DOCKETED	
Docket Number:	99-AFC-08C
Project Title:	Blythe Energy Project Compliance & Blythe Transmission Line Modification
TN #:	258565
Document Title:	Blythe Energy Project - ACR, Part 1
Description:	Blythe Solar Project- 2023-2024 Annual Compliance Report, Part 1
Filer:	Ashley Gutierrez
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	8/19/2024 3:03:59 PM
Docketed Date:	8/19/2024



Annual Compliance Report Year 2023/2024 BE-GEN-07112010

David Gutierrez IV | Senior Manager, Operations & Maintenance AltaGas | Blythe Energy Inc. 760.921.1359 desk | 760.899.0565 mobile 385 North Buck Blvd Blythe, California 92225 760.921.1359

Email: david.gutierrez@altagas.ca

Ashley Gutierrez | Compliance Project Manager
California Energy Commission
Siting, Transmission, and Environmental Protection Division (STEP)
Safety and Reliability Branch
Compliance Monitoring and Enforcement Unit
715 P Street, MS-2000, Sacramento, CA 95814

Work/Cell: (916) 839-0400

Email: ashley.gutierrez@energy.ca.gov

Ashley Gutierrez,

Pursuant to the Commission Decision for the Blythe Energy Inc., enclosed please find the Annual Compliance Report for the reporting period July 1, 2023, through June 30, 2024.

REQUIRED DOCUMENTATION FOR ANNUAL COMPLIANCE REPORT

The items listed below correspond to required contents to be discussed in the annual compliance report and any required documentation is attached to this submittal.

Requirement #1: An updated compliance matrix which shows the status of all conditions of certification (fully satisfied and/or closed conditions do not need to be included in the matrix after they have been reported as closed);

Response: An updated compliance matrix containing the current status of all Conditions of Certification is attached.

Requirement #2: Summary of the current project operating status and an explanation of any significant changes to facility operations during the year;

Response: The Facility has had no significant changes with respect to Facility operations during the reporting period. The Facility total service hours were 5,189.67 from July 1, 2023, through June 30, 2024, with an availability factor of 83.75%. A summary of operating status for the prior year is shown in the table below.

MONTHLY PRODUCTION (MWh)

<u>Plant</u>	<u>Year</u>	<u>Month</u>	Gross Production (MWh)	Net Production (MWh)
Blythe	2022	Jul	188,101.00	178,922.00
Blythe	2022	Aug	235,081.00	224,113.00
Blythe	2022	Sep	131,792.00	125,476.00
Blythe	2022	Oct	186,546.00	178,946.00
Blythe	2022	Nov	157,087.00	151,291.00
Blythe	2022	Dec	142,372.00	137,154.00
Blythe	2023	Jan	72,410.00	70,158.00
Blythe	2023	Feb	0	0
Blythe	2023	Mar	14,777.00	14,194.00
Blythe	2023	Apr	94,677.00	90,923.00
Blythe	2023	May	36,209.00	34,674.00
Blythe	2023	Jun	41,215.00	39,523.00

MODIFICATIONS AND TESTING

The Facility completed CT12 Hot Gas Path and CT11 Combustion Inspection and ST10 Medium outages during January 22nd through March 14, 2024.

Outage projects consisted of the following

- CT 11 Minor Combustion Inspection
- CT 12 HGP Hot Gas Path
- ST Medium w/ replacement of TE and GE LP L-0 turbine blades
- BOP misc. projects, valves, pumps, motors, etc.
- CO catalyst and AIG cleaning
- SCR catalyst replacement
- Chiller system was thoroughly inspected and overhauled
- 10/11/12 Replace Obsolete Protection Relays Multi-year project
- Information Technology Upgrades
- Water Treatment Brine Concentrator routine annual maintenance

The facility conducted RATA / Compliance stack testing for on November 7 and 9, 2023. Results indicate all conditions were met; reports were submitted on December 26, 2023.

ENVIRONMENTAL HEALTH AND SAFETY

Facility staff worked 44,842 hours.

Blythe Energy is an approved Cal OSHA VPP facility. The site identifies opportunities for continuous improvement through the VPP program, examining safety policies, programs, procedures, and best practices.

Requirement #3: Documents required by specific conditions to be submitted along with the Annual Compliance Report. Each of these items must be identified in the transmittal letter, and should be submitted as attachments to the Annual Compliance Report;

Response: Required documents are submitted as attachments and are identified in the transmittal letter above.

Requirement #4: A cumulative listing of all post-certification changes approved by the Energy Commission or cleared by the CPM;

Response: None this reporting period.

Requirement #5: An explanation for any submittal deadlines that were missed, accompanied by an estimate of when the information will be provided;

Response: The 2023Q4 Quarterly Emissions Monitoring Report was submitted late. An attempt was made to submit the report prior to the 1/30/24 deadline; however, unbeknownst to Blythe, it was not transmitted due to an unexpected email related issue. MDAQMD notified Blythe that the report was not received in correspondence dated 2/26/24 and Blythe promptly submitted the report on 3/1/24.

Requirement #6: A listing of filings made to, or permits issued by, other governmental agencies during the year;

Response: The Mojave Desert Air Quality Management District (MDAQMD) issued an updated Title V Operating Permit (#130202262) on November 1st, 2023 and is attached to this submittal.

Requirement #7: A projection of project compliance activities scheduled during the next year;

Response: A projection of compliance activities anticipate to be to be conducted during the next year (i.e. July 2024 – June 2025) include the following summarized in the table below.

	Activities	Resources/Comments	Update
1	First Aid/AED Training	Training conducted in September 2023	Annual/ Next September 2024
2	Ammonia Safety training	Training for the operations and Maintenance team	3-year compliance training completed Aug 2021; Next Training is scheduled for Aug 2024
3	PSM/RMP Aqueous Ammonia 3- year compliance audits	Last 3-year audit is performed on 06/2024	Next 3-year audit is scheduled with ECE consulting on 06/2027

4	PSM/RMP Aqueous Ammonia 3- year compliance audits	Last 3-year audit is performed on 06/2024	Next 3-year audit is scheduled with ECE consulting on 06/2027
5	RATA and Compliance Testing	Montrose: November 2023	Annual event
6	Biological Monitoring Program	Submitted to: California Energy Commission.	Annual event
7	Semi-Annual Water Monitoring Report	Submitted to California Regional Water Quality Board	Semi-Annual and Annual

Requirement #8: a listing of the year s additions to the on-site compliance file, and

Response: No new additions

Requirement #9: An evaluation of the on-site contingency plan for unexpected facility closure, including any suggestions necessary for bringing the plan up to date [see General Conditions for Facility Closure addressed later in this section].

Response: The on-site contingency plan has been reviewed and administrative updates are being made to bring the plan up to date.

Requirement #10: a listing of complaints, notices of violation, official warnings, and citations received during the year; a description of the resolution of any complaints which have been resolved, and the status of any unresolved complaints.

Response: During the reporting period Blythe Energy Inc. received one Notice of Violation (NOV) for the late submittal of the 2023Q4 Emissions Monitoring Report as discussed above and found in the attached document.

Blythe Energy Inc.

Mike Ludwin Mike. Ludwin@altagas.ca

Sr. Director Operations - Power, Blythe Energy Inc.

Blythe Energy Inc. (CERSID: 10321807)

Facility Information Submitted Feb 18, 2024

Submitted on 2/18/2024 11:22:36 AM by Jake Tilley of Blythe Energy Inc. (Blythe, CA.)

- · Business Activities
- · Business Owner/Operator Identification

Hazardous Materials Inventory Submitted Feb 18, 2024

Submitted on 2/18/2024 11:22:36 AM by Jake Tilley of Blythe Energy Inc. (Blythe, CA.)

- Hazardous Material Inventory (38)
- Site Map (Official Use Only)
 - Facility Location Map (Adobe PDF, 251KB)
 - Annotated Site Map (Official Use Only) (Adobe PDF, 1300KB)

Emergency Response and Training Plans Submitted Feb 18, 2024

Submitted on 2/18/2024 11:22:36 AM by Jake Tilley of Blythe Energy Inc. (Blythe, CA.)

- Emergency Response/Contingency Plan
 - Emergency Response/Contingency Plan (Adobe PDF, 822KB)
- Employee Training Plan
 - Provided In Submital Element: Emergency Response and Training Plans

Aboveground Petroleum Storage Act Submitted Feb 18, 2024

Submitted on 2/18/2024 11:22:36 AM by Jake Tilley of Blythe Energy Inc. (Blythe, CA.)

- Aboveground Petroleum Storage Act Documentation
 - Petroleum Storage Tank Locations (detail map) (Adobe PDF, 459KB)
 - · Aboveground Petroleum Storage Act Documentation (Adobe PDF, 199KB)
- APSA Facility Information

California Environmental Reporting System (CERS)

Business Activities

Site Identification

Blythe Energy Inc.

385 N Buck Blvd Blythe, CA 92225

County Riverside CERS ID 10321807

EPA ID Number CAL000364934

Submittal Status

Submitted on 2/18/2024 by Jake Tilley of Blythe Energy Inc. (Blythe, CA.)

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?

Yes

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?

No

Hazardous Waste

Yes

Does your facility treat hazardous waste on-site?

Is your facility a Hazardous Waste Generator?

No

Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?

No No

Does your facility consolidate hazardous waste generated at a remote site?

No

Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month greater than 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate more than 100 kg (220 pounds) of spill

No

cleanup materials contaminated with RCRA acute hazardous waste.

Is your facility a Household Hazardous Waste (HHW) Collection site?

No

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?

Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?

No

Aboveground Petroleum Storage

Does your facility own or operate aboveground petroleum storage tanks or containers AND:

st have a total aboveground petroleum storage capacity of 1,320 gallons or more, OR

Yes

* have one or more petroleum tanks in an underground area?

Regulated Substances

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?

Yes

Additional Information

No additional comments provided.

California Environmental Reporting System (CERS)

Business Owner Operator

Facility/Site

Blythe Energy Inc.

385 N Buck Blvd Blythe, CA 92225 CERS ID 10321807

Submittal Status

Submitted on 2/18/2024 by Jake Tilley of Blythe Energy Inc. (Blythe, CA.)

Identification

Blythe Energy Inc.

Operator Phone (760) 921-1359 Business Phone (760) 922-9950

Business Fax (760) 922-6475 Beginning Date 2/29/2024

058599884

Ending Date 3/1/2025

2/29/2024 3 Dun & Bradstreet 5

SIC Code 4911 Primary NAICS

221112

Facility/Site Mailing Address

385 N. Buck Blvd. Blythe, CA 92225 Primary Emergency Contact

Mike Ludwin

Title

Senior Director Operations - Power

Business Phone 24-Hour Phone

(760) 921-1360

(760) 600-2103

Pager Number

Owner

AltaGas Ltd (760) 922-9950 385 N. Buck Blvd. Blythe, CA 92225 Secondary Emergency Contact

David Gutierrez

Title

Senior Manager, Operations & Maintenance

Business Phone (760) 921-1359 24-Hour Phone (760) 899-0565

Pager Number

Billing Contact

Kris Kramer

(760) 989-9327 385 N. Buck Blvd. Blythe, CA 92225 kris.kramer@altagas.ca

Environmental Contact

David Gutierrez

(760) 921-1359

david.gutierrez@altagas.ca

385 N. Buck Blvd. Blythe, CA 92225

Name of Signer

David Gutierrez

Signer Title

Document Preparer

Senior Manager, Operations & Maintenance

Jake Tilley

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

AltaGas Ltd

Phone

(760) 922-9950 Mailing Address

385 N. Buck Blvd.

Blythe, CA 92225

Assessor Parcel Number (APN)

824-101-021

Number of Employees

22

Facility ID

FA0023213

			Hazardo	us Materials /	And Wastes	Inventory	y Matrix	Report			
Facility Name	Blythe Ene Blythe Ene 385 N Buck B	- -	Chemical Location BOP Chemical Treatment Area						CERS ID Facility ID Status	8/2024 11:22 AM	
DOT Code/Fire Haz. Cla	ass	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 8 - Corrosives (i Solids) Corrosive		Sodium Hypochlorite Solution CAS No 7681-52-9	Liquid Type	6000 Storage Container Aboveground Tank metalic Drum, Toto Days on Site: 365	6000 k, Plastic/Non-	A000 Pressue Ambient Temperature Ambient	Waste Code	- Physical Corrosive To	SODIUM HYPOCHLORI SOLUTION Water	TE 12% 85%	7681-52-9 7732-18-5
DOT: 8 - Corrosives (i Solids) Corrosive, Water Rea 2, Toxic, Oxidizing, Cl	active, Class	Sulfuric Acid CAS NO 7664-93-9	Liquid Type	91800 Storage Container Aboveground Tank Days on Site: 365	91800	61200 Pressue Ambient Temperature Ambient	Waste Code	- Physical Corrosive To Metal - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Water	7%	7332-18-5

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			Hazardo	ous Materials <i>i</i>			/ Watrix	Report			
	Blythe Ene	= -			Chemical Loca				CERS ID	10321807	
acility Name	Blythe Ene	ergy Inc.		Chiller Area					Facility ID	FA0023213	
3	885 N Buck B	lvd, Blythe 92225							Status	Submitted on 2/1	.8/2024 11:22 AM
					Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	ts
DOT Code/Fire Haz. Cla	SS	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (I Solids) Corrosive	Liquids and	Stabrex ST70 CAS No See Below	Liquid Type	Storage Container Tote Bin Days on Site: 365	400	300 Pressue Ambient Temperature Ambient	Waste Code	- Physical Corrosive To Metal - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye	Sodium Hypochlorite Sodium Bromide Sodium Hydroxide	6% 9% 5%	7681-52-9 7647-15-6 1310-73-2

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CERS Business/Org. Facility Name	Blythe Ene Blythe Ene 385 N Buck B		Chemical Location Chiller Area, BOP Chemical Treatment Area					CERS ID 10321807 Facility ID FA0023213 Status Submitted on 2/18/2024 11::			
OOT Code/Fire Haz. O	lass	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Components (For mixture only) % Wt	EHS CAS No.
OOT: 8 - Corrosives iolids) Corrosive	(Liquids and	SEE DELOW	Liquid Type	800 Storage Container Aboveground Tan metalic Drum, Tot Days on Site: 365		600 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Corrosive To Metal - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Phosphoric Acid	10%	7664-38-2

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		Hazardo	us Materials A	And Waste	s Inventory	Report				
CERS Business/Org. Blythe Energy Inc. Facility Name Blythe Energy Inc. 385 N Buck Blvd, Blythe 92225		Chemical Location Chiller Building						CERS ID Facility II Status	10321807 FA0023213 Submitted on 2/18	2/2024 11·22 ANA
OT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories		Hazardous Components (For mixture only) % Wt	•
OOT: 2.1 - Flammable Gases Corrosive, Flammable Gas, Explosive	Ammonia (Refrigerant R-717) CAS No 7664-41-7 CAS No 7664-41-7	Gas Type	Storage Container Tank Inside Buildin Days on Site: 365	20000	55000 Pressue > Ambient Temperature Ambient	Waste Code 141	- Physical Gas Under Pressure - Physical Corrosive To Metal - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Aspiration Hazard - Health Simple Asphyxiant	Anhydrous Ammonia	100%	7664-41-7

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CERS Business/Org. Blythe E	nergy Inc.			Chemical Loca	CERS ID	10321807					
acility Name Blythe E	nergy Inc.	Chiller Emerg Generator (bulk tank)						Facility ID FA0023213			
385 N Buc	k Blvd, Blythe 92225							Status	Submitted on 2/1	8/2024 11:22 AM	
				Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)		
OT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.	
OT: 2.1 - Flammable Gases	PROPANE <u>CAS No.</u> 74-98-6	Gas Type	t 10000 Storage Container Aboveground Tanl Days on Site: 365	10000	10000 Pressue > Ambient Temperature Ambient	Waste Cod	- Physical - Physical Gas Under Pressure - Physical Explosive - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant				

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			Hazardou	s Materials .	And Waste	s Inventory	/ Matrix	Report			
CERS Business/Org. Facility Name	Blythe End Blythe End 385 N Buck E	- .			Chemical Loca				CERS ID Facility II Status	10321807 • FA0023213 Submitted on 2/1	8/2024 11:22 AM
DOT Code/Fire Haz.	Class		Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
·		N.O.S. (Argon/CO2) CAS No	Cu. Feet State St Gas Co Type	304 orage Container ylinder ays on Site: 365	304	260 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Gas	Argon Carbon Dioxide	75% 25%	7440-37-1 124-38-9

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		Hazardou	us Materials A	And Waste	s Inventory	Matrix	Report			
CERS Business/Org. Blythe Ene Facility Name Blythe Ene				Chemical Loca	ation Gas Cylindo	er Area		CERS Facilit	D 10321807	
385 N Buck B	lvd, Blythe 92225							Status	Submitted on 2/1	8/2024 11:22 AM
				Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	S
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases Cryogen	Nitrogen/Oxygen CAS No See Below		1584 Storage Container Cylinder	144	1296 Pressue > Ambient	Waste Code	- Health Skin	Oxygen Nitrogen	22% 78%	7782-44-7 7727-37-9
		Type Mixture [Days on Site: 365		Temperature Ambient		Corrosion Irritation - Health Respiratory Skin			
							Sensitization - Health Serious Eye Damage Eye Irritation			
DOT: 2.2 - Nonflammable Gases	ARGON CAS NO 7440-37-1		1344 Storage Container Cylinder	336	1100 Pressue > Ambient	Waste Code	- Physical Gas Under Pressure - Health Skin Corrosion			,
		Type Pure [Days on Site: 365		Temperature Ambient		Irritation - Health Respiratory Skin Sensitization - Health Simple Asphyxiant			
DOT: 2.2 - Nonflammable Gases	OXYGEN	Cu. Feet	2359	337	2000		- Physical Gas			
Highly Toxic, Corrosive, Oxidizing, Class 1	CAS No		torage Container Cylinder	 .	Pressue > Ambient Temperature	Waste Code	Under Pressure - Physical Oxidize	r		
		***************************************	Days on Site: 365		Ambient		- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization			
DOT: 2.1 - Flammable Gases	Acetylene	Cu. Feet	625	125	500		- Physical			
Unstable (Reactive), Class 2, Flammable Gas	CAS No. 74-86-2	State S Gas C Type	storage Container Cylinder Days on Site: 365		Pressue > Ambient Temperature Ambient	Waste Code	Flammable - Physical Gas Under Pressure - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation			

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Facility Name Blythe	Energy Inc. Energy Inc. ck Blvd, Blythe 92225		Chemical Location Fire Pump House							CERS ID 10321807 Facility ID FA0023213 Status Submitted on 2/18/2024 11:22 AN		
OOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Cor (For mixtur		EHS CAS No.	
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class II	DIESEL FUEL CAS No 68334-30-5	Liquid Type		500	400 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Flammable	Fuels, diesel Fatty acids, vegetable esters	oil, methyl	99%	68334-30-5 68990-52-3	

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			Hazardo	ous Materials <i>i</i>	And Waste	s Inventory	/ Matrix	Report		
Facility Name	Blythe Ene Blythe Ene 385 N Buck Bl				Chemical Loca Gas Cylino				CERS ID Facility Status	10321807 ID FA0023213 Submitted on 2/18/2024 11:22 A
OOT Code/Fire Haz. Cl		Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Components (For mixture only) % Wt EHS CAS No.
DOT: 2.2 - Nonflamı		NITROGEN CAS No 7727-37-9	Cu. Fee State Gas Type Pure	Storage Container Cylinder Days on Site: 365	304	8500 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant		
DOT: 2.1 - Flammab Flammable Gas		Nitrogen/Carbon Monoxide CAS No See Below	Cu. Fee State Gas Type Mixture	Storage Container Cylinder Days on Site: 365	144	2304 Pressue > Ambient Temperature Ambient	Waste Code	- Health Skin Corrosion "Irritation - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant	Carbon Monoxide Nitrogen	630-08-(7727-37

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-	Energy Inc.			Chemical Loca				CERS ID		
	Energy Inc. ck Blvd, Blythe 92225			Gas Cyline	uer Area				□ FA0023213	0/2024 11.22 AN
OT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Status Component Name	Submitted on 2/1 Hazardous Component (For mixture only) % Wt	•
OT: 2.3 - Toxic Gases Oxidizing Gas, Gaseous	Nitric Oxide/Nitrogen CAS No See Below	Cu. Feet State S Gas C Type		144	1152 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Gas	Nitrogen Nitric Oxide	55% 45%	7727-37-9 10102-43-5

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		Hazardo	ous Materials /	And Waste	s Inventor	y Matrix	Report			
=	Energy Inc.			Chemical Loca				CERS ID	10321807	
Facility Name Blythe	Energy Inc.			Hazardou	s Waste Sto	rage Area	ı	Facility I	D FA0023213	
385 N Bu	ick Blvd, Blythe 92225							Status	Submitted on 2	/18/2024 11:22 AM
						Annual			Hazardous Compone	
				Quantities		Waste	Federal Hazard		(For mixture only	•
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% W	
DOT: 3 - Flammable and	Waste Oil (refrigeration)	Gallon	s 165	55	110		- Physical	Waste Petroleum Hy	drocarbons	Mixture
Combustible Liquids	CAS No	State	Storage Container		Pressue	Waste Code	Flammable			
Combustible Liquid, Class II	N/A	Liquid	Steel Drum		Ambient	222	Carcinogenicity			
Combustible Liquid, Class II		Type			Temperature		- Health Skin			
		Waste	Days on Site: 365		Ambient		Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Serious			
							Eye Damage Eye			
207.44.51							Irritation			,
DOT: 4.1 - Flammable Solids	Waste Oil Filters / Oily Debris	Pound	s 220	55	200		- Physical			
Classes bla Calid	CAS No	State	Storage Container		Pressue	Waste Code	Flammable 			
ammable Solid Steel Drum A		Ambient		Corrosion						
					Temperature		Irritation			
		Waste	Days on Site: 90		Ambient					
DOT: 2.1 - Flammable Gases	Waste Aerosols	Gallon		55	30		- Physical			
Flammable Cas. Taxis	CAS No	State	Storage Container		Pressue	Waste Code	Flammable 			
Flammable Gas, Toxic	NA	Gas	Steel Drum, Other		Ambient		Under Pressure			
		Type			Temperature		- Health Skin			
		Waste	Days on Site: 365		Ambient		Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Simple			
DOT: 2 Flowership and					<u> </u>		Asphyxiant			
DOT: 3 - Flammable and	Waste Oil	Gallon		300	150		- Physical Flammable			
Combustible Liquids	CAS No	State	Storage Container		Pressue	Waste Code				
Flammable Liquid, Class I-B	N/A	Liquid	Aboveground Tank	K	Ambient		Carcinogenicity			
i iaiiiiiabie Liquiu, Cidss I-D		Туре	.		Temperature		- Health Skin			
		Waste	Days on Site: 365		Ambient		Corrosion			
							Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			

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		Hazardo	ous Materials	And Waste	s Inventory	/ Matrix	Report			
CERS Business/Org. Blythe En Facility Name Blythe En				Chemical Loca	tion uct Storage	Area		CERS ID 103218 Facility ID FA002	3213	8/2024 11:22 AM
NULU II COC	Sivu, Biytile 32223			Quantities		Annual Waste	Federal Hazard	Status Submitt Hazardous ((For mixt	omponent	•
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids)		Gallons	250 Storage Container	250	200 Pressue		- Physical Corrosive To	Water	90%	7732-18-5
Corrosive	CAS No See Below	Liquid Type	Plastic/Non-metal Days on Site: 365	ic Drum	Ambient Temperature Ambient	Waste Code	Metal - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Sodium Hydroxide	10%	1310-73-2
DOT: 8 - Corrosives (Liquids and Solids) Corrosive	T-Chlor 12.5% CAS No See Below	Туре	Storage Container Plastic/Non-metal Days on Site: 365	55 ic Drum	110 Pressue Ambient Temperature Ambient	Waste Code	- Physical Corrosive To Metal - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye	Sodium Hypochlorite Water	13% 88%	7681-52-9 7732-18-5
	LAB Enzyme Producing Bacteria	Gallons	330 Storage Container Plastic/Non-metal	55	300 Pressue Ambient	Waste Code	- Health Skin Corrosion Irritation	Benzenesulfonic acid, C10-16-al Derivatives, sodium salts Alcohols, C6-12, Ethoxylated	xyl 5% 2%	68081-81-2 689374-66-6
		Туре	Days on Site: 365	ic Druiii	Temperature Ambient		- Health Serious Eye Damage Eye Irritation	Propoxylated	0%	104-55-2 111-76-2 64-02-8
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	Lubrication Oil CAS NO N/A	Туре	Storage Container Aboveground Tan Days on Site: 365	60 k	800 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable Health Serious Eye Damage Eye Irritation	Synthetic Hydrocarbon Based O	I	varies
DOT: 3 - Flammable and Combustible Liquids	FES #1 Refrigeration Oil CAS No mixture	Liquid Type	Storage Container Steel Drum Days on Site: 365	55	165 Pressue Ambient Temperature Ambient		- Physical Flammable Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	FES #1 Refrigeration oil		N/A

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	Hazardous Materials And Wastes Inventory Matrix Report												
CERS Business/Org. Facility Name	Blythe End Blythe End 385 N Buck B	= -			Chemical Loca	tion uct Storage	Area		CERS ID Facility Status	10321807 ID FA0023213 Submitted on 2/1	8/2024 11:22 AM		
DOT Code/Fire Haz. (Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.		
OT Code/Fire Haz. Class OT: 8 - Corrosives (Liquids and olids)	Permaclean PC-87 (Nalco) CAS No	Gallon State Liquid Type Mixture	S 55 Storage Container Can Days on Site: 365	5	55 Pressue Ambient Temperature Ambient	Waste Code	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Phosphoric Acid	10%	7664-38-2			
		Permaclean PC-98 (Nalco) CAS No	Gallon State Liquid Type Mixture	S 55 Storage Container Can Days on Site: 365	5	55 Pressue Ambient Temperature Ambient	Waste Code	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation					

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		Hazardou	ıs Materials A			y iviatrix	keport			
-	the Energy Inc.			Chemical Loca					10321807	
-	t he Energy Inc. N Buck Blvd, Blythe 92225		Outside of Water Treatment Equipment Area Facility ID FA0023 Status Submitte							
				Quantities		Annual Waste	Federal Hazard		azardous Component (For mixture only)	
DOT Code/Fire Haz. Class DOT: 8 - Corrosives (Liqui iolids) Corrosive	ids and Aqueous Ammonia CAS No 1336-21-6	Liquid A Type	Max. Daily 104400 torage Container boveground Tank Days on Site: 365	116000	Avg. Daily 90000 Pressue > Ambient Temperature Ambient		- Physical - Physical - Corrosive To - Metal - Health Acute - Toxicity - Health Skin - Corrosion - Irritation - Health - Respiratory Skin - Sensitization - Health Serious - Eye Damage Eye	Component Name AMMONIUM HYDROXI	% Wt DE 30%	EHS CAS No. 1336-21-6

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			Hazardo	ous Materials A	And Waste	s Inventory	y Matrix I	Report			
CERS Business/Org. Facility Name	Blythe End Blythe End 385 N Buck E				Chemical Loca Step Up T	ransformer	Pads		Facility ID	10321807 FA0023213 Submitted on 2/	18/2024 11:22 AM
DOT Code/Fire Haz. (Class	Common Name	Quantities Annual Quantities Waste Federal Hazar Unit Max. Daily Largest Cont. Avg. Daily Amount Categories					Federal Hazard		azardous Componer (For mixture only) % Wt	
DOT: 9 - Misc. Haz Materials		Nytro 10 GB XT (Insulating Oil) CAS NO NA	Gallons State Liquid Type		16800	70320 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable	Hydrotreated Light Nap Distillate 2,6-ditertiary Butyl-4-M	othenic 99%	64742-53-6 128-37-0

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		Hazardou	us Materials A	nd Waste	s Inventory	/ Matrix I	Report			
CERS Business/Org. Blythe Er Facility Name Blythe Er 385 N Buck				Chemical Loca Turbine B				Facility ID F	.0321807 A0023213 ubmitted on 2	/18/2024 11:22 AM
DOT Code/Fire Haz. Class DOT: 3 - Flammable and	Common Name	Unit		Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories - Physical		ardous Compone For mixture only % W)
Combustible Liquid, Class III-B	CAS No	Liquid A Type E	14176 Storage Container Aboveground Tank, Building Days on Site: 365	6650 Tank Inside	10000 Pressue Ambient Temperature Ambient	Waste Code	Flammable Health Serious Eye Damage Eye Irritation	Synthetic Hydrocarbon B	aseu Oii	varies
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	Hydraulic Oil CAS No 55957-10-3	Liquid T Type	326 Storage Container Fank Inside Building Days on Site: 365	166	275 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization	Highly Refined Mineral O C50)	ils (C15- 99%	Mixture
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Toxic	Aqueous Ammonia (19%) CAS No EHS 1336-21-6	Liquid T Type	3465 Storage Container Fote Bin Days on Site: 365	3465	2500 Pressue Ambient Temperature Ambient	Waste Code	- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	AMMONIUM HYDROXIDI	E 19%	1336-21-6
DOT: 6.1 - Toxic Substances	Nalco 5711 CAS No mixture	Liquid T Type	300 Storage Container Fote Bin Days on Site: 365	400	250 Pressue Ambient Temperature Ambient	Waste Code	- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Ammonia Monoethanolamine	20% 15%	•

