

DOCKETED

Docket Number:	08-AFC-03C
Project Title:	Marsh Landing Generating Station Compliance
TN #:	249524
Document Title:	Part 3 - 2022 Marsh Landing CEC Annual Report
Description:	Annual Compliance Operations report 2022, Part 3
Filer:	David Frandsen
Organization:	NRG
Submitter Role:	Applicant
Submission Date:	3/31/2023 8:56:05 AM
Docketed Date:	3/31/2023

Marsh Landing Generating Station

Annual Compliance Report

3.1 BIO-2

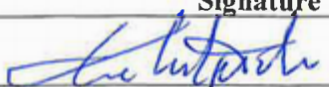
There were required Biological Resources Monitoring Reports for 2022 related to the Black Start Battery Energy Storage System project, attached. WEAP Training attendance logs are attached.

Marsh Landing Generating Station

Trainer: ENGOL
 Date: 3/30/22
 Training: WEAP
 (for office use only)

WORKER ENVIRONMENTAL AWARENESS PROGRAM WORKER TRAINING ATTENDANCE RECORD

I have attended the Marsh Landing Generating Station Project **Worker Environmental Awareness Program Worker Training** and understand and agree to comply with all environmental requirements presented. I understand that I am accountable for my actions and that failure to comply with the requirements may be grounds for immediate removal from the project and/or legal action.

	Signature	Print Name	Company	Date
1.		TINA KIRKPATRICK	FMK	3/30/22
2.	Gonzalo Sanchez	Gonzalo Sanchez	FMK	3/30/22
3.	Rafaelo Buitrago	RAFAEL	FMK	3/30/22
4.	Guillermo Kirkpatrick	Guillermo Kirkpatrick	PRG	3/30/22
5.	NICHOLAS KIRKPATRICK	Nicholas Kirkpatrick	FMK	3/30/22
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Marsh Landing Generating Station

Trainer: _____

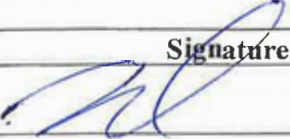
Date: _____

Training: _____

(for office use only)

WORKER ENVIRONMENTAL AWARENESS PROGRAM WORKER TRAINING ATTENDANCE RECORD

I have attended the Marsh Landing Generating Station Project **Worker Environmental Awareness Program Worker Training** and understand and agree to comply with all environmental requirements presented. I understand that I am accountable for my actions and that failure to comply with the requirements may be grounds for immediate removal from the project and/or legal action.

	Signature	Print Name	Company	Date
1.		Manuel E. Krasiec	SIEMENS ENERGY	3/8/22
2.				
3.				
4.				
5.				
6.				
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Marsh Landing Generating Station

Annual Compliance Report

3.2 HAZ-1

See the latest attached copy of the list of Hazardous Materials contained at the facility.

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	AMMONIA CONTAINMENT SLAB	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

						Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
DOT Code/Fire Haz. Class	Common Name	Unit	Quantities					Component Name	% Wt	EHS	CAS No.
Corrosive, Toxic	AMMONIUM HYDROXIDE	Gallons	21200	21200	12200		- Health Acute	Anhydrous Ammonia	19%	7664-41-7	
	CAS No	State	Storage Container		Pressue	Waste Code	Toxicity	Water	81%	7732-1-5	
	1336-21-6	Liquid	Aboveground Tank		> Ambient		- Health Skin				
	Map: 2 Grid: D2	Type			Temperature		Corrosion				
		Mixture	Days on Site: 365		Ambient		Irritation				
							- Health Serious				
							Eye Damage Eye				
							Irritation				
							- Health Specific				
							Target Organ				
							Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. Marsh Landing Generating Station		Chemical Location				CERS ID 10480876					
Facility Name Marsh Landing Generating Station		BACK PULSE AIR FILTER COMPRESSORS				Facility ID 07-000-774528					
3201C Wilbur Ave, Antioch 94509						Status Submitted on 2/18/2023 2:48 PM					
						Annual Waste		Hazardous Components			
								(For mixture only)			
DOT Code/Fire Haz. Class		Common Name	Unit	Quantities		Annual Waste	Federal Hazard				
				Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
		COMPRESSOR OIL	Gallons	8	3	8		- Health Hazard	Base Oil	90%	
		CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise	Dialkyl Thiophosphate Ester	1%	268567-32-4
			Liquid	Other		Ambient		Classified	Alkaryl amine	2%	68411-46-1
		Map: 2 Grid: G3-G8	Type			Temperature					
			Mixture	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	BATTERY BANKS THROUGHOUT SITE (5kV BLDG, SWITCHYARD, ELE PACKAGES, BESS, ADMIN)	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids)	LEAD ACID BATTERIES	Pounds	9793	58	9793		- Physical	Sulfuric Acid	40%	✓ 7664-93-9
	CAS No	State	Storage Container		Pressue		Flammable			
Corrosive, Water Reactive, Class 2, Toxic, Oxidizing, Class 1	Map: 2 Grid: I6, G4-8, C4,k3	Liquid	Other		Ambient	Waste Code	- Physical			
		Type			Temperature		Explosive			
		Mixture	Days on Site: 365		Ambient		- Physical			
							Corrosive To Metal			
							- Health			
							Carcinogenicity			
							- Health Acute			
							Toxicity			
							- Health			
							Reproductive			
							Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station				Chemical Location	CERS ID 10480876					
Facility Name	Marsh Landing Generating Station				BATTERY ENERGY STORAGE SYSTEM (BESS)				Facility ID	07-000-774528	
	3201C Wilbur Ave, Antioch 94509							Status	Submitted on 2/18/2023 2:48 PM		
						Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids	SOYBEAN OIL	Gallons	4160	832	4160		- Physical				
	CAS No	State	Storage Container		Pressue	Waste Code	Flammable				
	8001-22-7	Liquid	Other		Ambient						
	Map: 2 Grid: E9-G9	Type			Temperature						
Combustible Liquid, Class III-B		Mixture	Days on Site: 365		Ambient						
DOT: 9 - Misc. Hazardous Materials	LITHIUM-ION BATTERY CUBE	Pounds	192060	11640	192060		- Physical	Hexafluoropropylene-Vinylidene	15%		9011-17-0
	CAS No	State	Storage Container		Pressue	Waste Code	Flammable				
		Solid	Other		Ambient		- Health Acute	Dimethyl Carbonate	15%		616-38-6
	Map: 2 Grid: E9-G9	Type			Temperature		Toxicity	Propylene Carbonate	15%		108-32-7
Flammable Liquid, Class I-A		Mixture	Days on Site: 365		Ambient		- Health Skin	Diethyl Carbonate	15%		616-38-6
							Corrosion	Ethyl Methyl Carbonate	15%		623-53-0
							Irritation				
							- Health Serious				
							Eye Damage Eye				
							Irritation				
							- Health Specific				
							Target Organ				
							Toxicity				
Combustible Liquid, Class III-B	ETHYLENE GLYCOL	Gallons	430	16	430		- Health Acute	Ethylene Glycol	90%		107-21-1
	CAS No	State	Storage Container		Pressue	Waste Code	Toxicity				
	107-21-1	Liquid	Other		> Ambient		- Health Specific				
	Map: 2 Grid: 9E-9G	Type			Temperature		Target Organ				
		Mixture	Days on Site: 365		> Ambient		Toxicity				
DOT: 8 - Corrosives (Liquids and Solids)	LEAD ACID BATTERIES	Pounds	80	8	80		- Physical	Sulfuric Acid	20%	✓	7664-93-9
	CAS No	State	Storage Container		Pressue	Waste Code	Flammable				
		Liquid	Other		Ambient		- Physical				
	Map: 2 Grid: G8	Type			Temperature		Explosive				
Corrosive, Water Reactive, Class 2, Toxic, Oxidizing, Class 1		Mixture	Days on Site: 365		Ambient		- Health				
							Carcinogenicity				
							- Health Acute				
							Toxicity				
							- Health				
							Reproductive				
							Toxicity				
							- Health Skin				
							Corrosion				
							Irritation				
							- Health				
							Respiratory Skin				
							Sensitization				
							- Health Serious				
							Eye Damage Eye				
							Irritation				
							- Health Specific				
							Target Organ				
							Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	CEMS SHELTERS UNITS 1-4	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	NITROGEN	Cu. Feet	3600	300	3000		- Physical Gas			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Under Pressure			
	7727-37-9	Gas	Cylinder		> Ambient		- Physical			
	Map: 2 Grid: E3-E8	<u>Type</u>			<u>Temperature</u>		Explosive			
		Pure	Days on Site: 365		Ambient		- Health Simple			
							Asphyxiant			
	NITROGEN, NITRIC OXIDE	Cu. Feet	2100	150	1800		- Physical Gas	NITROGEN	100%	7727-37-9
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Under Pressure	NITRIC OXIDE		✓ 10102-43-9
		Gas	Cylinder		> Ambient		- Physical	NITROGEN OXIDES		10102-44-0
	Map: 2 Grid: E3-E8	<u>Type</u>			<u>Temperature</u>		Explosive			
		Mixture	Days on Site: 365		Ambient		- Health Simple			
							Asphyxiant			
	NITROGEN, NITRIC OXIDE, CARBON MONOXIDE	Cu. Feet	3800	250	2400		- Physical Gas	NITROGEN	100%	7727-37-9
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Under Pressure	NITRIC OXIDE		✓ 10102-43-9
		Gas	Cylinder		> Ambient		- Physical	CARBON MONOXIDE		630-08-0
	Map: 2 Grid: E3-E8	<u>Type</u>			<u>Temperature</u>		Explosive	NITROGEN OXIDES		10102-44-0
		Mixture	Days on Site: 365		Ambient		- Health Simple			
							Asphyxiant			
	NITROGEN, OXYGEN, CARBON MONOXIDE	Cu. Feet	3300	150	3150		- Physical Gas	NITROGEN	89%	7727-37-9
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Under Pressure	OXYGEN	10%	7782-44-7
		Gas	Cylinder		> Ambient		- Physical	CARBON MONOXIDE	0%	630-08-0
	Map: 2 Grid: E3-8	<u>Type</u>			<u>Temperature</u>		Explosive			
		Mixture	Days on Site: 365		Ambient		- Health			
							Reproductive			
							Toxicity			
							- Health Simple			
							Asphyxiant			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	COMPRESSOR BUILDING	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 2.1 - Flammable Gases	ACETYLENE	Cu. Feet	764	382	764		- Physical			
Unstable (Reactive), Class 2, Flammable Gas	CAS No 74-86-2 Map: 2 Grid: C6	State Gas Type Pure	Storage Container Cylinder Days on Site: 365		Pressue > Ambient Temperature Ambient	Waste Code	Flammable - Physical Gas Under Pressure - Physical Explosive - Health Simple Asphyxiant			
DOT: 2.2 - Nonflammable Gases	OXYGEN	Cu. Feet	562	281	562		- Physical Gas Under Pressure			
Oxidizing, Class 2	CAS No 7782-44-7 Map: 2 Grid: C6	State Gas Type Pure	Storage Container Cylinder Days on Site: 365		Pressue > Ambient Temperature Ambient	Waste Code	- Physical Oxidizer			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.		Marsh Landing Generating Station			Chemical Location		CERS ID		10480876		
Facility Name		Marsh Landing Generating Station			CONTROL OIL RESERVOIRS		Facility ID		07-000-774528		
		3201C Wilbur Ave, Antioch 94509					Status		Submitted on 2/18/2023 2:48 PM		
									Hazardous Components (For mixture only)		
DOT Code/Fire Haz. Class		Common Name	Unit	Quantities		Annual Waste Amount	Federal Hazard Categories	Component Name		% Wt	EHS CAS No.
		LUBE OIL	Gallons	420	140	420	- Health Hazard				
		CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise			
			Liquid	Other		Ambient		Classified			
		Map: 2 Grid: F3-F7	Type			Temperature					
			Mixture	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station				Chemical Location		CERS ID	10480876			
Facility Name	Marsh Landing Generating Station				DAIS UNIT AIR COMPRESSORS			Facility ID	07-000-774528		
	3201C Wilbur Ave, Antioch 94509							Status	Submitted on 2/18/2023 2:48 PM		
						Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.
	ULTRA COOLANT	Gallons	60	15	60		- Health Hazard	Polypropylene glycol	65%		
	CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise	Pentaerythritol ester	27%		
		Liquid	Other		Ambient		Classified	Alkylated diphenylamine	5%		68411-46-1
	Map: 2 Grid: F3-F8	Type			Temperature			Barium dinonyl-naphthalene sulfonate	0%		25619-56-1
		Mixture	Days on Site: 365		> Ambient						
	COMPRESSOR OIL	Gallons	100	30	80		- Health Hazard	Base Oil	90%		
	CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise	Dialkyl Thiophosphate Ester	1%		268567-32-4
		Liquid	Other		Ambient		Classified	Alkaryl amine	2%		68411-46-1
	Map: 2 Grid: F3-F8	Type			Temperature						
		Mixture	Days on Site: 365		Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	EMERGENCY GENERATOR	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids	DIESEL FUEL NO. 2	Gallons	1100	1100	800		- Physical	DIESEL FUEL NO. 2	98%		68476-34-6
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Flammable				
Combustible Liquid, Class II	68476-34-6	Liquid	Aboveground Tank		Ambient		- Health	RENEWABLE DIESEL	10%		
	Map: 2 Grid: G6	<u>Type</u>			<u>Temperature</u>		Carcinogenicity	FATTY ACID METHYL ESTERS	3%		
		Mixture	Days on Site: 365		Ambient		- Health Acute	NAPHTHALENE	0%		91-20-3
							Toxicity				
							- Health Skin				
							Corrosion				
							Irritation				
							- Health				
							Respiratory Skin				
							Sensitization				
							- Health Specific				
							Target Organ				
							Toxicity				
							- Health				
							Aspiration Hazard				
DOT: 8 - Corrosives (Liquids and Solids)	LEAD ACID BATTERIES	Pounds	48	24	48		- Physical	Sulfuric Acid	40%	✓	7664-93-9
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Flammable				
Corrosive, Water Reactive, Class 2, Toxic, Oxidizing, Class 1	Map: 2 Grid: G6	Liquid	Other		Ambient		- Physical				
		<u>Type</u>			<u>Temperature</u>		Explosive				
		Mixture	Days on Site: 365		Ambient		- Physical				
							Corrosive To				
							Metal				
							- Health				
							Carcinogenicity				
							- Health Acute				
							Toxicity				
							- Health				
							Reproductive				
							Toxicity				
							- Health Skin				
							Corrosion				
							Irritation				
							- Health				
							Respiratory Skin				
							Sensitization				
							- Health Serious				
							Eye Damage Eye				
							Irritation				
							- Health Specific				
							Target Organ				
							Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	FIRE PUMP BUILDING	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids	DIESEL FUEL NO. 2	Gallons	359	359	280		- Physical	DIESEL FUEL NO. 2	98%		68476-34-6
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Flammable				
Combustible Liquid, Class II	68476-34-6	Liquid	Tank Inside Building		Ambient		- Health	RENEWABLE DIESEL	10%		
	Map: 2 Grid: C2	<u>Type</u>			<u>Temperature</u>		Carcinogenicity	FATTY ACID METHYL ESTERS	3%		
		Mixture	Days on Site: 365		Ambient		- Health Acute	NAPHTHALENE	0%		91-20-3
							Toxicity				
							- Health Skin				
							Corrosion				
							Irritation				
							- Health				
							Respiratory Skin				
							Sensitization				
							- Health Specific				
							Target Organ				
							Toxicity				
							- Health				
							Aspiration Hazard				
DOT: 8 - Corrosives (Liquids and Solids)	LEAD ACID BATTERIES	Pounds	100	50	100		- Physical	Sulfuric Acid	40%	✓	7664-93-9
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Flammable				
Corrosive, Water Reactive, Class 2, Toxic, Oxidizing, Class 1	Map: 2 Grid: C2	Liquid	Other		Ambient		- Physical				
		<u>Type</u>			<u>Temperature</u>		Explosive				
		Mixture	Days on Site: 365		Ambient		- Physical				
							Corrosive To				
							Metal				
							- Health				
							Carcinogenicity				
							- Health Acute				
							Toxicity				
							- Health				
							Reproductive				
							Toxicity				
							- Health Skin				
							Corrosion				
							Irritation				
							- Health				
							Respiratory Skin				
							Sensitization				
							- Health Serious				
							Eye Damage Eye				
							Irritation				
							- Health Specific				
							Target Organ				
							Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location					CERS ID	10480876		
Facility Name	Marsh Landing Generating Station	FUEL GAS CHROMATOGRAPH					Facility ID	07-000-774528		
	3201C Wilbur Ave, Antioch 94509						Status	Submitted on 2/18/2023 2:48 PM		
						Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	COMPRESSED AIR ZERO	Cu. Feet	600	300	300		- Physical Gas			
	CAS No	State	Storage Container		Pressue	Waste Code	Under Pressure			
		Gas	Cylinder		> Ambient					
	Map: 2 Grid: C6	Type			Temperature					
		Mixture	Days on Site: 365		Ambient					
DOT: 2.2 - Nonflammable Gases	HELIUM	Cu. Feet	600	300	600		- Physical Gas			
	CAS No	State	Storage Container		Pressue	Waste Code	Under Pressure			
	7440-59-7	Gas	Cylinder		> Ambient		- Physical			
	Map: 2 Grid: C6	Type			Temperature		Explosive			
		Pure	Days on Site: 365		Ambient		- Health Simple			
							Asphyxiant			
DOT: 2.1 - Flammable Gases	METHANE MIXTURE	Cu. Feet	500	250	250		- Physical	ETHANE	100%	74-84-0
Flammable Gas	CHROMATOGRAPH CAL GAS	State	Storage Container		Pressue	Waste Code	Flammable	METHANE	100%	74-82-8
	CAS No	Gas	Cylinder		> Ambient		- Physical Gas	PROPANE	100%	74-98-6
		Type			Temperature		Under Pressure	NITROGEN	10%	7727-37-9
	Map: 2 Grid: C6	Mixture	Days on Site: 365		Ambient		- Physical			
							Explosive			
							- Health Simple			
							Asphyxiant			
DOT: 2.2 - Nonflammable Gases	NITROGEN	Cu. Feet	600	300	300		- Physical Gas			
	CAS No	State	Storage Container		Pressue	Waste Code	Under Pressure			
	7727-37-9	Gas	Cylinder		> Ambient		- Physical			
	Map: 2 Grid: C6	Type			Temperature		Explosive			
		Pure	Days on Site: 365		Ambient		- Health Simple			
							Asphyxiant			
DOT: 2.1 - Flammable Gases	HYDROGEN	Cu. Feet	600	300	300		- Physical			
Flammable Gas	CAS No	State	Storage Container		Pressue	Waste Code	Flammable			
	1333-74-0	Gas	Cylinder		> Ambient		- Physical Gas			
	Map: 2 Grid: C6	Type			Temperature		Under Pressure			
		Pure	Days on Site: 365		Ambient		- Physical			
							Explosive			
							- Health Simple			
							Asphyxiant			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	FUEL GAS CHROMATOGRAPH	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids	DIESEL FUEL NO. 2	Gallons	88	88	75		- Physical			
							Flammable			
Combustible Liquid, Class II	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	- Health			
	68476-34-6	Liquid	Other		Ambient		Carcinogenicity			
	Map: 2 Grid: C6	<u>Type</u>			<u>Temperature</u>		- Health Acute			
		Pure	Days on Site: 180		Ambient		Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.		Marsh Landing Generating Station				Chemical Location		CERS ID	10480876		
Facility Name		Marsh Landing Generating Station				FUEL GAS COMPRESSORS		Facility ID	07-000-774528		
		3201C Wilbur Ave, Antioch 94509						Status	Submitted on 2/18/2023 2:48 PM		
						Annual Waste	Hazardous Components				
							Federal Hazard	(For mixture only)			
DOT Code/Fire Haz. Class		Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
		LUBE OIL	Gallons	315	105	315		- Health Hazard			
		CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise			
			Liquid	Aboveground Tank		Ambient		Classified			
		Map: 2 Grid: C6	Type			Temperature					
			Mixture	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	FUEL GAS CONDITIONING SKID AND FILTER/SEPARATOR	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	NATURAL GAS CONDENSATE	Gallons	561	211	5		- Physical	Propane	50%	74-98-6
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Flammable	Ethane	30%	74-84-0
		Liquid	Aboveground Tank		Ambient		- Health	n-Pentane	15%	109-66-0
	Map: 2 Grid: C6	<u>Type</u>			<u>Temperature</u>		Carcinogenicity	n-Hexane	8%	110-54-3
		Mixture	Days on Site: 365		Ambient		- Health Acute	Heptane	6%	142-82-5
							Toxicity			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			
							- Health Germ			
							Cell Mutagenicity			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. Marsh Landing Generating Station			Chemical Location			CERS ID 10480876					
Facility Name Marsh Landing Generating Station			FUEL GAS DEW POINT HEATERS			Facility ID 07-000-774528					
3201C Wilbur Ave, Antioch 94509						Status Submitted on 2/18/2023 2:48 PM					
						Annual Waste	Hazardous Components				
						Amount	Federal Hazard	(For mixture only)			
DOT Code/Fire Haz. Class		Common Name	Unit	Quantities			Categories	Component Name	% Wt	EHS	CAS No.
		PROPYLENE GLYCOL 30%	Gallons	18932	9466	18932	- Health Hazard	PROPYLENE GLYCOL	96%		57-55-6
		CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise	WATER	4%	7732-18-5
		57-55-6	Liquid	Aboveground Tank		Ambient		Classified			
		Map: 2	Grid: D6			Temperature					
			Mixture	Days on Site: 365		> Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. Marsh Landing Generating Station			Chemical Location			CERS ID 10480876				
Facility Name Marsh Landing Generating Station			GENERATOR AIR COMPRESSOR, SHOP COMPRESSOR			Facility ID 07-000-774528				
3201C Wilbur Ave, Antioch 94509						Status Submitted on 2/18/2023 2:48 PM				
						Hazardous Components				
						(For mixture only)				
DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Component Name		
			Max. Daily	Largest Cont.	Avg. Daily			% Wt	EHS	CAS No.
	COMPRESSOR OIL	Gallons	5	2	5		- Health Hazard	Base Oil	90%	
	CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise Classified	Dialkyl Thiophosphate Ester	1%	268567-32-4
		Liquid	Other		Ambient			Alkaryl amine	2%	68411-46-1
	Map: 2 Grid: G3-G8, C3	Type			Temperature					
		Mixture	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location				CERS ID	10480876
Facility Name	Marsh Landing Generating Station	HAZARDOUS MATERIALS STORAGE				Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509					Status	Submitted on 2/18/2023 2:48 PM
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Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	HAZARDOUS WASTE STORAGE	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	USED OIL	Gallons	110	55	30	1000	- Health	Lubricating Oils, used	90%	70514-12-4
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Carcinogenicity	Water/Solids	10%	7732-18-5
		Liquid	Steel Drum		Ambient	221	- Health			
	Map: 2 Grid: C4	<u>Type</u>			<u>Temperature</u>		Reproductive			
		Waste	Days on Site: 365		Ambient		Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			
							- Health Germ			
							Cell Mutagenicity			
	OILY RAGS AND SPILL DEBRIS	Pounds	1000	500	250	1900	- Physical			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Flammable			
		Solid	Steel Drum, Box		Ambient	352	- Physical			
	Map: 2 Grid: C4	<u>Type</u>			<u>Temperature</u>		SelfHeating			
		Waste	Days on Site: 365		Ambient		- Health			
							Carcinogenicity			
							- Health			
							Reproductive			
							Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health Germ			
							Cell Mutagenicity			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	MACHINE SHOP	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	LUBRICATING AND HYDRAULIC OILS	Gallons	40	5	25		- Health Hazard			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Not Otherwise Classified			
		<u>Liquid</u>	Plastic Bottle or Jug, Other		<u>Ambient</u>					
		<u>Type</u>			<u>Temperature</u>					
	Map: 2 Grid: C4	<u>Mixture</u>	Days on Site: 365		<u>Ambient</u>					
DOT: 3 - Flammable and Combustible Liquids	DIESEL FUEL NO. 2	Gallons	10	5	10		- Physical Flammable	DIESEL FUEL NO. 2	98%	68476-34-6
Combustible Liquid, Class II	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	- Health	RENEWABLE DIESEL	10%	
	68476-34-6	<u>Liquid</u>	Other		<u>Ambient</u>		Carcinogenicity	FATTY ACID METHYL ESTERS	3%	
	Map: 2 Grid: C4	<u>Type</u>			<u>Temperature</u>		- Health Acute	NAPHTHALENE	0%	91-20-3
		<u>Mixture</u>	Days on Site: 365		<u>Ambient</u>		Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			
DOT: 3 - Flammable and Combustible Liquids	GASOLINE (Unleaded)	Gallons	10	5	5		- Physical Flammable	GASOLINE	100%	86290-81-5
Flammable Liquid, Class I-B	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	- Health	TOLUENE	20%	108-88-3
	86290-81-5	<u>Liquid</u>	Other		<u>Ambient</u>		Carcinogenicity	XYLENE	8%	1330-20-7
	Map: 2 Grid: C4	<u>Type</u>			<u>Temperature</u>		- Health	PENTANE	7%	540-84-1
		<u>Mixture</u>	Days on Site: 365		<u>Ambient</u>		Reproductive	BUTANE	6%	106-97-8
							Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			
							- Health Germ			
							Cell Mutagenicity			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location				CERS ID	10480876			
Facility Name	Marsh Landing Generating Station	MAIN AIR COMPRESSORS				Facility ID	07-000-774528			
3201C Wilbur Ave, Antioch 94509						Status	Submitted on 2/18/2023 2:48 PM			
						Hazardous Components				
						(For mixture only)				
DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	COMPRESSOR OIL	Gallons	14	5	12		- Health Hazard	Base Oil	90%	
	CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise Classified	Dialkyl Thiophosphate Ester	1%	268567-32-4
		Liquid	Other		Ambient			Alkaryl amine	2%	68411-46-1
	Map: 2 Grid: D6	Type			Temperature					
		Mixture	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	OIL WATER SEPARATORS NEAR U1 SWITCHYARD & NORTH OF UNITS 2&3	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	OILY WATER	Gallons	3000	2000	3000		- Health			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Carcinogenicity			
		Liquid	Other		Ambient		- Health			
	Map: 2 Grid: D6, H4	<u>Type</u>			<u>Temperature</u>		Reproductive			
		Mixture	Days on Site: 365		Ambient		Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			
							- Health Germ			
							Cell Mutagenicity			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	PORTABLE TANKS AT COVERED PARKING LOT AND TURBINES (as needed)	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	CLEANBLADE GTC 1000	Gallons	575	400	50		- Health	FATTY ALCOLHOL ALKOXYLATE	15%	69227-21-0
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Carcinogenicity	PROPYLENE GLYCOL N-BUTYL	5%	5131-66-8
		<u>Liquid</u>	Tank Wagon		<u>Ambient</u>		- Health	ETHER		
	Map: 2 Grid: D12, F3-F8	<u>Type</u>			<u>Temperature</u>		Reproductive	SEBACIC ACID	2%	70103-35-4
		<u>Mixture</u>	Days on Site: 365		<u>Ambient</u>		Toxicity	DIETHANOLAMINE	1%	111-42-2
							- Health Skin			
							Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	REFUELING TRUCK	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids	DIESEL FUEL NO. 2	Gallons	50	50	25		- Physical	DIESEL FUEL NO. 2	98%	68476-34-6
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Flammable			
Combustible Liquid, Class II	68476-34-6	Liquid	Other		Ambient		- Health	RENEWABLE DIESEL	10%	
	Map: 2 Grid: D12	<u>Type</u>			<u>Temperature</u>		Carcinogenicity	FATTY ACID METHYL ESTERS	3%	
		Mixture	Days on Site: 365		Ambient		- Health Acute	NAPHTHALENE	0%	91-20-3
							Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			
DOT: 3 - Flammable and Combustible Liquids	GASOLINE (Unleaded)	Gallons	50	50	25		- Physical	GASOLINE	100%	86290-81-5
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Flammable			
Flammable Liquid, Class I-B		Liquid	Other		Ambient		- Health	TOLUENE	20%	108-88-3
	Map: 2 Grid: D12	<u>Type</u>			<u>Temperature</u>		Carcinogenicity	XYLENE	8%	1330-20-7
		Mixture	Days on Site: 365		Ambient		- Health	PENTANE	7%	540-84-1
							Reproductive	BUTANE	6%	106-97-8
							Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			
							- Health Germ			
							Cell Mutagenicity			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station				Chemical Location		CERS ID	10480876		
Facility Name	Marsh Landing Generating Station				SPARE TRANSFORMER NORTH OF WAREHOUSE		Facility ID	07-000-774528		
	3201C Wilbur Ave, Antioch 94509						Status	Submitted on 2/18/2023 2:48 PM		

