
Extraction Method:	E350.1
Analytical Method:	E350.1
Unit:	mg/L

Ammonia As Nitrogen							
Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID	
FAC Combined Wastewater	2207A70-001E	Water	07/19/2022 14:00		WC_SKALAR 220720A1_30	249939	
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF	Date	Analyzed	
Ammonia, total as N	6.0	0.096	0.10	1	07/20)/2022 10:32	

Analyst(s): CC



Client:NRG Energy, LLCDate Received:07/19/2022 15:58Date Prepared:07/20/2022Project:Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
Extraction Method:	E420.4
Analytical Method:	E420.4
Unit:	mg/L

Phenolics							
Client ID	Lab ID	Matrix		Date Coll	ected	Instrument	Batch ID
FAC Combined Wastewater	2207A70-001D	Water		07/19/2022 14:00		WC_SKALAR 220720B1_50	249969
Analytes	<u>Result</u>		MDL	<u>RL</u>	DF	Date	Analyzed
Phenolics	ND		0.0014	0.0020	1	07/20	/2022 15:24

Analyst(s): CC

Client:	NRG Energy, LLC	WorkOrder:	2207A70
Date Prepared:	07/26/2022	BatchID:	250376
Date Analyzed:	07/26/2022	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-250376

QC Summary Report for E1664A									
Analyte	MB Result		MDL	RL					
SGT-HEM	ND		0.72	5.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	8.4	8.6	10.42		81	82	64-132	1.63	30

Client:	NRG Energy, LLC	WorkOrder:	2207A70
Date Prepared:	07/26/2022	BatchID:	250375
Date Analyzed:	07/26/2022	Extraction Method:	E1664A
Instrument:	O&G	Analytical Method:	E1664A
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD Semi-Annual	Sample ID:	MB/LCS/LCSD-250375

QC Summary Report for E1664A									
Analyte	MB Result		MDL	RL					
НЕМ	ND		1.3	5.0		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
НЕМ	18	18	20.83		87	85	78-114	2.32	30

NRG Energy, LLC
07/19/2022
07/20/2022
GC40
Water
Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
BatchID:	249854
Extraction Method:	E608.3/SW3620B
Analytical Method:	E608.3
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-249854

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	0.050			0.05	100	60-130

Client:	NRG Energy, LLC
Date Prepared:	07/19/2022
Date Analyzed:	07/20/2022
Instrument:	GC40
Matrix:	Water
Project:	Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
BatchID:	249854
Extraction Method:	E608.3/SW3620B
Analytical Method:	E608.3
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-249854

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

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.047	0.050	0.050	94	101	60-130	6.77	20
a-BHC	0.049	0.052	0.050	97	104	70-130	6.64	20
b-BHC	0.045	0.048	0.050	89	96	70-130	7.20	20
d-BHC	0.053	0.057	0.050	105	114	70-130	7.66	20
g-BHC	0.049	0.053	0.050	98	105	60-130	7.21	20
a-Chlordane	0.048	0.051	0.050	95	101	60-130	6.14	20
g-Chlordane	0.050	0.053	0.050	99	106	70-130	6.16	20
p,p-DDD	0.053	0.057	0.050	106	113	70-130	6.96	20
p,p-DDE	0.054	0.057	0.050	107	114	70-130	6.29	20
p,p-DDT	0.057	0.061	0.050	114	123	70-130	7.12	20
Dieldrin	0.049	0.053	0.050	98	106	70-130	6.99	20
Endosulfan I	0.048	0.051	0.050	96	102	70-130	6.86	20
Endosulfan II	0.051	0.055	0.050	102	110	70-130	7.12	20
Endosulfan sulfate	0.050	0.054	0.050	101	108	70-130	7.06	20
Endrin	0.055	0.059	0.050	109	117	70-130	7.33	20
Endrin aldehyde	0.046	0.049	0.050	91	99	60-130	7.73	20
Endrin ketone	0.049	0.053	0.050	99	107	60-130	7.40	20
Heptachlor	0.050	0.054	0.050	101	108	70-130	6.78	20
Heptachlor epoxide	0.048	0.051	0.050	95	102	70-130	6.86	20
Methoxychlor	0.056	0.060	0.050	112	121	70-130	7.00	20
Aroclor1016	0.15	0.15	0.15	99	99	70-130	0.499	20
Aroclor1260	0.15	0.15	0.15	101	98	70-130	2.97	20
Surrogate Recovery								
Decachlorobiphenyl	0.051	0.053	0.050	103	106	60-130	2.88	20

Client:	NRG Energy, LLC
Date Prepared:	07/21/2022
Date Analyzed:	07/21/2022
Instrument:	GC10
Matrix:	Water
Project:	Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
BatchID:	250198
Extraction Method:	E624.1
Analytical Method:	E624.1
Unit:	µg/L
Sample ID:	MB/LCS/LCSD-250198

QC Summary Report for E624.1 MB MDL RL SPK MB SS MB SS Analyte Result Val %REC Limits Acrolein (Propenal) ND 3.9 5.0 ---Acrylonitrile ND 0.23 2.0 ---2-Chloroethyl Vinyl Ether ND 0.44 1.0 ---Surrogate Recovery Dibromofluoromethane 18 25 71 70-130 Analyte LCS LCSD SPK LCS LCSD LCS/LCSD RPD RPD Result Result Val %REC %REC Limits Limit Acrolein (Propenal) 71-140 17.9 20 20 17 20 101 84 Acrylonitrile 19 17 20 97 83 67-145 16.1 20 2-Chloroethyl Vinyl Ether 70-124 23 18 20 116 92 23.6,F2 20 Surrogate Recovery Dibromofluoromethane 18 18 25 71 71 70-130 0.811 20

Client:	NRG Energy, LLC
Date Prepared:	07/23/2022 - 07/24/2022
Date Analyzed:	07/23/2022 - 07/24/2022
Instrument:	GC45
Matrix:	Water
Project:	Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
BatchID:	250263
Extraction Method:	E624.1
Analytical Method:	E624.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-250263

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzene	ND	0.12	0.20	-	-	-
Bromodichloromethane	ND	0.025	0.050	-	-	-
Bromoform	ND	0.31	0.50	-	-	-
Bromomethane	ND	0.18	0.50	-	-	-
Carbon Disulfide	ND	0.18	0.50	-	-	-
Carbon tetrachloride	ND	0.028	0.050	-	-	-
Chlorobenzene	ND	0.11	0.50	-	-	-
Chloroethane	ND	0.20	0.50	-	-	-
Chloroform	ND	0.091	0.10	-	-	-
Chloromethane	ND	0.28	0.50	-	-	-
Dibromochloromethane	ND	0.026	0.15	-	-	-
1,2-Dichlorobenzene	ND	0.16	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.12	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.093	0.50	-	-	-
1,1-Dichloroethane	ND	0.15	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.011	0.020	-	-	-
1,1-Dichloroethene	ND	0.0094	0.010	-	-	-
trans-1,2-Dichloroethene	ND	0.11	0.50	-	-	-
1,2-Dichloropropane	ND	0.019	0.20	-	-	-
cis-1,3-Dichloropropene	ND	0.21	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.28	0.50	-	-	-
Ethylbenzene	ND	0.14	0.50	-	-	-
Methylene chloride	ND	0.74	2.0	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.011	0.020	-	-	-
Tetrachloroethene	ND	0.16	0.20	-	-	-
Toluene	ND	0.17	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.11	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.11	0.20	-	-	-
Trichloroethene	ND	0.25	0.50	-	-	-
Trichlorofluoromethane	ND	0.14	0.50	-	-	-
Vinyl chloride	ND	0.0043	0.0050	-	-	-
Surrogate Recovery						
Dibromofluoromethane	23			25	92	70-130
Toluene-d8	23			25	91	70-130
4-BFB	2.5			2.5	99	70-130

Client:	NRG Energy, LLC
Date Prepared:	07/23/2022 - 07/24/2022
Date Analyzed:	07/23/2022 - 07/24/2022
Instrument:	GC45
Matrix:	Water
Project:	Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
BatchID:	250263
Extraction Method:	E624.1
Analytical Method:	E624.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-250263