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				Hazardo	ous Materials A	nd Waste	s Inventor	y Matrix	Report			
ERS Business/Org.	Blythe Ene	ergy Inc.				Chemical Loca	ation			CERS ID	10321807	
acility Name	Blythe Ene	ergy Inc.				Water Tre	eatment Are	ea		Facility I	D FA0023213	
	385 N Buck B	lvd, Blythe 922	225							Status	Submitted on 2/1	.8/2024 11:22 AN
								Annual			Hazardous Componen	ts
						Quantities		Waste	Federal Hazard		(For mixture only)	
OT Code/Fire Haz. C OT: 3 - Flammable		Common Name		Unit	•	Largest Cont.	Avg. Daily	Amount	- Health Skin	Component Name Mixture	% Wt	EHS CAS No.
ombustible Liquid		Permatrea	it PC191T (Anti-Scalar	-		120	120		Corrosion	Mixture		N/A
ombustible Liquiu	3	CAS No		State	Storage Container Steel Drum, Tote Bir		Pressue	Waste Code				
		NA		Liquid	Steel Druill, Tote Bil	ı	Ambient		- Health			
				Type	Days on Site: 365		Temperature Ambient		Respiratory Skin			
				Mixture	Days on site. 505		Ambient		Sensitization			
OT: 8 - Corrosives	(Liquids and	Sulfuric Ac	id	Pounds	26000	30600	20700		- Physical			
olids)		CAS No	✓EHS	State	Storage Container		Pressue	···	Corrosive To			
orrosive, Water Re	eactive, Class		•	Liquid	Aboveground Tank		Ambient	Waste Code				
•	•			Type			Temperature		 Health Carcinogenicity 			
				Pure	Days on Site: 365		Ambient		- Health Acute			
									Toxicity			
									- Health Skin			
									Corrosion			
									Irritation			
									- Health			
									Respiratory Skin			
									Sensitization			
									- Health Serious			
									Eye Damage Eye			
									Irritation			
									- Health Specific			
									Target Organ Toxicity			
OT: 8 - Corrosives	(Liquids and	Sodium Hy	.drovido	Gallons	s 120	120	70		- Physical	SODIUM HYDROXIDE	(CORROSIVE 25%	1310-73-2
olids)	,=.90.00 0110	-	, ui oxiue		Storage Container	120			Flammable	LIQUID, BASIC, ORGA	•	2310 73 2
,		CAS No		State Liquid	Aboveground Tank,	Plastic/Non-	Pressue Ambient	Waste Code	- Health Skin	,,	,,	
orrosive, Toxic, W	ater Reactive,	1310-73-2		•	metalic Drum	i iustic/ivoli-			Corrosion			
ass 1				Type	Days on Site: 365		Temperature Ambient		Irritation			
				MIXTUIE	Days Oil Site. 505		Allibletit		- Health			
									Respiratory Skin			
									Sensitization			
									- Health Serious			
									Eye Damage Eye			
									Irritation			

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		H	Hazardo	ous Materials A	And Waste	s Inventory	y Matrix	Report			
CERS Business/Org. Facility Name	Blythe Ene Blythe Ene 385 N Buck B				Chemical Loca Water Tre	eatment Are	ea		Facility ID	10321807 FA0023213 Submitted on 2/1	8/2024 11:22 AM
DOT Code/Fire Haz. C	lass	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	На	zardous Component (For mixture only) % Wt	•
DOT: 6.1 - Toxic Sul Toxic, Corrosive		Permaclean PC-11 CAS No See Below	Gallons State Liquid Type	,	110	60 Pressue Ambient Temperature Ambient	Waste Code	- Physical	Polyethylene Glycol 2,2-Dibromo-3- nitrilopropionamide Sodium Bromide Dibromoacetonitrile	60% 30% 5% 1%	25322-68-3 10222-01-2 7647-15-6 3252-43-5
DOT: 8 - Corrosives Solids) Corrosive	(Liquids and	SODIUM HYPOCHLORITE (12.5%) CAS No 7681-52-9	Liquid Type	Storage Container Plastic/Non-metalic Days on Site: 365	120	60 Pressue Ambient Temperature Ambient	" Waste Code	- Physical Corrosive To	SODIUM HYPOCHLORIT SOLUTION	E 13%	7681-52-9

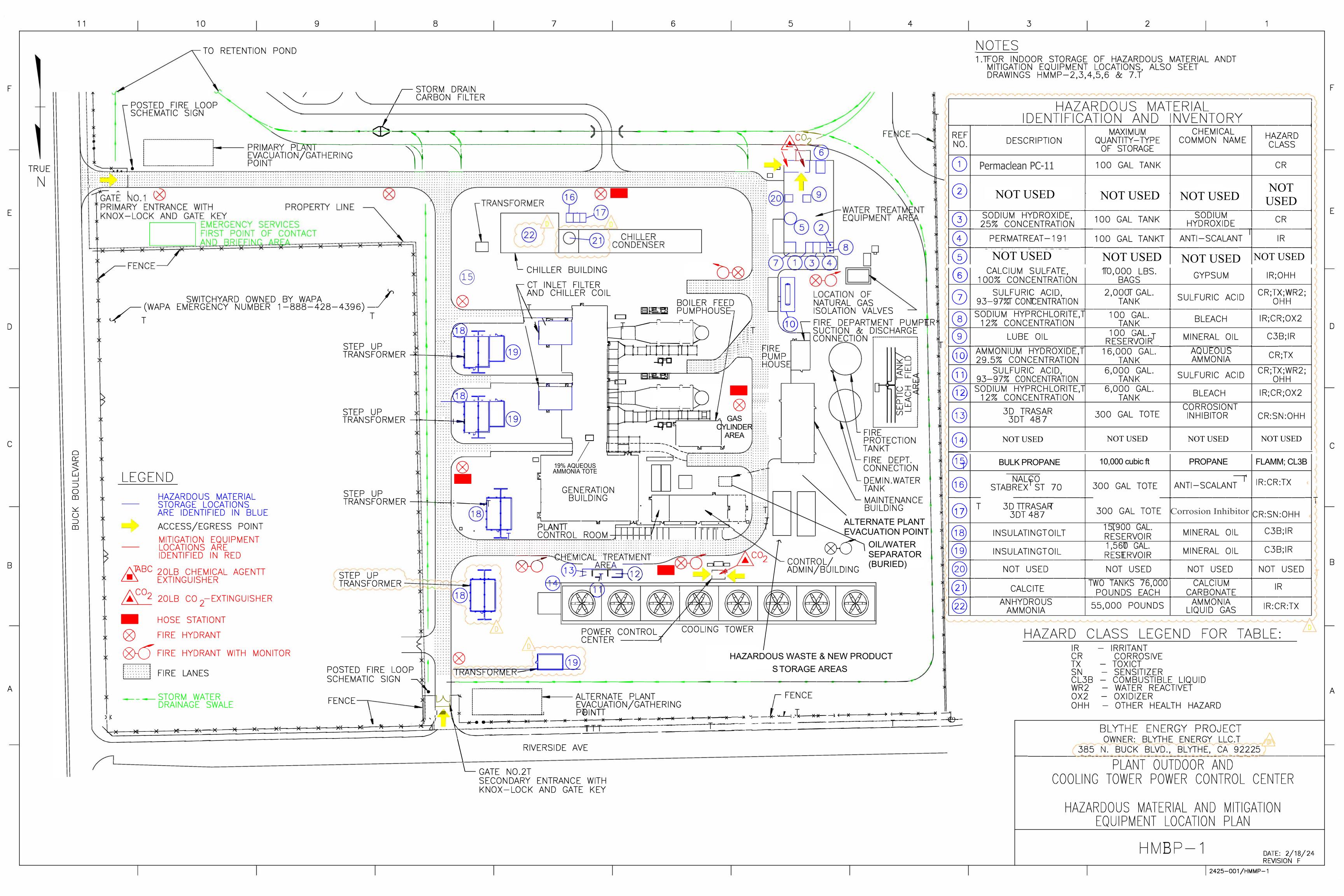
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	Hazardous Materials And Wastes Inventory Matrix Report													
CERS Business/Org.	Blythe E	nergy Inc.			Chemical Loca	tion			CERS ID	10321807				
Facility Name	Blythe E	nergy Inc.			Water Tre	atment Equ	ipment .	Area	Facility I	D FA0023213				
	385 N Buck	Blvd, Blythe 92225							Status	Submitted on 2/1	8/2024 11:22 AM			
								Federal Hazard	Hazardous Components (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.			
DOT: 9 - Misc. Haz Materials	ardous	Snow White Calcium Sulfate CAS No 7778-18-9	Solid Type	10020 Storage Container Bag Days on Site: 180	60	7200 Pressue Ambient Temperature Ambient	Waste Cod	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation						

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Blythe Energy Inc. – Facility Location Map





CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN

FACILITY ID #							A1.	CERS	S ID # A	2.	DATE OF (MM/DD/		EPARATION/REVISIO	
BUSINESS NAME (Same as I	Facility	Name	or DB	4 - Do	ing Bu.	siness 1	4 s)							A4.
BUSINESS SITE ADDRESS														A5.
BUSINESS SITE CITY									A	6.	CA	ZIP COI	DE	A7.
TYPE OF BUSINESS (e.g., Pa	inting (Contra	ictor)					A8.	INCIDENTAL OPE	RA	_	, Fleet Mai	ntenance)	A9.
THIS PLAN COVERS CHEM	ICAL S	SPILL	S, FIRE	ES, AN	D EA	RTHQ	U AKI	ES INV	OLVING (Check all th	at a	pply):			A10.
☐ 1. HAZARDOUS MATERIALS; ☐ 2. HAZARDOUS WASTES														
INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR BY (Check all that apply): 1. CALLING PUBLIC EMERGENCY RESPONDERS (e.g., 9-1-1) 2. CALLING HAZARDOUS WASTE CONTRACTOR 3. ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM													B1.	
J. ACTIVATING IN-HOUSE EMERGENCT RESPONSE TEAM														
In the event of an emergency involving hazardous materials and/or hazardous waste, all facilities must IMMEDIATELY: 1. Notify facility personnel and evacuate if necessary in accordance with the Emergency Action Plan (Title 8 California Code of Regulations §3220); 2. Notify local emergency responders by calling 9-1-1; 3. Notify the local Unified Program Agency (UPA) at the phone number below; and 4. Notify the State Warning Center at (800) 852-7550.														
Facilities that generate, treat, store or dispose of hazardous waste have additional responsibilities to notify and coordinate with other response agencies. Whenever the is an imminent or actual emergency situation such as an explosion, fire, or release, the Emergency Coordinator must follow the appropriate requirements for the categor facility and type of release involved: 1. Title 22 California Code of Regulations §66265.56. Emergency Procedures for generators of 1,000 kilograms or more of hazardous waste in any calendar month. 2. Title 22 California Code of Regulations §66265.196. Response to Leaks or Spills and Disposition of Leaking or Unfit-for-Use Tank Systems. 3. Title 40 Code of Federal Regulations §302.6. Notification requirements for a release of a hazardous substance equal to or greater than the reportable quantity. 4. Title 22 California Code of Regulations §66262.34(d)(2) and Title 40 Code of Federal Regulations §262.34(d)(5)(ii) for generators of less than 1000 kilograms hazardous waste in any calendar month.												category onth.		
Following notification and befand the local fire department's 1. Provide for proper storage at the facility; and 2. Ensure that no material that i procedures are completed.	hazardo nd dispo	us ma osal of	terials precove	orograi red wa	n, if no	ecessar ntamin	y, tha	t the fac soil or s	cility is in compliance vurface water, or any of	with her	requirement material that	s to: results fro	m an explosion, fire, or	release at
EMERGENCY RESPONSE	AMB	ULA	NCE, F	IRE, P	OLICE	E AND	СНР						9-1-1	
PHONE NUMBERS:	CALI	FOR	NIA ST	ATE V	VARN	ING C	ENTI	ER (CSV	WC)/CAL OES				(800) 852-7550	
	NATI	IONA	L RESI	PONSE	E CEN	TER (N	NRC)						(800) 424-8802	
													(800) 222-1222	C1.
	LOCA	AL UI	NIFIED	PROC	GRAM	AGEN	ICY (UPA).	(outsi	de	business h	ours) C2.		C1.
	OTHI	ER (S _j	pecify):		Ĭ							C4.		C5.
NEAREST MEDICAL FACIL	ITY / H	OSPI	ΓAL N	AME:								0		05.
AGENCY NOTIFICATION PH	HONE N	NUME	BERS:						OXIC SUBSTANCES		,		(916) 255-3545	C6.
								-			, - ,		(800) 300-2193	
									ROTECTION AGENO ISH AND WILDLIFE		`			
									G)				(202) 267-2180	
								`					(916) 263-2800	
									E STATE FIRE MARS				(916) 323-7390	
				O	ΓHER	(Speci	fy):					C7.		C8.
				O	ΓHER	(Speci	fy):					C9.		C10.

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☐ 1. VERBAL WARNINGS;						
4. PAGERS;	☐ 5. ALARM SYSTEM;		6. PORTABLE RADIO	610		
			LEASE WILL OCCUR BY (Check all that apply):	C12.		
1. VERBAL WARNINGS;	☐ 2. PUBLIC ADDRESS OR I☐ 5. ALARM SYSTEM;	INTERCOM SYSTEM;	3. TELEPHONE;			
☐ 4. PAGERS; EMERGENCY COORDINATOR CONTA			6. PORTABLE RADIO	C13.		
EMERGENCT COORDINATOR CONTA	ici in ormanon.			C13.		
PRIMARY EMERGENCY COORDINATOR NAME:		PHONE NO.:	PHONE NO.:			
ALTERNATE EMERGENCY COORDINATOR NAME:		PHONE NO.:	PHONE NO.:			
Check if additional Emergency Coordinator contact and address information is available onsite or by calling PHONE NO.:						
Note: If more than one alternate emergency coordinator is designated, attach a list in order of responsibility. D. EMERGENCY CONTAINMENT AND CLEANUP PROCEDURES						
Check the applicable boxes to indicate your facility's procedures for containing spills and preventing and mitigating releases, fires and/or explosions.						
 □ 1. MONITOR FOR LEAKS, RUPTUI □ 2. PROVIDE STRUCTURAL PHYSIC □ 3. PROVIDE ABSORBENT PHYSIC □ 4. COVER OR BLOCK FLOOR AND □ 5. LINED TRENCH DRAINS AND/O □ 6. AUTOMATIC FIRE SUPPRESSIC □ 7. ELIMINATE SOURCES OF IGNIO □ 8. STOP PROCESSES AND/OR OPE □ 9. AUTOMATIC / ELECTRONIC EQ □ 10. SHUT OFF WATER, GAS, ELECT □ 11. CALL 9-1-1 FOR PUBLIC EMERC □ 12. NOTIFY AND EVACUATE PERS □ 13. ACCOUNT FOR EVACUATED PORTORIOR □ 14. PROVIDE PROTECTIVE EQUIPM □ 15. REMOVE CONTAINERS AND/O □ 16. HIRE LICENSED HAZARDOUS □ 17. USE ABSORBENT MATERIAL F □ 18. VACUUM SUCTION USING APE □ 19. DECONTAMINATE PERSONNEI □ 20. PROVIDE SAFE TEMPORARY S □ 21. OTHER (Specify): 	CAL BARRIERS (e.g., Portable sy AL BARRIERS (e.g., Pads, spill patents) of STORM DRAINS; on SYSTEM; flon for FLAMMABLE HAZA RATIONS; outpment shut-off system crical utilities; gency responder assistations in all threatened and ersons immediately after ment for on-site emergen risolate areas; waste contractor; (HCI or spill containment; ropriate vacuum (e.g., Intril and Equipment within decided and equipment within decided and equipment within decided and equipment within decided and sale areas;	pill containment walls, built-in beings, spill pillows); ARDS; I; NCE AND/OR MEDICAL AID; ND/OR IMPACTED AREAS; R EVACUATION; ICY RESPONSE TEAM; Environmental) insically safe) FOR SPILL CONTESIGNATED AREA AND DISP	TROL AND/OR CLEANUP; POSE OF WASTEWATER AS HAZARDOUS WA	DI. ASTE; D2.		
E. FACILITY EVACUATION						
THE FOLLOWING ALARM SIGNAL(S)	WILL BE USED TO BEGIN EV.	ACUATION OF THE FACILITY	Y (Check all that apply):	E1.		
☐ 1. BELLS; ☐ 2. HORNS/SIRENS; ☐ 3. VERBAL (i.e., Shouting); ☐ 4. OTHER (Specify):				E2.		
THE FOLLOWING LOCATION(S) WILI	BE USED FOR AN EMERGEN	CY ASSEMBLY AREA(S) (e.g.	, Parking lot, street corner):	E3.		
Note: The Emergency Coordinator must ac				7.		
EVACUATION ROUTE S AND ALTERNATE EVACUATION ROUTES ARE DESCRIBED AS FOLLOWS: E4.						
 □ 1. WRITTEN PROCEDURES DESCRIBING ROUTES, EXITS, AND ASSEMBLY AREAS; □ 2. EVACUATION MAP(S) DEPICTING ROUTES, EXITS, AND ASSEMBLY AREAS; □ 3. OTHER (Specify): 						
Note: Evacuation procedures and/or maps should be posted in visible facility locations and must be included in the Contingency Plan.						
F. ARRANGEMENTS FOR EMERGENCY SERVICES						
ADVANCE ARRANGEMENTS FOR LO	CAL EMERGENCY SERVICES	(Check one of the following):		F1.		
 □ 1. HAVE BEEN DETERMINED NOT NECESSARY; □ 2. THE FOLLOWING ARRANGEMENTS HAVE BEEN MADE (Specify): 				F2.		
Note: Advance arrangements with local fire and police departments, hospitals, state and local emergency response teams, and/or emergency services contractors should be made for your facility, if necessary. Large Quantity Generators must describe arrangements in the Contingency Plan.						

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G. EMERGENCY EQUIPMENT							
Check the applicable boxes to list emergency response equipment available at the facility, identify the location(s) where the equipment is kept, and indicate the equipment's capability, if applicable.							
TYPE	EQUIPMENT AVAILABLE G1.	LOCATION G2.	CAPABILITY G3.				
EXAMPLE	☐ CHEMICAL PROTECTIVE GLOVES	SPILL RESPONSE KIT	SINGLE USE, OIL RESISTANT ONLY				
Safety	1. CHEMICAL PROTECTIVE SUITS, APRONS, AND/OR VESTS						
and First Aid	2. CHEMICAL PROTECTIVE GLOVES						
	3. CHEMICAL PROTECTIVE BOOTS						
	4. SAFETY GLASSES, GOGGLES, AND FACE						
	SHIELDS 5. HARD HATS						
	6. AIR-PURIFYING RESPIRATORS						
	7. SELF-CONTAINED BREATHING APPARATUS (SCBA)						
	8. FIRST AID KITS	Control Room, Admin Bldg, Maint Shop, in trucks					
	9. PLUMBED EYEWASH FOUNTAIN AND/OR SHOWER	3 17					
	10. ☐ PORTABLE EYEWASH KITS AND/OR	Haz Waste, Batt. Area (4), Fire Pump House, shop					
	STATION 11. OTHER						
Fire Fighting	12. ☐ PORTABLE FIRE EXTINGUISHERS						
rigitting	13. FIXED FIRE SUPPRESSION SYSTEMS AND/ OR SPRINKLERS						
	14. ☐ FIRE ALARM BOXES						
	15. ☐ OTHER						
Spill	16. ☐ ALL-IN-ONE SPILL KIT						
Control and	17. ABSORBENT MATERIAL						
Clean-Up	18. ☐ CONTAINER FOR USED ABSORBENT						
	19. ☐ BERM AND/OR DIKING EQUIPMENT						
	20. ☐ BROOM						
	21. ☐ SHOVEL						
	22. VACUUM						
	23. ☐ EXHAUST HOOD						
	24. ☐ SUMP AND/OR HOLDING TANK						
	25. CHEMICAL NEUTRALIZERS						
	26. ☐ GAS CYLINDER LEAK REPAIR KIT						
	27. ☐ SPILL OVERPACK DRUMS						
	28. ☐ OTHER						
	29. TELEPHONES (e.g., Cellular)						
cations and	30. ☐ INTERCOM AND/OR PA SYSTEM						
Alarm Systems	31. PORTABLE RADIOS						
	32. AUTOMATIC ALARM CHEMICAL MONITORING EQUIPMENT						
Other	33. OTHER						
	34. ☐ OTHER						

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H. EARTHQUAKE VULNERABILITY						
Identify areas of the facility that are vulnerable to hazardous materials releases due to seismic motion. These areas require immediate isolation and inspection.						
VULNERABLE AREAS (Check all that apply): 1. HAZARDOUS MATERIALS AND/OR WASTE STORAGE AREAS 2. PROCESS LINES AND PIPING 3. LABORATORY 4. WASTE TREATMENT AREA	LOCATIONS (e.g., Shop, outdoor shed, lab): H2.					
Identify mechanical systems vulnerable to releases / spills due to earthquake-related motion. T	hese systems require immediate isolation and inspection					
VULNERABLE SYSTEMS AND/OR EQUIPMENT (Check all that apply): 1. SHELVES, CABINETS AND/OR RACKS 2. TANKS AND SHUT-OFF VALVES 3. PORTABLE GAS CYLINDERS 4. EMERGENCY SHUT-OFF AND/OR UTILITY VALVES 5. SPRINKLER SYSTEMS 6. STATIONARY PRESSURIZED CONTAINERS (e.g., Propane tank)	LOCATIONS: H4.					
I. EMPLOYEE TRA	AINING					
Employee training is required for all employees and/or contractors handling hazardous materia Most facilities will need to submit a separate Training Plan. However, your CUPA may accept Employee training plans may include the following content: • Applicable laws and regulations; • Emergency response plans and procedures; • Safety Data Sheets; • Hazard communication related to health and safety; • Methods for safe handling of hazardous substances; • Hazards of materials and processes (e.g., fire, explosion, asphyxiation); • Hazard mitigation, prevention and abatement procedures; • Coordination of emergency response actions; • Notification procedures for local emergency responders, CUPA, Cal OES, and onsite personnel;						
	1					
Check the applicable boxes below to indicate how the employee training program is administe 1. FORMAL CLASSROOM						
☐ 6. NOT APPLICABLE SINCE FACILITY HAS NO EMPLOYEES ☐ 7. CHECK IF A SEPARATE EMPLOYEE TRAINING PLAN IS USED AND UPLOADED TO CERS AS A PDF DOCUMENT ☐ 8. CHECK IF EMPLOYEE TRAINING IS COVERED BY THE ABOVE REFERENCED CONTENT AND OTHER DOCUMENTS ONSITE						
 EMPLOYEE TRAINING FREQUENCY AND RECORDKEEPING TRAINING MUST Provided initially for new employees as soon as possible following the date of hire. Ne hazardous materials handling and/or hazardous waste management without proper training; Provided within six months from the date of hire for new employees at a large quantity gene. Ongoing and provided at least annually; Amended prior to a change in process or work assignment; Given upon modification to the Emergency Response/Contingency Plan. Large Quantity Generator Training: Large quantity generators (1,000 kg or more) must reta. A written description of the type and amount of both initial and ongoing training that will be gi waste management and/or emergency response. The name, job title and job description for each position at the facility related to hazardous of Current employee training records must be retained until closure of the facility and former termination of employment. 	w employees should not work in an unsupervised position that involves erator; ain written plan and documentation of employee training which includes: iven to persons filling each job position having responsibility for hazardous waste management.					
Small Quantity Generator Training: Small quantity generators (less than 1,000 kg) must procedures but a written employee training plan and training records are not required. In order training requirement, an employee training plan and training records may be made available.						
Hazardous Materials Business Plan Training: Businesses must provide initial and annual end may be based on the job position and training records must be made available for a period of a						
J. LIST OF ATTACH	HMENTS					
Check one of the following:	JI.					
☐ 1. NO ATTACHMENTS ARE REQUIRED; or ☐ 2. THE FOLLOWING DOCUMENTS ARE ATTACHED:	J2.					

Rev. 03/07/17 Page 4 of 4

Blythe Energy Inc. maintains a full Emergency Action Plan at the facility. Please refer to the EAP for more details of the emergency procedures, evacuation plan, and emergency contact information.

California Environmental Reporting System (CERS)

Aboveground Petroleum Storage Act - Facility Information Report

Facility/Site

Blythe Energy Inc.

CERS ID 10321807

385 N Buck Blvd

Blythe, CA 92225 CAL000364934

Submittal Status

Submitted on 2/18/2024 by Jake Tilley of Blythe Energy Inc. (Blythe, CA.)

APSA Facility Information

Conditionally Exempt APSA Tank Facility

N

Date Of SPCC Plan Certification or Date of 5-Year Review

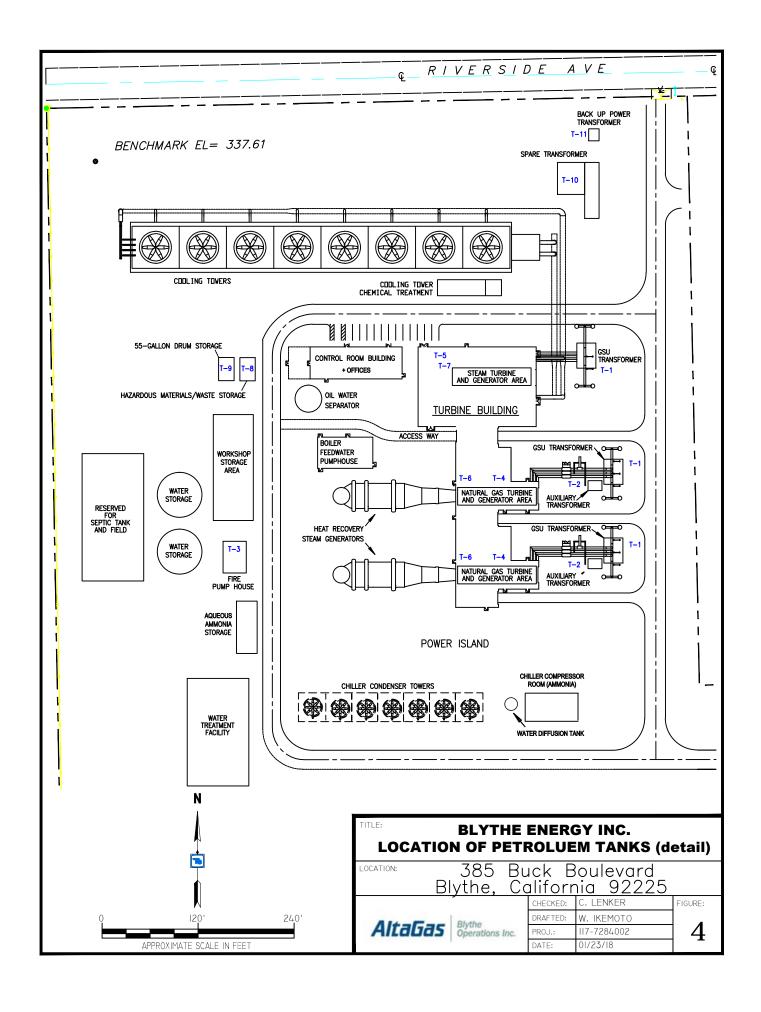
3/27/2023

Total Aboveground Storage Capacity of

Number of Tanks in Underground Area(s)

Petroleum

86643 0



Petroleum Storage Tank Locations						
Tank ID	Oil Products	Volume (Gallons)	Use	Storage/Use Area		
T-1	Nitro 10 GBXT	16,500 (x3)	GSU Transformers	Electrical Equipment		
T-2	Nitro 10 GBXT	1,620 (x2)	Auxiliary Transformers	Electrical Equipment		
T-3	Diesel	500	Fire Pump Fuel Tank	Fire Pump Building		
T-4	Lubrication Oil	3,600 (x2)	Combustion Turbine Lubrication	Turbine Building		
T-5	Lubrication Oil	6650 gallons	Steam Turbine Lubrication	Turbine Building		
T-6	Hydraulic Oil	80 (x2)	Combustion Turbine Hydraulics	Turbine Building		
T-7	Hydraulic Oil	166	Steam Turbine Hydraulics	Turbine Building		
T-8	Used Oil	250-gallon tank	Hazardous Materials Storage	Haz Mat Area		
T-9	Lubrication Oil	55 (x30)	Refilling Lubrication Tanks	55-Gallon Drum Area		
T-10	Nitro 10 GBXT	16,500	Spare Transformer - In Case of Emergency	Electrical Equipment @ Spare Transformer		
T-11	Nitro 10 GBXT	827	Back up Transformer for Emergency Loss of Power	Electrical Equipment Northeast of Spare Transformer		

^{*} See also the APSA Tank Statement included in this HMBP



ABOVEGROUND PETROLEUM STORAGE ACT: TANK FACILITY STATEMENT

I. IC	DENTIFICATION
	FACILITY NAME (Same as BUSINESS NAME or DBA – Doing Business As):
	FACILITY PHONE:
	FACILITY ADDRESS:
	FACILITY CITY:STATE: CA ZIP CODE:
	CONTACT NAME:
	CONTACT PHONE:
II. T	OTAL FACILITY STORAGE CAPACITY Tank facility's total aboveground petroleum storage capacity (in gallons) for all tanks and containers, including tanks in an underground area, with a shell capacity <i>greater than or equal to</i> 55 gallons (see instructions for details):
	gallons
II. T	ANK AND CONTAINER DETAILS
	Details of each aboveground petroleum storage tank or container <i>greater than</i> 10,000 gallons in shell capacity (attach additional forms if needed)
	Tank 1:
	Tank or Container ID Number:
	Contents (Gas, Diesel, etc.):
	Shell Capacity (in gallons):
	Location of Tank or Container:
	Tank 2:
	Tank or Container ID Number:
	Contents (Gas, Diesel, etc.):

APSA - TANK FACILITY STATEMENT (con't)



Shell Capacity (in gallons):
Location of Tank or Container:
Tank 3:
Tank or Container ID Number:
Contents (Gas, Diesel, etc.):
Shell Capacity (in gallons):
Location of Tank or Container:
Tank 4:
Tank or Container ID Number:
Contents (Gas, Diesel, etc.):
Shell Capacity (in gallons):
Location of Tank or Container:
Tank 5:
Tank or Container ID Number:
Contents (Gas, Diesel, etc.):
Shell Capacity (in gallons):
Location of Tank or Container:
Tank 6:
Tank or Container ID Number:
Contents (Gas, Diesel, etc.):
Shell Capacity (in gallons):
Location of Tank or Container:
Tank 7:
Tank or Container ID Number:
Contents (Gas, Diesel, etc.):
Shell Capacity (in gallons):
Location of Tank or Container:

APSA - TANK FACILITY STATEMENT (con't)



Tank 8:
Tank or Container ID Number:
Contents (Gas, Diesel, etc.):
Shell Capacity (in gallons):
Location of Tank or Container:
Tank 9:
Tank or Container ID Number:
Contents (Gas, Diesel, etc.):
Shell Capacity (in gallons):
Location of Tank or Container:
Tank 10:
Tank or Container ID Number:
Contents (Gas, Diesel, etc.):
Shell Capacity (in gallons):
Location of Tank or Container:
Tank 11:
Tank or Container ID Number:
Contents (Gas, Diesel, etc.):
Shell Capacity (in gallons):
Location of Tank or Container:
Tank 12:
Tank or Container ID Number:
Contents (Gas, Diesel, etc.):
Shell Capacity (in gallons):
Location of Tank or Container:

ABOVEGROUND PETROLEUM STORAGE ACT: Tank Facility Statement Instructions

A tank facility is subject to the Aboveground Petroleum Storage Act (APSA) if any of the following apply:

- a. The tank facility is subject to the oil pollution prevention regulations specified in the Code of Federal Regulations, Title 40, Part 112 (commencing with section 112.1); OR
- The tank facility has a storage capacity of 1,320 gallons or more of petroleum;
 OR
- c. The tank facility has a storage capacity of less than 1,320 gallons of petroleum **AND** has one or more tanks in an underground area meeting the conditions specified in the Health and Safety Code (HSC) Section 25270.2(o)(1). If this subdivision is applicable, only tanks meeting the conditions specified in HSC Section 25270.2(o)(1) shall be included as storage tanks and subject to APSA.