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station				Chemical Location	CERS ID	10480876			
Facility Name	Marsh Landing Generating Station				SWITCHYARD	Facility ID	07-000-774528			
	3201C Wilbur Ave, Antioch 94509					Status	Submitted on 2/18/2023 2:48 PM			
						Annual Waste Amount	Hazardous Components (For mixture only)			
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Federal Hazard Categories	Component Name	% Wt	EHS	CAS No.
	HYDRAULIC OIL	Gallons	90	15	90	- Health Acute	Gas Oils	85%		64742-79-6
	CAS No	State	Storage Container		Pressue	Waste Code	Toxicity	Butylated hydroxytoluene	0%	128-37-0
		Liquid	Aboveground Tank		Ambient		- Health Skin			
	Map: 2	Grid: H3-H7	Type		Temperature		Corrosion			
			Mixture	Days on Site: 365		Ambient		Irritation		
						- Health Aspiration Hazard				
DOT: 2.2 - Nonflammable Gases	SULFUR HEXAFLUORIDE	Cu. Feet	3015	503	3015	- Physical Gas				
	CAS No	State	Storage Container		Pressue	Waste Code	Under Pressure			
	2551-62-4	Gas	Other		> Ambient		- Physical			
	Map: 2	Grid: H3-H7	Type		Temperature		Explosive			
			Pure	Days on Site: 365		Ambient		- Health Simple		
						Asphyxiant				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	TA FANS	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	LUBE OIL	Gallons	864	108	680		- Health Hazard			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Not Otherwise Classified			
		Liquid	Other		Ambient					
	Map: 2 Grid: E3-E7	<u>Type</u>			<u>Temperature</u>					
		Mixture	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	Transformers Throughout (GSU, AUX, and SPARE)	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.
	MINERAL OIL, HYTRANS 61	Gallons	87893	15224	87893		- Health	DISTILLATES, PETROLEUM	99%		64742-53-6
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Respiratory Skin	2, 6-DI-BUTYL-P-CRESOL (BHT)	1%		128-37-0
		<u>Liquid</u>	Other		<u>Ambient</u>		Sensitization				
	Map: 2 Grid: G3-G7, G11	<u>Type</u>			<u>Temperature</u>		- Health Serious				
		<u>Mixture</u>	Days on Site: 365		<u>Ambient</u>		Eye Damage Eye				
							Irritation				
							- Health				
							Aspiration Hazard				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. Marsh Landing Generating Station		Chemical Location				CERS ID	10480876		
Facility Name Marsh Landing Generating Station		TURBINES				Facility ID	07-000-774528		
3201C Wilbur Ave, Antioch 94509						Status	Submitted on 2/18/2023 2:48 PM		
DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)	
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt
	LUBE OIL	Gallons	26000	7244	24200		- Health Hazard		
	CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise		
	64742-54-7	Liquid	Other		Ambient		Classified		
	Map: 2 Grid: F4-F8	Type			Temperature				
		Mixture	Days on Site: 365		Ambient				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station				Chemical Location		CERS ID	10480876					
Facility Name	Marsh Landing Generating Station				TURBINES AND ELECTRICAL PACKAGES				Facility ID	07-000-774528			
	3201C Wilbur Ave, Antioch 94509								Status	Submitted on 2/18/2023 2:48 PM			
DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)					
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.		
	FM 200 FIRE SUPPRESSION	Pounds	5376	562	5376	- Physical Gas	1,1,1,2,3,3,3-	100%		431-89-0			
	CAS No	State	Storage Container		Pressue	Under Pressure	HEPTAFLUROPROPANE						
	431-89-0	Gas	Cylinder		> Ambient	Waste Code	- Physical	NITROGEN		7727-37-9			
	Map: 2 Grid: G3-G8	Type			Temperature	Explosive							
		Pure	Days on Site: 365		Ambient	- Health Simple							
						Asphyxiant							