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzene	3.6	3.8	4	89	96	60-130	8.06	20
Bromodichloromethane	3.6	3.9	4	90	97	60-130	8.28	20
Bromoform	3.9	4.2	4	98	106	50-130	7.32	20
Bromomethane	4.5	5.4	4	112	135,F2	50-130	18.9	20
Carbon Disulfide	3.7	4.0	4	93	99	60-130	6.85	20
Carbon tetrachloride	3.6	3.9	4	89	98	60-130	9.38	20
Chlorobenzene	3.8	4.2	4	96	104	60-130	8.77	20
Chloroethane	3.7	4.1	4	93	102	60-140	8.76	20
Chloroform	3.6	3.9	4	90	98	60-130	8.43	20
Chloromethane	3.3	3.6	4	82	89	50-130	8.53	20
Dibromochloromethane	3.9	4.2	4	97	105	50-130	7.82	20
1,2-Dichlorobenzene	4.1	4.4	4	102	110	60-130	7.46	20
1,3-Dichlorobenzene	3.9	4.2	4	97	105	60-130	7.66	20
1,4-Dichlorobenzene	4.0	4.3	4	101	109	60-130	7.62	20
1,1-Dichloroethane	3.6	3.9	4	89	97	50-130	8.85	20
1,2-Dichloroethane (1,2-DCA)	3.5	3.8	4	88	95	60-130	7.69	20
1,1-Dichloroethene	4.0	4.4	4	100	109	60-130	8.93	20
trans-1,2-Dichloroethene	3.7	4.1	4	93	102	60-130	8.74	20
1,2-Dichloropropane	3.7	4.0	4	92	99	60-130	7.31	20
cis-1,3-Dichloropropene	3.8	4.1	4	94	102	60-130	7.59	20
trans-1,3-Dichloropropene	3.8	4.1	4	95	103	60-130	7.41	20
Ethylbenzene	3.6	3.9	4	90	98	60-130	8.66	20
Methylene chloride	3.6	3.9	4	89	98	50-130	9.23	20
1,1,2,2-Tetrachloroethane	4.2	4.4	4	105	111	60-130	5.52	20
Tetrachloroethene	4.0	4.3	4	99	107	60-130	8.25	20
Toluene	3.6	3.9	4	89	97	60-130	8.32	20
1,1,1-Trichloroethane	3.5	3.8	4	88	96	60-130	8.52	20
1,1,2-Trichloroethane	3.9	4.2	4	97	104	60-130	6.84	20
Trichloroethene	3.9	4.2	4	97	106	60-130	8.31	20
Trichlorofluoromethane	3.8	4.1	4	94	102	60-130	7.88	20
Vinyl chloride	3.8	4.2	4	95	104	60-130	8.81	20
Surrogate Recovery								_
Dibromofluoromethane	23	23	25	92	92	70-130	0.948	20
Toluene-d8	23	23	25	90	91	70-130	0.140	20
4-BFB	2.5	2.5	2.5	99	99	70-130	0.203	20

Client:	NRG Energy, LLC
Date Prepared:	07/19/2022
Date Analyzed:	07/19/2022
Instrument:	GC47
Matrix:	Water
Project:	Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
BatchID:	249829
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-249829

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.0020	0.0050	-	-	-
Acenaphthylene	ND	0.00093	0.0050	-	-	-
Anthracene	ND	0.0027	0.0050	-	-	-
Benzidine	ND	2.4	5.0	-	-	-
Benzo (a) anthracene	ND	0.012	0.050	-	-	-
Benzo (a) pyrene	ND	0.0031	0.0050	-	-	-
Benzo (b) fluoranthene	ND	0.0056	0.020	-	-	-
Benzo (g,h,i) perylene	ND	0.0051	0.020	-	-	-
Benzo (k) fluoranthene	ND	0.0052	0.020	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.25	1.0	-	-	-
Bis (2-chloroethyl) Ether	ND	0.0020	0.0050	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.015	0.050	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.045	0.20	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.15	1.0	-	-	-
Butylbenzyl Phthalate	0.0085,J	0.0074	0.050	-	-	-
4-Chloro-3-methylphenol	ND	0.37	1.0	-	-	-
2-Chloronaphthalene	ND	0.22	1.0	-	-	-
2-Chlorophenol	ND	0.013	0.050	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.22	1.0	-	-	-
Chrysene	ND	0.0020	0.0050	-	-	-
Dibenzo (a,h) anthracene	ND	0.0056	0.020	-	-	-
Di-n-butyl Phthalate	0.032,J	0.018	0.050	-	-	-
1,2-Dichlorobenzene	ND	0.17	1.0	-	-	-
1,3-Dichlorobenzene	ND	0.28	1.0	-	-	-
1,4-Dichlorobenzene	ND	0.28	1.0	-	-	-
3,3-Dichlorobenzidine	ND	0.0024	0.0050	-	-	-
2,4-Dichlorophenol	ND	0.0030	0.010	-	-	-
Diethyl Phthalate	ND	0.016	0.050	-	-	-
2,4-Dimethylphenol	ND	0.49	1.0	-	-	-
Dimethyl Phthalate	ND	0.0048	0.010	-	-	-
4,6-Dinitro-2-methylphenol	ND	1.9	5.0	-	-	-
2,4-Dinitrophenol	ND	0.38	1.0	-	-	-
2,4-Dinitrotoluene	ND	0.020	0.050	-	-	-
2,6-Dinitrotoluene	ND	0.019	0.050	-	-	-
Di-n-octyl Phthalate	ND	0.77	1.0	-	-	-
1,2-Diphenylhydrazine	ND	0.20	1.0	-	-	-
Fluoranthene	ND	0.0027	0.010	-	-	-
Fluorene	ND	0.0029	0.010	-	-	-

Client:	NRG Energy, LLC
Date Prepared:	07/19/2022
Date Analyzed:	07/19/2022
Instrument:	GC47
Matrix:	Water
Project:	Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
BatchID:	249829
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-249829

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Hexachlorobenzene	ND	0.0016	0.0050	-	-	-
Hexachlorobutadiene	ND	0.0020	0.0050	-	-	-
Hexachlorocyclopentadiene	ND	2.3	5.0	-	-	-
Hexachloroethane	ND	0.0029	0.010	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.0072	0.020	-	-	-
Isophorone	ND	0.92	2.0	-	-	-
Naphthalene	ND	0.012	0.050	-	-	-
Nitrobenzene	ND	0.29	1.0	-	-	-
2-Nitrophenol	ND	1.7	5.0	-	-	-
4-Nitrophenol	ND	1.6	5.0	-	-	-
N-Nitrosodimethylamine	ND	1.9	5.0	-	-	-
N-Nitrosodiphenylamine	ND	0.23	1.0	-	-	-
N-Nitrosodi-n-propylamine	ND	0.35	1.0	-	-	-
Pentachlorophenol	ND	0.089	0.25	-	-	-
Phenanthrene	ND	0.0026	0.0050	-	-	-
Phenol	ND	0.057	0.20	-	-	-
Pyrene	ND	0.0019	0.0050	-	-	-
1,2,4-Trichlorobenzene	ND	0.19	1.0	-	-	-
2,4,6-Trichlorophenol	ND	0.0038	0.010	-	-	-
Surrogate Recovery						
2-Fluorophenol	4.4			5	87	30-130
Phenol-d5	4.6			5	93	20-130
Nitrobenzene-d5	4.4			5	88	60-130
2-Fluorobiphenyl	5.2			5	103	50-130
2,4,6-Tribromophenol	4.4			5	89	60-130
4-Terphenyl-d14	3.2			5	64	40-130

NRG Energy, LLC
07/19/2022
07/19/2022
GC47
Water
Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
BatchID:	249829
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-249829

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.24	0.22	0.25	96	90	50-130	7.12	25
Acenaphthylene	0.21	0.19	0.25	83	78	60-130	6.50	25
Anthracene	0.26	0.26	0.25	103	102	60-130	0.597	25
Benzidine	12	11	25	46	43	20-130	7.54	25
Benzo (a) anthracene	0.26	0.26	0.25	104	104	60-130	0.415	25
Benzo (a) pyrene	0.35	0.34	0.25	140,F5	137,F5	60-130	2.24	25
Benzo (b) fluoranthene	0.30	0.29	0.25	119	117	60-130	1.38	25
Benzo (g,h,i) perylene	0.27	0.26	0.25	109	103	50-130	5.68	25
Benzo (k) fluoranthene	0.26	0.25	0.25	104	98	60-130	5.21	25
Bis (2-chloroethoxy) Methane	4.9	4.7	5	99	94	65-130	5.13	25
Bis (2-chloroethyl) Ether	0.25	0.24	0.25	100	95	60-130	5.17	25
Bis (2-chloroisopropyl) Ether	0.25	0.23	0.25	102	94	60-130	8.31	25
Bis (2-ethylhexyl) Phthalate	0.45	0.46	0.25	182,F5	184,F5	60-130	1.17	25
4-Bromophenyl Phenyl Ether	4.4	4.3	5	88	86	65-130	2.61	25
Butylbenzyl Phthalate	0.31	0.32	0.25	125	127	60-140	1.20	25
4-Chloro-3-methylphenol	3.8	3.7	5	76	75	65-130	1.62	25
2-Chloronaphthalene	4.7	4.3	5	94	86	65-130	8.91	25
2-Chlorophenol	0.25	0.23	0.25	98	92	60-130	6.40	25
4-Chlorophenyl Phenyl Ether	4.2	4.0	5	84	80	65-130	6.00	25
Chrysene	0.26	0.25	0.25	102	102	70-130	0.789	25
Dibenzo (a,h) anthracene	0.26	0.26	0.25	104	103	50-130	0.631	25
Di-n-butyl Phthalate	0.29	0.29	0.25	117	118	60-130	1.06	25
1,2-Dichlorobenzene	4.2	4.0	5	84	79	60-130	5.69	25
1,3-Dichlorobenzene	4.0	3.7	5	81	74	60-130	9.27	25
1,4-Dichlorobenzene	4.0	3.7	5	79	74	60-130	7.04	25
3,3-Dichlorobenzidine	0.28	0.29	0.25	112	115	60-130	2.20	25
2,4-Dichlorophenol	0.22	0.21	0.25	88	84	60-130	4.47	25
Diethyl Phthalate	0.25	0.24	0.25	99	94	65-130	4.59	25
2,4-Dimethylphenol	3.4	3.2	5	67	64	60-130	4.71	25
Dimethyl Phthalate	0.26	0.25	0.25	104	99	60-130	4.81	25
4,6-Dinitro-2-methylphenol	26	26	25	105	106	60-130	1.12	25
2,4-Dinitrophenol	4.2	4.2	5	85	84	50-130	1.55	25
2,4-Dinitrotoluene	0.25	0.24	0.25	100	97	70-130	2.88	25
2,6-Dinitrotoluene	0.24	0.23	0.25	94	93	65-140	1.64	25
Di-n-octyl Phthalate	6.0	5.9	5	121	118	70-130	2.52	25
1,2-Diphenylhydrazine	4.4	4.3	5	88	86	65-130	2.37	25
Fluoranthene	0.28	0.28	0.25	110	111	65-130	0.304	25
Fluorene	0.25	0.24	0.25	101	94	65-130	6.66	25