Each owner or operator of a tank facility that is subject to APSA is required to submit a Tank Facility Statement annually into the California Environmental Reporting System (CERS). A Hazardous Materials Business Plan (HMBP) submittal into CERS satisfies the requirement to file the Tank Facility Statement.

I. FACILITY INFORMATION

FACILITY NAME – Enter the full legal name of the tank facility. (Same as BUSINESS NAME or DBA-Doing Business As.)

FACILITY PHONE – Enter the phone number, area code first, and any extension.

FACILITY ADDRESS – Enter the street address where the tank facility is located. No post office box numbers are allowed. This information must provide a means to locate the facility geographically.

CITY – Enter the city or unincorporated area in which the tank facility is located.

ZIPCODE – Enter the zip code of the tank facility. The extra 4-digit zip code may also be added.

CONTACT NAME – Enter the name of the person, who receives aboveground storage tank correspondences, for the tank facility.

CONTACT PHONE – Enter the phone number of the person who receives aboveground storage tank correspondences for the tank facility, area code first, and any extension.

II. TOTAL FACILITY STORAGE CAPACITY

TOTAL FACILITY STORAGE CAPACITY – Enter the facility's total aboveground petroleum storage tank capacity (in gallons). Add the **shell capacity** of each aboveground petroleum storage tank and container, including each tank in an underground area, greater than or equal to 55 gallons. Do not enter the actual volume stored in the tank or container. To calculate the capacity of 55 gallon drums on site, use the **maximum** number of drums that would typically be stored at your facility.

III. TANK AND CONTAINER DETAILS

Provide details of each aboveground petroleum storage tank and container greater than 10,000 gallons in shell capacity (attach additional forms if needed) at your facility. If your facility does not have an aboveground storage tank or container with shell capacity greater than 10,000 gallons, you can skip the data fields in this section of the Tank Facility Statement.

TANK OR CONTAINER ID NUMBER – Enter a unique identification number for each aboveground petroleum storage tank and container at your facility. You may create your own numbering system.

CONTENTS – Enter the contents (i.e. DIESEL, GASOLINE, OIL, etc.) of each aboveground petroleum storage tank and container at your facility.

SHELL CAPACITY – Enter the shell capacity (in gallons) of each aboveground petroleum storage tank and container at your facility.

LOCATION OF TANK OR CONTAINER – Enter the general location of each aboveground petroleum storage tank or container at your facility (e.g., at north end of facility; inside maintenance shop).

DEFINITIONS

TANK FACILITY – Any one or more aboveground storage tanks, including any piping that is integral to the tanks that *contain petroleum* and that are used by an owner or operator at a single location or site.

ABOVEGROUND STORAGE TANK (AST) – A tank (or container) with the capacity to store 55 gallons or more of petroleum that is substantially or totally above the surface of the ground, including a tank in an underground area. Some AST exceptions exist; they are specified in HSC section 25270.2(a). An AST includes drums, totes, oil-filled operational or manufacturing equipment, etc.

PETROLEUM – Crude oil, or a fraction thereof, that is liquid at 60°F temperature and 14.7 pounds per square inch absolute pressure. Petroleum includes gasoline, diesel, E85, motor oil, waste oil, etc., but does NOT include antifreeze, propane, or natural gas.

STORAGE – Containment, handling, or treatment of petroleum, for any period, including standby storage, seasonal storage, and temporary storage.

STORAGE CAPACITY (of a tank facility) – The aggregate shell capacity of each AST (including containers 55 gallons and greater) at a tank facility. For example, if a facility has two 500-gallon capacity diesel ASTs and a 600-gallon capacity waste oil AST, but only keeps each AST half full, then the storage capacity for this facility is 1,600 gallons (calculated by adding the shell capacity of each tank/container).

Active Conditions of Certification

tetive comanti	ons of Certificat	1011						
CODE	SECTION	CONDITION	VERIFICATION	Compliance	COMPLIANCE STATUS			
	AIR QUALITY (AQ) THE FOLLOWING CONDITIONS OF CERTIFICATION APPLY TO THE TWO INDIVIDUAL GAS TURBINE GENERATORS (DISTRICT PERMIT NUMBERS: B007953, B007954)							
AQ-T1	Air Quality	Operation of the turbines shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.	The project owner shall make the site available for inspection by representatives of the District, California Air Resources Board (ARB), the United States Environmental Protection Agency (U.S. EPA) and Energy Commission.	Site Complies with AQ-T1	Ongoing: Blythe Energy documents facility-wide operations and maintains records for identification of breakdown conditions. Operation of this equipment is conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted.			
AQ-T2		The turbines shall be exclusively fueled with pipeline quality natural gas with a sulfur content not exceeding 0.5 grains per 100 dscf on a twenty-four hour basis and not exceeding 0.25 grains per 100 dscf on a rolling twelve month average basis. The turbines shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.	The project owner shall incorporate into the Quarterly Operations Report either a monthly laboratory analysis showing the fuel sulfur content, a monthly fuel sulfur content report from the fuel supplier(s), or the results from a custom fuel monitoring schedule approved by USEPA for compliance with the fuel monitoring provisions of 40 CFR 60 Subpart GG.	Site Complies with AQ-T2	Ongoing: Blythe Energy conducts monthly analysis of the natural gas. Analysis is performed by an independent lab and results are logged and submitted in quarterly reports.			
AQ-T4		Emissions from the turbines (including the associated duct burners) shall not exceed the following emission limits at any firing rate, except for CO, NOx and VOC during periods of startup, shutdown and malfunction: a. Hourly rate, computed every 15 minutes, verified by CEMS and annual compliance tests: i. NOx as NO2 — the most stringent of 19.80 lb/hr or 2.5 ppmvd corrected to 15% O2 and averaged over one hour). ii. NOx as NO2 — effective May 7, 2016, 2.0 ppmvd corrected to 15% O2 and averaged over a rolling 12 month period. iii. CO — the most stringent of 17.5 lb/hr or 4.0 ppmvd corrected to 15% O2 and averaged over 3 hours. iv. CO — 10 lb/hr averaged over a rolling 12-month period b. Hourly rates, verified by annual compliance tests or other compliance methods in the case of SOx: i. VOC as CH4 — 2.9 lb/hr (based on 1 ppmvd corrected to 15% O2). ii. SOx as SO2 — 2.7 lb/hr (based on 0.5 grains/100 dscf fuel sulfur). iii. PM10 — 6.2 lb/hr.	The project owner shall submit the following in each Quarterly Operations Report: All continuous emissions data reduced and reported in accordance with the District approved CEMS protocol; a list of maximum hourly, maximum daily, monthly, total quarterly, total calendar year, and rolling 12-month emissions of NOx, CO, PM10, VOC and SOx (including calculation protocol); total monthly and rolling 12-month fuel use in the gas turbines and duct burners; average NO2 concentration and average CO mass emission rate, for all operating periods except during startup, shutdown and malfunction, for each gas turbine and associated duct burner, calculated on a rolling 12-month basis; a log of all excess emissions, including the information regarding malfunctions/breakdowns required by District Rule 430; operating parameters of emission control equipment, including but not limited to ammonia injection rate, NOx emission rate and ammonia slip; any maintenance to any air pollutant control system (recorded on an as-performed basis); and any permanent changes made in the plant process or production that could affect air pollutant emissions, and when the changes were made.	AQ-T4	Ongoing: Emissions from the Gas Turbines including Duct burners are verified by CEMS and annual compliance tests. Quarterly reports are submitted in accordance with the District approved CEMS protocol.			
AQ-T5		Emissions of CO and NOx from the turbines shall only exceed the limits contained in AQ-T4 during startup and shutdown periods as follows: a. Startup is defined as the period beginning with ignition and lasting until either the equipment complies with all condition AQ-T4 operating permit limits for two consecutive 15-minute averaging periods or four hours after ignition, whichever occurs first. Shutdown is defined as the period beginning with the lowering of equipment from base load and lasting until fuel flow is completely off and combustion has ceased. b. The emissions from each startup and shutdown event shall not exceed the following, verified by CEMS: i. NOX — 376 lb. ii. CO — 3600 lb. c. Effective May 7, 2016, the CO emissions from all startup and shutdown events at both power blocks, averaged over a rolling 12-month period, shall not exceed 750 lb/event, verified by CEMS.	The emission limits defined in this condition apply to one combined startup/shutdown event (one cycle). The project owner shall include a detailed record of each startup and shutdown event in the Quarterly Operations Report. Each record shall include, but not be limited to: duration; fuel consumption; total emissions of NOx and CO; average CO emissions from all startups and shutdowns of the gas turbines on a per event basis calculated on a rolling 12-month basis; and the date and time of the beginning and end of each startup and shutdown event. Additionally, the project owner shall report the total plant operation time (hours), number of startups, hours in startup and shutdown, and average plant operation schedule (hours per day, days per week, weeks per year).	Site Complies with AQ-T5	Ongoing: Blythe Energy uses CEMS to verify emissions and maintains records of startup and shutdown periods. Quarterly reports are submitted with detailed record of each startup and shutdown event.			
AQ-T6		Aggregate emissions from the turbines, including the duct burner, shall not exceed the following emission limits, based on a calendar day summary: a. NOX — 5762 lb/day, verified by CEMS. b. CO — 8004 lb/day, verified by CEMS. c. VOC as CH4 — 239 lb/day, verified by compliance tests and hours of operation in steady-state, pre-mix mode. d. SOx as SO2 — 130 lb/day, verified by fuel sulfur content and fuel use data. e. PM10 — 298.5 lb/day, verified by compliance tests and hours of operation.	The project owner shall submit the following in each Quarterly Operations Report: All continuous emissions data reduced and reported in accordance with the District approved CEMS protocol; a list of maximum hourly, maximum daily, total quarterly, and total calendar year emissions of NOx, CO, PM10, VOC and SOx (including calculation protocol); a log of all excess emissions, including the information regarding malfunctions/breakdowns required by District Rule 430; operating parameters of emission control equipment, including but not limited to ammonia injection rate, NOx emission rate and ammonia slip; any maintenance to any air pollutant control system (recorded on an as-performed basis); and any permanent changes made in the plant process or production that could affect air pollutant emissions, and when the changes were made.	Site Complies with AQ-T6	Ongoing: Blythe Energy uses CEMS, fuel content recordkeeping, and annual compliance tests to verify Daily emissions and maintains records. Quarterly reports are submitted in accordance with the District approved CEMS protocol.			
AQ-T7		Emissions from all units at this facility, including the cooling towers, shall not exceed the following emission limits, based on a rolling 12 month summary: a. NOx —97 tons/year, verified by CEMS. b. CO —175 tons/year, verified by CEMS. c. VOC as CH4 — 24 tons/year, verified by compliance tests and hours of operation in steady-state, pre-mix mode. d. SOx as SO2 — 12 tons/year, verified by fuel sulfur content and fuel use data. e. PM10 —56.9 tons/year, verified by compliance tests and hours of operation. These limits shall apply to all emissions from all units at this facility, and shall include emissions during all modes of operation, including startup, shutdown and malfunction.	The project owner shall submit the following in each Quarterly Operations Report: All continuous emissions data reduced and reported in accordance with the District approved CEMS protocol; a list of maximum hourly, maximum daily, monthly, total quarterly, total calendar year, and rolling 12-month emissions of NOx, CO, PM10, VOC and SOx (including calculation protocol); total monthly and rolling 12-month fuel use in the gas turbines and duct burners; average NO2 concentration and average CO mass emission rate for all operating periods except during startup, shutdown and malfunction for each gas turbine and associated duct burner, calculated on a rolling 12-month basis; a log of all excess emissions, including the information regarding malfunctions/breakdowns required by District Rule 430; operating parameters of emission control equipment, including but not limited to ammonia injection rate, NOx emission rate and ammonia slip; any maintenance to any air pollutant control system (recorded on an as-performed basis); and any permanent changes made in the plant process or production that could affect air pollutant emissions, and when the changes were made.	AQ-T7	Ongoing: Blythe Energy maintains emissions data to demonstrate compliance with rolling 12 month limits. Quarterly reports are submitted in accordance with the District approved CEMS protocol.			

BE-GEN-07112010

Master Compliance Matrix
Active Conditions of Certification

AltaGas Blythe Energy

CODE	SECTION	CONDITION	VERIFICATION	Compliance	COMPLIANCE STATUS
AQ-T8	Air Quality	Particulate emissions from this equipment shall not exceed opacity equal to or greater than twenty percent (20%) for a period aggregating more than three (3) minutes in any one (1) hour, excluding uncombined water vapor.	The project owner shall make the site available for inspection by representatives of the District, ARB, U.S. EPA and Energy Commission.	Site Complies with AQ-T8	Ongoing: Compliance with opacity limit is determined by annual EPA Method 9 testing. The site is made available for inspection.
AQ-T10	Air Quality	The project owner shall not operate the turbines after the initial commissioning period without the selective catalytic NOx reduction system with valid District permit, as well as the oxidation catalyst with valid District permit installed and fully functional.	The project owner shall make the site available for inspection by representatives of the District, ARB, U.S. EPA and the Energy Commission.	Site Complies with AQ-T10	Ongoing: The combustion turbines are not operated without the fully functional selective catalytic NOx reduction system with valid District permit C007959/60, as well as the oxidation catalyst with valid District permit C010832/33. The site is made available for inspection.
AQ-T11	Air Quality	The project owner shall provide stack sampling ports and platforms necessary to perform source tests required to verify compliance with District rules, regulations and permit conditions. The location of these ports and platforms shall be subject to District approval.	The project owner shall make the site available for inspection by representatives of the District, ARB, EPA and the CEC.	Site Complies with AQ-T11	Ongoing: Blythe Energy stacks have installed sampling ports and platforms necessary to perform source tests required to verify compliance. The site is made available for inspection.
AQ-T12	Air Quality	Emissions of NOx, CO, oxygen and ammonia slip shall be monitored using a Continuous Emissions Monitoring System (CEMS). Each CEMS shall be operational whenever the associated combustion turbine generator is in operation, including during periods of startup, shutdown and malfunction. Turbine fuel consumption shall be monitored using a continuous monitoring system. Stack gas flow rate shall be monitored using either a Continuous Emission Rate Monitoring System (CERMS) meeting the requirements of 40 CFR Part 75 Appendix A or a stack flow rate calculation method. The operator shall install, calibrate, maintain, and operate these monitoring systems according to a District approved monitoring plan and MDAQMD Rule 218, and they shall be installed prior to initial equipment startup. Six (6) months prior to installation the operator shall submit a monitoring plan for District review and approval.	The project owner shall make the site available for inspection by representatives of the District, ARB, EPA and the CEC.	Site Complies with AQ-T12	Ongoing: Emissions of NOx, CO, oxygen and ammonia slip are monitored using a Continuous Emissions Monitoring System (CEMS) and 40 CFR 75 Appendix D (fuel metering and fuel sampling and analysis). The facility installs, calibrates, maintains, and operates these monitoring systems according to District-approved monitoring plan and MDAQMD Rule 218. The site is made available for inspection. An updated Title V Operating Permit was issued on 11/1/2023 where respective conditions were updated to better reflect the monitoring practices used by Blythe which now differ slightly than the "Condition" listed in the CEC Permit. The CEC permit should be updated to reflect the Title V Operating Permit.
AQ-T13	Air Quality	The project owner shall conduct all required compliance/certification tests in accordance with a District-approved test plan.	Thirty (30) days prior to the compliance/certification tests the operator shall provide a written test plan for District review and approval. Written notice of the compliance/certification test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such compliance/certification tests shall be submitted to the District within forty-five (45) days after testing.	AQ-T13	Ongoing: Blythe Energy conducts testing in accordance with a District-approved test plan and provides the District with notice of test date(s) and a test report within applicable deadlines.
AQ-T14	Air Quality	The project owner shall perform the following annual compliance tests in accordance with the MDAQMD Compliance Test Procedural Manual. The test report shall be submitted to the District no later than six weeks prior to the expiration date of this permit. The following compliance tests are required: a. NOx as NO2 in ppmvd at 15% O2 and lb/hr (measured per U.S. EPA Reference Methods 19, 20, or 7E). If testing is performed at 90%-100% of rated capacity, then the annual calibration RATA associated with the NOx CEMS in use on these units may be used in lieu of the required annual U.S. EPA Reference Method 20, as long as all of the requirements of prior test notification, proper test result submittal, etc., are followed. b. VOC as CH4 in ppmvd at 15% O2 and lb/hr (measured per U.S. EPA Reference Methods 25A and 18). c. SOx as SO2 in ppmvd at 15% O2 and lb/hr. d. CO in ppmvd at 15% O2 and lb/hr (measured per U.S. EPA Reference Method 10). e. PM10 in mg/m3 at 15% O2 and lb/hr (measured per U.S. EPA Reference Methods 5 and 202 or CARB Method 5). f. Flue gas flow rate in dscfm. g. Opacity (measured per U.S. EPA reference Method 9). h. Ammonia slip in ppmvd at 15% O2.	The annual source test report shall be submitted to the District and CPM no later than six (6) weeks prior to the expiration date of the District permit.	Site Complies with AQ-T14	Ongoing: Blythe Energy performs annual compliance tests in accordance with the MDAQMD Compliance Test Procedural Manual. An updated Title V Operating Permit was issued on 11/1/2023 which removes reference to the "six (6) weeks prior to expiration date of this permit". The CEC permit should be updated to reflect the Title V Operating Permit.

AltaGas Blythe Energy BE-GEN-07112010

Updated: 07-25-24 Master Compliance Matrix

Active Conditions of Certification

Active Conditi	ions of Certificat	ion		,	
CODE	SECTION	CONDITION	VERIFICATION	Compliance	COMPLIANCE STATUS
AQ-T15	,	VOC emissions during startup and shutdown periods will be calculated by the CEMS using the following factors: For Permit B007953 (CT1) only: a. startup events: 0.0048 lb/mmBtu b. shutdown events: 0.0220 lb/mmBtu For Permit B007954 (CT2) only: a. startup events: 0.0056 lb/mmBtu b. shutdown events: 0.00107 lb/mmBtu	The calculated emission factors shall be reported in each Quarterly Operations Report, which is required by AQ-T17.	Site Complies with AQ-T15	Ongoing: VOC emissions are calculated using emission factors during periods of startup and shutdown.
AQ-T16		Continuous monitoring systems shall meet the following acceptability testing requirements from 40 CFR 60 Appendix B: a. For NOx, Performance Specification 2. b. For O2, Performance Specification 3. c. For CO, Performance Specification 4. d. For stack gas flow rate, Performance Specification 6 (if CERMS is installed.) e. For ammonia, a District approved procedure that is to be submitted by the project owner.	The project owner shall discuss compliance with these specifications in each Quarterly Operations Report.	Site Complies with AQ-T16	Ongoing: Blythe Energy Continuous monitoring systems meet the acceptability testing requirements. An updated Title V Operating Permit was issued on 11/1/2023 where respective conditions were updated to better reflect the monitoring practices used by Blythe which now differ slightly than the "Condition" listed in the CEC Permit. The CEC permit should be updated to reflect the Title V Operating Permit.
AQ-T17		The project owner shall submit to the Mojave Desert Air Pollution Control District (District) Air Pollution Control Officer (APCO), the United States Environmental Protection Agency (U.S. EPA) Region IX and the California Energy Commission a Quarterly Operations Report for the preceding calendar quarter by January 30, April 30, July 30 and October 30 of each year this permit is in effect. Each January 30 submittal shall include a summary of the reported information for the previous year. This information shall be maintained on site for a minimum of five (5) years and shall be provided to District or Energy Commission personnel on request. a. Operating parameters of emission control equipment, including but not limited to ammonia injection rate, NOx emission rate and ammonia slip. b. Total plant operation time (hours), number of startups, hours in startup, and hours in shutdown period. c. Date and time of the beginning and end of each startup and shutdown period. d. Average plant operation schedule (hours per day, days per week, weeks per year). e. All continuous emissions data reduced and reported in accordance with the District approved CEMS protocol. f. Maximum hourly, maximum daily, total quarterly, and total calendar year emissions of NOx, CO, PM10, VOC and SOx (including calculation protocol). g. Total monthly and rolling 12-month fuel use in the gas turbines and duct burners. i. Average NO2 concentration and average CO mass emission rate, for all operating periods except during startup, shutdown and malfunction, for each gas turbine and associated duct burner, calculated on a rolling 12-month basis. j. Average NO2 emissions from all startups and shutdowns of the gas turbines, on a per event basis, calculated on a rolling 12-month basis. k. Fuel sulfur content (monthly laboratory analyses, monthly natural gas sulfur content reports from the natural gas supplier(s), or the results of a custom fuel monitoring schedule approved by U.S. EPA for compliance with the fuel monitoring provisions of 40 CFR		Site Complies with AQ-T17	Ongoing: Quarterly reports containing the required information were submitted on time for the 2023Q2, 2023Q3, and 2024Q2 reporting periods. The 2023Q4 Quarterly Emissions Monitoring Report was submitted late. An attempt was made to submit the report prior to the 1/30/24 deadline; however, unbeknownst to Blythe, it was not transmitted due to an unexpected email related issue. MDAQMD notified Blythe that the report was not received in correspondence dated 2/26/24 and Blythe promptly submitted the report on 3/1/24.
AQ-T18		Effective May 7, 2016, total fuel use in the two gas turbines and two duct burners (Permit #B007953 combustion turbine generator power block (CT1), Permit #B007954 combustion turbine generator power block (CT2), Permit #B007955 duct burner unit 1 and Permit #B007956 duct burner unit 2)shall not exceed 31,852,800 MMBtu in any rolling 12-month period.	The project owner shall submit the total monthly and rolling 12-month fuel use in the gas turbines and duct burners in each Quarterly Operations Report.	Site Complies with AQ-T18	Ongoing: Quarterly reports are submitted with total monthly and rolling 12-month fuel use data.
	1	The following Conditions of Certification apply to duct burner unit 1 (District Perm	 hit Number: R007955) and duct hurner unit 2 (District Permit Number: R007956)	1	
AQ-DB1		Operation of the duct burners shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.		Site Complies with AQ-DB1	Ongoing: The site is made available for inspection.
-					

BE-GEN-07112010 Updated: 07-25-24

Master Compliance Matrix Active Conditions of Certification

AltaGas Blythe Energy

CODE	SECTION	CONDITION	VERIFICATION	Compliance	COMPLIANCE STATUS
AQ-DB2	Air Quality	The duct burners shall be exclusively fueled with natural gas and shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.	The project owner shall make the site available for inspection by representatives of the District, ARB, U.S. EPA and Energy Commission.	Site Complies with AQ-DB2	Ongoing: The duct burners are exclusively fueled with natural gas and shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
AQ-DB3	Air Quality	The duct burners shall not be operated unless the combustion turbine generator with valid District permit B007953 (or B007954), selective catalytic reduction system with valid District permit C007959 (or C007960), and oxidation catalyst C010832 (or C010833) are in operation.	A summary of fuel use and equipment operation for each duct burner shall be included in each Quarterly Operations Report.	Site Complies with AQ-DB3	Ongoing: A summary of fuel use and equipment operation for each duct burner is included in quarterly reports.
AQ-DB4	Air Quality	Fuel use by duct burners shall be recorded and maintained on site for a minimum of five (5) years and shall be provided to District, ARB, Energy Commission or U.S. EPA personnel on request	The above information shall be recorded and maintained on site for a minimum of five (5) years and shall be provided to District or Energy Commission personnel on request.	Site Complies with AQ-DB4	Ongoing: Files are stored for 5 years and available upon request.
		The following Conditions of Certification apply to the two individual selective catal	utic NOx reduction systems (SCR) (District Permit Numbers: C007959, C007960.)		·L
AQ-SCR1	Air Quality	Operation of the SCR units shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.	The project owner shall make the site available for inspection by representatives of the District, ARB, U.S. EPA and Energy Commission.	Site Complies with AQ-SCR1	Ongoing: The site is made available for inspection.
AQ-SCR2	Air Quality	The SCR Units shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.	A summary of significant operation and maintenance events for each selective catalytic reduction system shall be included in the Quarterly Operations Reports.	Site Complies with AQ-SCR2	Ongoing: SCR Units are operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
AQ-SCR3	Air Quality	The SCR Units shall be operated concurrently with the combustion turbine generator with valid MDAQMD permit B007953 (or B007954).	The project owner shall make the site available for inspection by representatives of the District, ARB, U.S. EPA and Energy Commission.	Site Complies with AQ-SCR3	Ongoing: SCR Units are operated concurrently with the combustion turbines. The site is made available for inspection.
AQ-SCR4	Air Quality	Ammonia shall be injected whenever the selective catalytic reduction system has reached or exceeded 550 degree Fahrenheit. Except during periods of startup and shutdown, ammonia slip shall not exceed 10 ppmvd (corrected to 15% O2), averaged over three hours.	The project owner shall maintain a log of the SCR temperatures and the commencement of ammonia injection times. This information shall be recorded and maintained on site for a minimum of five (5) years and shall be provided to District and Energy Commission personnel on request.	Site Complies with AQ-SCR4	Ongoing: Files are stored for 5 years and available upon request.
AQ-SCR5	Air Quality	Ammonia injection by the SCR units in pounds per hour shall be recorded and maintained on site for a minimum of five (5) years and shall be provided to District, ARB, Energy Commission or U.S. EPA personnel on request.	The project owner shall maintain a log of the SCR temperatures and the commencement of ammonia injection times. This information shall be recorded and maintained on site for a minimum of five (5) years and shall be provided to District and Energy Commission personnel on request.	Site Complies with AQ-SCR5	Ongoing: Files are stored for 5 years and available upon request.
		The following Conditions of Certification apply to the two oxidation			
AQ-OC1	Air Quality	Operation of the OC units shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.	The project owner shall make the site available for inspection by representatives of the District, ARB, U.S. EPA and Energy Commission.	AQ-OC1	Ongoing: The site is made available for inspection.
AQ-OC2	Air Quality	The OC Units shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.	A summary of significant operation and maintenance events for each oxidation system unit shall be included in the Quarterly Operations Reports.	Site Complies with AQ-OC2	Ongoing: OC Units are operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
AQ-OC3	Air Quality	The OC Units shall be operated concurrently with the combustion turbine generator with valid MDAQMD permit B007953 (or B007954).		Site Complies with AQ-OC3	Ongoing: The site is made available for inspection.
		The following Conditions of Certification apply to main cooling tower (District Perm	it Number: B007957) and chiller cooling tower (District Permit Number: B007958)		•
AQ-CT1	Air Quality	Operation of the cooling towers shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.	The project owner shall make the site available for inspection by representatives of the District, ARB, U.S.	Site Complies with AQ-CT1	Ongoing: The site is made available for inspection.
AQ-CT2	Air Quality	The cooling towers shall be operated and maintained in strict accord with the recommendations of their manufacturer or supplier and/or sound engineering principles.	A summary of significant operation and maintenance events for each cooling tower shall be included in the Quarterly Operations Reports.	Site Complies with AQ-CT2	Ongoing: Cooling Towers are operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
AQ-CT3	Air Quality	The drift rate shall not exceed 0.0006 percent with a maximum circulation rate of 146,000 gallons per minute (gpm) for the Main Cooling Tower and 22,000 gpm for the Chiller Cooling Tower. The maximum hourly PM10 emission rate shall not exceed 0.546 pounds per hour from both cooling towers, as calculated per the written District approved protocol.	Compliance documentation in accordance with the written District approved protocol shall be submitted to the District and the CPM.	Site Complies with AQ-CT3	Ongoing: Cooling Towers are operated in accordance with District approved protocol.