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	TURNING GEAR LUBE OIL	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	LUBE OIL	Gallons	76	19	76		- Health Hazard			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Not Otherwise Classified			
		Liquid	Other		Ambient					
	Map: 2 Grid: G3-G8	<u>Type</u>			<u>Temperature</u>					
		Mixture	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.		Marsh Landing Generating Station				Chemical Location		CERS ID		10480876	
Facility Name		Marsh Landing Generating Station				Various Air Receivers		Facility ID		07-000-774528	
		3201C Wilbur Ave, Antioch 94509						Status		Submitted on 2/18/2023 2:48 PM	
						Annual Waste		Hazardous Components			
								(For mixture only)			
DOT Code/Fire Haz. Class		Common Name		Unit	Quantities		Federal Hazard	Component Name		EHS CAS No.	
DOT: 2.2 - Nonflammable Gases		AIR		Cu. Feet	3753		2115	2369	- Physical Gas		
		CAS No		State	Storage Container		Pressue	Waste Code	Under Pressure		
		132259-10-0		Gas	Aboveground Tank		> Ambient				
		Map: 2 Grid: C3-G8		Type			Temperature				
				Pure	Days on Site: 365		Ambient				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station				Chemical Location		CERS ID	10480876		
Facility Name	Marsh Landing Generating Station				WAREHOUSE		Facility ID	07-000-774528		
	3201C Wilbur Ave, Antioch 94509						Status	Submitted on 2/18/2023 2:48 PM		
						Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	NITROGEN, NITRIC OXIDE, CARBON MONOXIDE	Cu. Feet	3750	250	1500		- Physical Gas	NITROGEN	100%	7727-37-9
		State	Storage Container		Pressue	Waste Code	Under Pressure	NITRIC OXIDE		✓ 10102-43-9
		Gas	Cylinder		> Ambient		- Physical	CARBON MONOXIDE		630-08-0
	CAS No	Type			Temperature		Explosive	NITROGEN OXIDES		10102-44-0
	Map: 2 Grid: H12	Mixture	Days on Site: 365		Ambient		- Health Simple Asphyxiant			
	NITROGEN, NITRIC OXIDE	Cu. Feet	3000	150	2400		- Physical Gas	NITROGEN	100%	7727-37-9
		State	Storage Container		Pressue	Waste Code	Under Pressure	NITRIC OXIDE		✓ 10102-43-9
		Gas	Cylinder		> Ambient		- Physical	NITROGEN OXIDES		10102-44-7
	CAS No	Type			Temperature		Explosive			
	Map: 2 Grid: H12	Mixture	Days on Site: 365		Ambient		- Health Simple Asphyxiant			
	NITROGEN, OXYGEN, CARBON MONOXIDE	Cu. Feet	3300	150	2250		- Physical Gas	NITROGEN	89%	7727-37-9
		State	Storage Container		Pressue	Waste Code	Under Pressure	OXYGEN	10%	7782-44-7
		Gas	Cylinder		> Ambient		- Physical	CARBON MONOXIDE	0%	630-08-0
	CAS No	Type			Temperature		Explosive			
	Map: 2 Grid: H12	Mixture	Days on Site: 365		Ambient		- Health Reproductive Toxicity			
DOT: 2.2 - Nonflammable Gases	ULTRA ZERO COMPRESSED AIR	Cu. Feet	1200	300	600		- Physical Gas			
		State	Storage Container		Pressue	Waste Code	Under Pressure			
		Gas	Cylinder		> Ambient		- Physical			
	CAS No	Type			Temperature		Explosive			
	Map: 2 Grid: H12	Mixture	Days on Site: 365		Ambient					
DOT: 2.1 - Flammable Gases	METHANE MIXTURE	Cu. Feet	500	250	250		- Physical	ETHANE	100%	74-84-0
	CHROMATOGRAPH CAL GAS	State	Storage Container		Pressue	Waste Code	Flammable	METHANE	100%	74-82-8
		Gas	Cylinder		> Ambient		- Physical Gas	PROPANE	100%	74-98-6
		CAS No	Type		Temperature		Under Pressure	NITROGEN	10%	7727-37-9
		Map: 2 Grid: H12	Mixture	Days on Site: 365		Ambient		- Physical Explosive		
DOT: 2.2 - Nonflammable Gases	NITROGEN	Cu. Feet	22800	500	12000		- Physical Gas			
		State	Storage Container		Pressue	Waste Code	Under Pressure			
	CAS No	Gas	Cylinder		> Ambient		- Physical			
	Map: 2 Grid: H12	Type		Temperature		Explosive				
		Pure	Days on Site: 365		Ambient		- Health Simple Asphyxiant			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	WAREHOUSE	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids)	LEAD ACID BATTERIES	Pounds	300	300	300		- Physical	Sulfuric Acid	40%	✓ 7664-93-9
Corrosive, Water Reactive, Class 2, Toxic, Oxidizing, Class 1	CAS No. ☐ EHS Map: 2 Grid: H12	State Liquid Type Mixture	Storage Container Other Days on Site: 365		Pressue Ambient Temperature Ambient	Waste Code	- Flammable - Physical Explosive - Physical Corrosive To Metal - Health Carcinogenicity - Health Acute Toxicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity			
DOT: 2.2 - Nonflammable Gases	HELIUM	Cu. Feet	900	300	600		- Physical Gas			
	CAS No. 7440-59-7 Map: 2 Grid: H12	State Gas Type Pure	Storage Container Cylinder Days on Site: 365		Pressue > Ambient Temperature Ambient	Waste Code	Under Pressure - Physical Explosive - Health Simple Asphyxiant			
DOT: 2.1 - Flammable Gases	HYDROGEN	Cu. Feet	900	300	600		- Physical			
Flammable Gas	CAS No. 1333-74-0 Map: 2 Grid: H12	State Gas Type Pure	Storage Container Cylinder Days on Site: 365		Pressue > Ambient Temperature Ambient	Waste Code	Flammable - Physical Gas Under Pressure - Physical Explosive - Health Simple Asphyxiant			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station	Chemical Location	CERS ID	10480876
Facility Name	Marsh Landing Generating Station	WAREHOUSE FLAMMABLE CABINETS	Facility ID	07-000-774528
	3201C Wilbur Ave, Antioch 94509		Status	Submitted on 2/18/2023 2:48 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids	DIESEL FUEL NO. 2	Gallons	10	5	10		- Physical	DIESEL FUEL NO. 2	100%		68476-34-6
	CAS No	State	Storage Container		Pressue	Waste Code	Flammable				
Combustible Liquid, Class II	68476-34-6	Liquid	Other		Ambient		- Health	RENEWABLE DIESEL	10%		
	Map: 2 Grid: H12	Type			Temperature		Carcinogenicity	FATTY ACID METHYL ESTERS	3%		
		Mixture	Days on Site: 365		Ambient		- Health Acute	NAPTHALENE	0%		91-20-3
							Toxicity				
							- Health Skin				
							Corrosion				
							Irritation				
							- Health				
							Respiratory Skin				
							Sensitization				
							- Health Specific				
							Target Organ				
							Toxicity				
							- Health				
							Aspiration Hazard				
DOT: 3 - Flammable and Combustible Liquids	GASOLINE (Unleaded)	Gallons	20	5	20		- Physical	GASOLINE	100%		86290-81-5
	CAS No	State	Storage Container		Pressue	Waste Code	Flammable				
Flammable Liquid, Class I-B		Liquid	Other		Ambient		- Health	TOLUENE	20%		108-88-3
	Map: 2 Grid: H12	Type			Temperature		Carcinogenicity	XYLENE	8%		1330-20-7
		Mixture	Days on Site: 365		Ambient		- Health	PENTANE	7%		540-84-1
							Reproductive	BUTANE	6%		106-97-8
							Toxicity				
							- Health Skin				
							Corrosion				
							Irritation				
							- Health Serious				
							Eye Damage Eye				
							Irritation				
							- Health Specific				
							Target Organ				
							Toxicity				
							- Health				
							Aspiration Hazard				
							- Health Germ				
							Cell Mutagenicity				
	ULTRA COOLANT	Gallons	16	5.3	11		- Health Hazard	Polypropylene glycol	65%		
	CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise	Pentaerythritol ester	27%		
		Liquid	Plastic Bottle or Jug		Ambient		Classified	Alkylated diphenylamine	5%		68411-46-1
	Map: 2 Grid: H12	Type			Temperature			Barium dinonyl-naphthalene	0%		25619-56-1
		Mixture	Days on Site: 365		Ambient			sulfonate			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org.	Marsh Landing Generating Station				Chemical Location		CERS ID	10480876			
Facility Name	Marsh Landing Generating Station				WATER TREATMENT BUILDING				Facility ID	07-000-774528	
	3201C Wilbur Ave, Antioch 94509								Status	Submitted on 2/18/2023 2:48 PM	
						Annual Waste	Federal Hazard	Hazardous Components (For mixture only)			
DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Amount	Categories	Component Name	% Wt	EHS	CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Highly Toxic	SODIUM BISULFITE 35% - 40%, BWT-104 CAS No 7631-90-5 Map: 2 Grid: C4	Gallons	350	350	200		- Health Acute	SODIUM BISULFITE			7631-90-5
		State	Storage Container		Pressue	Waste Code	Toxicity				
		Liquid	Tote Bin		Ambient		- Health Skin				
		Type	Mixture		Temperature		Corrosion				
							Irritation				
							- Health Serious				
							Eye Damage Eye				
							Irritation				
							- Health Acute	2-Propenoic acid, homopolymer	14%		9003-01-4
							Toxicity	Polyoxalkylenes, C4-6,	20%		68918-96-7
							- Health Skin	propoxylated			
							Corrosion	2 Propenoic acid, telomer	8%		97953-25-8
							Irritation				
							- Health Serious				
							Eye Damage Eye				
							Irritation				
							- Health				
							Aspiration Hazard				
							- Health Skin	SODIUM HYPOCHLORITE	13%		7681-52-9
							Corrosion	SODIUM HYDROXIDE	1%		1310-73-2
							Irritation				
							- Health Serious				
							Eye Damage Eye				
							Irritation				

Marsh Landing Generating Station

Annual Compliance Report

3.3 HAZ-8

The site specific security plan has been reviewed and updated and is available on site for viewing.

- All current project employees and appropriate contractor background investigations have been performed and a certification statement has been appended to the operations security plan.
- The operation security plan includes all current hazardous material transport vendor certifications for security plans and employee background investigations.

Marsh Landing Generating Station

Annual Compliance Report

3.4 SOIL & WATER-5

- See attached Quarterly Industrial User Compliance Reports to DDSD.



Industrial User Report Checklist And Certification Statement Form

Attn: Environmental Compliance Specialist	Andrew Mora		
Environmental Specialist Phone	(925) 756-1913	Fax	(925) 756-1961
Industrial User Facility Name	Marsh Landing LLC		
Duly Authorized Representative Name	Joe Moura		
Duly Authorized Representative Phone	925-779-6685		

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

Self-Monitoring Reports (SMRs) (Required)

☒ Flow Discharge Summary (Review Discharge Permit.)

☒ Calibration of Effluent Flow Meters; if applicable.

☒ 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 *: **January – June** and **July -December**.

The SIU shall conduct a SNC review for the previous completed period * prior to the Self-monitoring Report (SMR) due date. Examples: A October SMR due date, the SNC review period is **January – June** or an April SMR 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 six-month 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 a and/or b) for this period*? Yes ☐, No ☐; If yes, for what period? _____. Please report the SNC status to the District in the SMR and include corrective actions to resolve the SNC classification.

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

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

☐ Significant Changes

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



Industrial User Report Checklist And Certification Statement Form

Certification Statement

Industrial User Facility Name	Marsh Landing LLC
Industrial User Facility Address	3201-C Wilbur Avenue, Antioch, CA 94509
Duly Authorized Representative Phone	925-779-6685
Indicate Period Covered by This Report	January 1-March 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	
Duly Authorized Representative Print	Joe Moura
Date	4/11/2022



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

April 11, 2022

Mr. Andrew Mora
Delta Diablo
2500 Pittsburg-Antioch Highway
Antioch, CA 94509-1373

**Subject: 2022 First Quarterly (January 1-March 31) Self-Monitoring Report
Marsh Landing LLC, Marsh Landing Generating Station,
Industrial Wastewater Discharge Permit 0311963-S**

This letter documents the transmittal of the 2022 First Quarterly Self-Monitoring Report (SMR).

Compliance Statement (choose one):

- ☒ 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 January 1 through March 31, 2022. This report includes monthly flow data and quarterly, semiannual, and annual analytical data required to be collected in 2022. Data are summarized in the attached tables.

Additionally, enclosed is documentation of the flow meter calibrations performed in March 2022 for compliance with the Annual Flow Measurement Device Calibration requirement in the Industrial Wastewater Discharge Permit.

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,



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:	Annual Results for Combined Wastewater (FAC Combined)
Table 4:	January 2022 Monthly Flow Data
Table 5:	February 2022 Monthly Flow Data
Table 6:	March 2022 Monthly Flow Data

Attachment 1:	pH COC
Attachment 2:	Analytical Reports
Attachment 3:	Annual Flow Measurement Device Calibration Record

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	January - March 2022
Report Type	Quarterly

Constituent	Sample Date	Permit Limit	Result	Units
Field pH	2/2/2022	6-10	7.3	S.U.
BOD	2/2/2022	-	210	mg/L
COD	2/2/2022	-	260	mg/L
Arsenic	2/2/2022	0.15	0.00063	mg/L
Cadmium	2/2/2022	0.1	ND	mg/L
Chromium	2/2/2022	0.5	0.0015	mg/L
Copper	2/2/2022	0.5	0.071	mg/L
Iron	2/2/2022	-	0.25	mg/L
Lead	2/2/2022	0.5	0.00044 JB	mg/L
Mercury	2/2/2022	0.003	ND	mg/L
Molybdenum	2/2/2022	-	0.0017	mg/L
Nickel	2/2/2022	0.5	0.0064	mg/L
Selenium	2/2/2022	0.25	0.00039 J	mg/L
Silver	2/2/2022	0.2	ND	mg/L
Zinc	2/2/2022	1.0	0.110	mg/L
TDS	2/2/2022	-	464	mg/L
TSS	2/2/2022	-	34.0	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.

B = Analyte detected in the associated Method Blank at a concentration greater than 1/10 the report

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	January - July 2022
Report Type	Semiannual

Constituent	Sample Date	Permit Limit	Result	Units
Cyanide	2/2/2022	0.20	ND	mg/L
Total Phenolics (EPA 420.4)	2/2/2022	1.0	ND	mg/L
Ammonia as N	2/2/2022	200	64.0	mg/L
Oil and Grease Animal/Vegetable (HEM)	2/2/2022	300	7.2	mg/L
Oil and Grease Petroleum/Mineral (SGT-HEM)	2/2/2022	100	2.0	mg/L
ORGANICS (EPA 624.1, 625.1, 608.3)	2/2/2022			
4,4 DDT	2/2/2022		0.00000042 JP	
Bromodichloromethane	2/2/2022	-	0.0032	mg/L
Bromoform	2/2/2022	-	0.0017	mg/L
Chloroform	2/2/2022	-	0.0019	mg/L
Dibromochloromethane	2/2/2022	-	0.0045	mg/L
Bis (2-Ethylhexyl) Phthalate	2/2/2022	-	.000044 J	mg/L
TOTAL TOXIC ORGANICS	2/2/2022	2.0	0.0113	mg/L

J = The reported concentration is an estimated value and is not included in Total Toxic Organic totals.

mg/L = Milligrams per Liter

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

P = Agreement between quantitative confirmation results exceed method recommended limits.

Table 3
Annual 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	January - December 2022
Report Type	Annual

Constituent	Sample Date	Permit Limit	Result	Units
Sulfide	2/2/2022	-	ND	mg/L
Sulfate	2/2/2022	-	60	mg/L

J = The reported concentration is an estimated value.

mg/L = Milligrams per Liter

ND = Not detected at or above the indicated MDL or RL.