NRG Energy, LLC
07/19/2022
07/19/2022
GC47
Water
Marsh Landing DDSD Semi-Annual

WorkOrder:	2207A70
BatchID:	249829
Extraction Method:	E625.1
Analytical Method:	E625.1
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-249829

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Hexachlorobenzene	0.27	0.26	0.25	109	106	60-130	3.22	25
Hexachlorobutadiene	0.28	0.26	0.25	112	104	60-130	7.67	25
Hexachlorocyclopentadiene	20	19	25	80	74	50-130	7.70	25
Hexachloroethane	0.24	0.23	0.25	97	91	40-130	6.65	25
Indeno (1,2,3-cd) pyrene	0.33	0.33	0.25	133,F5	130	50-130	1.98	25
Isophorone	4.9	4.8	5	98	97	50-130	1.47	25
Naphthalene	0.22	0.21	0.25	89	85	50-130	4.76	25
Nitrobenzene	4.8	4.6	5	96	92	60-130	3.57	25
2-Nitrophenol	24	24	25	98	95	70-130	3.42	25
4-Nitrophenol	25	24	25	101	95	30-130	5.87	25
N-Nitrosodimethylamine	21	20	25	85	81	30-130	4.48	25
N-Nitrosodiphenylamine	5.3	5.2	5	107	104	65-130	2.84	25
N-Nitrosodi-n-propylamine	4.4	4.2	5	88	85	50-130	3.33	25
Pentachlorophenol	1.2	1.3	1.25	97	101	60-130	3.70	25
Phenanthrene	0.26	0.25	0.25	102	100	65-130	1.88	25
Phenol	0.93	0.87	1	93	87	30-130	6.62	25
Pyrene	0.28	0.28	0.25	111	111	70-130	0.586	25
1,2,4-Trichlorobenzene	4.3	4.0	5	85	81	65-130	4.92	25
2,4,6-Trichlorophenol	0.24	0.22	0.25	95	89	65-130	5.89	25
Surrogate Recovery								
2-Fluorophenol	4.2	4.1	5	84	83	30-130	2.09	25
Phenol-d5	4.4	4.5	5	89	90	20-130	1.54	25
Nitrobenzene-d5	4.5	4.6	5	90	92	60-130	2.85	25
2-Fluorobiphenyl	4.6	4.5	5	93	90	50-130	2.87	25
2,4,6-Tribromophenol	5.1	5.3	5	102	106	60-130	4.18	25
4-Terphenyl-d14	3.4	3.5	5	68	69	40-130	1.43	25

Client:	NRG Energy, LLC	WorkOrder:	2207A70
Date Prepared:	07/20/2022	BatchID:	249939
Date Analyzed:	07/20/2022	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-249939 2207A70-001EMS/MSD

Australia		MD		MDI	DI.					
Analyte		MB Result		MDL	RL					
Ammonia, total as N		ND		0.096	0.10		-	-	-	
Analyte		LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ammonia, total as N		4.1	4.2	4		103	104	88-113	0.818	20
Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Ammonia, total as N	1	10	10	4	6.0	101	103	80-120	0.809	20

Client:	NRG Energy, LLC	WorkOrder:	2207A70
Date Prepared:	07/20/2022	BatchID:	249969
Date Analyzed:	07/20/2022	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-249969

	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	38	37	40		96	92	80-120	3.82	20		

McCampb	ell Analytical,	Inc.			CHAI	N-0	F-CU	STOD	Y RE	COF	RD		Page	1 of 1	1
- 8 V	A 94565-1701	WaterTrax		EDF	WorkOr EQui		ry-Weight	Clier Clier Email	-	GOA HardCo	ору	Quotel		212372 💽 J-fla	g
Report to: David Frandsen		Email:	David Frandaa			Bill to:	unto Dovio	bla			Requ	ested TAT:		5 days;	
NRG Energy, LL 3201 Wilbur Ave Antioch, CA 945 (925) 427-3479	nue		4501914176	g.com; james.robin: g DDSD Semi-Annu	C C	NRG 4900 Scotts	dale, AZ	dale Road,				Received: Logged:	-	07/19/2 07/19/2	
								Request	ed Tests	(See leg	end b	elow)			
Lab ID	ClientSampl)	Matrix	Collection Date	Hold 1	2	3	4 5	6	7	8	9	10	11	12
2207A70-001	FAC Combined Was	tewater	Water	7/19/2022 14:00	В	Α	F	G H	1	F	С	D	Α		

Test Legend:

1	1664A_SG_W
5	624ACR+2CEVE_W
9	PHENOLICS_W

2	1664A_W
6	625_SCSM_W
10	PRDisposal Fee

3	608_W
7	AMMONIA_W
11	

4	624_W
8	CN_PPM_W
12	

Project Manager: Susan Thompson

Prepared by: Cassandra Gallegos

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		NERGY, LLC Frandsen Frandsen@nrg.		Project: Comment	Marsh Landing s: Use QUOTE 21 correct analyte 1	2372 f	or any	Marsh 1	Landing projects to	o get	QC I	rder: 220 Level: LEN gged: 7/19	VEL 2	
		Water	Trax UVriteOn DEDF	Exc	el EQuis	S	√ Em	nail	HardCopy	Thirc	Party J-flag	J		
LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative		Head Space `	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content		Sub Ou
001A	FAC Combined Wastewater	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl				7/19/2022 14:00	5 days	7/26/2022	Present		
001B	FAC Combined Wastewater	Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl				7/19/2022 14:00	5 days	7/26/2022	Present		
001C	FAC Combined Wastewater	Water	Kelada-01 (Cyanide, Total)	1	250mL aHDPE w/ NaOH				7/19/2022 14:00	5 days	7/26/2022	Present		
001D	FAC Combined Wastewater	Water	E420.4 (Phenolics)	1	250mL aG w/ H2SO4				7/19/2022 14:00	5 days	7/26/2022	Present		
001E	FAC Combined Wastewater	Water	E350.1 (Ammonia)	1	250mL aG w/ EDA	· 🗌			7/19/2022 14:00	5 days	7/26/2022	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.

Ş			bell Analytic	al, Inc.			Toll	Free Telep	w Pass Road, Pittsburg, G hone: (877) 252-9262 / H mpbell.com / E-mail: ma	Fax: (925) 25	2-9269			
				W	ORK OR	DER SUM	IMARY							
		ENERGY, LLC Frandsen			Project:	Marsh Landi	ng DDSD Se	emi-Ann	ual)rder: 220 Level: LE ^v		
Conta	ct's Email: David.	.Frandsen@nrg.	com		Comment	s: Use QUOTE 2 correct analyte			Landing projects to mg/L.	o get	Date Lo	ogged: 7/19	9/2022	
		□Water	Trax WriteOn	EDF	Exc	el EQu	IS 🖌 Er	mail	HardCopy	Third	Party J-fla	g		
LabID	ClientSampID	Matrix	Test Name		Containers /Composites	Bottle & Preservative	U** Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content		Sub Out
001F	FAC Combined Wastewater	Water	E608.3 (OC Pesticides Clean-up) <a-bhc_1, Aroclor1016_1, Aroclo Aroclor1232_1, Aroclo Aroclor1248_1, Aroclo Aroclor1260_1, b-BHC (Technical)_1, d-BHC, Endosulfan sulfate_1, 1 aldehyde_1, Endrin_1, Heptachlor epoxide_1, p,p-DDD_1, p,p-DDE_ Toxaphene_1></a-bhc_1, 	Aldrin_1, r1221_1, r1242_1, r1254_1, 2_1, Chlordane _1, Dieldrin_1, ulfan II_1, Endrin g-BHC_1, Heptachlor_1,	1	ILA Narrow Mou Unpres	lh, 🗌 🗍		7/19/2022 14:00	5 days	7/26/2022	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.