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Master Compliance Matrix

Active Conditions of Certification

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CODE	SECTION	CONDITION	VERIFICATION	Compliance	COMPLIANCE STATUS
AQ-CT4		Whenever the power plant is in operation, the operator shall perform tests of the blow-down water quality once in every seven day period at a minimum; to clarify, if at any time during that same seven day period the power plant has run, then the owner operator shall perform blow-down water quality tests. The operator shall maintain a log that contains the date and result of each blow-down water quality test, and the resulting mass emission rate. This log shall be maintained on site for a minimum of five (5) years and shall be provided to District, ARB, Energy Commission or U.S. EPA personnel on request.	A summary of the results of the weekly blow-down water quality tests and the results of the mass emission rate calculations shall be submitted in the Quarterly Operations Report.	Site Complies with AQ-CT4	Ongoing: Blow-down water quality test results are included in Quarterly reports.
AQ-CT5	Air Quality	The operator shall conduct all required cooling tower water quality tests in accordance with a District-approved test and emissions calculation protocol. Thirty (30) days prior to the first such test the operator shall provide a written test and emissions calculation protocol for District review and approval.	Thirty (30) days prior to the first such test the operator shall provide a written test and emissions calculation protocol for District and CPM review.	Site Complies with AQ-CT5	Ongoing: water sampling is taken daily when the tower is in service.
AQ-CT6	Air Quality	A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure shall be submitted to the District for approval at least thirty (30) days prior to construction and shall be kept on-site and available to District personnel on request.	The project owner shall make the site available for inspection by representatives of the District, ARB, U.S. EPA and Energy Commission.	Site Complies with AQ-CT6	Ongoing: The site is made available for inspection.
		The following Conditions of Certification apply to the non-certified diesel IC engine, emergency fire pump (Dis			
AQ-IC1	Air Quality	The IC engines shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, the IC engines shall also be operated in accordance with all data and specifications submitted with the application for this permit.	A summary of significant operation and maintenance events for the IC engines shall be included in the Quarterly Operations Reports.	Site Complies with AC-IC1	Ongoing: IC engines are installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants.
AQ-IC2	Air Quality	The diesel IC engines shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements. The propane IC engine shall only be fired on propane (LPG).	The above information shall be maintained on-site for a minimum of five (5) years and shall be provided to District and/or Energy Commission personnel on request.	Site Complies with AC-IC2	Ongoing: Files are stored for 5 years and availab upon request.
AQ-IC3	Air Quality	A non-resettable hour meter with a minimum display capacity of 9,999 hours shall be installed and maintained on the IC engines to indicate elapsed engine operating time.	The above information shall be maintained on-site for a minimum of five (5) years and shall be provided to District and/or Energy Commission personnel on request.	Site Complies with AC-IC3	Ongoing: Files are stored for 5 years and availab upon request.
AQ-IC4		The diesel IC engines shall be limited to use for emergency power, defined as in response to a fire or due to low fire water pressure. In addition, the diesel IC engine (permit #E007961) shall be operated no more than 20 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour per year limit. The propane IC engine shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, the propane IC engine shall be operated no more than 100 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 100 hour per year limit.		Site Complies with AC-IC4	Ongoing: Files are stored for 5 years and availab upon request.
AQ-IC5		The requirements of section 93115.6 and 93116 of Airborne Toxic Control Measure for Stationary Compression Ignition Engines (ATCM) (Effective October 18, 2007), the hour limits indicated in AQ-IC4, do not apply to in-use emergency fire pump assemblies that are driven directly by stationary diese fueled CI engines and only operated the number of hours necessary to comply with the testing requirements of National Fire Protection Association (NFPA) 25 "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 2002 edition, which is incorporated herein by reference.		Site Complies with AC-IC5	Ongoing: Files are stored for 5 years and availab upon request.
AQ-IC6	Air Quality	The project owner shall maintain an operations log for the IC engines current and onsite, either at the engine location or at an on-site location, for a minimum of five (5) years, and provide to District, ARB, Energy Commission or U.S. EPA personnel upon request. The log shall include, at a minimum, the information specified below: a. Date of each use and duration of each use (in hours), using the engines hour meter; b. Reason for use (testing & maintenance, emergency, required emission testing); c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and total hours; d. Monthly and rolling 12-month total CO, NOx and PM10 emissions, calculated based on monthly fuel use and District-approved emission factors; and e. For diesel IC engines, fuel sulfur concentration (the project owner may use the supplier's certification of sulfur content if it is maintained as part of this log).		Site Complies with AC-IC6	Ongoing: Files are stored for 5 years and availabl upon request.
AQ-IC7		The project owner shall conduct inspections in accord with the following schedule. All inspections must occur at least annually regardless of operating hours. a. Change oil and filter every 500 hours of operation or annually, whichever comes first, or use an oil change analysis program to extend oil change frequencies per the requirements in 40 CFR 63.6625(i); b. For diesel IC engines, inspect air cleaner every 1,000 hours of operation or annually, whichever comes first. For propane IC engine, inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and c. inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	The above information shall be maintained on-site for a minimum of five (5) years and shall be provided to District and/or Energy Commission personnel on request.	Site Complies with AC-IC7	Ongoing: Files are stored for 5 years and availablupon request.
AQ-IC8	Air Quality	The project owner shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.	The above information shall be maintained on-site for a minimum of five (5) years and shall be provided to District and/or Energy Commission personnel on request.	Site Complies with AC-IC8	Ongoing: Files are stored for 5 years and available upon request.

AltaGas Blythe Energy BE-GEN-07112010

Master Compliance Matrix Active Conditions of Certification

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CODE	SECTION	CONDITION	VERIFICATION	Compliance	COMPLIANCE STATUS
AQ-IC9	Air Quality	The diesel IC engine (permit #E007961) is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines Title 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ (RICE NESHAPs).	The above information shall be maintained on-site for a minimum of five (5) years and shall be provided to District and/or Energy Commission personnel on request.	Site Complies with AC-IC9	Ongoing: Files are stored for 5 years and available upon request.
		The propane IC engine is subject to the requirements of 40 CFR 63 Subpart ZZZZ (RICE NESHAPs).			
		In the event of conflict between conditions and the referenced regulatory citations, the more stringent requirements shall govern.			
		HAZARDOUS MATERIALS HANDLING	CONDITIONS OF CERTIFICATION		
Haz-1	Hazardous Materials Handling	The project owner shall not use any hazardous material in reportable quantities, as specified in Title 40, C. F.R. Part 355, Subpart J, section 355.50, not listed in Appendix B of the AFC, or in Table 5.11-1 of the Petition for Post-Certification Amendment, unless approved in advance by the CPM.	The project owner shall provide to the CPM, in the Annual Compliance Report, a list of hazardous materials contained at the facility in reportable quantities.	Site Complies with Haz-1	Ongoing: Annual reports are submitted on time
		WASTE MANAGEMENT COND	OITIONS OF CERTIFICATION		
WASTE-2		Upon becoming aware of any impending waste management-related enforcement action, the project owner shall notify the CPM of any such action taken or proposed to be taken against it, or against any waste hauler or disposal facility or treatment operator with which the owner contracts.	The project owner shall notify the CPM in writing within 10 days of becoming aware of an impending enforcement action.	Site Complies with WASTE-2	Ongoing: No violations during this reporting period
WASTE-3		Prior to the start of construction and prior to the start of operation, the project owner shall prepare and submit to the CEC CPM, for review and comment, a waste management plan for all wastes generated during construction and operation of the facility, respectively. The plans shall contain, at a minimum, the following: • A description of all expected waste streams, including projections of frequency and hazard classifications; and • Methods of managing each waste, including treatment methods and companies contracted with for treatment services, waste testing methods to assure correct classification, methods of transportation, disposal requirements and sites, and recycling and waste minimization/reduction plans.	No less than Thirty (30) days prior to the start of construction, or a lesser time period mutually agreed upon, the project owner shall submit the construction waste management plan to the CPM for review. The operation waste management plan shall be submitted no less than 30 days prior to the start of project operation. The project owner shall submit any required revisions within 30 days of notification by the CPM (or mutually agreed upon date). In the Annual Compliance Reports, the project owner shall document the actual waste management methods used during the year compared to planned management methods.	Site Complies with WASTE-3	Ongoing: No violations during this reporting period
	- I	LAND	USE		1
LAND-2		The proposed water conservation offset program shall not permanently retire lands in the Palo Verde Valley (Priority 1 lands) designated as Prime Farmlands or Farmlands of Statewide Importance as defined by the Department of Conservation, or lands included in a Williamson Act Preserve. Following or retirement of farmlands shall not violate any provision of a Williamson Act Contract. Lands selected for retirement on the Mesa shall not include lands currently involved in active orchard crop production.	At least 60 days prior to implementation of the Water Conservation Offset Program (WCOP), the project owner shall submit detailed information to the CPM regarding the lands involved in the WCOP, including: 1) location and assessor parcel number, 2) Department of Conservation Important Farmland Program Classification, 3) crop and cultivation history, and 4) Williamson Act Preserve and contract status. If the program will fallow or retire any lands under Williamson Act contract, the project owner shall provide documentation that such fallowing or retirement has been reviewed and approved by Riverside County Planning Department and does not violate any provision of a Williamson Act contract. Any WCOP agreements that are altered or added to the program shall be submitted to the CPM at least 30 days prior to taking effect.		Ongoing: No Change
NOISE	1		hurst on the state of the state	la: 0 1: 1:1	In
NOISE-2	Noise	Throughout the construction and operation of the project, the project owner shall document, investigate, evaluate, and attempt to resolve all project-related noise complaints.	Within 30 days of receiving a noise complaint, the project owner shall file a copy of the Noise Complaint Resolution Form, or similar instrument approved by the CPM, with the City of Blythe (or applicable Agency), and with the CPM, documenting the resolution of the complaint. If mitigation is required to resolve a complaint, and the complaint is not resolved within a 30-day period, the project owner shall submit an updated Noise Complaint Resolution Form when the mitigation is finally implemented.		Ongoing : No complaints during this reporting period
	•	BIOLOGICAL R	RESOURCES	•	
BIO-3		The CPM approved Designated Biologist shall perform the following during project construction and operation: 1. Advise the project owner's Construction Manager on the implementation of the Biological Resource Conditions of Certification; 2. Supervise or conduct mitigation, monitoring and other biological resources compliance efforts, particularly in areas requiring avoidance or containing sensitive biological resources, such as, wetlands and special status species; and 3. Notify the project owner and the CPM of non-compliance with any Biological Resources Condition of Certification.		Site Complies with BIO-3	Ongoing during current operations.
BIO-6	Biological Resources	The evaporation ponds shall be monitored by plant personnel for bird and wildlife losses (see BIO-1). If a substantial number of bird and wildlife are found dead during any year, as determined by the CPM or Designated Biologist, then measures shall be identified and implemented that will substantially reduce or eliminate the problem. This monitoring shall continue for the first three years of plant operations, and depending on the results, could be discontinued at that time.	In the Annual Compliance Report, the project owner shall submit records of all monitoring dates, data collected, annual report, and any corrective actions taken in the Annual Compliance Report to the CPM.	Site Complies with BIO-6	Ongoing: See Biologist annual report
BIO-8	Biological Resources	The water quality in the evaporation ponds shall be monitored monthly for the first three years of operation. Collections of invertebrates shall be taken from the evaporation ponds at the same time, and these samples preserved (e.g., alcohol and water in sealed glass containers labeled with date and location).	In the Annual Compliance Report, the project owner shall submit records of all monitoring dates, data collected, annual report, and any corrective actions taken in the Annual Compliance Report to the CPM.	Site Complies with BIO-8	Ongoing: See Biologist annual report
BIO-9	Biological Resources	The project owner shall conduct maintenance monitoring of the desert tortoise exclusion fencing on a monthly basis and complete repairs within one week of a problem being identified. Temporary fencing must be installed at any gaps opened in the project site fence if those gaps will be left open overnight.	The project owner shall submit records of all monitoring dates, identify the locations that required repair, and any corrective actions taken or temporary fence installed in the Annual Compliance Report.	Site Complies with BIO-9	Ongoing: See Biologist annual report

AltaGas Blythe Energy Master Compliance Matrix

BE-GEN-07112010 Updated: 07-25-24

Active Conditions of Certification

SECTION	CONDITION	VERIFICATION	Compliance	COMPLIANCE STATUS
Biological Resources	A comprehensive exotic control program for California Department of Agriculture List A, List B, and Red Alert weeds, shall be implemented at the 76-acre power plant site. This program should be implemented until such time that the adjacent land use on the north and west sides is no longer a natural community or agriculture, or until the plant is permanently closed. At the Colorado River, this exotic control program should be implemented as feasible until the Caltrans ROW is replanted and established. The natural vegetation adjacent to the BEP site shall be monitored to determine if it has been modified or degraded, if so, these changes to the adjacent sites should be documented by the project's Designated Biologist in a report which includes photos of the adjacent land uses.		· ·	Ongoing: See Biologist annual report
Biological Resources	If any landscaping must be removed from the directional drill site or laydown areas, the preferred method of revegetation is to follow the Blythe General Plan.	1		Ongoing: See Biologist annual report
Biological Resources	any potential outbreak of noxious weeds on all bare ground sites for the three (3) years (1095 days) following final grading. The Interim Weed and Erosion Prevention Program shall propose a technique that prevents erosion, reduces dependence on herbicides, and prevents the germination of weed seed to the highest level possible. If the 66-acre expansion area remains undeveloped for the entire three (3) year period, and	the expected completion of grading to the CPM for approval. The Interim Weed and Erosion Prevention Program should: 1. evaluate at least two weed prevention techniques,		Ongoing: See Biologist annual report
	COIL 9 WATER	DECOLIDERS		
Soil & Water Resources	The project owner will record on a monthly basis the amount of groundwater pumped by the project. This information will be supplied to the Energy Commission, the Palo Verde Irrigation District, and the United States Bureau of Reclamation.	The project owner will submit a groundwater use summary to both the CPM and the PVID on an annual basis for the life of the project. The annual summary will include the monthly range, monthly average, and total groundwater use by the project in both gallons-per-minute and acre-feet. For subsequent years the annual summary will also include the yearly range and yearly average groundwater use by the project. This same information will be provided to both the PVID and the Lower Colorado Regional Office of the USBR.		Ongoing - Included in report.
Soil & Water Resources	The project owner shall measure groundwater levels in the on-site monitoring well on a monthly basis for the first six months following the project start up and thereafter on a quarterly basis.		· ·	
Soil & Water Resources	volatile and semi-volatile organic compounds reported in the response to Staff Data Request 212.	Applicant's response to Staff Data Request Attachment 212B, on an annual basis beginning after one year of operation on the anniversary date the BEP begins operation and continuing for a total of 5-years. The need		
	Biological Resources Biological Resources Biological Resources Soil & Water Resources Soil & Water Resources	Biological Resources Giological Resources Biological Resources Giological Resources Biological Resources Biological Resources Giological Resources Biological Biological Biological Biological Biological Biological Biological Biological Biolo	Deligation Description of the company of collisions (permitted and provide and	Biological Accordance was to control organis of Colifornia Secontinuo de un montre per la control organis de Colifornia Secontinuo de un montre per la colifornia Secontinuo de un montre de colifornia de un montre de colifo

Blythe Energy Project

2023-24 Annual Report (Summer 2023 through Spring 2024) for Biological Resources

Submitted to:

David Gutierrez Blythe Energy Center P.O. Box 1210 Blythe, California 92226

Submitted by:

Alice E. Karl, Ph.D

Blythe Energy Project Designated Biologist

P.O. Box 74006

Davis, California 95617

02 August 2024

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APPENDICES

APPENDIX 1.	Monthly bird counts

BLYTHE ENERGY PROJECT 2023-24 ANNUAL REPORT (SUMMER 2023 THROUGH SPRING 2024) FOR BIOLOGICAL RESOURCES

1.0 BACKGROUND

Blythe Energy Project (BEP or Project) became operational December 29, 2003. The California Energy Commission's (CEC's) licensing of BEP identified several Conditions of Certification that would occur after operation began¹. For the operations period, the following biological Conditions of Certification are applicable:

- **BIO-6** BEP personnel monitor evaporation ponds for bird and wildlife losses
- **BIO-7** The Designated Biologist monitors evaporation ponds for bird use
- **BIO-8** Monitor water quality in the evaporation ponds
- **BIO-9** Conduct maintenance monitoring of the plant's tortoise exclusion fencing
- **BIO-11** Implement an exotic weed control program to control invasions on adjacent lands
- BIO-15 BEP's Amendment to Add 66 Acre Area for Deposit of Excess Sediments (August 14, 2002), incorporated an Interim Weed and Erosion Prevention Program (IWEPP)². Implement an exotic weed control program for this 66-acre site ("Blythe 1B") and adjacent 10-acre cultural exclusion site in order to mitigate any potential outbreak of noxious weeds on all bare ground sites for three years; eliminate weed seeds from the soil stockpile for future revegetation potential

Information related to **BIO-8** is addressed elsewhere in the Project's annual report to the CEC. Activities relating to the remaining biological conditions are reported here for the period from July 2023 through June 2024. A report on activities from the prior period can be found in the 2022-23 Annual Report on Biological Resources³ as well as earlier annual reports.

¹ California Energy Commission. 2001, Commission Decision, Application for Certification, Blythe Energy Project, Docket No. 99-AFC-8, March 2001.

² Karl, A. E. 2003. Blythe Energy Project. Interim Weed and Erosion Prevention Program. Submitted to the California Energy Commission, Sacramento, CA. 10 pp plus attachments.

³ Karl, A. E. 2023. Blythe Energy Project 2022-23 Annual Report for Biological Resources. Submitted to Blythe Energy Center, Blythe, CA. 29 pp.

2.0 ACTIONS AND RECOMMENDATIONS RELATING TO CONDITIONS OF CERTIFICATION

2.1 BIO-6

Condition of Certification **BIO-6** reads:

"The evaporation ponds shall be monitored by plant personnel for bird and wildlife losses (see **BIO-1**). If a substantial number of bird and wildlife are found dead during any year, as determined by the CPM or Designated Biologist, then measures shall be identified and implemented that will substantially reduce or eliminate the problem. This monitoring shall continue for the first three years of plant operations, and depending on the results, could be discontinued at that time."

2.1.1 Methods Used at BEP to Achieve Compliance with Conditions of Certification

Evaporation ponds and the immediate area around the ponds are checked daily, during bird hazing and other maintenance activities. Any dead birds are removed from the pond and the Designated Biologist contacted and provided pictures and information for determination of species and mortality factors. Following this, the birds are labeled and frozen for examination during Designated Biologist site visits to further elucidate cause of death. The exception is a listed species, which the Designated Biologist immediately reports to the CEC, and also the U.S. Fish and Wildlife Service (FWS) if a federally listed species.

2.1.2 Results and Recommendations

No dead birds were reported for this period⁴.

Based on the very low ongoing mortality rate, the recommendation is to continue the current monitoring activities.

2.2 BIO-7

Condition of Certification **BIO-7** reads:

"The evaporation ponds (following start of operation when liquid is in the ponds) shall be monitored twice monthly (once every two weeks – two weeks apart) by the Designated Biologist or another biologist or person familiar with and who can identify birds of the area and is approved by the CPM.

⁴ D. Gutierrez, Senior Manager, Operations and Maintenance, AltaGas/Blythe Energy Inc. 19 July 2024 email to A. Karl.

Records shall be made of the type of birds (e.g. waterfowl, shorebird, etc.), number of birds and behavior. This monitoring shall continue for the first three years of plant operations, and depending on the results, could be discontinued at that time or continued, as needed."

2.2.1 Methods Used at BEP to Achieve Compliance with Conditions of Certification

The project became operational December 29, 2003. Intensive monitoring of pond use by birds began in late June 2003 and continued through December 2007. Reports documenting bird use of the ponds were submitted every six months during this period, with the final monitoring report was submitted in February 2008⁵. All reports are on file at BEP.

Based on the potentially hazardous levels of selenium and sodium in the evaporation pond water, BEP implemented a program in March 2005 to minimize the risk of elevated levels of selenium and sodium in the evaporation ponds. The program included a bird-deterrent program, continued monitoring of bird use at the ponds and supplementary water monitoring.

As Designated Biologist, I developed a bird deterrent program focused on two premises: (1) making resources provided by the ponds less available (i.e., habitat elimination) and (2) making these resources less attractive (i.e., hazing). Removal of nesting habitat for shorebirds was achieved by (1) removing rainwater puddles from ponds when they were not in use, and (2) raising the water level in the ponds to eliminate the shoreline. Emergent vegetation was not permitted to grow in the ponds. These habitat modifications also rendered the sediment less available to wading species for foraging. As an ancillary benefit, salinity decreased when fresh water was added to raise the water level to remove the shoreline. Further, Charlyn Mosely, former Environmental Compliance Officer, and I developed an integrated system of negative stimuli to haze birds, including cannons, flags across the pond, and hourly walking/driving on the pond levees.

Because of decreased staffing, AltaGas (the current owner) modified this program and currently adheres to the following, reduced hazing methods:

- ♦ AltaGas added large, static "eye" balloons along the upper berm edges in 2016 in an attempt to replace the flags, which require at least annual replacement.
- ♦ 15 March through 14 September The pond berms are driven several times a day. The bird "cannon" is fired at random times throughout the day and moved to different locations around the pond at least daily. Birds present at

⁵ Karl, A. E. 2008. Blythe Energy Project. Semiannual summary of bird use of the evaporation ponds: Summer and Fall 2007. Submitted to Blythe Energy, LLC, Blythe, CA. 11 pp.

the ponds are counted, identified if possible, and behaviors recorded; all data are recorded on monitoring logs.

- ♦ 15 September through 14 March Before 0800 daily, the condition of the eye balloons is inspected. Birds present at both ponds are counted, identified if possible, and behaviors recorded; all data are recorded on monitoring logs.
- Areas surrounding the ponds and between the east and west ponds are surveyed once a day for predators and predation and annotated in the log. Any carcass remnants are removed and discarded unless there are sufficient remains for species identification. These are frozen for inspection by the Designated Biologist.

Any nests observed are recorded. Non-disturbance zones are clearly marked at sufficient distance from the nest to avoid disturbing the parents and young.

2.2.2 Results and Recommendations

The eastern pond was emptied for cleaning and to make any necessary repairs to the liner beginning in Summer 2019. It remained empty in Summer/Fall 2023, but was approximately ¼ full in Spring 2024. There were substantial brine accumulation "islands" along the shoreline. The western pond was about half to two-thirds full over the last year with a brine sludge shelf along most of the eastern shoreline (Figure 1). No vegetation is growing in either pond. It's very possible that the



FIGURE 1. Example of Brine "Island" Accumulation in the Western Pond. Photo taken May 2023.

TABLE 1. Average Number of Birds per Count per Survey-Day, by Species. Sandpiper and northern shoveler are included in this table for comparison to earlier years, when they were present in small numbers.

Month	Avocet	Pipit	Bufflehead	Killdeer	Black- necked Stilt	Cinnamon Teal	Other Teals	Phalarope	Eared Grebe	Sandpiper	Northern Shoveler	# of Survey Days
July	0.5	0.4	0.2		0.1							31
August	0.5	0.4			0.2			0.1				31
September			0.5									26
October		0.1					0.04					28
November												30
December												31
January												25
February					0.04							28
March				0.1	0.04			0.04				27
April						0.04						27
May			0.1	0.1								28
June				0.3								30
Total	1.0	0.9	0.8	0.5	0.4	0.04	0.04	0.1	0.0	0.0	0.0	342
Average	0.08	0.08	0.07	0.04	0.03	0.003	0.003	0.01	0.00	0.00	0.00	

TABLE 2. Number of Survey-Days When Each Species Was Observed, for Those Species Observed. Birds are grouped by taxa (shorebirds, ducks).

Month	Avocet	Killdeer	Pipit	Black- necked Stilt	Phalarope	Bufflehead Duck	Cinnamon Teal	Other Teals	# of Survey Days
July (2023)	4		5	1		2			31
August	6		2	3	1				31
September						3			26
October								X	28
November									30
December									31
January (2024)									25
February				1					28
March		2		1	1				27
April							1		27
May		2				1			28
June		5							30
Total	10	9	7	6	2	6	1	0	342

water conditions inhibit plant growth since TDS is substantial: 130,000 mg/L in the eastern pond and 110,000 in the western in 2019⁶. Whatever the reason, the general lack of vegetation provides no habitat for secretive birds that require cover.

As in prior years, there was little bird use of the ponds, and presence was almost entirely transient. The higher average daily counts of avocets and buffleheads (Table 1) were largely due to flocks visiting in mid to late summer (Table 2). Outside of these pulses, shorebirds (pipits, killdeer and black-necked stilts) were the most frequently observed taxa in spring and summer (Tables 1 and 2), consistent with previous years. Notably however, black-necked stilts, a species usually observed at the ponds in spring and frequently observed nesting on the pond liner, were absent from April through June and no nests were seen. In fact, few birds of any species were observed in April and May compared to prior years. Only three birds were observed in April, all cinnamon teal on a single day. In May, three bufflehead were observed on a single day and 1-2 killdeer were observed in May on two days. By comparison, nine species were observed mostly on multiple days in both April and May 2023. Unlike earlier years, no eared grebes or sandpipers were observed during the entire year, and ducks were largely absent.

Killdeer was the only species that nested. Only a single nest was observed and it likely failed, as the parent bird was rarely observed in May after the eggs were discovered, and only observed one day in early June.

In summary, the bird deterrents and continual efforts to minimize sludge islands (nesting habitat) seem to be working, based on the absence of mortalities and nesting.

2.3 BIO-9

Condition of Certification **BIO-9** reads:

"The project owner shall conduct maintenance monitoring of the desert tortoise exclusion fencing on a monthly basis and complete repairs within one week of a problem being identified.

The project owner shall submit records of all monitoring dates, identify the locations that required repair, and any corrective actions taken in the Annual Compliance Report."

2.3.1 Methods Used at BEP to Achieve Compliance with Conditions of Certification

⁶ Eurofins TestAmerica, Irvine. 2019. Analytical report for samples collected on 14 April 2019. Laboratory Job ID: 440-238964-1. Submitted to R. DeLaParra, Northstar Environmental Remediation, Lake Forest, CA. 23 pp.

Over time, sand accumulates on the southern property fence, thereby compromising the exclusion utility of the tortoise fence. Alta Gas keeps sand cleared from the fence. The fences are monitored weekly, with repairs made as necessary (D. Guttierez, pers. comm. to A. Karl). Alta Gas maintains records of all monitoring dates and remedial actions, if any.

2.3.2 Results and Recommendations

My recommendation is to continue to monitor the fences, and repair as necessary, to ensure that they remain functional. Any gaps that suggest that tortoises may have entered the site could result in a site clearance survey.

2.4 BIO-11

Condition of Certification **BIO-11** reads:

"A comprehensive exotic weed control program for California Department of Agriculture List A, List B, and Red Alert weeds, shall be implemented at the 76-acre power plant site. This program shall be implemented until such time that the adjacent land use on the north and west sides is not longer a natural community or agriculture, or until the plant is permanently closed. ... The natural vegetation adjacent to the BEP site shall be monitored to determine if it has been modified or degraded, if so, these changes to the adjacent sites should be documented by the project's Designated Biologist in a report which includes photos of the adjacent land uses.