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	January, 2022
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuous, measured by flow meter
Sample Date	1/1/2022 - 1/31/2022
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 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 21 (+10% = 23.1)
1	5,740	19.62	
2	0	0.00	
3	2,079	19.59	
4	9,807	19.58	
5	3,334	17.17	
6	5,415	20.54	
7	5,207	19.58	
8	6,620	19.71	
9	0	0.00	
10	3,486	17.22	
11	11,333	20.72	
12	4,941	19.74	
13	5,363	19.58	
14	1	0.93	
15	431	17.40	
16	0	0.00	
17	0	0.00	
18	0	0.00	
19	2,930	16.59	
20	6,838	20.70	
21	6,250	19.78	
22	20,322	19.58	
23	0	0.00	
24	0	0.00	
25	0	0.00	
26	0	0.00	
27	0	0.00	
28	55	17.52	
29	522	16.07	
30	0	0.00	
31	0	0.00	

Total Monthly Flow (gal)	100,674	Did flow exceed limits?	NO
Daily Max Flow (gpd)	20,322	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	3,248		

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	February, 2022
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuous, measured by flow meter
Sample Date	2/1/2022 - 2/28/2022
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 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 21 (+10% = 23.1)
1	5,970	19.71	
2	28,081	20.86	
3	14,702	19.62	
4	5,796	20.00	
5	3,866	19.66	
6	453	17.15	
7	5,933	19.66	
8	4,173	19.59	
9	0	0.00	
10	0	0.00	
11	1,824	19.54	
12	0	0.00	
13	0	0.00	
14	0	0.00	
15	0	0.00	
16	6,236	20.70	
17	78	19.55	
18	5,158	19.57	
19	4,896	19.66	
20	0	0.00	
21	5,562	19.61	
22	12,382	19.80	
23	5,803	19.80	
24	4,151	19.57	
25	4,136	16.12	
26	7,369	17.53	
27	0	0.00	
28	3,456	19.71	

Total Monthly Flow (gal)	130,026	Did flow exceed limits?	NO
Daily Max Flow (gpd)	28,081	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	4,644		

Table 6
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	March, 2022
Report Type	Quarterly
Constituent	Flow
Sample Type	Continuous, measured by flow meter
Sample Date	3/1/2022 - 3/31/2022
Permit Limits (s.u.)	NTE 30,240 gpd. NTE 21 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 21 (+10% = 23.1)
1	2,927	19.58	
2	3,322	14.38	
3	14,129	29.88	
4	1,993	17.35	
5	9,164	20.26	
6	626	16.78	
7	1,737	19.61	
8	13,460	19.59	
9	3,405	15.20	
10	7,206	17.23	
11	1,312	19.71	
12	14,363	21.15	
13	0	0.00	
14	0	0.00	
15	0	0.00	
16	3,946	17.24	
17	8,240	14.80	
18	170	80.05	Calibration Value
19	0	0.00	
20	550	16.84	
21	0	0.00	
22	11,188	20.30	
23	6,098	19.63	
24	0	0.00	
25	61	11.58	
26	19,584	16.87	
27	0	0.00	
28	5,353	19.85	
29	8,879	19.62	
30	0	0.00	
31	9,086	20.17	

Total Monthly Flow (gal)	146,800	Did flow exceed limits?	NO
Daily Max Flow (gpd)	19,584	Flow above daily max (30,240 gpd)?	NO
Average Monthly Flow (gpd)	4,735		

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)	pH
Method: SM								4500-H+B standard
Unit:								0.18
Reporting Limit:								0.06
Method Detection Limit:								
FAC Combined Waste Water	ML-22-034	2/2/22	1530	2/2/22	1530	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:

Feb 3, 2022

Sampling Technologist: James E Robinson

Signature:

James E. Robinson

Date:

2-Feb-22



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2202152

Report Created for: NRG Energy, LLC

3201 Wilbur Avenue
Antioch, CA 94509

Project Contact: David Frandsen

Project P.O.: 4501914176

Project: Marsh Landing DDSD Quarterly

Project Received: 02/02/2022

Analytical Report reviewed & approved for release on 02/09/2022 by:

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.





Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2202152

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
PDS D	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: 2202152

Project: Marsh Landing DDSD Quarterly

Analytical Qualifiers

- | | |
|---|--|
| B | Analyte detected in the associated Method Blank at a concentration greater than 1/10 the reported sample result. |
| J | Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value. |



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/03/2022
Project: Marsh Landing DDSD Quarterly

WorkOrder: 2202152
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	2202152-001B	Water	02/02/2022 15:30	WetChem	238729

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
BOD	210	120	120	30	02/08/2022 15:12

Analyst(s): MGO



Analytical Report

Client: NRG Energy, LLC

Date Received: 02/02/2022 17:50

Date Prepared: 02/04/2022

Project: Marsh Landing DDSD Quarterly

WorkOrder: 2202152

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 ID
FAC Combined Wastewater	2202152-001A	Water	02/02/2022 15:30	SPECTROPHOTOMETER2	238724

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
COD	260	9.5	10	1	02/04/2022 11:12

Analyst(s): NYG



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/02/2022
Project: Marsh Landing DDSD Quarterly

WorkOrder: 2202152
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	2202152-001E	Water	02/02/2022 15:30			ICP-MS4 121SMPL.d	238687
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
Arsenic	0.00063		0.00010	0.00050	1	02/04/2022 15:56	
Cadmium	ND		0.00024	0.00050	1	02/04/2022 15:56	
Chromium	0.0015		0.00035	0.00050	1	02/04/2022 15:56	
Copper	0.071		0.00066	0.0015	1	02/04/2022 15:56	
Iron	0.25		0.037	0.10	1	02/04/2022 15:56	
Lead	0.00044	JB	0.00027	0.00050	1	02/04/2022 15:56	
Mercury	ND		0.000047	0.000050	1	02/04/2022 15:56	
Molybdenum	0.0017		0.00018	0.00050	1	02/04/2022 15:56	
Nickel	0.0064		0.00027	0.00050	1	02/04/2022 15:56	
Selenium	0.00039	J	0.00017	0.00050	1	02/04/2022 15:56	
Silver	ND		0.00026	0.00050	1	02/04/2022 15:56	
Zinc	0.11		0.014	0.020	1	02/04/2022 15:56	
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>			
Terbium	110			70-130		02/04/2022 15:56	
<u>Analyst(s):</u> MIG							



Analytical Report

Client: NRG Energy, LLC

Date Received: 02/02/2022 17:50

Date Prepared: 02/04/2022

Project: Marsh Landing DDSD Quarterly

WorkOrder: 2202152

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	2202152-001C	Water	02/02/2022 15:30	WetChem	238868

Analytes	Result	MDL	RL	DF	Date Analyzed
Total Dissolved Solids	464	10.0	10.0	1	02/09/2022 14:35

Analyst(s): MGO



Analytical Report

Client: NRG Energy, LLC

Date Received: 02/02/2022 17:50

Date Prepared: 02/07/2022

Project: Marsh Landing DDSD Quarterly

WorkOrder: 2202152

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	2202152-001D	Water	02/02/2022 15:30	WetChem	238917

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	34.0	10.0	10.0	10	02/07/2022 13:15

Analyst(s): MGO



Quality Control Report

Client: NRG Energy, LLC

Date Prepared: 02/03/2022

Date Analyzed: 02/08/2022

Instrument: WetChem

Matrix: Water

Project: Marsh Landing DDSD Quarterly

WorkOrder: 2202152

BatchID: 238729

Extraction Method: SM5210B

Analytical Method: SM5210 B

Unit: mg/L

Sample ID: MB/LCS/LCSD-238729

QC Summary Report for BOD

Analyte	MB Result	MDL	RL			
BOD	ND	4.00	4.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	228	226	198	115	114	80-120	0.660	16



Quality Control Report

Client: NRG Energy, LLC

Date Prepared: 02/04/2022

Date Analyzed: 02/04/2022

Instrument: SPECTROPHOTOMETER2

Matrix: Water

Project: Marsh Landing DDSD Quarterly

WorkOrder: 2202152

BatchID: 238724

Extraction Method: SM5220 D-1997

Analytical Method: SM5220 D-1997

Unit: mg/L

Sample ID: MB/LCS/LCSD-238724

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	90	100	96	90	90-110	6.45	20



Quality Control Report

Client: NRG Energy, LLC

Date Prepared: 02/02/2022

Date Analyzed: 02/03/2022

Instrument: ICP-MS2

Matrix: Water

Project: Marsh Landing DDSD Quarterly

WorkOrder: 2202152

BatchID: 238687

Extraction Method: E200.8

Analytical Method: E200.8

Unit: µg/L

Sample ID: MB/LCS/LCSD-238687

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.10	0.50	-	-	-
Cadmium	ND	0.24	0.50	-	-	-
Chromium	ND	0.35	0.50	-	-	-
Copper	ND	0.66	1.5	-	-	-
Iron	ND	37	100	-	-	-
Lead	0.33,J	0.27	0.50	-	-	-
Mercury	ND	0.047	0.050	-	-	-
Molybdenum	ND	0.18	0.50	-	-	-
Nickel	ND	0.27	0.50	-	-	-
Selenium	ND	0.17	0.50	-	-	-
Silver	ND	0.26	0.50	-	-	-
Zinc	ND	14	20	-	-	-

Surrogate Recovery

Terbium	510	500	103	70-130
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	50	52	50	101	103	85-115	2.86	20
Cadmium	51	52	50	102	104	85-115	1.24	20
Chromium	51	51	50	101	103	85-115	1.72	20
Copper	48	49	50	95	98	85-115	2.99	20
Iron	4900	4900	5000	98	99	85-115	1.20	20
Lead	52	53	50	104	106	85-115	2.00	20
Mercury	1.2	1.2	1.25	96	99	85-115	2.71	20
Molybdenum	51	51	50	102	102	85-115	0.510	20
Nickel	48	49	50	95	98	85-115	3.16	20
Selenium	53	51	50	106	102	85-115	3.62	20
Silver	50	51	50	100	101	85-115	1.53	20
Zinc	500	500	500	99	100	85-115	1.28	20

Surrogate Recovery

Terbium	510	520	500	102	104	70-130	1.69	20
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Quality Control Report

Client: NRG Energy, LLC

Date Prepared: 02/04/2022

Date Analyzed: 02/07/2022

Instrument: WetChem

Matrix: Water

Project: Marsh Landing DDSD Quarterly

WorkOrder: 2202152

BatchID: 238868

Extraction Method: SM2540 C-1997

Analytical Method: SM2540 C-1997

Unit: mg/L

Sample ID: MB/LCS/LCSD-238868

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	976	980	1000	98	98	80-120	0.409	10



Quality Control Report

Client: NRG Energy, LLC

Date Prepared: 02/07/2022

Date Analyzed: 02/07/2022

Instrument: WetChem

Matrix: Water

Project: Marsh Landing DDSD Quarterly

WorkOrder: 2202152

BatchID: 238917

Extraction Method: SM2540 D-1997

Analytical Method: SM2540 D-1997

Unit: mg/L

Sample ID: MB/LCS/LCSD-238917
2202152-001D

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	80.0	87.0	100	80	87	80-120	8.38	10

Analyte	SAMP Result	DUP Result		RPD	RPD Limit
Total Suspended Solids	34.0	32.0		6.10	10



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2202152

ClientCode: GOA

QuoteID: 212372

☐ WaterTrax☐ CLIP☐ EDF☐ EQulS☐ Dry-Weight☒ Email☐ HardCopy☐ ThirdParty☒ J-flag☐ Detection Summary☐ Excel

Report to:

David Frandsen
NRG Energy, LLC
3201 Wilbur Avenue
Antioch, CA 94509
(925) 427-3479 FAX: (925) 779-6679

Email: David.Frandsen@nrg.com
cc/3rd Party: joe.moura@nrg.com; james.robinson@nrg.
PO: 4501914176
Project: Marsh Landing DDSD Quarterly

Bill to:

Accounts Payable
NRG
4900 N. Scottsdale Road, Ste. 5000
Scottsdale, AZ 85251
invoices@clearwayenergy.coupahost.co

Requested TATs: 5 days;
7 days;

Date Received: 02/02/2022

Date Logged: 02/02/2022

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2202152-001	FAC Combined Wastewater	Water	2/2/2022 15:30	☐	B	A	E	A	C	D						

Test Legend:

1	BOD_W
5	TDS_W
9	

2	COD_W
6	TSS_W
10	

3	METALSMS_TTLC_W(PPM)
7	
11	

4	PRDisposal Fee
8	
12	

Project Manager: Susan Thompson

Prepared by: 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.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: NRG ENERGY, LLC
Client Contact: David Frandsen
Contact's Email: David.Frandsen@nrg.com

Project: Marsh Landing DDSD Quarterly

Work Order: 2202152

QC Level: LEVEL 2

Date Logged: 2/2/2022

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

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	FAC Combined Wastewater	Water	SM5220D (COD)	2	aVOA w/ H2SO4	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐
001B	FAC Combined Wastewater	Water	SM5210B (BOD)	1	500mL HDPE, unprsv.	☐	☐	☐	2/2/2022 15:30	7 days	2/11/2022	Trace	☐	☐
001C	FAC Combined Wastewater	Water	SM2540C (TDS)	1	500mL HDPE, unprsv.	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐
001D	FAC Combined Wastewater	Water	SM2540D (TSS)	1	1L HDPE, unprsv.	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐
001E	FAC Combined Wastewater	Water	E200.8 (Metals) <Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐

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.

2202152

Chain of Custody

Page 1 of 2-Quarterly

Marsh Landing Generating Station

3201 Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509

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

SAMPLES SUBMITTED TO				SEND INVOICE TO				PROJECT				ANALYSIS REQUEST			
Laboratory: McCampbell Analytical, Inc. ELAP Cert. No.: 1644 Address: 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Phone/Fax: 925.252.9262/ 925.252.9269				Company: Marsh Landing LLC Attention: Accounts Payable Address: invoices@cleantechenergy.com P.O. No.: 4501914176				Plant: Marsh Landing Title: DDSD Phase: Quarterly Manager: David Frandsen				COD (SM 5220D) BOD (SM 5210B) TDS (SM 2540B) TSS (SM 2540D)			
SAMPLE INFORMATION								CONTAINER INFORMATION							
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Description	Number	Type	Volume (each, mL)	Preserv.	COD (SM 5220D)	BOD (SM 5210B)	TDS (SM 2540B)	TSS (SM 2540D)
ML-22-017	2-Feb-22	1530	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wastewater	2	Amber VOAs	43	H ₂ SO ₄ (pH<2, 4°C)	X			
ML-22-018	2-Feb-22	1530	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wastewater	1	HDPE Bottle	1,000	None (ZHS, 4°C)		X		
ML-22-019	2-Feb-22	1530	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wastewater	1	HDPE Bottle	500	None (4°C)			X	
ML-22-020	2-Feb-22	1530	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wastewater	1	Poly	1,000	None				X
HOLDING TIME:												28 days	48 hours	7 days	7 days
REPORTING				LABORATORY NOTES RE: SAMPLE RECEIPT/CONDITION				DIRECTIONS FOR LABORATORY							
Original to: David Frandsen Title: Environmental Specialist/Engineer Address: P.O. Box 1687 Antioch, CA 94509 Phone/Fax: 925.324-3533/6509 E-mail: david.frandsen@nrg.com E-mail CC: james.robinson@nrg.com E-mail CC: joe.moura@nrg.com								STANDARD TAT (5-day). Establish calibration standards so Minimum Level (ML) value is the lowest calibration standard, the lowest quantifiable concentration or Reporting Limit (RL). Report "Detected, but Not Quantified" (DNQ) with estimated J-flagged concentrations below the RL and include method detection limits (MDLs) in report. Please report all results with the units of mg/L. RESULTS AND PRICING PER QUOTE ID: 212372. *Include sample description with client sample number ID.							
PRINTED NAME				SIGNATURE				COMPANY				DATE		TIME	
Sampled by				James E. Robinson.				NRG Energy Services				2-Feb-22		1530	
Relinquished by				James E. Robinson.				NRG Energy Services				2-Feb-22		1750	
Received by				<i>Lilly Orla</i>				McC Campbell Analytical, Inc.				2-Feb-22		1750	
Relinquished by												5.5 wet			
Received by															
Relinquished by															
Received by															

5.5^c wet

2202152

Chain of Custody

Page 2 of 2-Quarterly

Marsh Landing Generating Station

3201 Wilbur Avenue, P.O. Box 1687, Antioch, CA 94509

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

SAMPLES SUBMITTED TO							SEND INVOICE TO		PROJECT				ANALYSIS REQUEST			
Laboratory: McC Campbell Analytical, Inc. ELAP Cert. No.: 1644 Address: 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Phone/Fax: 925.252.9262/ 925.252.9269							Company: Marsh Landing LLC Attention: Accounts Payable Address: invoices@cleanenergy.com P.O. No.: 4501914176		Plant: Marsh Landing Title: DDSD Phase: Quarterly Manager: David Frandsen				Total Metals¹ (EPA Method 200.8)			
SAMPLE INFORMATION							CONTAINER INFORMATION									
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Description	Number	Type	Volume (each, mL)	Preserv.	Total Metals ¹ (EPA Method 200.8)				
ML-22-021	2-Feb-22	1530	DDSD	Quarterly	Wastewater	C-24	FAC Combined Wastewater	1	HDPE Bottle	250	HNO3 (pH<2)	X				
HOLDING TIME: 28 days																
REPORTING			LABORATORY NOTES RE: SAMPLE RECEIPT/CONDITION					DIRECTIONS FOR LABORATORY								
Original to: David Frandsen Title: Environmental Specialist/Engineer Address: P.O. Box 1687 Antioch, CA 94509 Phone/Fax: 925.324-3533/6509 E-mail: david.frandsen@nrg.com E-mail CC: james.robinson@nrg.com E-mail CC: joe.moura@nrg.com								STANDARD TAT (5-day). Establish calibration standards so Minimum Level (ML) value is the lowest calibration standard, the lowest quantifiable concentration or Reporting Limit (RL). Report "Detected, but Not Quantified" (DNQ) with estimated J-flagged concentrations below the RL and include method detection limits (MDLs) in report. 1. Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Mercury, Nickel, Molybdenum, Selenium (reaction mode), Silver, Zinc Please report all results with the units of mg/L. RESULTS AND PRICING PER QUOTE ID: 212372. *Include sample description with client sample number ID.								
PRINTED NAME							SIGNATURE		COMPANY		DATE		TIME			
Sampled by: James E. Robinson.							<i>James E. Robinson</i>		NRG Energy Services		2-Feb-22		1530			
Relinquished by: James E. Robinson.							<i>James E. Robinson</i>		NRG Energy Services		2-Feb-22		1750			
Received by: <i>Lilly Ortiz</i>							<i>Lilly Ortiz</i>		McC Campbell Analytical, Inc.		2-Feb-22		1750			
Relinquished by:																
Received by:																
Relinquished by:																
Received by:																



Sample Receipt Checklist

Client Name: **NRG Energy, LLC**
Project: **Marsh Landing DDS Quarterly**

Date and Time Received: **2/2/2022 17:50**
Date Logged: **2/2/2022**
Received by: **Lilly Ortiz**
Logged by: **Cassandra Gallegos**

WorkOrder No: **2202152** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☒	No ☐	NA ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 5.5°C		NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐	No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☒	No ☐	NA ☐

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐	No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐	No ☐	NA ☒

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2202148

Report Created for: NRG Energy, LLC

3201 Wilbur Avenue
Antioch, CA 94509

Project Contact: David Frandsen

Project P.O.: 4501914176

Project: Marsh Landing DDSD Semi-Annual

Project Received: 02/02/2022

Analytical Report reviewed & approved for release on 02/11/2022 by:

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.





Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2202148

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: 2202148

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.
P	Agreement between quantitative confirmation results exceed method recommended limits
S	Surrogate recovery outside accepted recovery limits.
c2	Surrogate recovery outside of the control limits due to matrix interference.
j1	See attached narrative

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.
F7	The LCS/LCSD recovery is above the upper control limit. The target analyte(s) were Not Detected (ND); therefore, the data is reportable.



Case Narrative

Client: NRG Energy, LLC
Project: Marsh Landing DDSD Semi-Annual

Work Order: 2202148
February 11, 2022

j1:

SW8260B: Volatile Organic Compounds

For the laboratory control sample duplicated (LCSD) in batch 239084, there were more marginal exceedances than allowable per TNI Standards 2016.

The LCSD recoveries that were above the upper control limit and the target analytes were non-detect (ND) are flagged with an F7 qualifier.

Bromoform and Dibromochloromethane were above the established control limits for the percent recovery (%R) in the LCSD. The Bromoform and Dibromochloromethane results for sample 2202148-001G (FAC Combined Wastewater) are considered to be estimates.



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/08/2022
Project: Marsh Landing DDS Semi-Annual

WorkOrder: 2202148
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 Collected	Instrument	Batch ID
FAC Combined Wastewater	2202148-001A	Water	02/02/2022 15:30	O&G	239097

Analytes	Result	Qualifiers	MDL	RL	DE	Date Analyzed
SGT-HEM	2.0	J	0.72	5.0	1	02/09/2022 14:30

Analyst(s): HN



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/07/2022
Project: Marsh Landing DDS Semi-Annual

WorkOrder: 2202148
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	2202148-001B	Water	02/02/2022 15:30	O&G	238913

Analytes	Result	MDL	RL	DE	Date Analyzed
HEM	7.2	1.3	5.0	1	02/08/2022 15:15

Analyst(s): HN



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/03/2022
Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148
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	2202148-001F	Water	02/02/2022 15:30	GC40 02042257.d	238722

Analytes	Result	Qualifiers	MDL	RL	DE	Date Analyzed
Aldrin	ND		0.000000	0.0000010	1	02/04/2022 20:33
a-BHC	ND		0.000000	0.0000010	1	02/04/2022 20:33
b-BHC	ND		0.000000	0.0000010	1	02/04/2022 20:33
d-BHC	ND		0.000000	0.0000010	1	02/04/2022 20:33
g-BHC	ND		0.000000	0.0000010	1	02/04/2022 20:33
Chlordane (Technical)	ND		0.000002	0.000020	1	02/04/2022 20:33
p,p-DDD	ND		0.000000	0.0000010	1	02/04/2022 20:33
p,p-DDE	ND		0.000000	0.0000010	1	02/04/2022 20:33
p,p-DDT	0.00000042	JP	0.000000	0.0000010	1	02/04/2022 20:33
Dieldrin	ND		0.000000	0.0000010	1	02/04/2022 20:33
Endosulfan I	ND		0.000000	0.0000010	1	02/04/2022 20:33
Endosulfan II	ND		0.000000	0.0000010	1	02/04/2022 20:33
Endosulfan sulfate	ND		0.000000	0.0000020	1	02/04/2022 20:33
Endrin	ND		0.000000	0.0000010	1	02/04/2022 20:33
Endrin aldehyde	ND		0.000000	0.0000010	1	02/04/2022 20:33
Heptachlor	ND		0.000000	0.0000010	1	02/04/2022 20:33
Heptachlor epoxide	ND		0.000000	0.0000010	1	02/04/2022 20:33
Toxaphene	ND		0.000002	0.000020	1	02/04/2022 20:33
Aroclor1016	ND		0.000001	0.000020	1	02/04/2022 20:33
Aroclor1221	ND		0.000002	0.000020	1	02/04/2022 20:33
Aroclor1232	ND		0.000003	0.000020	1	02/04/2022 20:33
Aroclor1242	ND		0.000002	0.000020	1	02/04/2022 20:33
Aroclor1248	ND		0.000001	0.000020	1	02/04/2022 20:33
Aroclor1254	ND		0.000001	0.000020	1	02/04/2022 20:33
Aroclor1260	ND		0.000002	0.000020	1	02/04/2022 20:33

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	71	60-130	02/04/2022 20:33

Analyst(s): CN



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/03/2022
Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148
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	Batch ID
FAC Combined Wastewater	2202148-001H	Water	02/02/2022 15:30	GC10 02032214.D	238821

Analytes	Result	MDL	RL	DE	Date Analyzed
Acrolein (Propenal)	ND	0.0015	0.0050	1	02/03/2022 18:52
Acrylonitrile	ND	0.00052	0.0020	1	02/03/2022 18:52
2-Chloroethyl Vinyl Ether	ND	0.00056	0.0010	1	02/03/2022 18:52

Surrogates	REC (%)	Limits	
Dibromofluoromethane	76	70-130	02/03/2022 18:52

Analyst(s): KF



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/09/2022
Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148
Extraction Method: E624.1
Analytical Method: E624.1
Unit: mg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FAC Combined Wastewater	2202148-001G	Water	02/02/2022 15:30	GC16 02082229.D	239084

Analytes	Result	MDL	RL	DF	Date Analyzed
Benzene	ND	0.00012	0.00020	1	02/09/2022 04:54
Bromodichloromethane	0.0032	0.000025	0.000050	1	02/09/2022 04:54
Bromoform	0.0017	0.00031	0.00050	1	02/09/2022 04:54
Bromomethane	ND	0.00018	0.00050	1	02/09/2022 04:54
Carbon tetrachloride	ND	0.000028	0.000050	1	02/09/2022 04:54
Chlorobenzene	ND	0.00011	0.00050	1	02/09/2022 04:54
Chloroethane	ND	0.00020	0.00050	1	02/09/2022 04:54
Chloroform	0.0019	0.000091	0.00010	1	02/09/2022 04:54
Chloromethane	ND	0.00028	0.00050	1	02/09/2022 04:54
Dibromochloromethane	0.0045	0.000026	0.00015	1	02/09/2022 04:54
1,2-Dichlorobenzene	ND	0.00016	0.00050	1	02/09/2022 04:54
1,3-Dichlorobenzene	ND	0.00012	0.00050	1	02/09/2022 04:54
1,4-Dichlorobenzene	ND	0.000093	0.00050	1	02/09/2022 04:54
1,1-Dichloroethane	ND	0.00015	0.00050	1	02/09/2022 04:54
1,2-Dichloroethane (1,2-DCA)	ND	0.000011	0.000020	1	02/09/2022 04:54
1,1-Dichloroethene	ND	0.000009	0.000010	1	02/09/2022 04:54
trans-1,2-Dichloroethene	ND	0.00011	0.00050	1	02/09/2022 04:54
1,2-Dichloropropane	ND	0.000019	0.00020	1	02/09/2022 04:54
cis-1,3-Dichloropropene	ND	0.00021	0.00050	1	02/09/2022 04:54
trans-1,3-Dichloropropene	ND	0.00028	0.00050	1	02/09/2022 04:54
Ethylbenzene	ND	0.00014	0.00050	1	02/09/2022 04:54
Methylene chloride	ND	0.00074	0.0020	1	02/09/2022 04:54
1,1,2,2-Tetrachloroethane	ND	0.000011	0.000020	1	02/09/2022 04:54
Tetrachloroethene	ND	0.00016	0.00020	1	02/09/2022 04:54
Toluene	ND	0.00017	0.00050	1	02/09/2022 04:54
1,1,1-Trichloroethane	ND	0.00011	0.00050	1	02/09/2022 04:54
1,1,2-Trichloroethane	ND	0.00011	0.00020	1	02/09/2022 04:54
Trichloroethene	ND	0.00025	0.00050	1	02/09/2022 04:54
Trichlorofluoromethane	ND	0.00014	0.00050	1	02/09/2022 04:54
Vinyl chloride	ND	0.000004	0.0000050	1	02/09/2022 04:54

Surrogates	REC (%)	Limits	
Dibromofluoromethane	112	70-130	02/09/2022 04:54
Toluene-d8	87	70-130	02/09/2022 04:54
4-BFB	78	70-130	02/09/2022 04:54

Analyst(s): KF

Analytical Comments: j1



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/03/2022
Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148
Extraction Method: E625.1
Analytical Method: E625.1
Unit: mg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
FAC Combined Wastewater	2202148-0011	Water	02/02/2022 15:30			GC47 02032218.D	238747
Analytes	Result	Qualifiers	MDL	RL	DE	Date Analyzed	
Acenaphthene	ND		0.000001	0.0000048	1	02/03/2022 18:31	
Acenaphthylene	ND		0.000000	0.0000048	1	02/03/2022 18:31	
Anthracene	ND		0.000002	0.0000048	1	02/03/2022 18:31	
Benzidine	ND		0.0023	0.0048	1	02/03/2022 18:31	
Benzo (a) anthracene	ND		0.000012	0.000048	1	02/03/2022 18:31	
Benzo (a) pyrene	ND		0.000003	0.0000048	1	02/03/2022 18:31	
Benzo (b) fluoranthene	ND		0.000005	0.000019	1	02/03/2022 18:31	
Benzo (g,h,i) perylene	ND		0.000004	0.000019	1	02/03/2022 18:31	
Benzo (k) fluoranthene	ND		0.000005	0.000019	1	02/03/2022 18:31	
Bis (2-chloroethoxy) Methane	ND		0.00024	0.00096	1	02/03/2022 18:31	
Bis (2-chloroethyl) Ether	ND		0.000001	0.0000048	1	02/03/2022 18:31	
Bis (2-chloroisopropyl) Ether	ND		0.000014	0.000048	1	02/03/2022 18:31	
Bis (2-ethylhexyl) Phthalate	0.000044	J	0.000043	0.00019	1	02/03/2022 18:31	
4-Bromophenyl Phenyl Ether	ND		0.00014	0.00096	1	02/03/2022 18:31	
Butylbenzyl Phthalate	ND		0.000007	0.000048	1	02/03/2022 18:31	
4-Chloro-3-methylphenol	ND		0.00036	0.00096	1	02/03/2022 18:31	
2-Chloronaphthalene	ND		0.00021	0.00096	1	02/03/2022 18:31	
2-Chlorophenol	ND		0.000013	0.000048	1	02/03/2022 18:31	
4-Chlorophenyl Phenyl Ether	ND		0.00021	0.00096	1	02/03/2022 18:31	
Chrysene	ND		0.000001	0.0000048	1	02/03/2022 18:31	
Dibenzo (a,h) anthracene	ND		0.000005	0.000019	1	02/03/2022 18:31	
Di-n-butyl Phthalate	ND		0.000017	0.000048	1	02/03/2022 18:31	
1,2-Dichlorobenzene	ND		0.00016	0.00096	1	02/03/2022 18:31	
1,3-Dichlorobenzene	ND		0.00027	0.00096	1	02/03/2022 18:31	
1,4-Dichlorobenzene	ND		0.00027	0.00096	1	02/03/2022 18:31	
3,3-Dichlorobenzidine	ND		0.000002	0.0000048	1	02/03/2022 18:31	
2,4-Dichlorophenol	ND		0.000002	0.0000096	1	02/03/2022 18:31	
Diethyl Phthalate	ND		0.000015	0.000048	1	02/03/2022 18:31	
2,4-Dimethylphenol	ND		0.00047	0.00096	1	02/03/2022 18:31	
Dimethyl Phthalate	ND		0.000004	0.0000096	1	02/03/2022 18:31	
4,6-Dinitro-2-methylphenol	ND		0.0018	0.0048	1	02/03/2022 18:31	
2,4-Dinitrophenol	ND		0.00037	0.00096	1	02/03/2022 18:31	
2,4-Dinitrotoluene	ND		0.000019	0.000048	1	02/03/2022 18:31	
2,6-Dinitrotoluene	ND		0.000018	0.000048	1	02/03/2022 18:31	
Di-n-octyl Phthalate	ND		0.00074	0.00096	1	02/03/2022 18:31	
1,2-Diphenylhydrazine	ND		0.00019	0.00096	1	02/03/2022 18:31	
Fluoranthene	ND		0.000002	0.0000096	1	02/03/2022 18:31	

(Cont.)



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/03/2022
Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148
Extraction Method: E625.1
Analytical Method: E625.1
Unit: mg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FAC Combined Wastewater	2202148-0011	Water	02/02/2022 15:30	GC47 02032218.D	238747

Analytes	Result	Qualifiers	MDL	RL	DE	Date Analyzed
Fluorene	ND		0.000002	0.0000096	1	02/03/2022 18:31
Hexachlorobenzene	ND		0.000001	0.0000048	1	02/03/2022 18:31
Hexachlorobutadiene	ND		0.000001	0.0000048	1	02/03/2022 18:31
Hexachlorocyclopentadiene	ND		0.0022	0.0048	1	02/03/2022 18:31
Hexachloroethane	ND		0.000002	0.0000096	1	02/03/2022 18:31
Indeno (1,2,3-cd) pyrene	ND		0.000006	0.000019	1	02/03/2022 18:31
Isophorone	ND		0.00089	0.0019	1	02/03/2022 18:31
Naphthalene	ND		0.000012	0.000048	1	02/03/2022 18:31
Nitrobenzene	ND		0.00028	0.00096	1	02/03/2022 18:31
2-Nitrophenol	ND		0.0016	0.0048	1	02/03/2022 18:31
4-Nitrophenol	ND		0.0015	0.0048	1	02/03/2022 18:31
N-Nitrosodimethylamine	ND		0.0018	0.0048	1	02/03/2022 18:31
N-Nitrosodiphenylamine	ND		0.00022	0.00096	1	02/03/2022 18:31
N-Nitrosodi-n-propylamine	ND		0.00034	0.00096	1	02/03/2022 18:31
Pentachlorophenol	ND		0.000086	0.00024	1	02/03/2022 18:31
Phenanthrene	ND		0.000002	0.0000048	1	02/03/2022 18:31
Phenol	ND		0.000055	0.00019	1	02/03/2022 18:31
Pyrene	ND		0.000001	0.0000048	1	02/03/2022 18:31
1,2,4-Trichlorobenzene	ND		0.00018	0.00096	1	02/03/2022 18:31
2,4,6-Trichlorophenol	ND		0.000003	0.0000096	1	02/03/2022 18:31

Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorophenol	38		30-130	02/03/2022 18:31
Phenol-d5	27		20-130	02/03/2022 18:31
Nitrobenzene-d5	54	S	60-130	02/03/2022 18:31
2-Fluorobiphenyl	62		50-130	02/03/2022 18:31
2,4,6-Tribromophenol	62		60-130	02/03/2022 18:31
Terphenyl-d14	80		40-130	02/03/2022 18:31

Analyst(s): KOS

Analytical Comments: c2



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/11/2022
Project: Marsh Landing DDS Semi-Annual

WorkOrder: 2202148
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	2202148-001E	Water	02/02/2022 15:30	WC_SKALAR 220211A1-2_79	239187

Analytes	Result	MDL	RL	DE	Date Analyzed
Ammonia, total as N	64	0.96	1.0	10	02/11/2022 10:19

Analyst(s): NYG



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/09/2022
Project: Marsh Landing DDS Semi-Annual

WorkOrder: 2202148
Extraction Method: E420.4
Analytical Method: E420.4
Unit: mg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
FAC Combined Wastewater	2202148-001D	Water	02/02/2022 15:30			WC_SKALAR 02092022F1_29	239155

Analytes	Result	MDL	RL	DE	Date Analyzed
Phenolics	ND	0.0014	0.0020	1	02/09/2022 16:31