Ş	<u>M</u>		bell Analytical, Inc Then Quality Counts'	•				Toll F	ree Telepl	v Pass Road, Pittsburg, o none: (877) 252-9262 / I mpbell.com / E-mail: ma	Fax: (925) 25	2-9269			
				WO	RK ORI	DER SUM	MA	RY							
	t Name: NRG EN t Contact: David Fra	ERGY, LLC andsen			Project:	Marsh Landin	ng DD	SD Sei	ni-Ann	ual			Order: 220 Level: LE		
Conta	act's Email: David.Fra	andsen@nrg.	com		Comments	Use QUOTE 2 correct analyte				Landing projects to mg/L.	o get	Date L	ogged: 7/1	9/2022	2
		Water	Trax WriteOn E	DF	Exce	I EQu	IS	√ Err	nail	HardCopy	Third	Party 🖌 J-fla	ag		
LabID	O ClientSampID	Matrix	Test Name		Containers Composites	Bottle & Preservative	U**	⁵ Head Space	•	Collection Date & Time	TAT	Test Due Date	e Sediment Content		Sub Out
001G	FAC Combined Wastewater	Water	E624.1 (VOCs) <1,1,1-Trichloroetha 1,1,2,2-Tetrachloroethane, 1,1,2- Trichloroethane, 1,1-Dichloroethane Dichloroethane, 1,2-Dichlorobenzen 1,2-Dichloroethane (1,2-DCA), 1,2- Dichloropropane, 1,3-Dichlorobenzen 1,4-Dichlorobenzene, Benzene, Bromodichloromethane, Bromoform Bromomethane, Carbon tetrachlorid Chlorobenzene, Chloroethane, Chloroform, Chloromethane, Eis-1,3 Dichloropropene, Dibromochloromethane, Ethylbenzen Methylene chloride, Tetrachloroethen Toluene, trans-1,2-Dichloroethene, tr 1,3-Dichloropropene, Trichloroethen Trichlorofluoromethane, Vinyl chlor	, 1,1- e, me, , e, - ne, rans- ie,	2	VOA w/ HCl				7/19/2022 14:00	5 days	7/26/2022	Present		
001H	FAC Combined Wastewater	Water	E624.1 (ACRO, ACRY, & 2-CEVE))	2	VOA, Unpres				7/19/2022 14:00	5 days	7/26/2022	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.

Ĵ		-	bell Analyti					l Free Telepl	v Pass Road, Pittsburg, none: (877) 252-9262 / 1 mpbell.com / E-mail: m	Fax: (925) 2:	52-9269			
				W	ORK OR	DER SUM	MARY							
Clien		ENERGY, LLC Frandsen Frandsen@nrg.			Project: Comment	Marsh Landir s: Use QUOTE 2 correct analyte	12372 for an	ıy Marsh l	Landing projects to	o get	QCI	Order: 220 Level: LE ogged: 7/19	VEL 2	
		□Water	Trax WriteO	DnEDF	Exc	el EQu	IS 🔽 E	Email	HardCopy	Thire	dParty 🖌 J-flag	g		
LabID	ClientSampID	Matrix	Test Name		Containers /Composites	Bottle & Preservative		l Dry- e Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
0011	FAC Combined Wastewater	Water	E625.1 (SVOCs) <1, Trichlorobenzene, 1, 1,2-Diphenylhydrazin Dichlorobenzene, 1,4 2,4,6-Trichloropheno Dichlorophenol, 2,4- 2,4-Dinitrophenol, 2, 2,6-Dinitrotoluene, 2 Chloronaphthalene, 2 Chloronaphthalene, 2 Nitrophenol, 3,3-Dicl Dinitro-2-methylphen Phenyl Ether, 4-Chlo 4-Chlorophenyl Phen Nitrophenol, Acenapl Acenaphthylene, Ant Benzo (a) anthracene Benzo (b) fluoranther perylene, Benzo (k) f chloroethoxy) Methat chloroisopropyl) Ether, B chloroisopropyl) Ethe ethylhexyl) Phthalate Phthalate, Chrysene,	2-Dichlorobenzene, ne, 1,3- I-Dichlorobenzene, ol, 2,4- Dimethylphenol, (4-Dinitrotoluene, - 2-Chlorophenol, 2- hlorobenzidine, 4,6- nol, 4-Bromophenyl ro-3-methylphenol, nyl Ether, 4- hthene, thracene, Benzidine, o, Benzo (a) pyrene, ne, Benzo (a) pyrene, ne, Benzo (g,h,i) Iuoranthene, Bis (2- ne, Bis (2- er, Bis (2- o, Butylbenzyl		1LA Narrow Mout Unpres	n, 🗌 🗌		7/19/2022 14:00	5 days	7/26/2022	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.

1111

- 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>M</u>	-		Analytica ality Counts''	<u>, Inc.</u>			Toll	Free Teleph	/ Pass Road, Pittsburg, none: (877) 252-9262 / I mpbell.com / E-mail: ma	Fax: (925) 252-9	9269		
					W	ORK ORI	DER SUM	MARY						
Client Na Client Co		ERGY, LLC				Project:	Marsh Landii	ng DDSD Se	emi-Ann	ual			Order: 220 Level: LE	
Contact's	s Email: David.Fr	andsen@nrg.	com			Comments	Use QUOTE 2 correct analyte			Landing projects to mg/L.	o get	Date Lo	gged: 7/19	9/2022
		Water	Trax	WriteOn	EDF	Exce	el EQu	IIS 🗸 E	mail	HardCopy		arty 🖌 J-flaç	J	
LabID	ClientSampID	Matrix	Test I	Name		Containers /Composites	Bottle & Preservative		Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold Sub Out
			Phthal octyl F Hexac Hexac Hexac Nitrob N-Nitr Nitros Pentac	cene, Diethyl Phthala ate, Di-n-butyl Phtha Phthalate, Fluoranther hlorobutadiene, hlorocyclopentadiene, hlorocyclopentadiene hloroethane, Indeno (e, Isophorone, Naphth enzene, N-Nitrosodir osodi-n-propylamine, odiphenylamine, hlorophenol, Phenan l, Pyrene>	late, Di-n- ne, Fluorene, , 1,2,3-cd) alene, nethylamine, , N-									

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.

2207A70

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

SAMPLES SUBMITTED TO SEND INVOICE TO PROJECT ANALYSIS REQUEST Laboratory: McCampbell Analytical, Inc. Company: Marsh Landing LLC Plant: Marsh Landing (animal/vegetable)¹ EPA Method 1664A) neral)² 1664A) DDSD Attention Accounts Payable Title Attention Grease Grease Address 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Address: invoices@clearwayenergy.com Phase: Semi-Annual Nethod 16 925.252.9262/ 925.252.9269 4501914176 Phone/Fax P.O. No. Manager David Frandsen RINFORMATION and and SAMPLE INFORMATION CONTAIN Sample lio (Petro EPA N Sample Sample Regulatory Regulatory Sample Sample Volume ö Collection Sample Description Number Type Preserv. (each, L) Number Date Driver Frequency Medium Type Time Hydrochloric Acid Amber FAC Combined Wastewater х ML-22-066 19-Jul-22 1400 DDSD Semi-Annual Wastewater Grab Glass Jar (pH<2, 4°C) Hydrochloric Acid Amber ML-22-067 19-Jul-22 1400 DDSD Semi-Annual Wastewater Grab FAC Combined Wastewater Х Glass Jar (pH<2, 4°C) 28 28 HOLDING TIME davs days LABORATORY NOTES RE: SAMPLE RECEIPT/CONDITION DIRECTIONS FOR LABORATORY REPORTING Original to David Frandsen STANDARD TAT (5-day). Establish calibration standards so Minimum Level (ML) value is the lowest calibration standard, Environmental Specialist/Engineer the lowest quantifiable concentration or Reporting Limit (RL). Report "Detected, but Not Quantified" (DNQ) with estimated J Title: P.O. Box 1687 flagged concentrations below the RL and include method detection limits (MDLs) in report. Address: Antioch, CA 94509 1. Animal/Vegetable O/G 925.324-3533/6509 2. Petroleum/Mineral O/G Phone/Fax david.frandsen@nrg.com E-mail Please report all results with the units of mg/L. E-mail CC: james.robinson@nrg.com **RESULTS AND PRICING PER QUOTE ID: 212372.** joe.moura@nrg.com E-mail CC: *Include sample description with client sample number ID. PRINTED NAME COMPANY DATE TIME 19-Jul-22 1400 Sampled by James E. Robinson. Cano 9 NRG Energy Services 19-Jul-22 Relinquished by: James E. Robinson. NRG Energy Services 558 19-Jul-22 McCampbell Analytical, Inc. Received by 558 Relinquished by Received by Relinquished by Received by