The project owner shall provide a progress/activity report regarding exotic weed control efforts and document changes (as needed) to the surrounding areas in the annual Compliance report.

2.4.1 Methods Used at BEP to Achieve Compliance with Conditions of Certification

In 2009, based on my recommendations, the project owner began spraying all potential growth areas for Sahara mustard and Russian thistle (e.g., swales, berm edges, stockpiles, fencelines) with a pre-emergent herbicide in early fall, prior to seed germination. The spraying of pre-emergent herbicide has been consistently successful (see earlier annual reports). Prior to the implementation of pre-emergent spraying in 2009, weeds had consistently grown along fencelines and the stockpiles. Since spraying with a pre-emergent, there has been very little to no mustard or other weeds growing along the fencelines, despite a robust and persistent population of those weeds in all of the surrounding lands.

The habitat immediately surrounding the entire BEP and IB site (collectively termed the "Project"), including the 10-acre cultural exclusion area abutting Blythe

1B's northern border, has been surveyed annually for introduction of any weeds resulting from Project construction and operations activities. In practice this includes the entire fenceline, the temporary road on the western fenceline that was constructed to build the fence, and the shoulder of Buck Blvd. I also survey all surfaces, especially non-compacted surfaces (e.g., ditches, berms, stockpile edges) and places where water would collect (detention basins) inside the Project site. Generally these surveys, or at least those along the fence, occur in late January/early February before seed set by the most invasive and offensive weed species found at BEP: Sahara mustard (*Brassica tournefortii*); Russian thistle (*Salsola tragus*); and tamarisk (*Tamarix* sp.). In 2024, the surveys will be conducted in September/October, at which point residual plants, even dried, will be detectable.

During each year's surveys, I uproot or direct the removal of scattered mustard and Russian thistle plants under fencelines and inside the Project, as needed, and discard them into the enclosed BEP trash bins for disposal. Again, this generally occurs at the appropriate time of year to minimize population spread – i.e., following germination but prior to seed set, generally in early to mid-February. Dense groupings are mapped and directed to the Environmental Compliance Officer to be sprayed with glyphosate (Roundup[©]) or excavated and removed (bagged and disposed of in BEP bins) by BEP personnel or their herbicide contractor. These activities by BEP personnel are always to be accomplished immediately, prior to seed set. Based on several years of diligent herbicide application at the appropriate times, surveys were confidently postponed in 2024 until autumn. Residual plants will be easily identifiable even then, but they are unexpected due to the herbicide program.

2.4.2 Results and Recommendations

AltaGas sprayed a pre-emergent on 02 November 2023⁴. All surfaces on the power plant site, plus the switchyard, the 66-acre soil stockpile to the west (Blythe II), and the perimeter were sprayed. This was followed on 29 April 2024 by post-emergent spraying on all of these areas. As a result, sprayed surfaces remain largely devoid of any plant growth, including weeds, except for a few perennial and/or herbaceous subshrubs, primarily in the diversion channel and in the 66-acre set-aside ditch. The landscaping around the project is being well maintained on the eastern and southern fencelines. It appears that irrigation is limited on the northern border - shrubs are a little dry.

Both Sahara mustard and seeds are likely to continue to invade BEP from lands around BEP, due to existing seed banks and the potential for soil instability north of Riverside Avenue. Several of the Project's site features - the fencelines, slopes and depressions, and ditches - provide favorable microsites that enhance germination and growth and could contribute to the spread of noxious weeds, Sahara mustard in particular. However, our methods of pre-emergent spraying and post-emergent weed removal have prevented the spread or increased populations of these noxious,

highly invasive weeds on all of the Project site except the 10-acre cultural set-aside in the northwestern corner. That area has been heavily invaded by mustard from the infested lands to the north and northwest (prevailing winds). This set-aside has native habitat, so herbicide spraying is not an option and manual removal is impractical.

The current weed abatement program should be maintained. The following successful measures have been and will continue to be recommended for controlling weed populations specifically associated with the Project:

- ♦ Continue to monitor fences, roads, and other features that may enhance weed populations.
- ♦ Apply a pre-emergent herbicide (e.g., Diuron 4L) in October, prior to the first winter rains, to prevent germination of weeds the following winter and spring.
- As needed, each spring continue to manually remove and/or use postemergent herbicides (e.g., glyphosate [Roundup[©]] or mustard-specific herbicides) to eliminate all weed individuals. Ensure that this activity is done prior to seed set by identifying plant phenological condition, checking the Project site at sufficient intervals in the event that weather patterns result in multiple flushes of germination, and submitting dates of plant removal and spraying.
- ♦ Re-apply dust palliatives as necessary on BEP and the stockpiles, to minimize the accumulation of sand (hospitable germination sites for weeds) and weed seeds.

2.5 BIO-15

Condition of Certification **BIO-15** for this amendment reads.

BIO-15 - "The project owner shall implement an Interim Weed and Erosion Prevention Program for the applicable portion of the 66-acre expansion area to mitigate any potential outbreak of noxious weeds on all bare ground sites for the three (3) years (1095 days) following final grading. The Interim Weed and Erosion Prevention Program shall propose a technique that prevents erosion, reduces dependence on herbicides, and prevents the germination of weed seed to the highest level possible. If the 66-acre expansion area remains undeveloped for the entire three (3) year period, and there is no permitted project for the site, then the project owner shall implement a long-term plan to re-establish regionally native vegetation on the site within one year, and remove portions of the desert tortoise proof fencing to allow wildlife to return to the site."

2.5.1 Methods to Achieve Compliance with Conditions of Certification

The approved IWEPP for the BEP Amendment established a three-year program to manage the stockpile, in the event that Blythe II (now Sonoran Energy Project) was not permitted. The program objective was to produce a stockpile that was weed-seed free for use in subsequent revegetation. The IWEPP program began in Fall 2003, following completion of stockpile development and contouring. In accordance with the IWEPP, a pre-emergent herbicide was applied to the stockpile on 14 October 2003, following final contouring of the stockpiles⁷. The dust suppressant, "Envirotac" was applied, as needed, to minimize airborne dust.

The second and third years of the program were designed to eliminate the weed seed bank in the stockpiles by farming the weeds. This program was to include actively germinating weed seeds in the soil stockpile, applying supplemental irrigation as necessary, and then eliminating the weeds prior to seed set, through the use of herbicides. Exceptionally high winter rainfall the second year obviated the need for supplementary irrigation. The negligible response of weeds following that winter of high rainfall suggested that there were few viable seeds in the stockpile that were available for germination, so no supplemental irrigation was applied in Year 3. (There was precipitation in Year 3, but it was sub-average.)

The Sonoran Energy Project, which proposed to occupy the 66-acre expansion area, was permitted as Blythe II on 14 December 2005. Based on this permitting and the apparent lack of a viable weed seed bank in the stockpiles (see above), on April 4, 2007, Blythe Energy requested a suspension of that portion of the IWEPP program that included actively farming the weed seeds on the stockpile and subsequently using the stockpile soils for revegetation⁸. The CEC approved this request⁹. In its place, weed populations have been monitored and generally either removed manually or sprayed with glyphosate annually since 2003, in association with **BIO-11**. This has occurred at the appropriate time of year to minimize population spread – i.e. -following germination but prior to seed set, generally in early to mid-February. The stockpiles are also sprayed, typically annually, with the pre-emergent herbicide in fall, prior to seed germination associated with fall/early winter storms.

This program of weed inspection, prevention and removal will continue until Blythe II construction begins.

⁷ Karl, A.E. 2004. Blythe Energy Project: Annual report for biological compliance issues, June 2003 through June 2004. Submitted to FPL Energy, Blythe Energy Project, Blythe, CA. 7 pp plus appendices. ⁸ Karl, A. E. 2007. Letter to Steve Munro, Project Manager, California Energy Commission, to request

suspension of the IWEPP. April 4, 2007. 2 pp.

⁹ Munro, S. 2007. E-mail to Alice Karl. June 28, 2007.

2.5.2 Results and Recommendations

See Section 2.4.2 in **BIO-11**, above, for results.

3.0 SUMMARY

The methods to achieve compliance have all been in place for several years and have functioned very successfully, with no issues. AltaGas reported no biological issues at the site over this report's time period⁴. They are doing an excellent job of minimizing the attraction of the ponds to birds. They are keeping the project weed free. They are maintaining the quality of the tortoise exclusion fences. They always readily and thoroughly complied with any requests I have made.

My recommendation is to continue with the current, very successful methods, incorporating appropriate changes should the need arise.

Appendix 1. Monthly Bird Counts	

							Daily Avera	ge by Speci	es					
Day of Month - July 2023	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
7	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	4
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
11	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
12	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3
20	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
21	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
22	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	3
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	4
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	4
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
Total	0.0	2.0	0.0	0.0	0.0	12.0	0.0	14.0	0.0	0.0	0.0	7.0	0.0	94.0
Average # Birds per Day	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.5	0.0	0.0	0.0	0.2	0.0	
Total Number of Survey Days	31	•					•		•		•	•	•	

Total Number of Survey Days 31

Notes Re Flocks and Nesting: Flock of 27 avocet on July 27

	Daily Average by Species														
Day of Month-August	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	
3	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
8	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	
9	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	
10	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	3	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	
17	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	4	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	5	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
26	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	3	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	4	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	4	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	
Total	0.0	6.0	0.0	0.0	2.0	12.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	106.0	
Average # Birds per Day	0.0	0.2	0.0	0.0	0.1	0.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0		

Total Number of Survey Days 31

Notes Re Flocks and Nesting: Flock of 6 avocet on August 30

							Daily Avera	ge by Speci	es					
Day of Month - September	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	1
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	1
Tota	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	13.0	0.0	47.0
Average # Birds per Day		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	
Total Number of Survey Davis											•	•	•	

Total Number of Survey Days

26

Notes Re Flocks and Nesting: Flock of 07 bufflehead on September 30

							Daily Avera	ge by Speci	ies					
Day of Month- October	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
4	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
23	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
25	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
Total	0.0	0.0	1.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0
Average # Birds per Day	0.0	0.0	0.04	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Total Number of Survey Days Notes Re Flocks and Nesting

None

							Daily Avera	ge by Speci	ies					
Day of Month - November	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
Tota	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.0
Average # Birds per Day		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Number of Sumou Day														

Total Number of Survey Days 3
Notes Re Flocks and Nesting: None

Black-necked Stilt 0.0 0.0 0.0	Other Teals	Cinnamon										
0.0		Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 <td>0.0 0.0<td>0.0 0.0</td></td>	0.0 0.0 <td>0.0 0.0</td>	0.0 0.0

Total Number of Days Notes Re Flocks and Nesting

g None

	Daily Average by Species													
Day of Month - January 2024	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0
Average # Birds per Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Total Number of Survey Days Notes Re Flocks and Nesting

None

	Daily Average by Species													
Day of Month - February	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
25	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
Total	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0
Average # Birds per Day	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Total Number of Survey Days 28
Notes Re Flocks and Nesting: None

	Daily Average by Species													
Day of Month - March	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
17	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	4
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
26	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
28	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
Tota		1.0	0.0	0.0	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0
Average # Birds per Da	y 0.0	0.04	0.0	0.0	0.04	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1

Total Number of Survey Days Notes Re Flocks and Nesting

27 None

	Daily Average by Species													
Day of Month- April	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
21	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
Tota	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.0
Average # Birds per Day	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Total Number of Survey Days Notes Re Flocks and Nesting

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	Daily Average by Species													
Day of Month - May	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	3
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
20	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
31	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3
Total		0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	3.0	0.0	63.0
Average # Birds per Day		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	<u> </u>

Total Number of Survey Days

Notes Re Flocks and Nesting May 7, Eggs found on east roadway of east pond

	Daily Average by Species													
Day of Month - June	Eared Grebe	Black-necked Stilt	Other Teals	Cinnamon Teal	Phalarope	Pipit	Killdeer	Avocet	Sandpiper	Snowy Plover	California Gull	Bufflehead Duck	Northern Shoveler	Daily Count Effort
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	5
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
27	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	5
28	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	5
29	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	5
30	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	5
Total	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	128.0
Average # Birds per Day	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	

Notes Re Flocks and Nesting Eggs found on east roadway of east pond in May are gone

Emergency Ba Ford Emergen	•			_				Blythe Energy Inc.
date	run-time meter start	run-time meter stop	duration (hr)	fuel use (gal)	NOx emissions (lb/hr)	CO emissions @1.55 lb/hr (lb/hr)	PM-10 emissions (lb/hr)	Comments
eff 05/07	7/15 - Title '	V Regs em	nissions fac	tors	1.67 lb/hr	1.55 lb/hr	0.06 lb/hr	
06/08/23	200.57	200.71	0.14	1.68	0.23	0.22	0.01	Monthly test run
07/11/23	200.71	200.88	0.17	2.04	0.28	0.26	0.01	Monthly test run
08/13/23	200.88	201.99	1.11	13.32	1.85	1.72	0.07	Loss of power
09/14/23	201.99	202.16	0.17	2.04	0.28	0.26	0.01	Monthly test run
10/10/23	202.16	202.32	0.16	1.92	0.27	0.25	0.01	Monthly test run
11/11/23	202.32	202.45	0.13	1.56	0.22	0.20	0.01	Monthly test run
12/12/23	202.45	202.62	0.17	2.04	0.28	0.26	0.01	Monthly test run
			duration (hr)	fuel use (gal)	NOx emissions (lb/hr)	CO emissions @1.55 lb/hr (lb/hr)	PM-10 emissions (lb/hr)	
2023	2023 Totals YTD			24.60	3.42	3.18	0.12	

	nergency F ip Pump / I	_	-	_	று 1800 rpm			Blythe Energy Inc.
date	run-time meter start	run-time meter stop	duration (hr)	fuel use (gal)	NOx emissions (lb/hr)	CO emissions @1.55 lb/hr (lb/hr)	PM-10 emissions (lb/hr)	Comments
eff 0	5/07/15 - Tit	le V Regs e	missions fa	ctors	4.60 lb/hr	5.70 lb/hr	0.05 lb/hr	
01/06/24	510.30	510.60	0.30	1.25	1.38	1.71	0.02	weekly auto start test
01/13/24	510.60	510.90	0.30	1.25	1.38	1.71	0.01	weekly auto start test
01/20/24	510.90	511.10	0.20	0.83	0.92	1.14	0.01	weekly auto start test
01/24/24	511.10	511.40	0.30	1.25	1.38	1.71	0.01	Annual Capacity test
01/28/24	511.40	511.50	0.10	0.42	0.46	0.57	0.01	weekly auto start test
02/03/24	511.50	511.70	0.20	0.83	0.92	1.14	0.01	weekly auto start test
02/09/24	511.70	511.90	0.20	0.83	0.92	1.14	0.01	weekly auto start test
02/17/24	511.90	512.00	0.10	0.42	0.46	0.57	0.01	weekly auto start test
02/23/24	512.00	512.30	0.30	1.25	1.38	1.71	0.01	weekly auto start test
03/03/24	512.30	512.50	0.20	0.83	0.92	1.14	0.01	weekly auto start test
03/10/24	512.50	512.80	0.30	1.25	1.38	1.71	0.01	weekly auto start test
03/16/24	512.80	513.10	0.30	1.25	1.38	1.71	0.02	weekly auto start test
03/24/24	513.10	513.30	0.20	0.83	0.92	1.14	0.01	weekly auto start test
03/30/24	513.30	513.50	0.20	0.83	0.92	1.14	0.01	weekly auto start test
04/06/24	513.50	513.80	0.30	1.25	1.38	1.71	0.01	weekly auto start test
04/13/24	513.80	514.00	0.20	0.83	0.92	1.14	0.01	weekly auto start test
04/20/24	514.00	514.30	0.30	1.25	1.38	1.71	0.01	weekly auto start test
04/27/24	514.30	514.50	0.20	0.83	0.92	1.14	0.01	weekly auto start test
05/04/24	514.50	514.80	0.30	1.25	1.38	1.71	0.01	weekly auto start test
05/11/24	514.80	515.00	0.20	0.83	0.92	1.14	0.01	weekly auto start test
05/18/24	515.00	515.30	0.30	1.25	1.38	1.71	0.01	weekly auto start test
05/25/24	515.30	515.60	0.30	1.25	1.38	1.71	0.02	weekly auto start test
06/01/24	515.60	515.90	0.30	1.25	1.38	1.71	0.01	weekly auto start test
06/08/24	515.90	516.20	0.30	1.25	1.38	1.71	0.02	weekly auto start test
06/15/24	516.20	516.50	0.30	1.25	1.38	1.71	0.01	weekly auto start test
06/22/24	516.50	516.70	0.20	0.83	0.92	1.14	0.01	weekly auto start test
06/29/24	516.70	517.00	0.30	1.25	1.38	1.71	0.01	weekly auto start test
			duration (hr)	fuel use (gal)	NOx emissions	CO emissions	PM-10 emissions	
202	24 Totals Y7	ΓD	6.70	27.94	30.82	38.19	0.34	

	nergency F p Pump / I	•	•	_	② 1800 rpm			Blythe Energy Inc.
date	run-time meter start	run-time meter stop	duration (hr)	fuel use (gal)	NOx emissions (lb/hr)	CO emissions @1.55 lb/hr (lb/hr)	PM-10 emissions (lb/hr)	Comments
eff 0	5/07/15 - Titl	le V Regs e	missions fa	ctors	4.60 lb/hr	5.70 lb/hr	0.05 lb/hr	
06/10/23	502.50	502.70	0.20	0.83	0.92	1.14	0.01	weekly auto start test
06/16/23	502.70	502.70	0.00	0.00	0.00	0.00	0.00	Motor Vibration Analysis
06/29/23	503.00	503.20	0.20	0.83	0.92	1.14	0.01	weekly auto start test
07/01/23	503.20	503.60	0.40	1.67	1.84	2.28	0.02	weekly auto start test
07/08/23	503.60	503.80	0.20	0.83	0.92	1.14	0.01	weekly auto start test
07/15/23	503.80	504.10	0.30	1.25	1.38	1.71	0.02	weekly auto start test
07/22/23	504.10	504.30	0.20	0.83	0.92	1.14	0.01	weekly auto start test
07/29/23	504.30	504.60	0.30	1.25	1.38	1.71	0.02	weekly auto start test
08/05/23	504.60	504.90	0.30	1.25	1.38	1.71	0.01	weekly auto start test
08/12/23	504.90	505.10	0.20	0.83	0.92	1.14	0.01	weekly auto start test
08/19/23	505.10	505.40	0.30	1.25	1.38	1.71	0.01	weekly auto start test
08/26/23	505.40	505.70	0.30	1.25	1.38	1.71	0.02	weekly auto start test
09/02/23	505.70	505.90	0.20	0.83	0.92	1.14	0.01	weekly auto start test
09/09/23	505.90	506.20	0.30	1.25	1.38	1.71	0.02	weekly auto start test
09/16/23	506.20	506.50	0.30	1.25	1.38	1.71	0.02	weekly auto start test
09/23/23	506.50	506.70	0.20	0.83	0.92	1.14	0.01	weekly auto start test
09/30/23	506.70	507.00	0.30	1.25	1.38	1.71	0.02	weekly auto start test
10/07/23	507.00	507.30	0.30	1.25	1.38	1.71	0.02	weekly auto start test
10/17/23	507.30	507.50	0.20	0.83	0.92	1.14	0.01	weekly auto start test
10/21/23	507.50	507.80	0.30	1.25	1.38	1.71	0.02	weekly auto start test
10/27/23	507.80	507.90	0.10	0.42	0.46	0.57	0.00	Vibration test
11/4//23	507.90	508.30	0.40	1.67	1.84	2.28	0.02	weekly auto start test
11/11/23	508.30	508.50	0.20	0.83	0.92	1.14	0.01	weekly auto start test
11/18/23	508.50	508.80	0.30	1.25	1.38	1.71	0.02	weekly auto start test
11/26/23	508.80	509.10	0.30	1.25	1.38	1.71	0.02	weekly auto start test
12/02/23	509.10	509.30	0.20	0.83	0.92	1.14	0.01	weekly auto start test
12/09/23	509.30	509.50	0.20	0.83	0.92	1.14	0.01	weekly auto start test
12/16/23	509.50	509.80	0.30	1.25	1.38	1.71	0.02	weekly auto start test
12/23/23	509.80	510.01	0.21	0.88	0.97	1.20	0.01	weekly auto start test
12/30/23	510.01	510.30	0.29	1.21	1.33	1.65	0.01	weekly auto start test
			duration (hr)	fuel use (gal)	NOx emissions	CO emissions	PM-10 emissions	
202	3 Totals YT	TD .	7.50	31.28	34.50	42.75	0.38	

Emergency Ba	-	-		_				Blythe Energy Inc.
date	run-time meter start	run-time meter stop	duration (hr)	fuel use (gal)	NOx emissions (lb/hr)	CO emissions @1.55 lb/hr (lb/hr)	PM-10 emissions (lb/hr)	Comments
eff 05/07	7/15 - Title \	V Regs em	nissions fac	tors	1.67 lb/hr	1.55 lb/hr	0.06 lb/hr	
01/08/24	202.62	203.08	0.46	5.52	0.77	0.71	0.03	Loss of power (Black Plant)
01/17/24	203.08	203.25	0.17	2.04	0.28	0.26	0.01	Monthly test run
01/22/24	203.25	203.34	0.09	1.08	0.15	0.14	0.01	Loss of Power (switching)
03/07/24	203.34	203.53	0.19	2.28	0.32	0.29	0.01	Loss of Power (switching)
03/09/24	203.53	203.70	0.17	2.04	0.28	0.26	0.01	Loss of Power (switching)
03/15/24	203.70	204.40	0.70	8.40	1.17	1.09	0.04	Loss of Power (switching)
04/09/24	204.40	204.58	0.18	2.16	0.30	0.28	0.01	Monthly test run
05/19/24	204.58	204.75	0.17	2.04	0.28	0.26	0.01	Monthly test run
06/19/24	204.75	204.91	0.16	1.92	0.27	0.25	0.01	Monthly test run
			duration (hr)	fuel use (gal)	NOx emissions (lb/hr)	CO emissions @1.55 lb/hr (lb/hr)	PM-10 emissions (lb/hr)	
2024	Totals YTD		2.29	27.48	3.82	3.55	0.14	



4/2/2024

Blythe Energy

385 N. Buck Blvd Blythe Ca 92226 Attn: David Gutierrez

David.Gutierrez@altagas.ca

Ref: 302609 CA

Dear Mr. Gutierrez

Amertech Tower Services LLC. Like to thank you for the opportunity to perform the PM's and inspection on your Cooling Tower manufacture by Hamon, Model HUC 5645 Eight (8) cells counterflow cooling tower.

All cells were available at the same time for the internal component inspection including the cold water basin and base anchoring.

We inspected the structure conditions of the fan deck, plenum, mechanicals including oil changes, distribution system, DE's, film fill, air inlet area, CWB base anchoring, enclosure casing, access stairways and cage ladder.

During the inspection we found critical fan damages and gear box which we received your approval for replacement before the end of your outage.

We prepared a report with findings and other recommendations including photos that illustrates the conditions found in your tower

If there are any questions after your review please do not hesitate to call me at the numbers below.

Sincerely,

Jesse F. Garcia
Amertech Tower Services LLC.
Technical Service Manager (QA&QC)
jgarcia@amertechtower.com

Cell (602) 686-0578

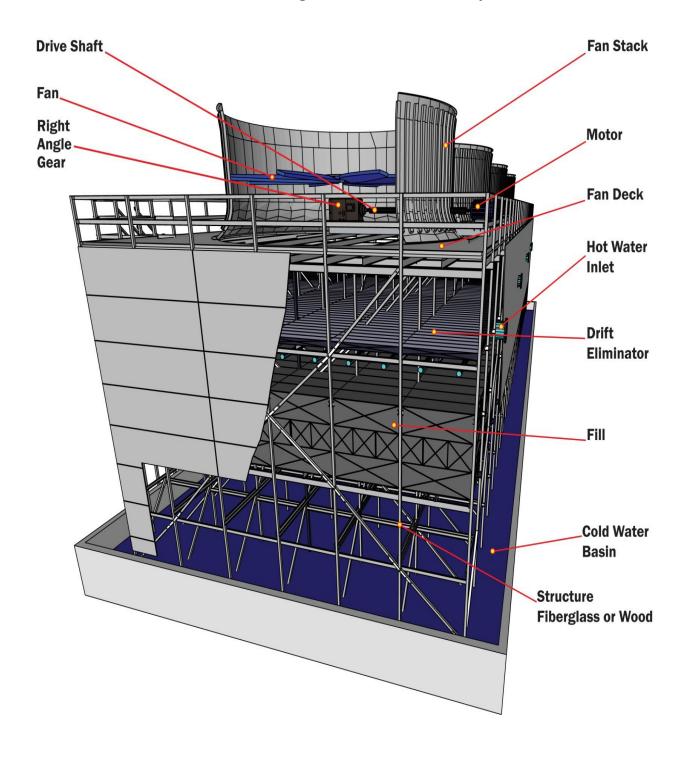


Tower profile

Reference No.	ATS Ref: # 302609-CA / Manufacturer by Hamon # HUC 5645
Design Conditions	121,296 GPM/ HW 102.9/CW 83.5 / WB 76/ 8 Counter Flow cells
Design continues	121,250 G1 W 11W 102.57 C W 03.57 W B 707 0 Counter 110W cents
Tower Dimensions	52.6 L x 59-3/4 T x 31.8H
Motor	200 HP/ 1785 RPM / 460V/60 Hz/ 3 Phase/Frame 445T
Fan Stack frp Velocity Recover	32 Diameter/10' Height lap Joint
Drive Shaft	Addax SS 316 / DBSE 168"
Gear Box	Amarillo Model 1712 / Ratio 16.0:1 (see each cell Alignments reports)
Fan Assembly	Hudson T30H/ 32' Diameter / 8 fan blades Cells #1#3#4#5#6#7#8 and Cell #2 Hudson Fan T-30K 12 Blades
Plenum	10' Height
Air Inlet	11' Longitudinal walls (Close endwalls)
Structure	Pultruded fiber glass /Angle Ties, 3x3 bracing, SS Hardware
Fan Deck	J Groove Style 2" T&G /Transverse direction
Partition walls	Fire wall ½" Plywood with mid supports and SS hardware
Wind-walls	4.2 corrugated 12 Oz frp panels, mid vertical supports and SS hardware
Enclosure Casing	FRP 4.2 Corrugated 12 Oz fr and SS hardware
Fill Media	5' Depth Film Fill/ Evaptech Tech Clean
Drift Eliminators	CF 80 MAx/with additional step over DE's on the main header/ supported over with lateral pipes
Distribution System	30" Header /6" PVC Lateral -3 per bay /French style nozzles



Illustration of the cooling tower & Internal component





Inspection Summary

The purpose of the inspection on the Hamon Cooling Tower Model HUC 5645 was to determine the conditions of the internal structure and heat rejection components including the mechanical rotating equipment with the intention to extend the best performance, life and safe operation of the tower.

We begin the inspection on the outside of the cooling tower while tower was being drain and then we proceed doing the oil changes one (1) cell at the time including the preventive maintenance (PM's) continuing with the inspection with entire Equipment:

- Mechanical Rotating Equipment
- Drift eliminators (DE's)
- Distribution System
- Film Fill
- Partition & Wind-walls including repairs per T&M
- Fiber Glass Structure (Plenum and Air Inlet areas)
- Base Anchoring

After the entire towers was inspected and data collected, we develop scope of recommended repairs for your considerations on your next outage

Work based on the most critical components that need immediate attention

Inspection Summary:

STRUCTURE AND INTERNAL COMPONENTS INSPECTION-

FAN DECK	The Fiber glass Fan deck is a Non-skid 2" J Type deck supported with a C-6 frp channels joist and a one single mid-bay I Beam center support from below and a C-6 frp channel joist sub-support bolted at every two meters.
	Fan Deck was found with a very minor crack on the north side due to improper unloading of heavy materials over the deck
	• The perimeter hand and knee rails are losing their top protection veil exposing the frp fibers and damaging the integrity of the Hand rails
	ATS Recommend: Apply a Urethane safety yellow coating on your next outage to extend the life of the H/K rails and safe conditions.