Analyst(s): JN



Quality Control Report

Client:	NRG Energy, LLC	WorkOrder:	2202148
Date Prepared:	02/09/2022	BatchID:	239097
Date Analyzed:	02/09/2022	Extraction Method:	E1664A_SG
Instrument:	O&G	Analytical Method:	E1664A
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDS Semi-Annual	Sample ID:	MB/LCS/LCSD-239097

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	8.6	8.3	10.42	83	80	64-132	3.44	30



Quality Control Report

Client:	NRG Energy, LLC	WorkOrder:	2202148
Date Prepared:	02/07/2022	BatchID:	238913
Date Analyzed:	02/07/2021	Extraction Method:	E1664A
Instrument:	O&G	Analytical Method:	E1664A
Matrix:	Water	Unit:	mg/L
Project:	Marsh Landing DDS Semi-Annual	Sample ID:	MB/LCS/LCSD-238913

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
HEM	ND	1.3	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	18	18	20.83	86	88	78-114	2.68	30



Quality Control Report

Client:	NRG Energy, LLC	WorkOrder:	2202148
Date Prepared:	02/03/2022	BatchID:	238722
Date Analyzed:	02/03/2022	Extraction Method:	E608.3/SW3620B
Instrument:	GC40	Analytical Method:	E608.3
Matrix:	Water	Unit:	µg/L
Project:	Marsh Landing DDSD Semi-Annual	Sample ID:	MB/LCS/LCSD-238722

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	0.036			0.05	73	60-130

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Quality Control Report

Client: NRG Energy, LLC
Date Prepared: 02/03/2022
Date Analyzed: 02/03/2022
Instrument: GC40
Matrix: Water
Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148
BatchID: 238722
Extraction Method: E608.3/SW3620B
Analytical Method: E608.3
Unit: µg/L
Sample ID: MB/LCS/LCSD-238722

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	0.042	0.043	0.050	84	87	60-130	2.85	20
a-BHC	0.048	0.049	0.050	96	98	70-130	2.02	20
b-BHC	0.039	0.041	0.050	79	82	70-130	3.74	20
d-BHC	0.046	0.048	0.050	92	96	70-130	4.03	20
g-BHC	0.037	0.038	0.050	75	75	60-130	0.865	20
a-Chlordane	0.042	0.044	0.050	83	87	60-130	4.87	20
g-Chlordane	0.042	0.044	0.050	84	88	70-130	4.53	20
p,p-DDD	0.038	0.040	0.050	77	81	70-130	5.37	20
p,p-DDE	0.043	0.045	0.050	86	91	70-130	5.52	20
p,p-DDT	0.042	0.045	0.050	84	89	70-130	5.99	20
Dieldrin	0.043	0.045	0.050	86	90	70-130	4.65	20
Endosulfan I	0.041	0.043	0.050	83	86	70-130	4.40	20
Endosulfan II	0.041	0.043	0.050	82	86	70-130	4.62	20
Endosulfan sulfate	0.040	0.043	0.050	81	86	70-130	5.84	20
Endrin	0.044	0.046	0.050	87	91	70-130	4.30	20
Endrin aldehyde	0.036	0.038	0.050	72	76	60-130	4.39	20
Endrin ketone	0.038	0.040	0.050	76	81	60-130	5.50	20
Heptachlor	0.042	0.043	0.050	85	86	70-130	1.96	20
Heptachlor epoxide	0.041	0.043	0.050	81	85	70-130	4.32	20
Methoxychlor	0.044	0.047	0.050	88	94	70-130	6.73	20
Aroclor1016	0.12	0.13	0.15	81	87	70-130	7.37	20
Aroclor1260	0.13	0.14	0.15	87	95	70-130	8.33	20
Surrogate Recovery								
Decachlorobiphenyl	0.038	0.040	0.050	76	80	60-130	5.72	20



Quality Control Report

Client: NRG Energy, LLC
Date Prepared: 02/03/2022
Date Analyzed: 02/03/2022
Instrument: GC10
Matrix: Water
Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148
BatchID: 238821
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-238821

QC Summary Report for E624.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acrolein (Propenal)	ND	1.5	5.0	-	-	-
Acrylonitrile	ND	0.52	2.0	-	-	-
2-Chloroethyl Vinyl Ether	ND	0.56	1.0	-	-	-
Surrogate Recovery						
Dibromofluoromethane	18			25	74	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acrolein (Propenal)	18	16	20	88	80	71-140	9.85	20
Acrylonitrile	21	20	20	107	102	67-145	5.50	20
2-Chloroethyl Vinyl Ether	19	18	20	95	92	70-124	3.89	20
Surrogate Recovery								
Dibromofluoromethane	19	19	25	75	75	70-130	0.414	20



Quality Control Report

Client:	NRG Energy, LLC	WorkOrder:	2202148
Date Prepared:	02/08/2022	BatchID:	239084
Date Analyzed:	02/08/2022	Extraction Method:	E624.1
Instrument:	GC16	Analytical Method:	E624.1
Matrix:	Water	Unit:	µg/L
Project:	Marsh Landing DDSD Semi-Annual	Sample ID:	MB/LCS/LCSD-239084

QC Summary Report for E624.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
tert-Amyl methyl ether (TAME)	ND	0.13	0.50	-	-	-
Benzene	ND	0.12	0.20	-	-	-
Bromodichloromethane	ND	0.025	0.050	-	-	-
Bromoform	ND	0.31	0.50	-	-	-
Bromomethane	ND	0.18	0.50	-	-	-
t-Butyl alcohol (TBA)	ND	2.5	5.0	-	-	-
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-Dibromoethane (EDB)	ND	0.021	0.040	-	-	-
1,2-Dichlorobenzene	ND	0.16	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.12	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.093	0.50	-	-	-
Dichlorodifluoromethane	ND	0.29	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	-	-	-
Diisopropyl ether (DIPE)	ND	0.12	0.50	-	-	-
Ethylbenzene	ND	0.14	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.16	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.16	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	-	-	-

(Cont.)



Quality Control Report

Client:	NRG Energy, LLC	WorkOrder:	2202148
Date Prepared:	02/08/2022	BatchID:	239084
Date Analyzed:	02/08/2022	Extraction Method:	E624.1
Instrument:	GC16	Analytical Method:	E624.1
Matrix:	Water	Unit:	µg/L
Project:	Marsh Landing DDSD Semi-Annual	Sample ID:	MB/LCS/LCSD-239084

QC Summary Report for E624.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	26			25	103	70-130
Toluene-d8	24			25	94	70-130
4-BFB	2.0			2.5	81	70-130



Quality Control Report

Client: NRG Energy, LLC
Date Prepared: 02/08/2022
Date Analyzed: 02/08/2022
Instrument: GC16
Matrix: Water
Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148
BatchID: 239084
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-239084

QC Summary Report for E624.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	3.8	4.4	4	94	111	60-130	16.3	20
Benzene	3.9	4.1	4	96	102	60-130	6.13	20
Bromodichloromethane	4.1	4.8	4	102	120	60-130	16.7	20
Bromoform	4.8	6.2	4	119	154,F2	50-130	25.2,F2	20
Bromomethane	5.1	5.1	4	127	127	50-130	0.00532	20
t-Butyl alcohol (TBA)	13	17	16	81	108	50-130	28.8,F2	20
Carbon Disulfide	3.7	3.6	4	92	91	60-130	1.80	20
Carbon tetrachloride	5.0	5.2	4	125	129	60-130	3.72	20
Chlorobenzene	4.3	5.1	4	108	127	60-130	16.5	20
Chloroethane	3.9	3.9	4	98	97	60-140	1.17	20
Chloroform	4.3	4.7	4	107	117	60-130	9.62	20
Chloromethane	4.3	4.3	4	108	107	50-130	0.858	20
Dibromochloromethane	5.0	6.2	4	126	155,F2	50-130	20.6,F2	20
1,2-Dibromoethane (EDB)	2.2	2.6	2	112	131,F7	60-130	16.2	20
1,2-Dichlorobenzene	4.3	5.8	4	108	144,F7	60-130	28.9,F2	20
1,3-Dichlorobenzene	4.2	5.3	4	104	132,F7	60-130	23.9,F2	20
1,4-Dichlorobenzene	4.2	5.4	4	105	136,F7	60-130	26.0,F2	20
Dichlorodifluoromethane	4.3	3.9	4	108	98	40-140	9.23	20
1,1-Dichloroethane	3.7	3.9	4	92	96	50-130	4.33	20
1,2-Dichloroethane (1,2-DCA)	3.4	3.8	4	86	95	60-130	10.2	20
1,1-Dichloroethene	4.2	4.1	4	105	103	60-130	1.42	20
trans-1,2-Dichloroethene	4.2	4.2	4	104	105	60-130	1.17	20
1,2-Dichloropropane	3.8	4.3	4	96	108	60-130	12.4	20
cis-1,3-Dichloropropene	3.7	4.2	4	92	105	60-130	13.1	20
trans-1,3-Dichloropropene	3.4	4.0	4	84	99	60-130	16.8	20
Diisopropyl ether (DIPE)	3.8	4.3	4	96	108	60-130	11.9	20
Ethylbenzene	3.7	4.5	4	93	111	60-130	17.6	20
Ethyl tert-butyl ether (ETBE)	3.7	4.1	4	92	103	60-130	12.2	20
Methyl-t-butyl ether (MTBE)	3.6	4.1	4	91	102	60-130	12.2	20
Methylene chloride	4.0	4.2	4	100	104	50-130	4.01	20
1,1,2,2-Tetrachloroethane	3.6	4.7	4	90	118	60-130	27.0,F2	20
Tetrachloroethene	4.9	5.4	4	124	136,F7	60-130	9.20	20
Toluene	3.8	4.2	4	94	105	60-130	11.2	20
1,1,1-Trichloroethane	4.2	4.3	4	104	108	60-130	4.01	20
1,1,2-Trichloroethane	4.2	5.1	4	104	128	60-130	20.1,F2	20
Trichloroethene	4.9	5.3	4	123	131,F7	60-130	6.81	20
Trichlorofluoromethane	4.2	4.2	4	106	105	60-130	0.818	20
Vinyl chloride	2.0	2.0	2	101	99	60-130	1.91	20

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Quality Control Report

Client:	NRG Energy, LLC	WorkOrder:	2202148
Date Prepared:	02/08/2022	BatchID:	239084
Date Analyzed:	02/08/2022	Extraction Method:	E624.1
Instrument:	GC16	Analytical Method:	E624.1
Matrix:	Water	Unit:	µg/L
Project:	Marsh Landing DDSD Semi-Annual	Sample ID:	MB/LCS/LCSD-239084

QC Summary Report for E624.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	27	26	25	107	105	70-130	1.34	20
Toluene-d8	23	23	25	94	91	70-130	3.13	20
4-BFB	2.0	1.9	2.5	81	78	70-130	4.85	20



Quality Control Report

Client: NRG Energy, LLC

Date Prepared: 02/03/2022

Date Analyzed: 02/03/2022

Instrument: GC47

Matrix: Water

Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148

BatchID: 238747

Extraction Method: E625.1

Analytical Method: E625.1

Unit: µg/L

Sample ID: MB/LCS/LCSD-238747

QC Summary Report for E625.1

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	-	-	-
Benzyl Alcohol	ND	3.2	5.0	-	-	-
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) Adipate	ND	0.27	1.0	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.045	0.20	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.15	1.0	-	-	-
Butylbenzyl Phthalate	ND	0.0074	0.050	-	-	-
4-Chloroaniline	ND	0.0014	0.0050	-	-	-
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	-	-	-
Dibenzofuran	ND	0.0015	0.0050	-	-	-
Di-n-butyl Phthalate	ND	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	-	-	-
2,6-Dichlorophenol	ND	0.012	0.050	-	-	-
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	-	-	-

(Cont.)



Quality Control Report

Client:	NRG Energy, LLC	WorkOrder:	2202148
Date Prepared:	02/03/2022	BatchID:	238747
Date Analyzed:	02/03/2022	Extraction Method:	E625.1
Instrument:	GC47	Analytical Method:	E625.1
Matrix:	Water	Unit:	µg/L
Project:	Marsh Landing DDSD Semi-Annual	Sample ID:	MB/LCS/LCSD-238747

QC Summary Report for E625.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
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	-	-	-
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	-	-	-
1-Methylnaphthalene	ND	0.0024	0.0050	-	-	-
Isophorone	ND	0.92	2.0	-	-	-
2-Methylnaphthalene	ND	0.0015	0.0050	-	-	-
2-Methylphenol (o-Cresol)	ND	0.33	1.0	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1.0	-	-	-
Naphthalene	ND	0.012	0.050	-	-	-
2-Nitroaniline	ND	1.3	5.0	-	-	-
3-Nitroaniline	ND	1.8	5.0	-	-	-
4-Nitroaniline	ND	1.9	5.0	-	-	-
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	-	-	-
Pyridine	ND	0.23	1.0	-	-	-
1,2,4-Trichlorobenzene	ND	0.19	1.0	-	-	-
2,4,5-Trichlorophenol	ND	0.0025	0.010	-	-	-
2,4,6-Trichlorophenol	ND	0.0038	0.010	-	-	-

(Cont.)



Quality Control Report

Client: NRG Energy, LLC
Date Prepared: 02/03/2022
Date Analyzed: 02/03/2022
Instrument: GC47
Matrix: Water
Project: Marsh Landing DDS Semi-Annual

WorkOrder: 2202148
BatchID: 238747
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-238747

QC Summary Report for E625.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	4.2			5	84	30-130
Phenol-d5	4.3			5	86	20-130
Nitrobenzene-d5	4.0			5	80	60-130
2-Fluorobiphenyl	4.3			5	86	50-130
2,4,6-Tribromophenol	3.5			5	70	60-130
Terphenyl-d14	3.3			5	66	40-130



Quality Control Report

Client: NRG Energy, LLC
Date Prepared: 02/03/2022
Date Analyzed: 02/03/2022
Instrument: GC47
Matrix: Water
Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148
BatchID: 238747
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-238747

QC Summary Report for E625.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.22	0.20	0.25	90	79	50-130	12.0	25
Acenaphthylene	0.20	0.18	0.25	82	71	60-130	13.7	25
Anthracene	0.22	0.20	0.25	88	79	60-130	10.4	25
Benzidine	22	21	25	89	85	20-130	4.22	25
Benzo (a) anthracene	0.22	0.19	0.25	86	77	60-130	10.7	25
Benzo (a) pyrene	0.20	0.18	0.25	80	73	60-130	9.66	25
Benzo (b) fluoranthene	0.22	0.19	0.25	88	78	60-130	11.5	25
Benzo (g,h,i) perylene	0.21	0.19	0.25	82	75	50-130	9.00	25
Benzo (k) fluoranthene	0.21	0.20	0.25	84	81	60-130	3.43	25
Benzyl Alcohol	22	23	25	89	91	60-130	1.38	25
Bis (2-chloroethoxy) Methane	4.6	4.2	5	92	83	65-130	10.5	25
Bis (2-chloroethyl) Ether	0.21	0.21	0.25	84	83	60-130	1.74	25
Bis (2-chloroisopropyl) Ether	0.25	0.25	0.25	101	100	60-130	0.501	25
Bis (2-ethylhexyl) Adipate	4.3	4.0	5	87	79	60-130	8.72	25
Bis (2-ethylhexyl) Phthalate	0.22	0.19	0.25	87	76	60-130	14.0	25
4-Bromophenyl Phenyl Ether	4.6	4.2	5	92	85	65-130	7.97	25
Butylbenzyl Phthalate	0.21	0.18	0.25	86	74	60-140	14.6	25
4-Chloroaniline	0.23	0.21	0.25	91	82	60-130	10.2	25
4-Chloro-3-methylphenol	5.4	4.7	5	107	95	65-130	12.5	25
2-Chloronaphthalene	4.4	4.1	5	88	81	65-130	8.58	25
2-Chlorophenol	0.19	0.19	0.25	77	77	60-130	0.222	25
4-Chlorophenyl Phenyl Ether	4.7	4.2	5	94	84	65-130	10.2	25
Chrysene	0.23	0.22	0.25	90	88	70-130	2.06	25
Dibenzo (a,h) anthracene	0.22	0.20	0.25	88	81	50-130	7.91	25
Dibenzofuran	0.23	0.21	0.25	93	83	65-130	11.3	25
Di-n-butyl Phthalate	0.20	0.17	0.25	79	68	60-130	14.4	25
1,2-Dichlorobenzene	3.9	3.9	5	78	78	60-130	0.475	25
1,3-Dichlorobenzene	4.1	4.0	5	81	80	60-130	1.23	25
1,4-Dichlorobenzene	3.9	4.4	5	79	87	60-130	10.3	25
3,3-Dichlorobenzidine	0.21	0.19	0.25	83	75	60-130	11.0	25
2,4-Dichlorophenol	0.25	0.22	0.25	100	89	60-130	11.5	25
2,6-Dichlorophenol	0.24	0.21	0.25	96	86	65-130	11.8	25
Diethyl Phthalate	0.21	0.19	0.25	85	77	65-130	9.88	25
2,4-Dimethylphenol	5.2	4.7	5	104	93	60-130	10.7	25
Dimethyl Phthalate	0.22	0.20	0.25	88	78	60-130	11.5	25
4,6-Dinitro-2-methylphenol	27	25	25	110	101	60-130	8.14	25
2,4-Dinitrophenol	5.3	4.6	5	106	92	50-130	13.9	25
2,4-Dinitrotoluene	0.24	0.21	0.25	95	85	70-130	10.5	25

(Cont.)