2.7 CIVET

2207A70

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 SUBMITT	ED TO			SEND INVOID	ETO		P	ROJECT		ultine and	ANALYSIS R	EQUEST	
Laboratory: Attention: Address: Phone/Fax:			ow Pass Road,	Analytical, In Pittsburg, CA 925.252.9269 SA	94565-1701	ATION	Attention: Accourt Address: invoices@ct	anding LLC hts Payable servayenergy som 1914176	Plant: Title: Phase: Manager:	CONTAINE	Marsh Landin DDSD Semi-Annua David Frandse R INFORMATIO	l en	Cyanide ¹ (Kelada-01)	Phenols Method 420.4)	onia as N ethod 350.1)	
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Descr	iption	Number	Туре	Volume (each, mL)	Preserv.	(Kel	Ph (EPA Me	Ammonia a (EPA Method 3	
ML-22-068	19-Jul-22	1400	DDSD	Semi-Annual	Wastewater	Grab	FAC Combined W	/astewater	1	HDPE Bottle	250	HNO3 (pH<2)	x			
ML-22-069	19-Jul-22	1400	DDSD	Semi-Annual	Wastewater	Grab	FAC Combined W	/astewater	1	Amber Glass Jar	500	H ₂ SO ₄ (pH<2, 4°C)		х		
ML-22-070	19-Jul-22	1400	DDSD	Semi-Annual	Wastewater	C-24	FAC Combined W	/astewater	1	Amber Glass Jar	500	H ₂ SO ₄ (pH<2, 4°C)			x	
		RTING					MPLE RECEIPT/CONDITION				H DIRECTIONS F	OLDING TIME:		28 days	28 days	
Phone/Fax: E-mail: E-mail CC: E-mail CC:	9 <u>davi</u> jame	Antioch, CA 94 25.324-3533/6 d.frandsen@n as.robinson@r e.moura@nrg	3509 h <u>rg.com</u> hrg.com					1. Cyanide sample was Please report al RESULTS AND *Include sample des	II results	s with th G PER C	e units of UOTE ID:	mg/L. 212372.	tion with sod	lium hydroxide.		
			PRINTED NA	ME	制。杨治常的		SIGNATURE		COMPAN	Y			DATE		TIM	E
Sampled by:		Ja	mes E. Rob	binson.		Jo	must Rest.	NRC	G Energy S	ervices			19-Jul-2:	2	140	0
Relinquished by:	1	Ja	mes E. Rob	oinson.		a	MSE, Rota.	NRC	G Energy S	ervices			19-Jul-2	2	155	8
Received by:	Ha	URCH	NA		6	exi	RHINK.	McCan	npbell Anal	lytical, Inc.			19-Jul-22	2	155	58
Relinquished by:	0	· · ·			C		5									<i>'</i>
Received by:																
Relinquished by:																
Received by:				-												

2207A70

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

Star Laborat	Star Selling	SAM	PLES SUBM	ITTED TO	Sector Party of	STREET, STREET, STR		SEND INVOIC	E TO		PR	OJECT			ANALYSIS	REQUEST	
Laboratory: Attention: Address Phone/Fax: Sample Number	Sample Date	1534 Wil Sample Collection	low Pass Roa	Il Analytical, In d, Pittsburg, CA 62/ 925.252.9269 SAMPL Regulatory Frequency	94565-1701	ON Sample Type	Company: Attention: Address: P.O. No.	Accoun	anding LLC its Payable sawayaheray.com 914176 iption	Plant: Title: Phase: Manager: Number	CONTAINER	Marsh Landi DDSD Semi-Annu David Frand CINFORMAT Volume (each, mL)	sen ION Prosecy	Pesticides & PCBs (EPA Method 608)	Volatile Organics (EPA Method 624)	Volatile Organics ¹ (EPA Method 624)	Semi-Volatile Organics (EPA Method 625)
ML-22-071	19-Jul-22	Time 1400	DDSD	Semi-Annual	Water	Grab	F/	AC Combined W	astewater	1	Amber Glass	1,000	None (4°C)	x			
ML-22-072	19-Jul-22	1400	DDSD	Semi-Annual	Water	Grab	FA	AC Combined W	astewater	2	Clear VOA	43	HCL (ZHS, pH<2, 4°C)		x		
ML-22-073	19-Jul-22	1400	DDSD	Semi-Annual	Water	Grab	F#	AC Combined W	astewater	2	Clear VOA	43	None (4°C)			x	
ML-22-074		1400	DDSD	Semi-Annual	Water	Grab		AC Combined W		1	Amber Glass	1,000	None (4°C)				x
 For composite 	e samples, the	completion tim	e of the 24-hr co	omposite or the time	of the final same	ole aliquot is co	onsidered the "s	ample collection time	" for the purpose of de	atermining sampl	e holding time		OLDING TIME:	40 days	14 days	3 days	40 days
Original to: Tritle Address Phone/Fax: E-mail E-mail CC E-mail CC	Environme Ar 92: <u>david</u> james	David Frands ental Special P.O. Box 168 ttioch, CA 94 5 324-3533/6 .frandsen@n .robinson@r .moura@nrg	ist/Engineer 87 1509 5509 1rg.com 1rg.com						calibration Not Quan detection 1. VOCs- Please RESUI	n standard, th tified" (DNQ) limits (MDLs Acrolein, acr report a LTS AND	e lowest qu with estim) in report. ylonitrile, a II result PRICIN	uantifiable c ated J-flagg nd 2cleave ts with t NG PER	on standards s oncentration o ed concentration he units o QUOTE II mple number	r Reporting I ons below th of mg/L. D: 21237	Limit (RL). le RL and in	Report "De	tected, but
			PRINTED N			-	SIGN	ATURE			PANY			DATE		A REAL PROPERTY AND INCOME.	ME
Sampled by		Ja	ames E. Ro	binson.		Jan	war.	Barn		NRG Ener	gy Service	es		19-Jul-22			00
elinquished by	2	Ja	ames E. Ro	binson.		Den	InsE.	Rot	7.	NRG Ener	gy Service	es		19-Jul-22		153	\$8
Received by	Ag	TUS	n.v.	4.	G	19	49	JNA	7 - M	cCampbell .	Analytical	, Inc.		19-Jul-22		153	88 5\$
Received by						~											
elinquished by:																	
Received by:																	



Sample Receipt Checklist

Client Name: Project:	NRG Energy, LLC Marsh Landing DDS	D Semi-Annual				Date and Time Received: Date Logged: Received by:	7/19/2022 15:58 7/19/2022 Agustina Venegas
WorkOrder №: Carrier:	2207A70 Client Drop-In	Matrix: <u>Water</u>				Logged by:	Cassandra Gallegos
		Chain of C	Sustody	/ (COC) Infor	matic	on	
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	\checkmark	No [
Sampler's name	noted on COC?		Yes	\checkmark	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 container	rs intact?		Yes	✓	No [
Sufficient sample	volume for indicated	test?	Yes	✓	No [
		Sample Preservati	on and	Hold Time (I	HT) In	formation	
All samples recei	ved within holding time	e?	Yes	✓	No [
Samples Receive	ed on Ice?		Yes	✓	No [
		(Ісе Тур	e: WE				
Sample/Temp Bla	ank temperature			Temp: 2.7	7°C		
	analyses: VOA meets Cs, TPHg/BTEX, RSK		Yes	✓	No		
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No [
pH acceptable up <2; 522: <4; 218.		Nitrate 353.2/4500NO3:	Yes		No [NA 🗹
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 to [not applicable		upon receipt (<0.1mg/L)	Yes		No [NA 🗹
		=========				=========	



Industrial User Report Checklist And Certification Statement Form

Attn: Environmental Compliance S	Specialist		J	ason Yun
Environmental Specialist	Phone	(925) 756-1913	Fax	(925) 756-1961
Industrial User Facility Nam	e		Marsh	Landing LLC
Duly Authorized Representa	tive Name		Jo	oe Moura
Duly Authorized Representa	tive Phone		925	5-779-6685

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)	DELTA DIABLO
	JAN 11 2023
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

Revised July 2014



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.