FIBER GLASS STRUCTURE	The upper pultruded fiber glass structure at plenum, distribution and air inlet areas are compose of 3x3 vertical post tubing bolted to a horizontal tie lines L3 and brace with 3x3 frp tubing on the side of structure bents							
	All frp structure were found in GOOD conditions							
PARTITION FIRE WALLS	The partition fire wall compose of ½" treated double sided plywood materials, secured with SS hardware to columns and mid-supports This were found in good conditions							
	Fire Wall Partition are overall are in Good Conditions							
WIND-WALLS	Wind-walls compose of 4.2 corrugated frp 12 Oz panels secured with SS							
	hardware to columns and mid supports by air inlet along the center							
	longitudinally of the tower							
	Wind wall overall are in Good conditions							
DRIFT	The Drift Eliminators Model CF80 are supported over the existing							
ELIMINATORS	distribution Lateral pipes and step-up framing over the main header pipe							
EILL MEDIA	Overall the Drift Eliminators are in GOOD conditions							
FILL MEDIA	The film fill was installed previously by Evaptech 5' Depth, Tech Clean							
	ATS-Recommendations: Monitor fill every outage, there are some							
	indications on the end cells for possible fouling conditions							
FILL SUPPORTS	Fill sub-supports compose of C-6 bolted at 2 mts and Two single I-6"							
TIEE SCIT OKIS	Beam per each bay over the sub-supports C-6							
	Overall supports are in GOOD conditions							
DISTRIBUTION SYSTEM	 The Distribution system compose of 30" frp Header and PVC lateral 6" pipes 3 per bay with French style Nozzles each with 4" extensions The perimeter nozzles were found plugged up with mud and rust debris mainly along the walls Found a substantial amount of broken nozzles mainly at end cells 							
	All missing and broken nozzles were replace during the outage also nozzles were clean along the longitudinal walls							
	ATS Recommend the following for you next outage: a. Clean perimeter nozzles on next outage b. Design supply and install a 4" drain valve at the end of each main header so a periodic flushing can be done during							



	operation preventing from plugging up nozzles in the near future
ENCLOSURE FRP CASING	Casing enclosure compose of 12 Oz 4.2 V-beam FR • Casing was found in GOOD conditions with some leaks at random location
	ATS recommend the following: • Clean & Remove calcium built up around leaks and re-seal with mastic as required
MECHANICAL EQUIPMENT	Torque Tube Mechanical Supports • The supports in all cells are in GOOD conditions
	 Gear Boxes Gear Boxes oil was replaced in all cells as part of the PM service with customer supplied oil and dispose into customer barrels Gear Box Cell #8 was found in a poor conditions extensive corrosion and backlash way over the allowable limits, ATS replaced gear box from their warehouse surplus all T&M Work Gear Box Input Seals was replace as part of the PM service in seven cells (Cells 1-2-3-4-5-6-7) ATS Recommendations: Do Not over filled oil sight gauges maintain proper oil levels, continued checking for leaks input and output shafts seals including checking input backlash. Fan Assemblies Fan Assemblies were found in very poor conditions the fan
	 Fan Assemblies were found in very poor conditions the fan clamps were not able to withstand the torque verifications per the OEM recommendations of 125 lbs. Blade clamps begin crushing or crumbling. ATS was able to locate Three new Hubs and authorized to supply reusing fan blades, Blythe Energy provide Three full fan assemblies from their warehouse surplus All work was perform during the outage under T&M terms The following is the final fan replacement per each cell Cell: 1 Reused Complete fan assembly (8 Blades) Cell: 2 Reused complete fan assembly (12 Blades) Cell: 3 New Hub / Reuse blades (8 Blades) Cell: 4 New Hub / Reuse blades (8 Blades) Cell: 5 New Hub / Reuse blades (8 Blades) Cell: 6 New Complete Fan Assembly (8 Blades) Cell: 7 New Complete Full Fan Assembly (8 Blades) Cell: 8 New Complete Fan Assembly (8 Blades)



	ATS Recommendations: Monitor fan blades condition on cells 1 though 5 closely on every outage mainly for any visible cracks or wear and tear and external delamination coating								
	Electric MotorThe Motor found in GOOD conditions								
	Drive ShaftsDrive shafts look in GOOD conditions								
	ATS Recommendations: Verify coupling alignments and flex elements conditions for wear and tear on every outage								
	 Fan Stacks Fan Stack were found in GOOD conditions Hurricane blocks in place and secured on main structure All hold down bolts tight All vertical stitch bolts tight 								
	ATS Recommendations: Inspect all accessible hardware every outage mainly hurricane blocks and hold down bolting								
LIGHTNING PROTECTION	 Perimeter Fan Deck Lightning protection Missing connections due to fan stack vibration Some areas cabling is hanging down already Lighting cable at bottom of tower broken at random 								
	ATS Recommendations: Repair broken cable areas on fan stack and at the bottom of the cooling tower along the wall to basin curb								
CABLE TRAY FAN DECK	Cable tray over the fan deck lost a substantial amount of covers protecting the electrical wiring								
COLD WATER BASIN	ATS Recommends: Install new covers During our visual inspection on the structure base anchoring we found a substantial amount of concrete cracks more than 1/8" wide for 10' plus in length at random locations								
	ATS Recommends: To reseal cracks as required with an epoxy coating (SIKA 62)								

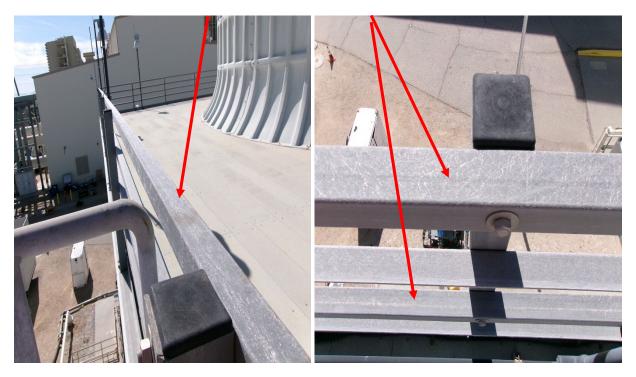


PHOTOS ILLUSTRATING CONDITION FOUND

Fan Deck good safe conditions



Fan Deck Perimeter Hand & Kee Rails UV damaged expose fiber





Fiber Glass structure plenum area, post, tie lines and braces good conditions



Air inlet Fiber Glass structure post, tie Lines, fill joist and braces good conditions





Partition Fire Walls by plenum area good Conditions



Fire wall partition walls by air inlet area good conditions





Wind-wall by air inlet in good conditions

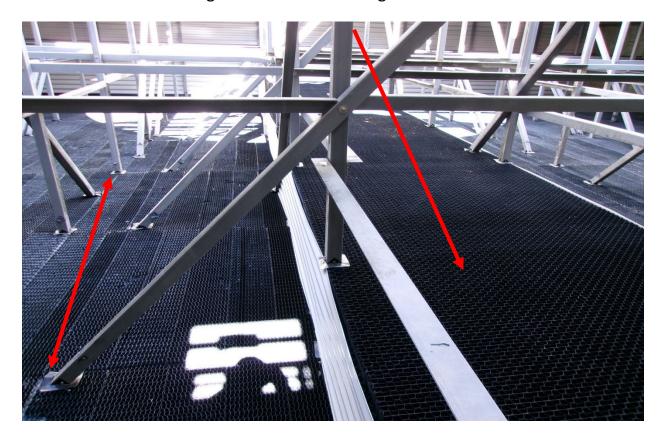


Wind wall and framing good conditions

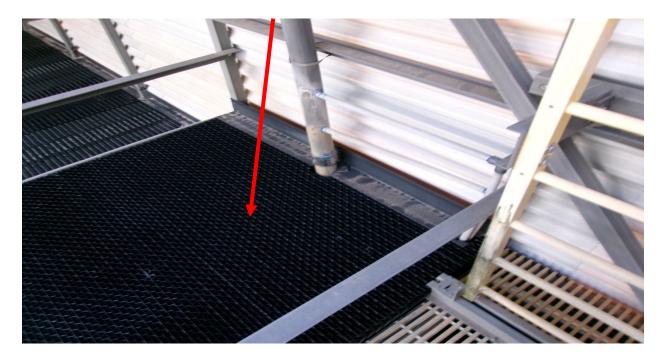




Drift Eliminators covering header and Dri seals good conditions



Other view of the DE per OEM design to enclose header properly





Fill Supports Joist and sub-support Joist bottom area good conditions



Fill showing possible beginning of fouling conditions end cells





Nozzles found Plugged up and some areas broken or missing



Condition found were repaired, replaced and corrected during the outage



Enclosure casing leaks at random

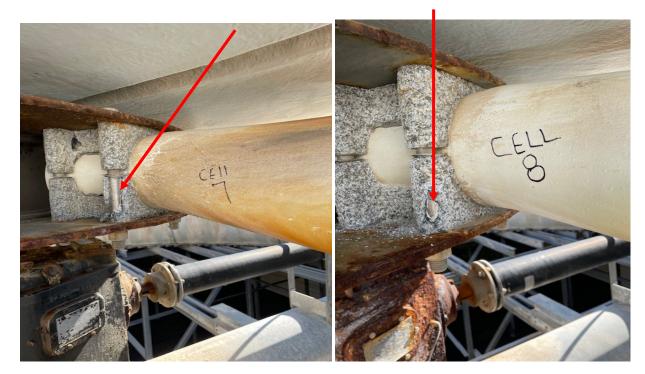


Enclosure casing leaks at random and calcium build up





Damaged fan assemblies all corrected during the outage total Six cells

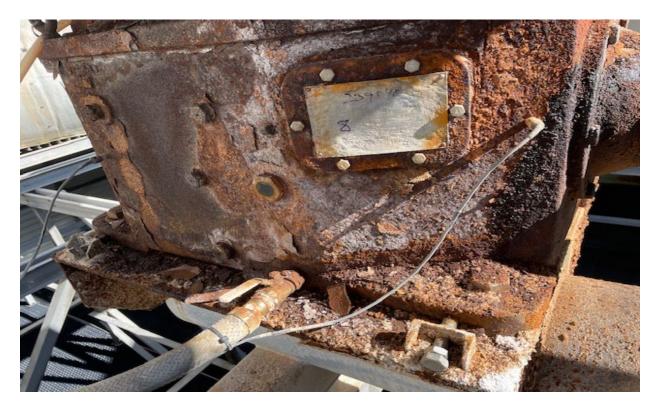




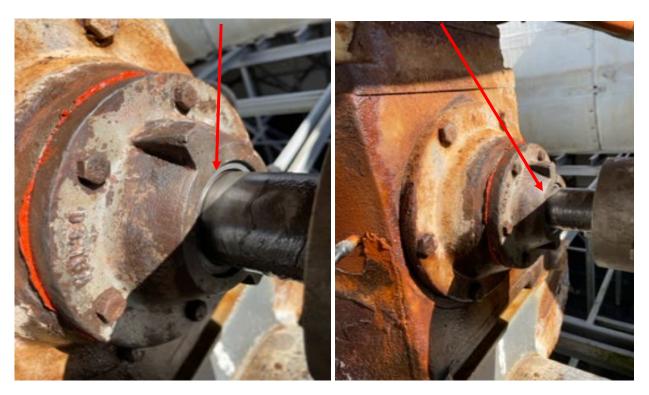




Gear Box Cell #8 excessive corrosion and damaged input bearing was replaced during outage



Gear Box Input Seals Replaced in Seven cells





Fan Stack good conditions







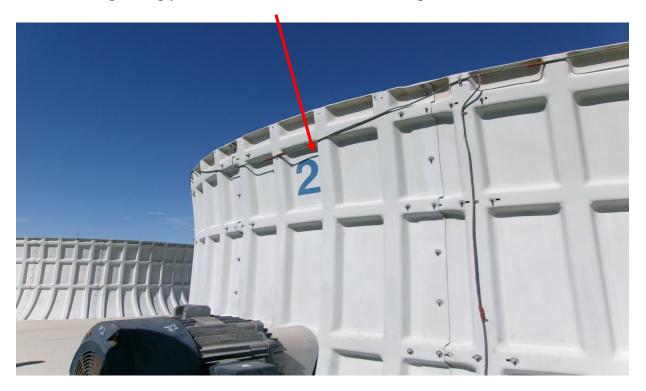
Tower access stairway and emergency ladder all in good conditions







Fan Stacks lightning protection cable and rods missing or broken at random



Cable Trays damaged and missing covers





Cold Water Basin concrete cracks at random







REPAIR RECOMMENDATIONS FOR ALL 8 CELLS

1. Fan Deck

- Monitor cracks and Re-seal with epoxy resin as needed
- Monitor and Secure deck screws as needed on the entire fan deck
- Apply a Urethane coating over the hand &Knee Rails

2. Distribution System

- Remove and clean the perimeter nozzles on each cell
- Install a 4" drain system at the end of each header down to Cold water basin curb with a valve to open periodically during operations for flushing mud from header

3. Enclosure casing

 Clean & Remove calcium build up around leaks and re-seal with mastic as required all cells

4. Film Fill Media

- Monitor film fill for excessive build up in between fill layers
- Remove one bay of fill to check for fouling condition every other year
- Mainly end cells

5. Mechanical Equipment

- Provide a Preventive Maintenance Service for the existing condition record all rotating equipment, Motor, Fan assembly, Drive shaft & Fan stack hold down bolts
- Monitor corrosion over the toque tube supports, Clean and paint with Coal Tar Epoxy over the rusty areas as needed
- Monitor fan blades on cells 1 through 5 replace as necessary between 3 to 5 years

6. Recommended repairs by OTHERS

- a. Repair cable trays cover
- b. Repairs Lightning cabling and rods on the perimeter fan deck
 - Repair broken Lightning cabling at bottom of the tower by CWB curb
- c. Repair & Seal CWB Concrete cracks including expansion joints random

Natural Gas Analyses

Analytical Data Summary

Blythe Energy Inc.

sample date report date		analytical lab	results, grains / 100 ft ³	method	Comments
07/14/22	07/26/22	Texas Oil Tech	0.030	ASTM D 5504	No sample taken due to insufficiant run time
08/02/22	08/12/22	Texas Oil Tech	0.040	ASTM D 5504	No sample taken due to insufficiant run time
09/01/22	09/16/22	Texas Oil Tech	0.100	ASTM D 5504	
10/05/22	10/13/22	Texas Oil Tech	0.080	ASTM D 5504	
11/01/22	11/17/22	Texas Oil Tech	0.070	ASTM D 5504	
12/01/22	12/14/22	Texas Oil Tech	0.032	ASTM D 5504	
01/04/23	01/13/23	Texas Oil Tech	0.080	ASTM D 5504	
02/28/23	02/28/23	Texas Oil Tech	0.000	ASTM D 5504	No sample taken due to insufficiant run time
03/14/23	03/29/23	Texas Oil Tech	0.050	ASTM D 5504	
04/05/23	04/24/23	Texas Oil Tech	0.100	ASTM D 5504	
05/02/23	05/12/23	Texas Oil Tech	0.100	ASTM D 5504	
06/07/23	06/19/23	Texas Oil Tech	0.030	ASTM D 5504	

Natural Gas Analyses Blythe Energy Inc. **Analytical Data Summary** results, sample date report date analytical lab grains / method Comments 100 ft³ Texas Oil 06/07/23 06/19/23 0.030 **ASTM D 5504** Tech Texas Oil 01/18/24 03/22/24 0.010 ASTM D 5504 Tech Texas Oil No sample taken due to 02/29/24 02/29/24 0.000 **ASTM D 5504** insufficiant run time Tech Texas Oil No sample taken due to 03/31/24 03/31/24 0.000 **ASTM D 5504** insufficiant run time Tech Texas Oil 04/27/24 05/01/24 0.060 ASTM D 5504 Tech Texas Oil 05/11/24 05/21/24 0.080 **ASTM D 5504** Tech Texas Oil 06/10/24 06/19/24 0.020 ASTM D 5504

Tech

Title: Blythe Monthly Report (Jul 2023 to Jun 2024)

															PriBurnQuantity - (Short			
Plant	Unit	Year	Month	SH	AH	EOH	FOH	RS	EAF	AF	FOF	EFOR	GAG	NAG	tons, Barrels, Cubic Feet)	NHR BTU	GHR BTU	NCF
Blythe	Unit 1	2023	Jul	711.95	744.00	0.00	0.00	32.05	97.31	100.00	0.00	0.00	188101.00	178922.00	1348000000.00	7744.96	7367.02	46.25
Blythe	Unit 1	2023	Aug	734.85	740.63	0.00	3.37	5.78	94.77	99.55	0.45	2.56	235081.00	224113.00	1691000000.00	7764.11	7401.87	57.93
Blythe	Unit 1	2023	Sep	561.67	672.37	0.00	47.63	110.70	90.87	93.38	6.62	7.82	131792.00	125476.00	951050000.00	7792.52	7419.07	33.51
Blythe	Unit 1	2023	Oct	699.23	744.00	0.00	0.00	44.77	97.31	100.00	0.00	0.00	186546.00	178946.00	1339900000.00	7661.45	7349.32	46.25
Blythe	Unit 1	2023	Nov	650.23	719.35	0.00	1.65	69.12	99.47	99.77	0.23	0.37	157087.00	151291.00	1125360000.00	7592.35	7312.22	40.35
Blythe	Unit 1	2023	Dec	648.83	744.00	0.00	0.00	95.17	99.81	100.00	0.00	0.00	142372.00	137154.00	1015330000.00	7594.58	7316.24	35.45
Blythe	Unit 1	2024	Jan	305.47	504.12	0.00	0.00	198.65	67.76	67.76	0.00	0.00	72410.00	70158.00	509280000.00	7498.59	7265.38	18.13
Blythe	Unit 1	2024	Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blythe	Unit 1	2024	Mar	90.93	331.43	0.00	0.62	240.50	44.52	44.61	0.08	0.67	14777.00	14194.00	129000000.00	9279.20	8913.11	3.67
Blythe	Unit 1	2024	Apr	437.75	720.00	0.00	0.00	282.25	97.22	100.00	0.00	0.14	94677.00	90923.00	691520000.00	7750.82	7443.50	24.28
Blythe	Unit 1	2024	May	161.07	744.00	0.00	0.00	582.93	97.31	100.00	0.00	0.00	36209.00	34674.00	252590000.00	7444.97	7129.36	8.96
Blythe	Unit 1	2024	Jun	187.68	720.00	0.00	0.00	532.32	97.31	100.00	0.00	0.00	41215.00	39523.00	302710000.00	7827.58	7506.24	10.56
Blythe	Unit 1	2023		4006.76	4364.35	0.00	52.65	357.59	96.59	98.78	1.22	1.79	1040979.00	995902.00	7470640000.00	7691.66	7360.96	43.29
Blythe	Unit 1	2024		1182.90	3019.55	0.00	0.62	1836.65	67.35	68.73	0.01	0.14	259288.00	249472.00	1885100000.00	6633.53	6376.27	10.93
Blythe Tota	l July 2023 -	June 2024		5189.66	7383.90	0.00	53.27	2194.24	81.97	83.76	0.62	0.96	1300267.00	1245374.00	9355740000.00	7162.59	6868.61	27.11

ON-SITE CONTINGENCY PLAN FOR UNEXPECTED TEMPORARY AND PERMANENT FACILITY CLOSURE BLYTHE ENERGY PROJECT BLYTHE, CALIFORNIA

Submitted by:

Blythe Energy Inc. 385 N. Buck Blvd. Blythe, California 92225

Submitted to:

California Energy Commission 1516 Ninth Street Sacramento, California 95814

July 31, 2024

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Appendix A	Emergency Response Plan/HMMP (included in HMMP submittal)
Appendix B	Chemical Unloading Procedure/Waste Management Plan (included in
	HMMP submittal)
Appendix C	Aqua Ammonia Risk Management Pla (included in HMMP submittal)

1.0 INTRODUCTION

The Blythe Energy Project (BEP) is in Blythe, California, on 180 acres, at 385 N. Buck Blvd. (Figure 1). BEP is a 520 MW natural gas-fired, combustion turbine combined cycle plant. BEP's technical configuration consists of a two times one combined cycle plant utilizing two Siemens Westinghouse KWU model F-class V84.3A(2) combustion turbines, two Vogt- NEM Harp-design heat recovery steam generators (HRSGs), and a single condensing Siemens Westinghouse Series K-N steam turbine generator. The project will be interconnected to the Western Area Power Administration's Blythe substation.

A common water treatment plant is provided to process makeup water for boiler losses and to process water from the eight cell cooling tower. Wastewater produced on-site from the water treatment operation, is treated and the brine waste is sent to an onsite, double-lined evaporation pond. All rainwater trapped on-site will be directed to an on-site storm water retention pond.

In the event of an unexpected temporary and/or permanent facility closure, this On-Site Contingency Plan for Unexpected Temporary and Permanent Facility Closure has been prepared in accordance with the California Energy Commission's (CBC) Commission Decision Docket Number 99-AFC-8, Section IV - General Conditions for Closure Plan. This document is also a requirement of the Public Resources Code section 25532.

Blythe Energy Project (BEP) personnel will use this plan in the event of an unexpected temporary or permanent closure of the facility. "Unexpected temporary" closure is defined by the CEC as:

"This unplanned unexpected temporary closure occurs when the facility is closed suddenly and/or unexpectedly, on a short-term basis, due to unforeseen circumstances such as a natural disaster, or an emergency".

"Unexpected permanent closure" is defined as:

"This unplanned unexpected permanent closure occurs if the project owner closes the facility suddenly and/or unexpectedly, on a permanent basis. This includes both when an owner is implementing the on-site contingency plan, and when the project owner has abandoned the project."

The purpose of this plan is to provide an on-site contingency plan in the event if an unexpected temporary or permanent closure of the facility is warranted. The plan is designed such that public health and safety and the environment are protected from adverse impacts. The plan covers additional procedures concerning site security, hazardous materials and waste removal, and insurance and warranty coverage.

2.0 NOTIFICATION PROCEDURES

In the event of an unexpected temporary or permanent closure, the Plant General Manager or alternate designated by the Plant General Manager shall notify the CEC's Compliance Project Manager (CPM) and other responsible agencies listed on Table 1 within 24 hours and take all necessary steps to implement this Plan. The General Manager shall also keep the CPM informed of the circumstances of closure and the expected duration.

If a temporary closure is determined to likely be permanent, or for the duration of more than twelve consecutive months, a closure plan consistent with the CBC requirements for a planned closure shall be developed and submitted to the CPM within 90 days of the CPMs determination, or some other period of time mutually agreed to by the owner and the CPM.

TABLE 1 AGENCIES TO BE NOTIFIED

California Energy Commission (CEC)

Ms. Ashley Gutierrez 1516 9th Street, MS-200 Sacramento, CA 95814 (916) 839-0400 ashley.gutierrez@energy.ca.gov

California Department of Occupational Health & Safety (Cal/OSHA)

464 West 4th Street Suite 332 San Bernardino, CA 92401 **909-383-4321**

City of Blythe Fire Department

Station #43 140 West Bernard Street Blythe, CA 92225 **911 or 760-921-7822**

County of Riverside Fire Department

Station# 45 - Blythe Air Base 17280 West Hobsonway Blythe, CA 92225 **760-921-7825**

Regional Water Quality Control Board - Colorado River Basin Region (RWQCB)

73 - 720 Fred Waring Drive, Suite 100 Palm Desert, CA 92260 **760-346-7491** info7@waterboards.ca.gov

Mojave Desert Air Quality Management District (MDAQMD)

14306 Park Avenue Victorville, CA 92392 **760-245-1661**

TABLE 1 AGENCIES TO BE NOTIFIED (continued)

County of Riverside - Community Health Agency

Supervising EHS 47950 Arabia Street Suite A Indio, CA 92201 **760-863-8976**

U.S. Environmental Protection Agency - Region IX (EPA)

24 - Hour Environmental Emergencies – **800-424-8802**

California Department of Fish & Game

Environmental Response Branch P.O. Box 949209 Sacramento, CA 94244-2090 916-375-8500

City of Blythe Police Department

240 North Spring Street Blythe, CA. 92225 **911 or 760-922-6111**

National Response Center

National Coast Guard Response Center **800-424-8802** nrc@usgc.mil

U.S. Coast Guard - Marine Response

National Command Center - Emergencies Only **202-372-2100**

In the event of an unexpected temporary or permanent plant closure, BEP personnel will shut down all operating equipment that is not necessary to respond to an emergency in accordance with plant operating procedures. In the event of an emergency shutdown (e.g., earthquake, fire, or explosion), BEP personnel should consult the Emergency Response Plan (ERP and HMMP) (Appendix A).

The ERP for the BEP has been developed to provide procedures for the continual development and implementation of the Emergency Action Plan (EAP and HMMP). The EAP is an interactive document and is intended to protect facility personnel, the public, the environment, and property should an emergency occur at the facility. The HMMP is the site Hazardous Material Management Plan and contains specific site hazardous material response information.

The ERP/HMMP provides emergency response guidelines so that BEP shift and management personnel can adequately evaluate and respond to issues affecting the protection of plant personnel, company resources, and the environment. The ERP/HMMP includes information on the organization, equipment, instructions, and requirements necessary to enable a rapid and effective response to an emergency situation at the BEP. The plan is divided into several subsections that address areas of responsibility and actions to be taken immediately during and after an accident or emergency.

Specifically, the ERP/HMMP provides guidelines for emergencies including personal injuries, fire, leaks and or spills of hazardous materials, sabotage, civil disturbance, severe weather, and earthquakes. The appropriate response to each of these emergency situations, including evacuation, is outlined in Section 5.3.7, "Initial Response Procedures" of the ERP (Appendix A).

In the event of an emergency, BEP Production Leaders are responsible for the operation of the facility and will assume the duties of Emergency Coordinator (EC) until the Production Manager arrives on site. Upon notification of an incident, the Production Manager or an alternate designated by the EC assumes the functions of the facility EC. The EC will exercise command and control over the response actions of the facility organization. The EC is also responsible for ensuring that local emergency response agencies and appropriate emergency response contractors are notified of an incident (Table 1).

4.0 SITE SECURITY AND EMERGENCY RESPONSE

The Blythe Energy Project (BEP) is in Blythe, California, on 180 acres, at 385 N. Buck Blvd (Figure 1). The main entrance to the plant is located on the west side of Buck Boulevard, north of Hobsonway. A security audio/video surveillance system monitors entry to the Plant 24 hours per day, 365 days per year. An eight-foot-high chain-link fence surrounds the plant. Entry is controlled through an automatic gate, which is activated remotely by the Control Room, or by a unique card key system. BEP authorized personnel carry ID/gate key cards.

All gate activity, personnel entry/exit data is maintained in a PLC database which is an integral part of the security system.

In the event of an unexpected closure, BEP will inspect and ensure that the plant fence is intact. In addition, BEP will use an onsite guard (or other private security services) to maintain site security, if necessary.

In the event of a personal injury, fire, hazardous materials emergency or similar situation, the EC will notify the City of Blythe Fire Department. The Fire Department will have access to the site through the main gate and will also have access to copies of the following documents:

- Emergency Response Plan/HMMP (Appendix A)
- Chemical Unloading Procedure/Waste Management Plan (Appendix B)
- Aqua Ammonia Risk Management Plan (Appendix C)
- Spill Prevention Control and Countermeasures Plan

The information contained in these documents will help enable the Fire Department to respond to any emergency situation in the event that site personnel have evacuated the premises.

5.0 HAZARDOUS MATERIAL AND WASTE REMOVAL

Handling and disposal of all hazardous materials and wastes shall be performed in accordance with all applicable laws and ordinances as outlined in the Waste Management Plan (WMP) (Appendix B). The locations of all hazardous materials routinely present at BEP are shown in the HMMP. In the event of an unexpected temporary closure, not all hazardous materials may require removal. In such an event, BEP will conduct a visual inspection of all hazardous material storage vessels to assess tank integrity.

The objectives of the Waste Management Plan is to ensure that all hazardous materials at BEP are used and handled in the safest manner possible, to prevent/minimize employee exposure to hose materials, and to minimize the effects of an accidental release of those materials, in compliance with applicable laws and regulations. In the event of an unexpected temporary closure, the Waste Management Plan (Appendix B) will be consulted if it is necessary to remove any hazardous material or waste.

The largest quantities of potentially hazardous liquid chemicals used at BEP are for water treatment. These chemicals include concentrated sulfuric acid and sodium hydroxide. These chemicals are stored in aboveground tanks in the water treatment area and piped throughout the water treatment facility.

Potentially hazardous gasses at BEP include anhydrous ammonia (liquid phase), aqueous ammonia (vapor phase), and natural gas. Aqueous Ammonia is used as part of the air emission control system. The aqueous ammonia is stored in one tank north of the Water Treatment Plant. The anhydrous ammonia is stored on an ammonia skid south of the Power Block (east of the aqueous ammonia tank). While stored as a liquid, anhydrous ammonia will change to a gas if released into the atmosphere.

Whenever practical, hazardous materials will be returned to the vender or transferred to another entity that may have use for the material(s). The following waste transporters or other qualified waste transporters will be used if it is deemed necessary to remove any hazardous wastes from the site:

TABLE 2 WASTE TRANSPORTERS

HCI Environmental & Engineering

Corporate Office: 800.988.4424 24/7 Live Operator customerservice@hcienv.com

If the unexpected temporary closure also results in_ a release of hazardous materials or waste, plant personnel will consult the Emergency Response Plan/HMMP (Appendix A), Chemical Unloading Procedure/WMP (Appendix B), and/or the Risk Management Plan (Appendix C).

These plans address release prevention and emergency policies in place at BEP, a hazardous materials inventory including Material Safety Data Sheets (MSDS), applicable employee training, the location of safety equipment and main utility shutoff valves, notification methods, and accident investigation procedures.