Quality Control Report

Client: NRG Energy, LLC
Date Prepared: 02/03/2022
Date Analyzed: 02/03/2022
Instrument: GC47
Matrix: Water
Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148
BatchID: 238747
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-238747

QC Summary Report for E625.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
2,6-Dinitrotoluene	0.22	0.20	0.25	89	80	65-140	9.77	25
Di-n-octyl Phthalate	3.9	3.6	5	77	71	70-130	8.50	25
1,2-Diphenylhydrazine	4.7	4.3	5	93	86	65-130	8.70	25
Fluoranthene	0.22	0.20	0.25	89	79	65-130	12.2	25
Fluorene	0.23	0.20	0.25	92	80	65-130	12.9	25
Hexachlorobenzene	0.22	0.20	0.25	89	82	60-130	8.57	25
Hexachlorobutadiene	0.22	0.20	0.25	89	80	60-130	10.4	25
Hexachlorocyclopentadiene	23	20	25	91	80	50-130	12.7	25
Hexachloroethane	0.20	0.20	0.25	78	79	40-130	0.524	25
Indeno (1,2,3-cd) pyrene	0.29	0.27	0.25	115	107	50-130	7.59	25
1-Methylnaphthalene	0.23	0.21	0.25	92	82	65-130	10.9	25
Isophorone	4.3	4.0	5	86	81	50-130	5.47	25
2-Methylnaphthalene	0.22	0.20	0.25	90	81	60-130	10.8	25
2-Methylphenol (o-Cresol)	4.1	4.1	5	83	81	60-130	1.94	25
3 & 4-Methylphenol (m,p-Cresol)	4.6	4.5	5	91	90	60-130	1.03	25
Naphthalene	0.21	0.19	0.25	84	76	50-130	9.95	25
2-Nitroaniline	25	23	25	101	91	65-130	10.3	25
3-Nitroaniline	29	23	25	117	94	70-140	22.3	25
4-Nitroaniline	28	24	25	113	97	70-130	15.5	25
Nitrobenzene	4.6	4.2	5	92	83	60-130	9.80	25
2-Nitrophenol	28	25	25	111	99	70-130	10.8	25
4-Nitrophenol	28	26	25	112	102	30-130	9.41	25
N-Nitrosodimethylamine	20	20	25	80	80	30-130	0.526	25
N-Nitrosodiphenylamine	4.8	4.5	5	97	90	65-130	6.96	25
N-Nitrosodi-n-propylamine	3.8	3.8	5	75	76	50-130	1.18	25
Pentachlorophenol	1.3	1.1	1.25	102	92	60-130	11.0	25
Phenanthrene	0.22	0.21	0.25	90	83	65-130	8.08	25
Phenol	0.85	0.85	1	85	85	30-130	0.0532	25
Pyrene	0.22	0.21	0.25	89	83	70-130	7.16	25
Pyridine	3.5	3.4	5	70	67	30-130	4.50	25
1,2,4-Trichlorobenzene	4.4	3.9	5	88	79	65-130	10.3	25
2,4,5-Trichlorophenol	0.22	0.19	0.25	87	76	65-130	13.9	25
2,4,6-Trichlorophenol	0.22	0.19	0.25	87	76	65-130	13.8	25

(Cont.)



Quality Control Report

Client: NRG Energy, LLC

Date Prepared: 02/03/2022

Date Analyzed: 02/03/2022

Instrument: GC47

Matrix: Water

Project: Marsh Landing DDSD Semi-Annual

WorkOrder: 2202148

BatchID: 238747

Extraction Method: E625.1

Analytical Method: E625.1

Unit: µg/L

Sample ID: MB/LCS/LCSD-238747

QC Summary Report for E625.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	3.6	3.9	5	73	78	30-130	6.82	25
Phenol-d5	3.9	4.1	5	78	83	20-130	5.51	25
Nitrobenzene-d5	4.2	4.0	5	84	81	60-130	3.94	25
2-Fluorobiphenyl	4.3	4.0	5	85	81	50-130	5.86	25
2,4,6-Tribromophenol	4.3	4.3	5	87	85	60-130	2.18	25
Terphenyl-d14	3.2	3.5	5	64	71	40-130	10.5	25



Quality Control Report

Client:	NRG Energy, LLC	WorkOrder:	2202148
Date Prepared:	02/10/2022	BatchID:	239187
Date Analyzed:	02/10/2022	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-239187

QC Summary Report for E350.1

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	3.9	4.0	4	97	99	88-113	2.96	20



Quality Control Report

Client:	NRG Energy, LLC	WorkOrder:	2202148
Date Prepared:	02/09/2022	BatchID:	239155
Date Analyzed:	02/09/2022	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-239155

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	39	39	40	98	99	80-120	0.509	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2202148

ClientCode: GOA

QuoteID: 212372

☐ WaterTrax☐ CLIP☐ EDF☐ EQulS☐ Dry-Weight☒ Email☐ HardCopy☐ ThirdParty☒ J-flag☐ Detection Summary☐ Excel

Report to:

David Frandsen
NRG Energy, LLC
3201 Wilbur Avenue
Antioch, CA 94509
(925) 427-3479 FAX: (925) 779-6679

Email: David.Frandsen@nrg.com
cc/3rd Party: joe.moura@nrg.com; james.robinson@nrg.
PO: 4501914176
Project: Marsh Landing DDSD Semi-Annual

Bill to:

Accounts Payable
NRG
4900 N. Scottsdale Road, Ste. 5000
Scottsdale, AZ 85251
invoices@clearwayenergy.coupahost.co

Requested TAT: 5 days;

Date Received: 02/02/2022

Date Logged: 02/02/2022

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2202148-001	FAC Combined Wastewater	Water	2/2/2022 15:30	☐	A	B	F	G	H	I	E	C	D	A		

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.



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1534 Willow Pass Road, Pittsburg, CA 94565-1701
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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: NRG ENERGY, LLC
Client Contact: David Frandsen
Contact's Email: David.Frandsen@nrg.com

Project: Marsh Landing DDSD Semi-Annual

Work Order: 2202148

QC Level: LEVEL 2

Date Logged: 2/2/2022

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

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	FAC Combined Wastewater	Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐
001B	FAC Combined Wastewater	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐
001C	FAC Combined Wastewater	Water	Kelada-01 (Cyanide, Total)	1	250mL aHDPE w/ NaOH	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☒
001D	FAC Combined Wastewater	Water	E420.4 (Phenolics)	1	250mL aG w/ H2SO4	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐
001E	FAC Combined Wastewater	Water	E350.1 (Ammonia)	1	250mL aG w/ H2SO4	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐
001F	FAC Combined Wastewater	Water	E608.3 (OC Pesticides+PCBs w/ Florisil Clean-up) <a-BHC_1, Aldrin_1, Aroclor1016_1, Aroclor1221_1, Aroclor1232_1, Aroclor1242_1, Aroclor1248_1, Aroclor1254_1, Aroclor1260_1, b-BHC_1, Chlordane (Technical)_1, d-BHC_1, Dieldrin_1, Endosulfan I_1, Endosulfan II_1, Endosulfan sulfate_1, Endrin aldehyde_1, Endrin_1, g-BHC_1, Heptachlor epoxide_1, Heptachlor_1, p,p-DDD_1, p,p-DDE_1, p,p-DDT_1, Toxaphene_1>	1	1LA Narrow Mouth, Unpres	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐

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.



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http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: NRG ENERGY, LLC
Client Contact: David Frandsen
Contact's Email: David.Frandsen@nrg.com

Project: Marsh Landing DDSD Semi-Annual

Work Order: 2202148

QC Level: LEVEL 2

Date Logged: 2/2/2022

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

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001G	FAC Combined Wastewater	Water	E624.1 (VOCs) <1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Bromodichloromethane, Bromoform, Bromomethane, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl chloride>	2	VOA w/ HCl	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐
001H	FAC Combined Wastewater	Water	E624.1 (ACRO, ACRY, & 2-CEVE)	2	VOA, Unpres	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐

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).

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WORK ORDER SUMMARY

Client Name: NRG ENERGY, LLC

Client Contact: David Frandsen

Contact's Email: David.Frandsen@nrg.com

Project: Marsh Landing DDSD Semi-Annual

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

Work Order: 2202148

QC Level: LEVEL 2

Date Logged: 2/2/2022

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001I	FAC Combined Wastewater	Water	E625.1 (SVOCs) <1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Nitrophenol, 3,3-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chlorophenyl Phenyl Ether, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Bis (2-chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-	1	1LA Narrow Mouth, Unpres	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	Trace	☐	☐

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.



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http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: NRG ENERGY, LLC
Client Contact: David Frandsen
Contact's Email: David.Frandsen@nrg.com

Project: Marsh Landing DDSD Semi-Annual

Work Order: 2202148

QC Level: LEVEL 2

Date Logged: 2/2/2022

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

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
			octyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodimethylamine, N-Nitrosodi-n-propylamine, N- Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene>											

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.

2202148

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: McC Campbell Analytical, Inc. Attention: Address: 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Phone/Fax: 925.252.9262/ 925.252.9269							Company: Marsh Landing LLC Attention: Accounts Payable Address: invoices@clearwayenergy.com P.O. No.: 4501914176		Plant: Marsh Landing Title: DDSD Phase: Semi-Annual Manager: David Frandsen				Oil and Grease (animal/vegetable) ¹ (EPA Method 1664A)				Oil and Grease (Petroleum/Mineral) ² (EPA Method 1664A)	
SAMPLE INFORMATION							CONTAINER INFORMATION											
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Description	Number	Type	Volume (each, L)	Preserv.							
ML-22-022	2-Feb-22	1530	DDSD	Semi-Annual	Wastewater	Grab	FAC Combined Wastewater	1	Amber Glass Jar	1	Hydrochloric Acid (pH<2, 4°C)	X						
ML-22-023	2-Feb-22	1530	DDSD	Semi-Annual	Wastewater	Grab	FAC Combined Wastewater	1	Amber Glass Jar	1	Hydrochloric Acid (pH<2, 4°C)		X					
HOLDING TIME:												28 days	28 days					
REPORTING			LABORATORY NOTES RE: SAMPLE RECEIPT/CONDITION					DIRECTIONS FOR LABORATORY										
Original to: David Frandsen Title: Environmental Specialist/Engineer Address: P.O. Box 1687 Antioch, CA 94509 Phone/Fax: 925.324-3533/6509 E-mail: david.frandsen@nrg.com E-mail CC: james.robinson@nrg.com E-mail CC: joe.moura@nrg.com								STANDARD TAT (5-day). Establish calibration standards so Minimum Level (ML) value is the lowest calibration standard, the lowest quantifiable concentration or Reporting Limit (RL). Report "Detected, but Not Quantified" (DNQ) with estimated J flagged concentrations below the RL and include method detection limits (MDLs) in report. 1. Animal/Vegetable O/G 2. Petroleum/Mineral O/G Please report all results with the units of mg/L. RESULTS AND PRICING PER QUOTE ID: 212372. *Include sample description with client sample number ID.										
PRINTED NAME			SIGNATURE			COMPANY			DATE			TIME						
Sampled by: James E. Robinson.			<i>James E. Robinson</i>			NRG Energy Services			2-Feb-22			1530						
Relinquished by: James E. Robinson.			<i>James E. Robinson</i>			NRG Energy Services			2-Feb-22			1750						
Received by: <i>Lilly Drake</i>			<i>Lilly Drake</i>			McC Campbell Analytical, Inc.			2-Feb-22			1750						
Relinquished by:																		
Received by:																		
Relinquished by:																		
Received by:																		

5.5°C wet

2202148

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

SAMPLES SUBMITTED TO							SEND INVOICE TO		PROJECT				ANALYSIS REQUEST		
Laboratory: McCampbell Analytical, Inc. Attention: Address: 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Phone/Fax: 925.252.9262/ 925.252.9269							Company: Marsh Landing LLC Attention: Accounts Payable Address: invoices@clearwayenergy.com P.O. No.: 4501914176		Plant: Marsh Landing Title: DDSD Phase: Semi-Annual Manager: David Frandsen				Cyanide ¹ (Kelada-01)	Phenols (EPA Method 420.4)	Ammonia as N (EPA Method 350.1)
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Description	Number	Type	Volume (each, mL)	Preserv.				
ML-22-024	2-Feb-22	1530	DDSD	Semi-Annual	Wastewater	Grab	FAC Combined Wastewater	1	HDPE Bottle	250	HNO ₃ (pH<2)	X			
ML-22-025	2-Feb-22	1530	DDSD	Semi-Annual	Wastewater	Grab	FAC Combined Wastewater	1	Amber Glass Jar	500	H ₂ SO ₄ (pH<2, 4°C)		X		
ML-22-026	2-Feb-22	1530	DDSD	Semi-Annual	Wastewater	C-24	FAC Combined Wastewater	1	Amber Glass Jar	500	H ₂ SO ₄ (pH<2, 4°C)			X	
												HOLDING TIME:	14 days	28 days	28 days
REPORTING			LABORATORY NOTES RE: SAMPLE RECEIPT/CONDITION					DIRECTIONS FOR LABORATORY							
Original to: David Frandsen Title: Environmental Specialist/Engineer Address: P.O. Box 1687 Antioch, CA 94509 Phone/Fax: 925.324-3533/6509 E-mail: david.frandsen@nrg.com E-mail CC: james.robinson@nrg.com E-mail CC: joe.moura@nrg.com			Cyanide sample pretreated with sodium thiosulfate prior to preservation with sodium hydroxide.					STANDARD TAT (5-day). Establish calibration standards so Minimum Level (ML) value is the lowest calibration standard, the lowest quantifiable concentration or Reporting Limit (RL). Report "Detected, but Not Quantified" (DNQ) with estimated J-flagged concentrations below the RL and include method detection limits (MDLs) in report. 1. Cyanide sample was pretreated with sodium thiosulfate prior to preservation with sodium hydroxide. Please report all results with the units of mg/L. RESULTS AND PRICING PER QUOTE ID: 212372. *Include sample description with client sample number ID.							
PRINTED NAME			SIGNATURE			COMPANY			DATE			TIME			
Sampled by: James E. Robinson.			<i>James E. Robinson</i>			NRG Energy Services			2-Feb-22			1530			
Relinquished by: James E. Robinson.			<i>James E. Robinson</i>			NRG Energy Services			2-Feb-22			1750			
Received by: <i>Lilly Ortiz</i>			<i>Lilly Ortiz</i>			McCampbell Analytical, Inc.			2-Feb-22			1750			
Relinquished by:															
Received by:															
Relinquished by:															
Received by:															

2202146

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

SAMPLES SUBMITTED TO							SEND INVOICE TO		PROJECT				ANALYSIS REQUEST			
Laboratory: McCampbell Analytical, Inc. Attention: 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Address: 925.252.9262/ 925.252.9269 Phone/Fax:							Company: Marsh Landing LLC Attention: Accounts Payable Address: mvosies@marshlandenergy.com P.O. No.: 4501914176		Plant: Marsh Landing Title: DDSO Phase: Semi-Annual Manager: David Frandsen				Pesticides & PCBs (EPA Method 608) Volatile Organics (EPA Method 824) Volatile Organics (EPA Method 824) Semi-Volatile Organics (EPA Method 825)			
SAMPLE INFORMATION							CONTAINER INFORMATION									
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Description	Number	Type	Volume (each, mL)	Preserv.	Pesticides & PCBs (EPA Method 608)	Volatile Organics (EPA Method 824)	Volatile Organics (EPA Method 824)	Semi-Volatile Organics (EPA Method 825)	
ML-22-027	2-Feb-22	1530	DDSD	Semi-Annual	Water	Grab	FAC Combined Wastewater	1	Amber Glass	1,000	None (4°C)	X				
ML-22-028	2-Feb-22	1530	DDSD	Semi-Annual	Water	Grab	FAC Combined Wastewater	2	Clear VOA	43	HCL (ZHS, pH<2, 4°C)		X			
ML-22-029	2-Feb-22	1530	DDSD	Semi-Annual	Water	Grab	FAC Combined Wastewater	2	Clear VOA	43	None (4°C)			X		
ML-22-030	2-Feb-22	1530	DDSD	Semi-Annual	Water	Grab	FAC Combined Wastewater	1	Amber Glass	1,000	None (4°C)				X	
* For composite samples, the completion time of the 24-hr composite or the time of the final sample aliquot is considered the "sample collection time" for the purpose of determining sample holding time.												HOLDING TIME: 40 days 14 days 3 days 40 days				
REPORTING			LABORATORY NOTES RE: SAMPLE RECEIPT/CONDITION					DIRECTIONS FOR LABORATORY								
Original to: David Frandsen Title: Environmental Specialist/Engineer Address: P.O. Box 1687 Antioch, CA 94509 Phone/Fax: 925.324-3533/6509 E-mail: david.frandsen@nrg.com E-mail CC: james.robinson@nrg.com E-mail CC: joe.moura@nrg.com								Standard TAT (5-DAYS). Establish calibration standards so Minimum Level (ML) value is the lowest calibration standard, the lowest quantifiable concentration or Reporting Limit (RL). Report "Detected, but Not Quantified" (DNQ) with estimated J-flagged concentrations below the RL and include method detection limits (MDLs) in report. 1. VOCs- Acrolein, acrylonitrile, and 2cleave Please report all results with the units of mg/L. RESULTS AND PRICING PER QUOTE ID: 212372 *Include sample description with client sample number ID.								
PRINTED NAME			SIGNATURE		COMPANY		DATE		TIME							
Sampled by			James E. Robinson.		James E. Robinson.		NRG Energy Services		2-Feb-22 1530							
Relinquished by			James E. Robinson.		James E. Robinson.		NRG Energy Services		2-Feb-22 1750							
Received by			Lilly Ocker		Lilly Ocker		McCampbell Analytical, Inc.		2-Feb-22 1750							
Relinquished by																
Received by																
Relinquished by																
Received by																



Sample Receipt Checklist

Client Name: **NRG Energy, LLC**
Project: **Marsh Landing DDSD Semi-Annual**
WorkOrder No: **2202148** Matrix: Water
Carrier: Client Drop-In

Date and Time Received: **2/2/2022 17:50**
Date Logged: **2/2/2022**
Received by: **Lilly Ortiz**
Logged by: **Cassandra Gallegos**

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☒	No ☐	NA ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 5.5°C		NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☒	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☒	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐	No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐	No ☐	NA ☒

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2202155

Report Created for: NRG Energy, LLC

3201 Wilbur Avenue
Antioch, CA 94509

Project Contact: David Frandsen

Project P.O.: 4501914176

Project: Marsh Landing DDSD Annual

Project Received: 02/02/2022

Analytical Report reviewed & approved for release on 02/08/2022 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.





Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2202155

Project: Marsh Landing DDSD 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)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Glossary of Terms & Qualifier Definitions

Client: NRG Energy, LLC

WorkOrder: 2202155

Project: Marsh Landing DDSD Annual

Analytical Qualifiers

S	Surrogate recovery outside accepted recovery limits.
c1	Surrogate recovery outside of the control limits due to the dilution of the sample.



Analytical Report

Client: NRG Energy, LLC
Date Received: 02/02/2022 17:50
Date Prepared: 02/04/2022
Project: Marsh Landing DDSD Annual

WorkOrder: 2202155
Extraction Method: E300.1
Analytical Method: E300.1
Unit: mg/L

Inorganic Anions by IC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FAC Combined Wastewater	2202155-001B	Water	02/02/2022 15:30	IC4 02072226.D	238719

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Sulfate	60	2.8	5.0	50	02/04/2022 07:33

<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Malonate	0	S	90-115	02/04/2022 07:33

Analyst(s): AO Analytical Comments: c1



Analytical Report

Client: NRG Energy, LLC

Date Received: 02/02/2022 17:50

Date Prepared: 02/06/2022

Project: Marsh Landing DDSD Annual

WorkOrder: 2202155

Extraction Method: SM4500-S⁻² D-2000

Analytical Method: SM4500 S⁻² D

Unit: mg/L

Total Sulfide - S

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FAC Combined Wastewater	2202155-001A	Water	02/02/2022 15:30	SPECTROPHOTOMETER2	238725

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Sulfide	ND	0.042	0.10	1	02/06/2022 15:00

Analyst(s): NYG



Quality Control Report

Client: NRG Energy, LLC

Date Prepared: 02/03/2022

Date Analyzed: 02/03/2022

Instrument: IC4

Matrix: Water

Project: Marsh Landing DDSD Annual

WorkOrder: 2202155

BatchID: 238719

Extraction Method: E300.1

Analytical Method: E300.1

Unit: mg/L

Sample ID: MB/LCS/LCSD-238719

QC Summary Report for E300.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Sulfate	ND	0.057	0.10	-	-	-

Surrogate Recovery

Malonate	0.11			0.1	109	90-115
----------	------	--	--	-----	-----	--------

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Sulfate	1.0	1.0	1	104	105	85-115	0.659	20

Surrogate Recovery

Malonate	0.11	0.10	0.10	107	105	90-115	1.85	20
----------	------	------	------	-----	-----	--------	------	----



Quality Control Report

Client: NRG Energy, LLC

Date Prepared: 02/03/2022

Date Analyzed: 02/03/2022

Instrument: SPECTROPHOTOMETER2

Matrix: Water

Project: Marsh Landing DDSD Annual

WorkOrder: 2202155

BatchID: 238725

Extraction Method: SM4500-S⁻² D-2000

Analytical Method: SM4500 S⁻² D

Unit: mg/L

Sample ID: MB/LCS/LCSD-238725

QC Summary Report For SM4500 S-2D

Analyte	MB Result	MDL	RL			
Total Sulfide	ND	0.042	0.10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Sulfide	0.55	0.55	0.50	110	110	80-120	0	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2202155

ClientCode: GOA

QuoteID: 212372

☐ WaterTrax☐ CLIP☐ EDF☐ EQulS☐ Dry-Weight☒ Email☐ HardCopy☐ ThirdParty☒ J-flag☐ Detection Summary☐ Excel

Report to:

David Frandsen
NRG Energy, LLC
3201 Wilbur Avenue
Antioch, CA 94509
(925) 427-3479 FAX: (925) 779-6679

Email: David.Frandsen@nrg.com
cc/3rd Party: joe.moura@nrg.com; james.robinson@nrg.
PO: 4501914176
Project: Marsh Landing DDSD Annual

Bill to:

Accounts Payable
NRG
4900 N. Scottsdale Road, Ste. 5000
Scottsdale, AZ 85251
invoices@clearwayenergy.coupahost.co

Requested TAT: 5 days;

Date Received: 02/02/2022

Date Logged: 02/02/2022

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2202155-001	FAC Combined Wastewater	Water	2/2/2022 15:30	☐	B	A	A									

Test Legend:

1	300_1_W
5	
9	

2	PRDisposal Fee
6	
10	

3	SULFIDE_W
7	
11	

4	
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.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: NRG ENERGY, LLC
Client Contact: David Frandsen
Contact's Email: David.Frandsen@nrg.com

Project: Marsh Landing DDSD Annual

Work Order: 2202155

QC Level: LEVEL 2

Date Logged: 2/2/2022

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

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	FAC Combined Wastewater	Water	SM4500S2D (Total Sulfide)	1	250mL HDPE w/ NaOH	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	None	☐	☐
001B	FAC Combined Wastewater	Water	E300.1 (Inorganic Anions) <Sulfate>	1	125mL HDPE, unprsv.	☐	☐	☐	2/2/2022 15:30	5 days	2/9/2022	None	☐	☐

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

- 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.

2202155

Chain of Custody

Page 1 of 1-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. Attention: Address: 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Phone/Fax: 925.252.9262/ 925.252.9269							Company: Marsh Landing LLC Attention: Accounts Payable Address: invoices@clearwayenergy.com P.O. No.: 4501914176		Plant: Marsh Landing Title: DDSD Phase: Annual Manager: David Frandsen				Sulfide (E376.2)	Sulfate (E300.1)		
Sample Number	Sample Date	Sample Collection Time	Regulatory Driver	Regulatory Frequency	Sample Medium	Sample Type	Sample Description	Number	Type	Volume (each, mL)	Preserv.					
ML-22-031	2-Feb-22	1530	DDSD	Annual	Wastewater	Grab	FAC Combined Wastewater	1	HDPE Bottle	250	NaOH & ZnAc (ZHS, 4°C)	X	X			
ML-22-032	2-Feb-22	1530	DDSD	Annual	Wastewater	Grab	FAC Combined Wastewater	1	HDPE Bottle	250	Unpreserved (4°C)	X	X			
HOLDING TIME:												7 days	28 days			
REPORTING			LABORATORY NOTES RE: SAMPLE RECEIPT/CONDITION					DIRECTIONS FOR LABORATORY								
Original to: David Frandsen Title: Environmental Specialist/Engineer Address: P.O. Box 1687 Antioch, CA 94509 Phone/Fax: 925.324.3533/6509 E-mail: david.frandsen@nrg.com E-mail CC: james.robinson@nrg.com E-mail CC: joe.moura@nrg.com								STANDARD TAT (5-day). Establish calibration standards so Minimum Level (ML) value is the lowest calibration standard, the lowest quantifiable concentration or Reporting Limit (RL). Report "Detected, but Not Quantified" (DNQ) with estimated J-flagged concentrations below the RL and include method detection limits (MDLs) in report. Please report all results with the units of mg/L. RESULTS AND PRICING PER QUOTE ID: 212372. *Include sample description with client sample number ID.								
PRINTED NAME			SIGNATURE					COMPANY		DATE		TIME				
Sampled by: James E. Robinson.			<i>James E. Robinson</i>					NRG Energy Services		2-Feb-22		1530				
Relinquished by: James E. Robinson.			<i>James E. Robinson</i>					NRG Energy Services		2-Feb-22		1750				
Received by: <i>Lilly O'Neil</i>			<i>Lilly O'Neil</i>					McCampbell Analytical, Inc.		2-Feb-22		1750				
Relinquished by:																
Received by:																
Relinquished by:																
Received by:																

5.5°C wet



Sample Receipt Checklist

Client Name: **NRG Energy, LLC**
Project: **Marsh Landing DDSD Annual**

Date and Time Received: **2/2/2022 17:50**
Date Logged: **2/2/2022**
Received by: **Lilly Ortiz**
Logged by: **Cassandra Gallegos**

WorkOrder No: **2202155** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☒	No ☐	NA ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 5.5°C		NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐	No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐	No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐	No ☐	NA ☒

Comments:

CALIBRATION DATA RECORD

CUSTOMER Clearway Marsh Landing LLC	PROJECT March 2022 Shutdown
INST. I.D. 0-FT-950002	MANUF. Rosemount
SERVICE Sanitary and Process Wastewater	
MODEL NO: 8732EST2AIN0M4C1Q4	SERIAL NO: 337659
INPUT: 0-80 GAL/MIN	OUTPUT: 4-20 madc
CAL DATA: Tube Cal # 0926 1052 0923 6005	INST. TYPE: magmeter 3"
SENSOR DATA: 0-FE-950002	S/N 0218078
	LOCATION: next to office

TEST EQUIPMENT	MODEL	S/N	NIST TEST
Flowtube Simulator	Rosemount 8714D	326886	190403
Process calibrator	Fluke 754	2792003	27197

INPUT		OUTPUT RESULTS		
%	VALUE	DESIRED	AS FOUND	AS LEFT
0	0 Ft/sec	4 madc	4.000	4.000
10	3 Ft/sec	5.6 madc	5.600	5.600
33.3	10 Ft/sec	9.33 madc	9.334	9.334
100	30 Ft/sec	20 madc	20.002	20.002

ISOLATION VALVE POSITION	AS FOUND: N/A	AS LEFT: N/A
REMARKS: Tube Cal Number 0926105209236005		
Units = GAL/MIN		
LRV = 0		
URV = 80		
Freq = 5 HZ		
Calibration Tube Settings 1000015010000000 Calibration Units of measure = Ft/S Cal Analog Output Range: 20mA = 30.00 ft/sec Cal Analog Output Zero: 4mA = 0 ft/sec Cal Freq = 5 HZ		

Reset to customer configuration

PERFORMED BY D Farley	DATE: 3/18/22
VERIFIED BY	DATE: 3/22/22

3D Technical Services, Inc.
Clayton, California
(925) 691-5543



Stratatek Test & Measurement
101 Amber St. Unit 18-20
Markham, ON
L3R 3B2 Canada
Phone: 905-406-0100
info@stratatek.com

Certificate of Traceable Calibration

Documented for:

Stratatek T&M
101 Amber St. Unit 18-20
Markham, ON
L3R 3B2 Canada

Certificate Serial Number: 27197 Job Name ID: 7297 Customer Asset Number: N/A	Instrument: Documenting Process Calibrator Manufacturer: Fluke Model/Cat. Number: 754 Serial Number: 2792003
Condition as Received Date: February 08, 2022 ☒ In Good Condition ☐ Defective ☐ Physically Damaged	Returned ☒ Without Adjustment ☐ Repaired ☐ With Adjustment ☐ Other ☐ With Restrictions (limited)
Calibration Date: February 08, 2022 Calibration Due Date: February 08, 2023	Temperature: (21 +/- 2)°C Relative Humidity: (35 +/- 10)%

PASSED. No Adjustment Required.

This document certifies that the above instrument has been calibrated with measurement uncertainties expressed or implied estimated at a 95% level of confidence assuming a normal distribution with a coverage factor of $k=2$ sigma. It has been calibrated using standards whose accuracy are metrologically traceable to the International System of Units through either the National Institute of Standards and Technology (NIST) or NRC Canada (NRCC) and/or have been derived from accepted values of natural physical constants or derived by the ratio type of self-calibration techniques.

NIST/NRCC Traceable Standards

Asset 600220 Type Multimeter, Agilent 3458A-002 (4 ppm)
Asset 600212 Type Calibrator, Fluke 5500A-SC
Asset 600010 Type Decade Resistor, ROCT P4077
Asset 600025 Type Decade Resistor, ROCT P40105
Asset 600027 Type Decade Resistor, Gen. Rad. 1432-N
Asset 600151 Type Decade Resistor, Gen. Rad. 1432-T
Asset 600188 Type Temp. Reference, Batemika B03A

Cert. 1-14466413147-1 Next Cal. June 01, 2022
Cert. 26862 Next Cal. May. 14, 2022
Cert. 27478 Next Cal. Jun. 07, 2022
Cert. 27479 Next Cal. Jun. 07, 2022
Cert. 27480 Next Cal. Jun. 07, 2022
Cert. 27481 Next Cal. Jun. 07, 2022
Cert. 27106 Next Cal. Nov 24, 2022

Calibrated by: 

Date Issued: February 08, 2022

Daniel Webster, Calibration Technician

QA Procedure: STR_CAL_21

Test Procedure: 754

Stratatek Test & Measurement is the registered trade name of Stratatek Investing Inc.

Limited Liability

Stratatek Test & Measurement, Toronto, ON. 905-406-0100

The Calibration of this unit is guaranteed to be within product specifications when the unit leaves Stratatek Investing Inc. service center. Stratatek Test & Measurement will not assume any liability incurred during use of this unit should it lose calibration for any reason.



Certificate of Calibration



Intertek

#US4461c

Customer: 3d Technical Services

Contact: Dan Farley

Address: 2270 Curry Canyon Rd. Clayton, Ca 94517

Instrument Identification

System ID: 1051933

Serial #: 0326886

Tool #: NA

Property #: NA

Manufacturer: ROSEMOUNT INC.

Model #: 8714D

Range: (4 to 20) mA DC; (0 to 30) ft/s

Description: SIMULATOR, MAGNETIC FLOW METER

Test Results

Serviced Performed: Calibration

Service Technician: Keith S Lam

Cal Date: 03/09/2022

Cal. Due Date: 03/09/2023

Location of Cal: In-house

Laboratory: Standard Meter Lab

Address: 236 Rickenbacker Cir, Livermore, CA 94551

As Found Result: In Tolerance

As Left Result: In Tolerance

Environmental Conditions: 72.1 °F / 26.8% RH

Instruction Used: MAN-8714D

Technical Remarks

Condition

Received in new condition.

Analysis

Verified accuracy in accordance with the listed calibration instructions.

Calibration Standards

I.D.	Manufacturer	Model Number	Description	Cal. Due Date	NIST #
1000069	FLUKE ELECTRONICS	189	MULTIMETER, TRUE RMS, LOGGING	7/29/2022	180516

Calibrations are performed using standards traceable to NIST. Our calibration system complies with ISO/IEC 17025:2017. This information applies only to the instrument identified above and may not be reproduced, except in full, without prior written consent. The presence of the Intertek logo designates our quality management system is certified to ISO 9001:2015. Reported uncertainties are expressed as expanded values at approximately the 95.45% confidence level using a coverage factor of K=2. There is no implied warranty that the instrument will maintain its specified tolerances during the calibration interval due to possible drift, environment or other factors beyond our control.

Approval Person: Diane P Smith

General Manager Signature: *Diane P Smith*

Date: 03/09/2022