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, 2022

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	for Mum
Duly Authorized Representative Print	Joe Moura
Date	1/11/2023



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

January 11, 2023

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

Subject: 2022 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 2022 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, 2022. This report includes monthly flow data and quarterly analytical data required to be collected in 2022. 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,

be Mann

Joe Moura Plant Manager NRG Marsh Landing, LLC Marsh Landing Generating Station

<i>Attachments</i> Table 1: Table 2: Table 3:	Quarterly Results for Combined Wastewater (FAC Combined) October 2022 Monthly Flow Data November 2022 Monthly Flow Data
Table 4:	December 2022 Monthly Flow Data

Attachment 1:pH COCAttachment 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	FAC Combined
Sample Station Description	Local Limits FAC Combined Wastewater
Reporting Period	October - December 2022
Report Type	Quarterly

Constituent	Sample Date	Permit Limit	Result	Units
Field pH	10/18/2022	6-10	7.3	S.U.
BOD	10/18/2022	-	ND	mg/L
COD	10/18/2022	-	22	mg/L
Arsenic	10/18/2022	0.15	0.00046 J	mg/L
Cadmium	10/18/2022	0.1	ND	mg/L
Chromium	10/18/2022	0.5	0.00042 J	mg/L
Copper	10/18/2022	0.5	0.0100	mg/L
Iron	10/18/2022	-	0.11	mg/L
Lead	10/18/2022	0.5	ND	mg/L
Mercury	10/18/2022	0.003	ND	mg/L
Molybdenum	10/18/2022	-	0.00096	mg/L
Nickel	10/18/2022	0.5	0.0026	mg/L
Selenium	10/18/2022	0.25	ND	mg/L
Silver	10/18/2022	0.2	ND	mg/L
Zinc	10/18/2022	1.0	0.028	mg/L
TDS	10/18/2022	-	340	mg/L
TSS	10/18/2022	-	5.80	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.

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	Outfall #4	
Sample Station Description	Flow Monitoring Structure	
Reporting Period	October, 2022	
Report Type	Quarterly	
Constituent	Flow	
Sample Type	Continuously Measured (Rosemount 8705 Flanged Magnetic Flow Meter)	
Sample Date	10/1/2022 - 10/31/2022	
	NTE 79,200 gpd. NTE 55 gpm +10% (60.5 gpm) for 15 consecutive minutes or	
Permit Limits (s.u.)	30 minutes in a 24-hour period	

Day	Total Flow (gpd)	Instantaneous Max (gpm)	Minutes per Day of Flow exceeding 60.5 gpm
Day1	5,407	27.89	gpin
2	-	0.00	
3		0.00	
4	412	16.37	
5	-	0.00	
6	6,290	34.83	
7	6,534	27.67	
8	1,752	27.82	
9	-	0.00	
10	9,704	35.86	
10	-	0.00	
12	7,699	28.02	
13	2,923	28.15	
13	-	0.00	
15	570	17.21	
16	-	0.00	
10	8,174	21.58	
18	23,611	48.38	
19	5,776	25.41	
20	2,740	26.24	
21	586	27.67	
22	-	0.00	
23	872	24.48	
24	-	0.00	
25	_	0.00	
26	14,521	46.10	
27	1,348	35.53	
28	6,302	26.22	
29	3,243	26.90	
30	-	0.00	
31	3,325	20.00	

* - Permit Flows from July 1 - October 31 were increased under permit #SDP-0701-1230 to 55 GPM with a total daily flow of 79,200 gallons per day.

Total Monthly Flow (gal)	111,788	Did flow exceed limits?	NO
Daily Max Flow (gpd)	79,200	Flow above daily max (79,200 gpd)?	NO
Average Monthly Flow (gpd)	3,606		

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
Sample Station Location	Outfall #4
Sample Station Description	Flow Monitoring Structure
Reporting Period	November, 2022
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuously Measured (Rosemount 8705 Flanged Magnetic Flow Meter)
Sample Date	11/1/2022 - 11/30/2022
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

Day	Total Flow (gpd)	Instantaneous Max (gpm)	Minutes per Day of Flow exceeding 23.1 gpm
1	11,199	19.57	
2	-	0.00	
3*	11,361	19.68	
4	6,897	19.83	
5	5,848	19.57	
6	439	17.29	
7	-	0.00	
8	7,074	20.20	
9	-	0.00	
10	17,405	19.62	
11	4,198	19.55	
12	-	0.00	
13	-	0.00	
14	-	0.00	
15	-	0.00	
16	6,052	20.81	
17	4,041	19.72	
18	-	0.00	
19	-	0.00	
20	-	0.00	
21	-	0.00	
22	452	16.48	
23	-	0.00	
24	-	0.00	
25	773	19.84	
26	7,381	19.73	
27	-	0.00	
28	4,985	19.78	
29	7,755	19.63	
30	-	0.00	

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

Total Monthly Flow (gal)	95,860	Did flow exceed limits?	NO
Daily Max Flow (gpd)	17,405	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	3,195		

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
Sample Station Location	Outfall #4
Sample Station Description	Flow Monitoring Structure
Reporting Period	December, 2022
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuously Measured (Rosemount 8705 Flanged Magnetic Flow Meter)
Sample Date	12/1/2022 - 12/31/2022
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

Day	Total Flow (gpd)	Instantaneous Max (gpm)	Minutes per Day of Flow exceeding 23.1 gpm
1	14	12.60	
2	-	0.00	
3	-	0.00	
4	12,647	19.83	
5	4,646	20.91	
6	7,554	19.67	
7	6,522	19.93	
8	3,727	19.59	
9	447	16.75	
10	-	0.00	
11	-	0.00	
12	12,516	20.98	
13	565	19.65	
14	5,374	19.84	
15	5,647	19.59	
16	-	0.00	
17	-	0.00	
18	-	0.00	
19	-	0.00	
20	-	0.00	
21	445	14.38	
22	-	0.00	
23	2,931	20.94	
24	7,800	20.05	
25	-	0.00	
26	-	0.00	
27	7,594	19.82	
28	470	16.37	
29	-	0.00	
30	13,514	20.75	
31	23,177	19.82	

Total Monthly Flow (gal)	115,589	Did flow exceed limits?	NO
Daily Max Flow (gpd)	23,177	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	3,729		

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			
							Method Detection Limit:	0.06
FAC Combined Waste Water	ML-22- 105	10/18/22	10:00	10/18/22	10:00	Wastewater	Grab	7.3

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

Environmental Engineer David Frandsen Signature: David Frandsen Date: Att 16, 22 Sampling Technologist: James E Robinson

Signature:	Jamo E.	Nech.
Date:	18-Oct-22	



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2210A91

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: 10/18/2022

Analytical Report reviewed & approved for release on 10/27/2022 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: 2210A91

Project: Marsh Landing DDSD Quarterly

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DIWET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dissolved (direct analysis of 0.45 µm intered and acidined water sample) 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	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.
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 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.) Relative Percent Deviation
RRT	Relative Percent Deviation
SPK Val	Spike Value
SPK vai SPKRef Val	•
SPLP	Spike Reference Value
SFLF	Synthetic Precipitation Leachate Procedure Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2210A91

Project: Marsh Landing DDSD Quarterly

Analytical Qualifiers

- J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
- i5 The sample dilutions set up for the BOD analysis did not meet the oxygen depletion criterion of at least 2 mg/l, therefore the reported result is an estimated value only.



Client:NRG Energy, LLCDate Received:10/18/2022 12:12Date Prepared:10/20/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2210A91
Extraction Method:	SM5210B
Analytical Method:	SM5210 B
Unit:	mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
FAC Combined Wastewater	2210A91-001B	Water	10/18/202	22 10:00	WetChem	256590
Analytes	<u>Result</u>	MDL	<u>RL</u>	DE		Date Analyzed
BOD	ND	60	60	15		10/25/2022 13:14

Analyst(s): JRA

Analytical Comments: i5



Client:NRG Energy, LLCDate Received:10/18/2022 12:12Date Prepared:10/19/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2210A91
Extraction Method:	SM5220 D-1997
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							
FAC Combined Wastewater	2210A91-001A	Water	10/18/2022 10:00		SPECTROPHOTOMETER2	256494	
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF	Date	e Analyzed	
COD	22	9.5	10	1	10/1	9/2022 15:18	

Analyst(s): RB



Client:NRG Energy, LLCDate Received:10/18/2022 12:12Date Prepared:10/19/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2210A91
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	mg/L

		Me	etals				
Client ID	Lab ID	Matrix]	Date Collected		Instrument	Batch ID
FAC Combined Wastewater	2210A91-001E	Water	1	10/18/2022 1	0:00	ICP-MS5 155SMPL.d	256493
Analytes	<u>Result</u>	Qualifiers	MDL	<u>RL</u>	DF		Date Analyzed
Arsenic	0.00046	J	0.000074	0.00050	1		10/20/2022 12:54
Cadmium	ND		0.000043	3 0.00050	1		10/20/2022 12:54
Chromium	0.00042	J	0.00028	0.00050	1		10/20/2022 12:54
Copper	0.010		0.00075	0.0015	1		10/20/2022 12:54
Iron	0.11		0.026	0.050	1		10/20/2022 12:54
Lead	ND		0.00019	0.00050	1		10/20/2022 12:54
Mercury	ND		0.000033	3 0.000050	1		10/20/2022 12:54
Molybdenum	0.00096		0.00013	0.00050	1		10/20/2022 12:54
Nickel	0.0026		0.00033	0.00050	1		10/20/2022 12:54
Selenium	ND		0.00016	0.00050	1		10/20/2022 12:54
Silver	ND		0.000092	0.00050	1		10/20/2022 12:54
Zinc	0.028		0.014	0.020	1		10/20/2022 12:54
Surrogates	<u>REC (%)</u>			<u>Limits</u>			
Terbium	109			70-130			10/20/2022 12:54
<u>Analyst(s):</u> WV							