The BEP is a zero-discharge facility meaning that there is no offsite runoff from the site. Spilled materials are therefore contained onsite. The BEP filed for an exemption with the California Regional Water Quality Control Board - Colorado River Basin Region (RWQCB), from requirements of the Storm Water Pollution Prevention Plan. The Spill Prevention Control and Countermeasures Plan (SPCCP) describes the engineered controls and necessary actions to contain spilled petroleum products, and the ERP/HMMP describes the methods to be employed to respond to any released material. The SPCCP and ERP/HMMP documents are available to responders at the facility.

Best Management Practices (BMPs), both structural and non-structural, are utilized at the site to reduce pollutants in storm water discharge. Structural BMPs include such measures as berms, and a storm water retention pond used to hold or divert storm water. Non-structural BMPs include such measures as regular inspections, good housekeeping practices, proper initial training and subsequent annual training, and specific procedures for storing and/or loading and unloading of hazardous materials and wastes.

BEP personnel will consult the ERP/HMMP (Appendix A), Waste Management Plan (WMP) (Appendix B), Risk Management Plan (RMP) (Appendix C), and the Spill Prevention Control and Countermeasures Plan (SPCCP) prior to handling any hazardous material or conducting waste removal.

6.0 INSURANCE COVERAGE

All supplied equipment including the combustion turbine generators are under warranty for one year after provisional acceptance of the plant by BEP. BEP is currently insured under an "All-· Risk" Builders Risk policy provided by the Plant Construction Contractor for property damage and business interruption. This policy will remain in place until provisional acceptance of the plant by BEP, after which time equivalent insurance will be provided under a policy provided by BEP or its affiliates for property damage and business interruption.

BEP or its affiliates maintains insurance in forms and to limits appropriate for BEP operations, including All Risk Property insurance for property damage.

7.0 UNEXPECTED TEMPORARY CLOSURE

In the event that BEP is closed temporarily, there are additional tasks to be performed including notification procedures and development of contingency plans for areas of transmission line engineering and biological resources.

7.1 Transmission Line Engineering

Prior to electrical generation, BEP must sign a Generator Facility Interconnection Agreement SCE and the Cal ISO that establishes procedures for planned or unexpected temporary and/or permanent closure. These procedures define communication between BEP and SCE that is necessary to ensure that plant closure will comply with all applicable laws, ordinances, regulations and standards (LORS), and that system safety and reliability will not be jeopardized.

7.2 Biological Resources

In the case of temporary closure, measures to protect biological resources. will be needed only if there is a potential for surface disturbances or releases of hazardous materials. If such an event occurs, BEP will consult with the California Department of Fish and Game and US Department of Fish and Wildlife to help plan clean up and mitigation of impacts to biological resources.

8.0 PERMANENT CLOSURE

In the event that BEP is closed permanently, there are additional tasks that need to be performed including preparing a facility closure plan, notifying agencies, ensuring site security, removing hazardous materials and wastes and providing for closure of the evaporation pond(s).

8.1 Facility Closure Plan

In order to ensure that permanent closure does not create adverse impacts, a closure process will be undertaken by BEP that provides for careful consideration of available options, applicable LORS, and local plans in existence at the time of closure. BEP will meet with the CEC, RWQCB and other agencies as necessary prior to the development of the closure plan to establish elements of the plan. In accordance with CEC provisions, the plan, at minimum, will include the following:

- 1. Future plans for the site (i.e., redevelopment etc.).
- 2. Information required by specific CEC Conditions of Certification.
- 3. A plan for the removal of hazardous materials stored on site. If hazardous waste or contamination exists, or if there is a potential for contamination to exist, a plan to conduct an environmental site assessment and remediation, where applicable, shall be prepared. The plan will be submitted to the Department of Toxic Substances Control (DTSC), the RWQCB, or other appropriate agency with jurisdiction over the remediation.
- 4. A schedule of activities for closure of the power plant site, transmission line corridor, gas meter station, evaporation pond(s), and all other facilities included as part of the plant site.
- 5. A discussion of potential impacts and mitigation to address significant adverse impacts associated with the proposed closure activities, and to address facilities or other plant-related equipment that will remain on site following closure. A list of the facilities and equipment intended to remain on site following closure, including the reason it must remain on site and its intended future use, if any, should also be included.
- 6. A discussion on conformance of the plan with all applicable LORS, local and/or regional plans in existence at the time of plant closure and applicable conditions of certification.

The facility closure plan will be submitted to the CECs CPM, City of Blythe, Riverside County, and RWQCB for review and approval at least 12 months, or other mutually agreed upon time, prior to commencing permanent closure activities.

8.2 Agency Notification

Additional notification may be necessary in the event of a permanent closure including renotifying each of the agencies listed in Table 1. The closure plan will also be sent to those appropriate agencies with which BEP has a current permit.

8.3 Site Security

Prior to permanent closure, the Plant General Manager or designee will notify the City of Blythe, Riverside County Fire Department and Riverside County Sheriff's Department giving them notice that the existing level of site security and/or surveillance will not be in effect. This will enable these agencies to respond appropriately in the event of a fire or disturbance. It may be necessary for BEP to provide site security for a period of time following permanent closure. The Plan Production Manager or designee will determine the need for such interim security and will address it in the closure plan, where appropriate.

8.4 Removal of Hazardous Materials and Waste

As required by the CECs Commission Decision, BEP is responsible for the removal of all hazardous materials and wastes from the site as part of permanent site closure. If BEP intends to redevelop the site, other requirements may need to be met to remove or store materials at a different site location. A detailed removal plan will be included in the closure plan.

8.5 Biological, Cultural, and Paleontological Resources

When a permanent closure plan is prepared, it will include the mitigation requirements in effect at the time for species that would be impacted. The plan will also include the removal of the transmission facilities when they are no longer used, and reclamation of areas where facilities would be removed. This may include ripping of soil, contouring of disturbed areas, implementation of erosi0n control measures, re-vegetation, and other actions deemed appropriate or necessary at the time the closure plan is developed.

Compliance reporting of biological resources for closure activities would likely include preactivity survey reports, biological monitoring during reclamation, and a final report describing the closure activities and any follow-up/add-on mitigation work that would be required.

The permanent closure plan will include a description regarding the potential of the closure activities to impact cultural and paleontological resources. The closure requirements are to be based upon the Cultural Resources and Paleontological Resources final reports. If no activities are proposed that would potentially impact either of these resources, no mitigation measures will be required.

8.6 Closure of the Evaporation Pond(s)

In the event of permanent closure, BEP is required to close and abandon the evaporation pond(s) as outlined in the Waste Discharge Requirement (WDR) and Monitoring and Reporting Program (MRP) Board Order Number R7-2002-0012 and as required by Title 27. The site WDRs require that BEP submit a final closure and post-closure maintenance plan including a seismicity study one year prior to anticipated closure. For an unexpected temporary closure that appears will result in a permanent closure this schedule may be met. However, in the event of an unexpected permanent closure, BEP will work with the RWQCB and CEC to establish a mutually agreeable schedule.

BEP will attempt the Mandatory Clean-Closure of the pond(s) as required under Title 27, Chapter 3, Subchapter 5, Article 3, Section 21400, or applicable regulations in effect at the time of closure. Clean closure will consist of the removal and offsite disposal or re-use of all pond construction materials, accumulated sludge, and liquid wastes. The pond(s) area will be graded following removal of all materials.

REVISION HISTORY

Rev#	Revision Description	Approval Title	Approval Signature	Effective Date
00	Initial implementation	Blythe Energy LLC	Blythe Energy LLC	2003.03.12
01	Revised verbiage removing previous owner FPL. Updated figures to latest drawings	Sr. O&M Manager	David Gutierrez	2024.07.2024

UPDATE NOTICE

To all holders of the "On-Site Contingency Plan for Unexpected or Temporary. and Permanent Facility Closure" for the Plant:

Revision Number: <u>R e v 0 1</u>
Date: <u>07/31/2024</u>

Attached are revised pages for the "On-Site Contingency Plan for Unexpected or Temporary and Permanent Facility Closure" that has been assigned to you. Please remove pages in your book and replace with these revisions. When this is done, record the revisions on the "Record of Revisions" page of your manual.

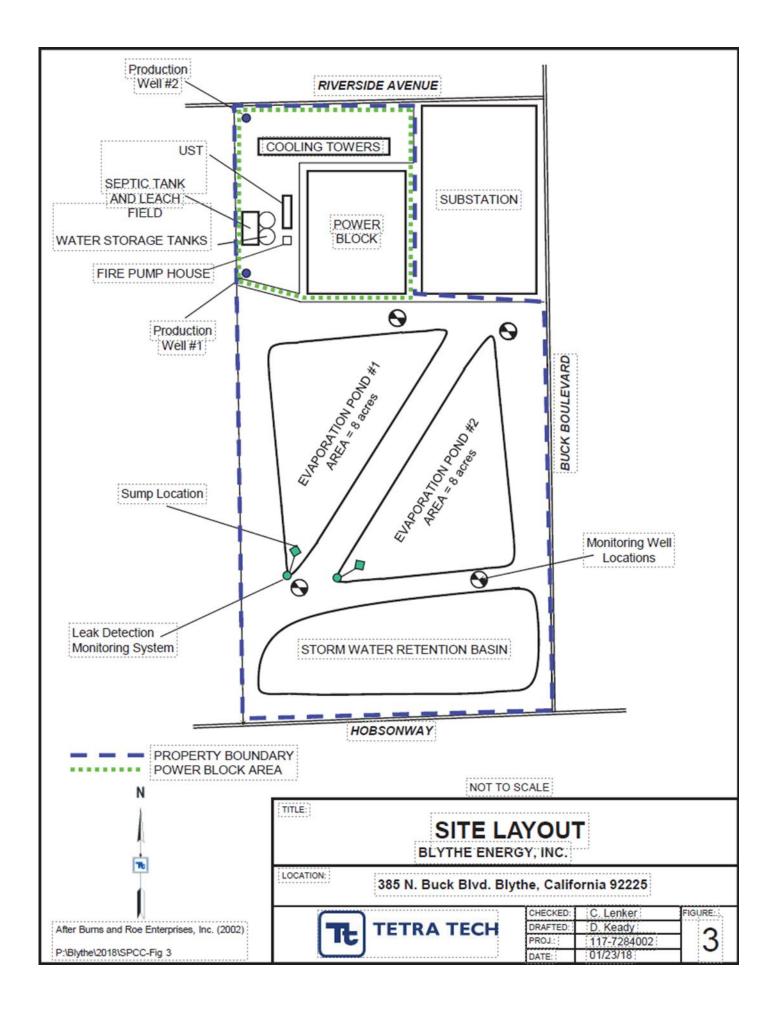
Remove Old Pages

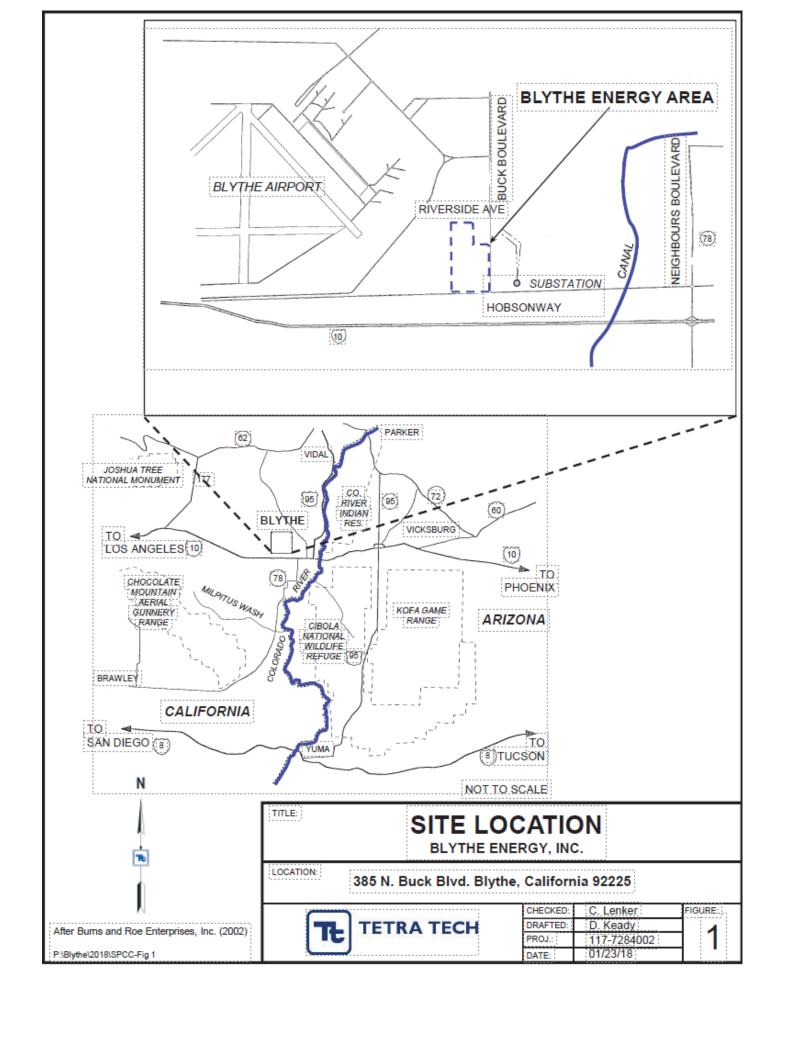
Replace with Revised Pages

(None)

(Revised verbiage removing previous owner FPL. Updated figures to latest drawings)

FIGURES





APPENDIX A

EMERGENCY RESPONSE PLAN/HMMP (included in HMMP Submittal)

APPENDIX B

CHEMICAL UNLOADING PROCEDURE/WASTE MANAGEMENT PLAN

(included in HMMP submittal)

APPENDIX C

AQUA AMMONIA RISK MANAGEMENT PLAN (included in HMMP submittal)

FIRST SEMI-ANNUAL 2024 MONITORING REPORT BLYTHE ENERGY PROJECT BLYTHE, CALIFORNIA



Submitted by:
Blythe Energy Inc.
385 North Buck Boulevard
Blythe, California 92225
(760) 922-9950

Submittal to:

The California Regional Water Quality Control Board Colorado River Basin Region 73-720 Fred Waring Drive, Suite 100 Palm Desert, California 92260



July 31, 2024

California Regional Water Quality Control Board Colorado River Basin Region 73-720 Fred Waring Drive, Suite 100 Palm Desert, California 92260

Attention: Mr. Scot Stormo

Engineering Geologist

Subject: First Semi-Annual 2024 Monitoring Report

Monitoring and Reporting Program Board Order No. R7-2002-0012

Blythe Energy Project Blythe, California

Dear Mr. Stormo:

Blythe Energy Inc. is pleased to present this report containing field data, laboratory analytical results, and statistical analysis for sampling conducted during the first and second quarters of 2024 at our Blythe, California facility. Field sampling was performed under the terms of the California Regional Water Quality Control Board – Colorado River Basin Region (RWQCB) Board Order Number R7-2002-0012. Field sampling was performed by Northstar Environmental Remediation (Northstar) of Lake Forest, California.

Data within this report summarizes the sampling activities that occurred during the first and second quarters of 2024. Laboratory data sheets and chain-of-custody records are also included as an appendix to this report.

If you should have any questions regarding this report, please contact David Gutierrez IV, Manager Operations at (760) 921-1359.

Sincerely,

Blythe Energy Inc.

Mike Ludwin

Interim Plant General Manager Sr. Director Operations-Power

cc: David Gutierrez IV (Blythe Energy Inc.)

CDFW USFWS



FIRST SEMI-ANNUAL 2024 MONITORING REPORT **BLYTHE ENERGY INC. BLYTHE, CALIFORNIA**

July 31, 2024

Prepared for:

Blythe Energy Inc. 385 North Buck Boulevard Blythe, California 92225

Prepared by:

WSP USA Environment and Infrastructure Inc. 3560 Hyland Avenue, Ste. 100 Costa Mesa, California 92626 (949) 642-0245

Project No. NB11160982

Duane G. Paul, PG 6336, CHG 414

Principal Hydrogeologist

FIRST SEMI-ANNUAL 2024 MONITORING REPORT BLYTHE ENERGY INC. BLYTHE, CALIFORNIA

Submitted by:

Blythe Energy Inc. 385 North Buck Boulevard Blythe, California 92225

Mike Ludwin
Interim Plant General Manager
Sr. Director Operations - Power
Agent For
Blythe Energy Inc.



TABLE OF CONTENTS

- 1. Facility Information and Declaration
- 2. Monitoring
- 3. Reference Maps
- 4. Quarterly Potentiometric Surface Maps
- 5. Analytical Summary Tables
- 6. Statistical Analysis
- 7. Lysimeter Test Records
- 8. Evaporation Pond Sampling Records
- 9. Well Sampling Records
- 10. Leachate Collection and Recovery System (LCRS) & Weekly Lysimeter Records

<u>APPENDIX</u>

Appendix A Laboratory Analytical Data Sheets



FIRST SEMI-ANNUAL 2024 MONITORING REPORT

SECTION 1 FACILITY INFORMATION AND DECLARATION

First Semi-Annual 2024 Monitoring Report Blythe Energy Inc. Blythe, California July 31, 2024



FACILITY INFORMATION

Facility Contact:

David Gutierrez IV Senior Manager, Operations & Maintenance Blythe Energy Inc.

Telephone:

(760) 921-1359

Address:

Blythe Energy Inc. 385 North Buck Boulevard Blythe, California 92225

Monitoring and Reporting Program:

California Regional Water Quality Control Board Order No. R7-2002-0012

First Semi-Annual 2024 Monitoring Report Blythe Energy Inc. Blythe, California July 31, 2024

DECLARATION

I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information. I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Mike Ludwin

Interim Plant General Manager Sr. Director Operations - Power Agent For

Blythe Energy Inc.



FIRST SEMI-ANNUAL 2024 MONITORING REPORT

SECTION 2 MONITORING First Semi-Annual 2024 Monitoring Report Blythe Energy Inc. Blythe, California July 31, 2024



MONITORING

The First Semi-Annual 2024 monitoring event was conducted in compliance with the California Regional Water Quality Control Board- Lahontan Region (RWQCB) Board Order No. R7-2002-012 Waste Discharge Requirements (WDRs) and associated Monitoring and Reporting Program (MRP). First and second quarter 2024 groundwater monitoring was performed by Northstar Environmental Remediation (Northstar) of Lake Forest, California on March 27 and May 15, respectively.

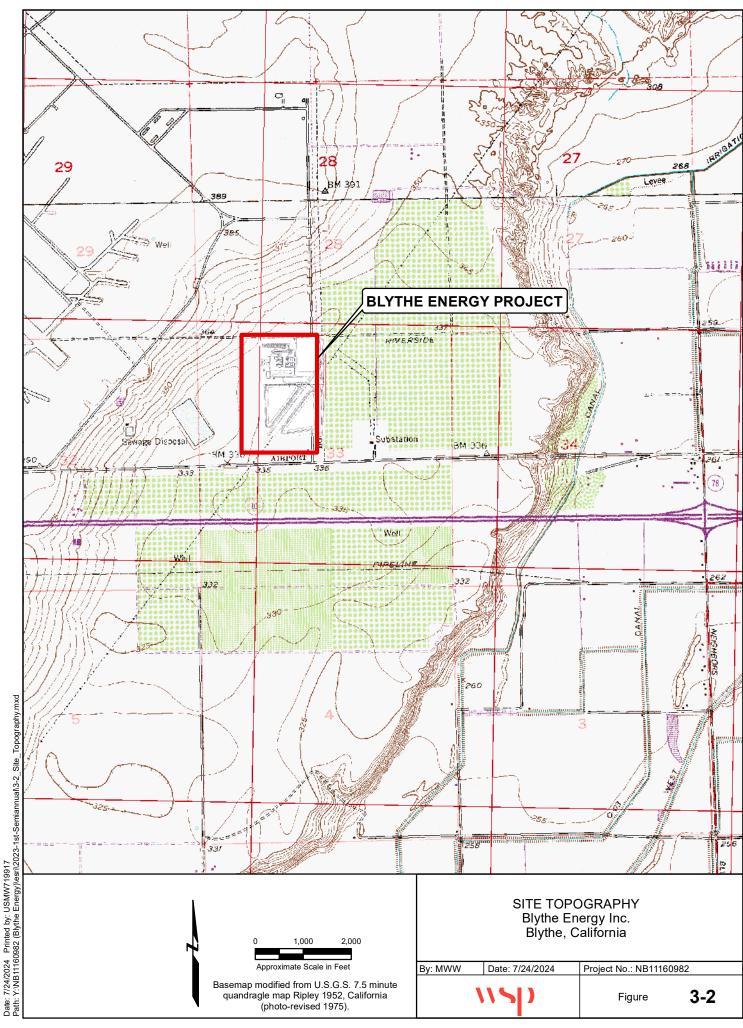
Site reference maps and first and second quarter 2024 potentiometric surface maps are included in Sections 3 and 4. Groundwater quality laboratory analytical data is presented in Section 5 and the statistical analysis is presented in Section 6. The records for the lysimeter, evaporation pond, monitoring well, and the leakage collection recovery sump (LCRS) are presented in Sections 7 through 10. Laboratory analytical data sheets and chain-of-custody reports are also included in Appendix A.



FIRST SEMI-ANNUAL 2024 MONITORING REPORT SECTION 3 REFERENCE MAPS

: 7/24/2024 Printed by: USMW719917 Y:NB11160982 (Blythe Energy)\ser\\2023-1st-Semiannua\\3-1_Site_Location_Map.mxd

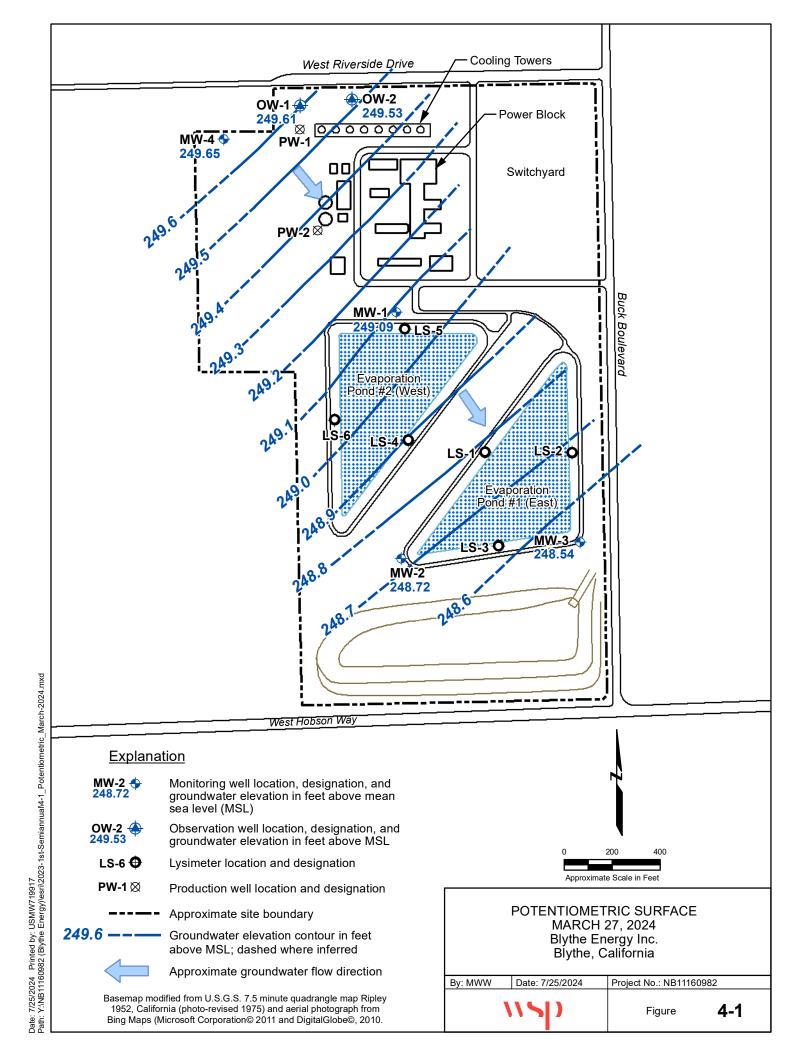


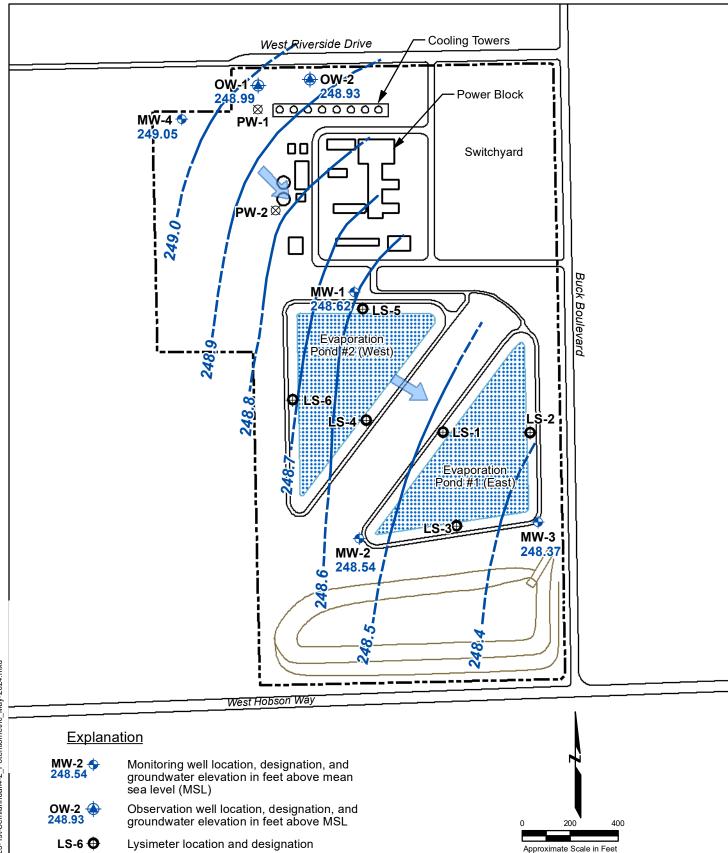




FIRST SEMI-ANNUAL 2024 MONITORING REPORT

SECTION 4
QUARTERLY POTENTIOMETRIC SURFACE MAPS





PW-1 ⋈ Production well location and designation

---- Approximate site boundary

249.0 — Groundwater elevation contour in feet above MSL; dashed where inferred

Approximate groundwater flow direction

Basemap modified from U.S.G.S. 7.5 minute quadrangle map Ripley 1952, California (photo-revised 1975) and aerial photograph from Bing Maps (Microsoft Corporation© 2011 and DigitalGlobe©, 2010.

POTENTIOMETRIC SURFACE May 15, 2024 Blythe Energy Inc. Blythe, California

By: MWW Date: 7/25/2024 Project No.: NB11160982



Figure

4-2



FIRST SEMI-ANNUAL 2024 MONITORING REPORT

SECTION 5
ANALYTICAL SUMMARY TABLES



TABLE 5-1 SUMMARY OF FIRST SEMI-ANNUAL 2024 WEST EVAPORATION POND WATER LABORATORY ANALYTICAL RESULTS

Laboratory Analyte	Method	Detection Limit (mg/L)	Result (mg/L)
Antimony	EPA 200.7	2.5	ND
Arsenic	EPA 200.7	2.5	ND
Barium	EPA 200.7	0.10	0.13
Cadmium	EPA 200.7	0.25	ND
Total Chromium	EPA 200.7	1.3	ND
Cobalt	EPA 200.7	1.3	ND
Copper	EPA 200.7	1.3	ND
Lead	EPA 200.7	1.3	ND
Mercury	EPA 245.1	0.00020	ND
Nickel	EPA 200.7	1.3	ND
Selenium	EPA 200.7	1.0	ND
Zinc	EPA 200.7	6.3	ND
Sulfate	EPA 300.0	1,000	80,000
Chloride	EPA 300.0	1,000	78,000
Fluoride	EPA 300.0	5.0	32
Total Dissolved Solids	SM2540C	2,000	240,000
Specific Conductance	SM2510B	1.0 µmhos/cm	170,000
рН	SM4500-H,B	0.100 pH units	NA

Parameters (Field)	Units	Value
Water Temperature	Degrees Celsius	35.1
рН	pH Units	8.01
Specific Conductance	ms/cm	>20.00

Water sample collected on May 15, 2024, from the West Pond. The East Pond was dry.

Notes:

mg/L = milligrams per liter

ND = Not detected at method detection limit indicated

ms/cm = Millisiemens per centimeter

 μ mhos/cm = Micromhos per centimeter

NA = Not Available



TABLE 5-2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS FIRST QUARTER 2024

Analyte	EPA Method	Reporting	MW-1	MW-2	MW-3	MW-4	DUP
Allalyte	EPA Method	Limit (mg/L)*	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	300.0	10	190	130	160	320	160
Sulfate	300.0	10	430	410	420	360	420
Selenium	200.7	0.10	ND	ND	ND	ND	ND
Total Dissolved Solids	SM2540C	10	1,200	1,100	1,200	1,200	1,300
Specific Conductance							
(umhos/cm)	SM2510B	1.0	1,900	1,700	1,800	2,000	1,800

Field Parameters	Units	MW-1	MW-2	MW-3	MW-4	DUP
Static Water Level	Feet Below Measuring Point	88.18	89.05	89.68	92.85	NA
Stabilized pH	pH Units	7.11	7.03	6.68	7.20	NA
Stabilized Water Temperature	Degrees Celsius	30.4	29.8	24.7	32.0	NA

Groundwater samples collected on March 27, 2024.