Client:NRG Energy, LLCDate Received:10/18/2022 12:12Date Prepared:10/19/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2210A91
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C-1997
Unit:	mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Col	llected	Instrument	Batch ID
FAC Combined Wastewater	2210A91-001C	Water	10/18/202	2 10:00	WetChem	256538
Analytes	Result	MDL	<u>RL</u>	DF		Date Analyzed
Total Dissolved Solids	340	10.0	10.0	1		10/19/2022 17:35

Analyst(s): JRA



Client:NRG Energy, LLCDate Received:10/18/2022 12:12Date Prepared:10/25/2022Project:Marsh Landing DDSD Quarterly

WorkOrder:	2210A91
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D-1997
Unit:	mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Col	llected	Instrument	Batch ID
FAC Combined Wastewater	2210A91-001D	Water	10/18/202	2 10:00	WetChem	256862
Analytes	<u>Result</u>	MDL	<u>RL</u>	DF		Date Analyzed
Total Suspended Solids	5.80	1.00	1.00	1		10/25/2022 10:10

Analyst(s): MGO



Client:	NRG Energy, LLC	WorkOrder:	2210A91
Date Prepared:	10/20/2022	BatchID:	256590
Date Analyzed:	10/25/2022	Extraction Method:	SM5210B
Instrument:	WetChem	Analytical Method:	SM5210 B
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD Quarterly	Sample ID:	MB-256590

QC Summary Report for BOD

Analyte	MB Result	MDL	RL			
BOD	ND	4.0	4.0	-	-	-



Client:	NRG Energy, LLC	WorkOrder:	2210A91
Date Prepared:	10/19/2022	BatchID:	256494
Date Analyzed:	10/19/2022	Extraction Method:	SM5220 D-1997
Instrument:	SPECTROPHOTOMETER2	Analytical Method:	SM5220 D-1997
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDSD Quarterly	Sample ID:	MB/LCS/LCSD-256494

	QC Su	mmary l	Report for	r COD					
Analyte	MB Result		MDL	RL					
COD	ND		9.5	10		-	-	-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	90	90	100		90	90	90-110	0	20

Client:	NRG Energy, LLC
Date Prepared:	10/19/2022
Date Analyzed:	10/20/2022
Instrument:	ICP-MS5
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2210A91
BatchID:	256493
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	μg/L
Sample ID:	MB/LCS/LCSD-256493

QC Summary Report for Metals

Analyte	MB Result		MDL	RL		SPK Val	MB SS %REC		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	53	54	50		107	107	~		
Cadmium						-	85-115	0.0168	20
Caumum	52	52	50		105	104	85-115 85-115	0.0168 0.896	20 20
Chromium	52 53	52 54				104 109			
			50		105		85-115	0.896	20
Chromium	53	54	50 50		105 106	109	85-115 85-115	0.896 2.47	20 20
Chromium Copper	53 53	54 53	50 50 50		105 106 106	109 107	85-115 85-115 85-115	0.896 2.47 0.175	20 20 20
Chromium Copper Iron	53 53 5100	54 53 5200	50 50 50 50 5000		105 106 106 101	109 107 104	85-115 85-115 85-115 85-115	0.896 2.47 0.175 2.81	20 20 20 20
Chromium Copper Iron Lead	53 53 5100 54	54 53 5200 53	50 50 50 5000 5000 50		105 106 106 101 107	109 107 104 106	85-115 85-115 85-115 85-115 85-115	0.896 2.47 0.175 2.81 0.731	20 20 20 20 20 20
Chromium Copper Iron Lead Mercury	53 53 5100 54 1.2	54 53 5200 53 1.3	50 50 50 5000 5000 1.25		105 106 106 101 107 99	109 107 104 106 101	85-115 85-115 85-115 85-115 85-115 85-115	0.896 2.47 0.175 2.81 0.731 2.08	20 20 20 20 20 20 20
Chromium Copper Iron Lead Mercury Molybdenum	53 53 5100 54 1.2 51	54 53 5200 53 1.3 53	50 50 50 5000 50 1.25 50		105 106 106 101 107 99 102	109 107 104 106 101 106	85-115 85-115 85-115 85-115 85-115 85-115 85-115	0.896 2.47 0.175 2.81 0.731 2.08 3.83	20 20 20 20 20 20 20 20 20
Chromium Copper Iron Lead Mercury Molybdenum Nickel	53 53 5100 54 1.2 51 53	54 53 5200 53 1.3 53 53	50 50 50 5000 50 1.25 50 50 50		105 106 106 101 107 99 102 107	109 107 104 106 101 106 106	85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115	0.896 2.47 0.175 2.81 0.731 2.08 3.83 0.500	20 20 20 20 20 20 20 20 20 20
Chromium Copper Iron Lead Mercury Molybdenum Nickel Selenium	53 53 5100 54 1.2 51 53 56	54 53 5200 53 1.3 53 53 53 54	50 50 50 5000 50 1.25 50 50 50 50		105 106 106 101 107 99 102 107 107 111	109 107 104 106 101 106 106 107	85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115	0.896 2.47 0.175 2.81 0.731 2.08 3.83 0.500 3.88	20 20 20 20 20 20 20 20 20 20
Chromium Copper Iron Lead Mercury Molybdenum Nickel Selenium Silver	53 53 5100 54 1.2 51 53 56 51	54 53 5200 53 1.3 53 53 53 54 51	50 50 50 50 5000 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50		105 106 107 99 102 107 101 101	109 107 104 106 101 106 107 108 109	85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115 85-115	0.896 2.47 0.175 2.81 0.731 2.08 3.83 0.500 3.88 1.01	20 20 20 20 20 20 20 20 20 20 20 20

Client:	NRG Energy, LLC
Date Prepared:	10/19/2022
Date Analyzed:	10/19/2022
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2210A91
BatchID:	256538
Extraction Method:	SM2540 C-1997
Analytical Method:	SM2540 C-1997
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-256538
	2210A91-001C

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	950	986	1000		95	99	80-120	3.72	10
Analyte	SAMP Re	sult	DUP Result				F	RPD	RPD Limit
	340		346					.75	10

Client:	NRG Energy, LLC
Date Prepared:	10/25/2022
Date Analyzed:	10/25/2022
Instrument:	WetChem
Matrix:	Water
Project:	Marsh Landing DDSD Quarterly

WorkOrder:	2210A91
BatchID:	256862
Extraction Method:	SM2540 D-1997
Analytical Method:	SM2540 D-1997
Unit:	mg/L
Sample ID:	MB/LCS/LCSD-256862

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	95.0	94.0	100		95	94	80-120	1.06	10

McCampbe	ell Analytical,	Inc.			CH	AIR	I-OF	-CUS	STO	DY	RE	COF	RD		Page	1 of	1	
- 8 V	A 94565-1701	WaterTrax	x CLIP	EDF	E	QuIS	e r: 221 Dr Dr	y-Weight	∠ E		Code:	GOA]HardCo	ору [Third	Party	√ J-	flag	
Report to: David Frandsen	Email:	David.Frandse	•				nts Payal	ble				Reques	sted TAT		5 days 7 days			
NRG Energy, LL0 3201 Wilbur Aver Antioch, CA 9450 (925) 427-3479	PO: PO: Project:	4501905749	g.com; james.robin g DDSD Quarterly	son@n	irg.	Scotts	N. Scottso dale, AZ es@clear	85251	,		5		Received Logged:			/2022 /2022		
							1	1	Req	uested	Tests	(See leg	end be	low)	1	1		
Lab ID	ClientSampIE)	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	
2210A91-001	FAC Combined Was	tewater	Water	10/18/2022 10:00		В	А	E	А	С	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: 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								Work Order: 2210A91 QC Level: LEVEL 2 Date Logged: 10/18/2022			
_			Water	Ггах		EDF	Exce	el EQui	S	🖌 En	nail	HardCopy	Third	Party J-flag	l		
LabID) ClientSa	ampID	Matrix	Test Nar	ne		Containers /Composites	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	FAC Combine Wastewater	ed	Water	SM5220D	(COD)		2	aVOA w/ H2SO4				10/18/2022 10:00	5 days	10/25/2022	Present		
001B	FAC Combine Wastewater	ed	Water	SM5210B	(BOD)		1	500mL HDPE, unprsv.				10/18/2022 10:00	7 days	10/27/2022	Present		
001C	FAC Combine Wastewater	ed	Water	SM2540C	(TDS)		1	500mL HDPE, unprsv.				10/18/2022 10:00	5 days	10/25/2022	Present		
001D	FAC Combine Wastewater	ed	Water	SM2540D	(TSS)		1	1L HDPE, unprsv.				10/18/2022 10:00	5 days	10/25/2022	Present		
001E	FAC Combine Wastewater	ed	Water	Chromiun Mercury, I	letals) <arsenic, (<br="">n, Copper, Iron, L Molybdenum, Nic Silver, Zinc></arsenic,>	ead,	1	250mL HDPE w/ HNO3				10/18/2022 10:00	5 days	10/25/2022	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.

Chain of Custody Page 1 of 2-Quaterly

2210/491

Marsh Landing Generating Station

Page 1	of 2-Quaterly	
SAMPLES SUBM	ITTED TO	

		bur Avenue, P.O. Box 1 one: (925) 779-6500 Fa	.687, Antioch, CA 94509 ix: (925) 779-6509						
Call of States	SEND INVOICE TO		PROJECT	ANALYSIS REQUEST					
Company:	Marsh Landing LLC	Plant:	Marsh Landing						
Attention:	Accounts Payable	Title:	DDSD	ô	10B)	â	n n		
Address:	invoices@clearwayenergy.com	Phase:	Quarterly	5220D)	6	40	2540D)		
P.O. No.:	4501914176	Manager:	David Frandsen	452	A 52	1 25	25		

13131217416	SAMPLES SUBMITTED TO					SEND INVOICE TO			PROJECT				ANALYSIS REQUEST				
Laboratory: ELAP Cert. No.	McCampbell Analytical, Inc. 1644			Company: Marsh La Attention: Account	Plant: Marsh Landing												
Address:		1534 Will	ow Pass Road, I		565-1701		Attention: Account Address: invoices@clea	Phase:	Title: DDSD Phase: Quarterly			20D)	5210B)	40B)	2540D)		
Phone/Fax:			925.252.9262/	925.252.9269			P.O. No.: 45019	Manager:				COD (SM5220D)	A 52	1 254	254		
		Sample		SAM	PLE INFORMA	TION			CONTAINE	R INFORMA	TION	(SI	WS)	(SN	(SM		
Sample Number	Sample Date	Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Descrip	otion	Number	Туре	Volume (each, mL)	Preserv.	COL	BOD	TDS (SM 2540B)	TSS (SM	
ML-22-100	18-Oct-22	1000	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wa	2	Amber VOAs	43	H ₂ SO ₄ (pH<2, 4°C)	х					
ML-22-101	18-Oct-22	1000	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wa	1	HDPE Bottle	1,000	None (ZHS, 4°C)		x				
ML-22-102	18-Oct-22	1000	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wa	1	HDPE Bottle	500	None (4°C)			х			
ML-22-103	18-Oct-22	1000	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wa	1	Poly	1,000	None				x		
		ORTING					IPLE RECEIPT/CONDITION					HOLDING TIME: OR LABORATORY	28 days	48 hours	7 days	7 days	
Title: Address: Phone/Fax: E-mail: E-mail CC: E-mail CC:	ress: P.O. Box 1687 Antioch, CA 94509 with estimated J-flagged concentrations below the RL and include method detection limits (MDLs) in report. Fax: 925.324-3533/6509 mail: david.franksem@mrg.com CC: james.robinson@mrg.com *Include sample description with client sample number ID.											ation d" (DNQ)					
	1.1.1.1.1.1.1.1.1		PRINTED NAM	1E			SIGNATURE		COMPANY	A.S.			DATE		TIN	ME	
Sampled by:	James E. Robinson.					mo E. Roch.	NRG Energy Services				18	-Oct-22	2 1000				
Relinquished by:	Young Lingt , that is							18	8-Oct-22 1645			5					
Received by:	R									18	-Oct-22	11:45		5			
Relinquished by:	RYAN ZOBINSON						200	TO NEG			10	10/18/22 121			12		
						acetivar. MAT				/ -	12022 12120						
Received by:	AA	USAN	A	~	- /	An	ACTINIV	· M	A			10/18/	2020	2	124	20	
Received by: Relinquished by:	IT4	USM~			- 6	A	goe gri Nr V	r. M.	A/			10/18/	2020	2	1210	2p	

Addin

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

			PLES SUBMITTE		CONTRACTOR OF THE OWNER	COLUMN STR	SEND INVOIC	ETO	ell'en substan	DD	OIFOT	C. La Constantino de Constantino	28 M 10 M 10		BEQUERT	-
Laboratory:	COLORISTING!		McCampbell /			and the state of the	Company: Marsh Landing LLC Plant:				PROJECT ANALY: Marsh Landing				REQUEST	
ELAP Cert. No.				644	•			nts Payable			DDSD 80					
Address:		1534 Wi	llow Pass Road,		565-1701			invoices@clearwayenergy.com		Phase: Quarterly		,	1s ¹ 200		1 1	1
Phone/Fax:			925.252.9262/ 925.252.9269 P.O. No.: 4501914176			Manager: David Frandser			St	eta od :			1			
				SAM	PLE INFORMA	TION				CONTAINER	RINFORMAT		leth M			
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Descri	ription Number		Туре	Volume (each, mL)	Preserv.	Total Metals ¹ (EPA Method 200.8)			
ML-22-104	18-Oct-22	(000)	DDSD	Quarterly	Wastewater	C-24	FAC Combined W	astewater	1	HDPE Bottle	250	HNO3 (pH<2)	x			
													00.4			
March 197 B	REP	ORTING		LABO	RATORY NOT	ES RE: SAN	IPLE RECEIPT/CONDITION		ALC: NO.	DIRE		OLDING TIME:				
Original to:		David Frands	sen	I		LOTILITOT		STANDARD TAT (5-da	w) Establ					unlug in th	a laurat as	Libertien
Title:		nmental Special														
Address:		Environmental Specialist/Engineer P.O. Box 1687 standard, the lowest quantifiable concentration or Reporting Limit (RL). Report "Detec (DNQ) with estimated J-flagged concentrations below the RL and include method dete							letection lim	not Quant	in					
		Antioch, CA 94509				report.						ac method d				
Phone/Fax:		925.324-3533/	6509					1. Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Mercury, Nickel, Molybdenum, Selenium (reaction mode)								mode).
E-mail:		avid.frandsen@r						Silver, Zinc								
E-mail CC:	-	mes.robinson@i	and the second se					Please report al	Please report all results with the units of mg/L.							
E-mail CC:		joe.moura@nrg	1.com					RESULTS AND					0			
								RESULTS AND	PRICING	S PER (LOOIEI	D: 21237	2.			
								a sum la deservententes							*Incluc	le
			PRINTED NAM	ЛЕ			SIGNATURE	sample description	With client COMPANY	sample	number ID		DATE	1001000019	TIM	ENGLISH
			5 0 1			1	100.1					ALC: NOT THE REPORT				-
Sampled by:	James E. Robinson.				mor. Man.	NRG Energy Services					18-Oct-22			0		
Relinquished by:	James E. Robinson.					ga	my E. Rat.	NRG Energy Services			18-Oct-22			10	:45	
Received by:	RYAN ROBINSON					A.P.	McCampbell Analytical, Inc MIRG			18-Oct-22		11:	45			
Relinquished by:	RYAN ROBINSON					dill.	NRG			10/18/22		121	2			
Received by:	* Agustinar.				de	allativar. MAT				10/4	10/18/2022 12,			20		
Relinquished by:	V			2)		U										·
Received by:																



Sample Receipt Checklist

Client Name: Project:	NRG Energy, LLC Marsh Landing DDSI	D Quarterly	Date and Time Receive Date Logged: Received by:	d: 10/18/2022 12:12 10/18/2022 Agustina Venegas		
WorkOrder №: Carrier:	2210A91 <u>Client Drop-In</u>	Matrix: <u>Water</u>			Logged by:	Lilly Ortiz
		<u>Chain of</u>	Custody	(COC) Infor	mation	
Chain of custody	present?		Yes	✓	No 🗌	
Chain of custody	signed when relinquisl	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 🗌	NA 🗹
		Sam	ple Rece	<u>ipt Informati</u>	ion	
Custody seals int	act on shipping contain	ner/cooler?	Yes		No 🗌	NA 🖌
Custody seals int	act 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 Preserva	ation and	<u>Hold Time (I</u>	HT) Information	
All samples recei	ved within holding time	?	Yes	✓	No 🗌	
Samples Receive	ed on Ice?		Yes	✓	No 🗌	
		(Ice Ty	/pe: WE	,		
Sample/Temp Bla	ank temperature			Temp: 4.9		
ZHS conditional a requirement (VO	analyses: VOA meets z 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.		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		upon receipt (<0.1mg/L)	Yes		No 🗌	NA 🗹