Notes:

mg/L = milligrams per liter
NA = Not applicable
ND = Not detected

Dup = Duplicate sample of MW-3

* = Except where noted on laboratory analytical data sheets



TABLE 5-2 (Cont.) SUMMARY OF GROUNDWATER ANALYTICAL RESULTS SECOND QUARTER 2024

Analyte	EPA Method	Reporting	MW-1	MW-2	MW-3	MW-4	DUP
Allalyte	EFA Wethou	Limit (mg/L)*	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	300.0	10	180	130	150	310	180
Sulfate	300.0	10	450	390	410	340	450
Selenium	200.7	0.10	ND	ND	ND	ND	ND
Total Dissolved Solids	SM2540C	20	1,300	1,200	1,200	1,200	1,300
Specific Conductance							
(umhos/cm)	SM2510B	1.0	2,000	1,700	1,800	2,000	2,000

Field Parameters	Units	MW-1	MW-2	MW-3	MW-4	DUP
Static Water Level	Feet Below Measuring Point	88.65	89.25	89.85	93.45	NA
Stabilized pH	pH Units	7.16	7.02	6.68	7.22	NA
Stabilized Water Temperature	Degrees Celsius	30.3	30.2	24.7	33.8	NA

Groundwater samples collected on May 15, 2024.

Notes:

mg/L = milligrams per liter
NA = Not applicable
ND = Not detected

Dup = Duplicate sample of MW-2

* = Except where noted on laboratory analytical data sheets



FIRST SEMI-ANNUAL 2024 MONITORING REPORT

SECTION 6 STATISTICAL ANALYSIS



STATISTICAL ANALYSIS - SECOND SEMI-ANNUAL 2023 MONITORING

Statistical analysis is used as an additional method for the detection of leakage from the surface impoundments. The statistical methods used for this program are those specified in the RWQCB Waste Discharge Requirements (WDR) and Monitoring and Reporting Programs (MRPs) of Order Number R7-2002-0012. Statistical analysis of groundwater quality data is based on intra-well rather than inter-well comparisons. The following section presents the technical approach and results of the statistical analysis for the First Semi-Annual 2024 sampling event and the intra-well statistical analysis.

APPROACH AND RESULTS

The Upper Tolerance Limit (UTL) is recalculated for each well based on historical data. Concentrations from subsequent quarterly groundwater samples collected from each well are compared to the corresponding UTLs. An UTL was calculated for each of the four groundwater monitoring wells sampled during the first and second quarters of 2024. Calculations of UTLs are presented in Table 6-1.

As shown in Table 6-2, there was an UTL exceedance for chloride in the water sample collected from well MW-4 during the first quarter 2024 sampling event. There was also an UTL exceedance for TDS from the water sample collected from well MW-2 in the second quarter 2024. Based on evaluation of the raw data, the UTL exceedances were determined not to be caused by rounding of the laboratory results. The higher chloride concentration reported at MW-4 during the first quarter 2024 is consistent with those reported in the first, second, and third quarter 2023 sample results. The higher TDS concentration reported from well MW-2 exceeded the UTL but did not exceed the range of previous TDS sample results for MW-2.

As described in the second semi-annual 2023 monitoring report, the quarterly groundwater elevation and flow interpretations since the first quarter 2023 have shown consistent groundwater flow from northwest to southeast beneath the site, with MW-4 as generally the most upgradient-most well at the site. As such, it is likely that the higher reported concentrations observed at MW-4 in 2023 and the first quarter 2023 are attributed to groundwater movement from areas north to northwest of the site flowing onto (beneath) the site and not attributed to operations at the facility.



					Table 6-1: Calcu	lation for M	ean and Standard	Deviation (To	tal Dissolved Solids	s)					
	<u>MW1</u>				<u>MW2</u>				MW3				MW4		
Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)
0	3Q-02	1170	7.0648	0	3Q-02	1180	7.0733	0	3Q-02	1120	7.0211	-			
270	2Q-03	1160	7.0562		2Q-03	1050	6.9565		2Q-03	947	6.8533				
450	1Q-04	1100	7.0031	450	1Q-04	1000	6.9078		1Q-04	1000	6.9078				
540	2Q-04	1200	7.0901	540	2Q-04	960	6.8669		2Q-04	1100	7.0031				
630	3Q-04	1100	7.0031	630	3Q-04	1000	6.9078		3Q-04	1000	6.9078				
720	4Q-04	1100	7.0031 ²⁷ 0	720	4Q-04	1000	6.9078 ²⁷ 0		4Q-04	1100	7.0031				
810	1Q-05	1100	7.0031	810	1Q-05	1100	7.0031 ⁴⁵ 0		1Q-05	1100	7.0031				
900	2Q-05	1170	7.0648	900	2Q-05	1090	6.9939 ⁵⁴ 0		2Q-05	1080	6.9847				
990	3Q-05	1080	6.9847	990	3Q-05	985	6.8926 ⁶³ 0		3Q-05	1000	6.9078				
1080	4Q-05	1100	7.0031	1080	4Q-05	1000	6.9078 ⁷² 0		4Q-05	1200	7.0901				
1170	1Q-06	1070	6.9754	1170	1Q-06	999	6.9068 ⁸¹ 0		1Q-06	1040	6.9470				
1260	2Q-06	1100	7.0031	1260	2Q-06	1000	6.9078 ⁹⁰ 0		2Q-06	1100	7.0031				
1350	3Q-06	1100	7.0031	1350	3Q-06	1100	7.0031990		3Q-06	1100	7.0031				
1440	4Q-06	1100	7.0031	1440	4Q-06	1000	7.0031 ⁹⁹⁰ 6.9078		4Q-06	1100	7.0031				
1530	1Q-07	1100	7.0031	1530	1Q-07	1000	6.9078 1170 7.0031		1Q-07	1100	7.0031				
1620	2Q-07	1100	7.0031	1620	2Q-07	1100	7.0031		2Q-07	1200	7.0901				
	RA-07	1200	7.0901		RA-07	1100	7 0031		RA-07	1200	7.0901				
1710	3Q-07	1100	7.0031		3Q-07	1100	7,000,1440		3Q-07	1100	7.0031				
1800	4Q-07	1200	7.0901	1800	4Q-07	1100	7.0031 7.0031 7.0031 1620		4Q-07	1500	7.3132				
1867	12/7/2007	1200	7.0901	1867	12/7/2007	1100	7.0031 1620	1867	12/7/2007	1400	7.2442				
1890	1Q-08	1200	7.0901		1Q-08	1100	7.0031		1Q-08	1300	7.1701				
1966	2Q-08	1200	7.0901 7.0901	1966	2Q-08	1100	7.0031		2Q-08	1700	7.4384				
2068	3Q-08	1100	7.0031	2068	3Q-08	1100	7.0031		3Q-08	1600	7.3778				
2178	4Q-08	1100	7.0031	2178	4Q-08	1100	7.0031		4Q-08	1400	7.2442				
2349	1Q-09	1100	7.0031 ₁₈ 90	2349	1Q-09	1100	7.0031 7.0031 1099		1Q-09	1200	7.0901				
2473	2Q-09	1200	7.0901	2473	2Q-09	1100	7 0031		2Q-09	1100	7.0031				
2571	3Q-09	1100	7.0031	2571	3Q-09	1100	7.0031	2571	3Q-09	1400	7.2442	0	3Q-09	1200	7.0901
							21/8	2605	10/30/09	1300	7.1701	34	10/30/09	1100	7.0031
2652	4Q-09	1200	7.0901	2652	4Q-09	1100	7.0031	2652	4Q-09	1500	7.3132	81	4Q-09	1200	7.0901
2718	1Q-10	1200	7.0901	2718	1Q-10	1100	7.0031 7.0031 7.0031	2718	1Q-10	1800	7.4955	116	1Q-10	1200	7.0901
								2753	4/2/2010	1800	7.4955				
2800	2Q-10	1200	7.0901	2800	2Q-10	1100	7.0031	2800	2Q-10	2300	7.7407	198	2Q-10	1200	7.0901
2828	6/18/2010	1200	7.0901	2828	6/18/2010	1100	7.0031	2828	6/18/2010	2400	7.7832	226	6/18/2010	1200	7.0901
2895	3Q-10	1100	7.0031	2895	3Q-10	1100	7.0031	2895	3Q-10	2500	7.8240	293	3Q-10	1100	7.0031
								2922	9/20/2010R	2200	7.6962				
3014	4Q-10	1200	7.0901	3014	4Q-10	1100	7.0031	3014	4Q-10	1500	7.3132	412	4Q-10	1200	7.0901
3086	1Q-11	1200	7.0901	3086	1Q-11	1100	7.0031	3086	1Q-11	1600	7.3778	576	1Q-11	1200	7.0901
3179	2Q-11	1100	7.0031	3179	2Q-11	1100	7.0031	3179	2Q-11	1800	7.4955	669	2Q-11	1100	7.0031
3286	3Q-11	1200	7.0901	3286	3Q-11	1100	7.0031	3286	3Q-11	1500	7.3132	776	3Q-11	1100	7.0031
3372	4Q-11	1200	7.0901	3372	4Q-11	1100	7.0031	3372	4Q-11	1400	7.2442	862	4Q-11	1200	7.0901
3472	1Q-12	1200	7.0901	3472	1Q-12	1100	7.0031	3472	1Q-12	1500	7.3132	962	1Q-12	1100	7.0031



Table 6-1: Calculation for Mean and Standard Deviation (Total Dissolved Solids)

						ulation for M	ean and Stand	ard Deviation (10t	tal Dissolved Solid	S)					
	<u>MW1</u>				<u>MW2</u>				MW3				<u>MW4</u>		
Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)
3572	2Q-12	1100	7.0031	3572	2Q-12	1100	7.0031	3572	2Q-12	1400	7.2442	1062	2Q-12	1100	7.0031
3638	3Q-12	1200	7.0901	3638	3Q-12	1100	7.0031	3638	3Q-12	1200	7.0901	1128	3Q-12	1100	7.0031
3741	4Q-12	1200	7.0901	3741	4Q-12	1100	7.0031	3741	4Q-12	1100	7.0031	1231	4Q-12	1100	7.0031
3840	1Q-13	1100	7.0031	3840	1Q-13	1000	6.9078	3840	1Q-13	1100	7.0031	1330	1Q-13	1000	6.9078
3904	2Q-13	1200	7.0901	3904	2Q-13	1100	7.0031	3904	2Q-13	1200	7.0901	1394	2Q-13	1100	7.0031
4013	3Q-13	1200	7.0901	4013	3Q-13	1100	7.0031	4013	3Q-13	1000	6.9078	1507	3Q-13	1100	7.0031
4088	4Q-13	1200	7.0901	4088	4Q-13	1100	7.0031	4088	4Q-13	1100	7.0031	1583	4Q-13	1100	7.0031
4202	1Q-14	1200	7.0901	4202	1Q-14	1100	7.0031	4202	1Q-14	1100	7.0031	1697	1Q-14	1100	7.0031
4316	2Q-14	1200	7.0901	4316	2Q-14	1100	7.0031	4316	2Q-14	1100	7.0031	1811	2Q-14	1100	7.0031
4395	3Q-14	1200	7.0901	4395	3Q-14	1100	7.0031	4395	3Q-14	1100	7.0031	1890	3Q-14	1100	7.0031
4472	4Q-14	1200	7.0901	4472	4Q-14	1100	7.0031	4472	4Q-14	1000	6.9078	1967	4Q-14	1100	7.0031
4579	1Q-15	1200	7.0901	4579	1Q-15	1100	7.0031	4579	1Q-15	970	6.8773	2074	1Q-15	1000	6.9078
4765	2Q-15	1200	7.0901	4765	2Q-15	1100	7.0031	4765	2Q-15	1000	6.9078	2260	2Q-15	1100	7.0031
4848	3Q-15	1300	7.1701	4848	3Q-15	1100	7.0031	4848	3Q-15	1000	6.9078	2343	3Q-15	1100	7.0031
4938	4Q-15	1200	7.0901	4938	4Q-15	1100	7.0031	4938	4Q-15	1000	6.9078	2433	4Q-15	1100	7.0031
5055	1Q-16	1200	7.0901	5055	1Q-16	1100	7.0031	5055	1Q-16	1000	6.9078	2550	1Q-16	1100	7.0031
5122	2Q-16	1200	7.0901	5122	2Q-16	1100	7.0031	5122	2Q-16	1000	6.9078	2617	2Q-16	1100	7.0031
5213	3Q-16	1300	7.1701	5213	3Q-16	1100	7.0031	5213	3Q-16	1000	6.9078	2708	3Q-16	1100	7.0031
5305	4Q-16	1100	7.0031	5305	4Q-16	1100	7.0031	5305	4Q-16	920	6.8244	2800	4Q-16	1100	7.0031
5397	1Q-17	1300	7.1701	5397	1Q-17	1100	7.0031	5397	1Q-17	980	6.8876	2892	1Q-17	1100	7.0031
5487	2Q-17	1200	7.0901	5487	2Q-17	1100	7.0031	5487	2Q-17	1000	6.9078	2982	2Q-17	1100	7.0031
5563	3Q-17	1200	7.0901	5563	3Q-17	1100	7.0031	5563	3Q-17	970	6.8773	3058	3Q-17	1200	7.0901
5672	4Q-17	1300	7.1701	5672	4Q-17	1100	7.0031	5672	4Q-17	950	6.8565	3167	4Q-17	1200	7.0901
5782	1Q-18	1200	7.0901	5782	1Q-18	1100	7.0031	5782	1Q-18	1100	7.0031	3277	1Q-18	1200	7.0901
5850	2Q-18	1200	7.0901	5850	2Q-18	1100	7.0031	5850	2Q-18	1100	7.0031	3345	2Q-18	1200	7.0901
5960	3Q-18	1300	7.1701	5960	3Q-18	1100	7.0031	5960	3Q-18	1100	7.0031	3455	3Q-18	1100	7.0031
6007	10/30/2018	1200	7.0901												
6041	4Q-18	1200	7.0901	6041	4Q-18	1100	7.0031	6041	4Q-18	1100	7.0031	3536	4Q-18	1100	7.0031
6136	1Q-19	1200	7.0901	6135	1Q-19	1100	7.0031	6135	1Q-19	1200	7.0901	3631	1Q-19	1000	6.9078
6233	2Q-19	1200	7.0901	6233	2Q-19	1100	7.0031	6233	2Q-19	1100	7.0031	3728	2Q-19	1100	7.0031
6330	3Q-19	1300	7.1701	6330	3Q-19	1100	7.0031	6330	3Q-19	1100	7.0031	3825	3Q-19	1100	7.0031
6311	4Q-19	1300	7.1701	6311	4Q-19	1100	7.0031	6311	4Q-19	1200	7.0901	3806	4Q-19	1100	7.0031
6417	1Q-20	1200	7.0901	6417	1Q-20	1100	7.0031	6417	1Q-20	1300	7.1701	3912	1Q-20	1100	7.0031
6494	2Q-20	1300	7.1701	6494	2Q-20	1100	7.0031	6494	2Q-20	1300	7.1701	3989	2Q-20	1100	7.0031
6606	3Q-20	1300	7.1701	6606	3Q-20	1200	7.0901	6606	3Q-20	1300	7.1701	4101	3Q-20	1200	7.0901
6678	4Q-20	1200	7.0901	6678	4Q-20	1200	7.0901	6678	4Q-20	1300	7.1701	4173	4Q-20	1100	7.0031
6769	1Q-21	1200	7.0901	6769	1Q-21	1100	7.0031	6769	1Q-21	1200	7.0901	4264	1Q-21	980	6.8876
6851	2Q-21	1300	7.1701	6851	2Q-21	1100	7.0031	6851	2Q-21	1200	7.0901	4346	2Q-21	1100	7.0031
7033	3Q-21	1300	7.1701	7033	3Q-21	1100	7.0031	7033	3Q-21	1000	6.9078	4528	3Q-21	1100	7.0031
7131	4Q-21	1100	7.0031	7131	4Q-21	1000	6.9078	7131	4Q-21	1100	7.0031	4626	4Q-21	990	6.8977
7223	1Q-22	1200	7.0901	7223	1Q-22	1100	7.0031	7223	1Q-22	1100	7.0031	4718	1Q-22	1100	7.0031
7298	2Q-22	1200	7.0901	7298	2Q-22	1100	7.0031	7298	2Q-22	1100	7.0031	4793	2Q-22	1100	7.0031
7388	3Q-22	1300	7.1701	7388	3Q-22	1100	7.0031	7388	3Q-22	1200	7.0901	4883	3Q-22	1100	7.0031



Table 6-1: Calculation for Mean and Standard Deviation (Total Dissolved Solids)

	<u>MW1</u>				MW2				MW3				MW4		
Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)
7480	4Q-22	1300	7.1701	7480	4Q-22	1200	7.0901	7480	4Q-22	1300	7.1701	4975	4Q-22	1400	7.2442
7582	1Q-23	1300	7.1701	7582	1Q-23	1100	7.0031	7582	1Q-23	1200	7.0901	5077	1Q-23	1300	7.1701
7670	2Q-23	1200	7.0901	7670	2Q-23	1100	7.0031	7670	2Q-23	1300	7.1701	5165	2Q-23	1300	7.1701
7785	3Q-23	1300	7.1701	7785	3Q-23	1100	7.0031	7785	3Q-23	1300	7.1701	5280	3Q-23	1200	7.0901
7877	4Q-23	1300	7.1701	7877	4Q-23	1100	7.0031	7877	4Q-23	1300	7.1701	5372	4Q-23	1200	7.0901
7989	1Q-24	1200	7.0901	7989	1Q-24	1100	7.0031	7989	1Q-24	1200	7.0901	5484	1Q-24	1200	7.0901
8038	2Q-24	1300	7.1701	8038	2Q-24	1200	7.0901	8038	2Q-24	1200	7.0901	5533	2Q-24	1200	7.0901
Standard Deviation =		68.3218	0.0570	Standard Deviation =	=	38.5175	0.0408	Standard Deviation =		318.5425	0.2122	Standard Deviation	=	74.7374	0.0648
Mean =		1190.2299	7.0803	Mean =		1089.1163	6.9923	Mean =		1249.1798	7.1055	Mean =		1129.0164	7.0270
n =		87	87	n =		86	86	n =		89	89	n =		61	61
(t{n-1, 0.95}) =		1.663	1.663	(t{n-1, 0.95}) =		1.663	1.663	(t{n-1, 0.95}) =		1.662	1.662	(t{n-1, 0.95}) =		1.670	1.670
$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.008
$k = t(1 + 1/n)^{1/2} =$			1.673	$k = t(1 + 1/n)^{1/2} =$			1.673	$k = t(1 + 1/n)^{1/2} =$			1.671	$k = t(1 + 1/n)^{1/2} =$			1.684
UTL = Mean + St.Dev	.*k =		7.1757	UTL = Mean + St.De	v.*k =		7.0606	UTL = Mean + St.Dev.*	'k =		7.4602	UTL = Mean + St.De	ev.*k =		7.1361
Concentration Signific	ant?		No	Concentration Signifi	cant?		No	Concentration Significa	nt?		No	Concentration Signi	ficant?		No
Standard Deviation =		68.5069	0.0575	Standard Deviation =	=	44.9797	0.0419	Standard Deviation =		312.5222	0.2110	Standard Deviation	=	74.6685	0.0647
Mean =		1191.4773	7.0813	Mean =		1090.3908	6.9934	Mean =		1248.6333	7.1053	Mean =		1130.1613	7.0280
n =		88	88	n =		87	87	n =		90	90	n =		62	62
(t{n-1, 0.95}) =		1.662	1.662	(t{n-1, 0.95}) =		1.663	1.663	(t{n-1, 0.95}) =		1.662	1.662	(t{n-1, 0.95}) =		1.670	1.670
$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.008
$k = t(1 + 1/n)^{1/2} =$			1.671	$k = t(1 + 1/n)^{1/2} =$			1.673	$k = t(1 + 1/n)^{1/2} =$			1.671	$k = t(1 + 1/n)^{1/2} =$			1.683
UTL = Mean + St.Dev	.*k =		7.1775	UTL = Mean + St.De	v.*k =		7.0635	UTL = Mean + St.Dev.*	'k =		7.4580	UTL = Mean + St.De	ev.*k =		7.1370
Concentration Signific	ant?		No	Concentration Signifi	cant?		Yes	Concentration Significa	nt?		No	Concentration Signi	ficant?		No



Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Sulfate)

					Table 6-1 (Cont.): Cald	culation for Mea	in and Standard	Deviation (Sulfate)						
	<u>MW1</u>				<u>MW2</u>				<u>MW3</u>				<u>MW4</u>		
Days	Date	SO ₄	In(SO ₄)	Days	Date	SO ₄	In(SO₄)	Days	Date	SO ₄	In(SO₄)	Days	Date	SO ₄	In(SO₄)
0	3Q-02	348	5.8522	0	3Q-02	419	6.0379	0	3Q-02	403	5.9989				
270	2Q-03	409	6.0137	270	2Q-03	427	6.0568	270	2Q-03	404	6.0014				
450	1Q-04	370	5.9135	450	1Q-04	360	5.8861	450	1Q-04	340	5.8289				
540	2Q-04	330	5.7991	540	2Q-04	340	5.8289	540	2Q-04	330	5.7991				
630	3Q-04	360	5.8861	630	3Q-04	360	5.8861	630	3Q-04	350	5.8579				
720	4Q-04	380	5.9402	720	4Q-04	370	5.9135	720	4Q-04	380	5.9402				
810	1Q-05	350	5.8579	810	1Q-05	360	5.8861	810	1Q-05	340	5.8289				l
900	2Q-05	326	5.7869	900	2Q-05	331	5.8021	900	2Q-05	303	5.7137				l
990	3Q-05	451	6.1115	990	3Q-05	450	6.1092	990	3Q-05	440	6.0868				ļ
1080	4Q-05	360	5.8861	1080	4Q-05	360	5.8861	1080	4Q-05	330	5.7991				l
1170	1Q-06	379	5.9375	1170	1Q-06	369	5.9108	1170	1Q-06	358	5.8805				
1260	2Q-06	390	5.9661	1260	2Q-06	370	5.9135	1260	2Q-06	370	5.9135				
1350	3Q-06	370	5.9135	1350	3Q-06	400	5.9915	1350	3Q-06	380	5.9402				
1440	4Q-06	370	5.9135	1440	4Q-06	380	5.9402	1440	4Q-06	380	5.9402				
1530	1Q-07	380	5.9402	1530	1Q-07	380	5.9402	1530	1Q-07	360	5.8861				
1620	2Q-07	460	6.1312	1620	2Q-07	470	6.1527	1620	2Q-07	450	6.1092				
	RA-07	385	5.9532		RA-07	365	5.8999		RA-07	360	5.8861				
1710	3Q-07	370	5.9135	1710	3Q-07	380	5.9402	1710	3Q-07	380	5.9402				
1800	4Q-07	360	5.8861	1800	4Q-07	360	5.8861	1800	4Q-07	420	6.0403				
1867	12/7/2007	380	5.9402		12/7/2007	360	5.8861	1867	12/7/2007	385	5.9532				
1890	1Q-08	380	5.9402	1890	1Q-08	380	5.9402	1890	1Q-08	390	5.9661				
1966	2Q-08	380	5.9402	1966	2Q-08	370	5.9135	1966	2Q-08	480	6.1738				
2068	3Q-08	390	5.9661 ₁₈₆₇	2068	3Q-08	400	5.9915	2068	3Q-08	480	6.1738				
2178	4Q-08	400	5.9915	2178	4Q-08	410	6.0162	2178	4Q-08	460	6.1312				
2349	1Q-09	380	5.9402	2349	1Q-09	390	5.9661	2349	1Q-09	360	5.8861				l
2473	2Q-09	390	5.9661	2473	2Q-09	390	5.9661	2473	2Q-09	340	5.8289				
2571	3Q-09	370	5.9135	2571	3Q-09	350	5.8579	2571	3Q-09	560	6.3279	0	3Q-09	380	5.9402
								2618	10/30/09	430	6.0638	34	10/30/09	350	5.8579
2652	4Q-09	370	5.9135	2652	4Q-09	380	5.9402	2652	4Q-09	500	6.2146	81	4Q-09	350	5.8579
2718	1Q-10	370	5.9135	2718	1Q-10	400	5.9915	2718	1Q-10	610	6.4135	116	1Q-10	370	5.9135
								2753	4/2/2010	620	6.4297				l
2800	2Q-10	390	5.9661	2800	2Q-10	420	6.0403	2800	2Q-10	620	6.4297	198	2Q-10	380	5.9402
2828	6/18/2010	330	5.7991	2828	6/18/2010	360	5.8861	2828	6/18/2010	690	6.5367	226	6/18/2010	340	5.8289
2895	3Q-10	380	5.9402	2895	3Q-10	370	5.9135	2895	3Q-10	700	6.5511	293	3Q-10	370	5.9135
								2922	9/20/2010R	750	6.6201				l
3014	4Q-10	340	5.8289	3014	4Q-10	380	5.9402	3014	4Q-10	510	6.2344	412	4Q-10	380	5.9402
3086	1Q-11	360	5.8861	3086	1Q-11	370	5.9135	3086	1Q-11	490	6.1944	576	1Q-11	340	5.8289
3179	2Q-11	400	5.9915	3179	2Q-11	410	6.0162	3179	2Q-11	640	6.4615	669	2Q-11	370	5.9135
3286	3Q-11	380	5.9402	3286	3Q-11	410	6.0162	3286	3Q-11	510	6.2344	776	3Q-11	360	5.8861
3372	4Q-11	390	5.9661	3372	4Q-11	410	6.0162	3372	4Q-11	500	6.2146	862	4Q-11	370	5.9135



 Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Sulfate)

	MW1				MW2				MW3				MW4		
Days	Date	SO ₄	In(SO ₄)	Days	Date	SO ₄	In(SO₄)	Days	Date	SO ₄	In(SO ₄)	Days	Date	SO ₄	In(SO ₄)
3472	1Q-12	340	5.8289	3472	1Q-12	360	5.8861	3472	1Q-12	510	6.2344	962	1Q-12	300	5.7038
3572	2Q-12	500	6.2146	3572	2Q-12	420	6.0403	3572	2Q-12	480	6.1738	1062	2Q-12	350	5.8579
3638	3Q-12	380	5.9402	3638	3Q-12	400	5.9915	3638	3Q-12	420	6.0403	1128	3Q-12	320	5.7683
3741	4Q-12	410	6.0162	3741	4Q-12	420	6.0403	3741	4Q-12	390	5.9661	1231	4Q-12	340	5.8289
3840	1Q-13	400	5.9915	3840	1Q-13	410	6.0162	3840	1Q-13	370	5.9135	1330	1Q-13	330	5.7991
3904	2Q-13	380	5.9402	3904	2Q-13	390	5.9661	3904	2Q-13	350	5.8579	1394	2Q-13	300	5.7038
4013	3Q-13	390	5.9661	4013	3Q-13	420	6.0403	4013	3Q-13	330	5.7991	1507	3Q-13	310	5.7366
4088	4Q-13	420	6.0403	4088	4Q-13	410	6.0162	4088	4Q-13	340	5.8289	1583	4Q-13	310	5.7366
4202	1Q-14	420	6.0403	4202	1Q-14	440	6.0868	4202	1Q-14	450	6.1092	1697	1Q-14	330	5.7991
4316	2Q-14	410	6.0162	4316	2Q-14	480	6.1738	4316	2Q-14	400	5.9915	1811	2Q-14	360	5.8861
4395	3Q-14	440	6.0868	4395	3Q-14	410	6.0162	4395	3Q-14	370	5.9135	1890	3Q-14	310	5.7366
4472	4Q-14	340	5.8289	4472	4Q-14	360	5.8861	4472	4Q-14	290	5.6699	1967	4Q-14	270	5.5984
4579	1Q-15	390	5.9661	4579	1Q-15	360	5.8861	4579	1Q-15	290	5.6699	2074	1Q-15	270	5.5984
4765	2Q-15	370	5.9135	4765	2Q-15	360	5.8861	4765	2Q-15	280	5.6348	2260	2Q-15	270	5.5984
4848	3Q-15	430	6.0638	4848	3Q-15	410	6.0162	4848	3Q-15	330	5.7991	2343	3Q-15	320	5.7683
4938	4Q-15	410	6.0162	4938	4Q-15	410	6.0162	4938	4Q-15	330	5.7991	2433	4Q-15	320	5.7683
5055	1Q-16	370	5.9135	5055	1Q-16	380	5.9402	5055	1Q-16	340	5.8289	2550	1Q-16	310	5.7366
5122	2Q-16	390	5.9661	5122	2Q-16	420	6.0403	5122	2Q-16	330	5.7991	2617	2Q-16	310	5.7366
5213	3Q-16	420	6.0403	5213	3Q-16	390	5.9661	5213	3Q-16	300	5.7038	2708	3Q-16	310	5.7366
5305	4Q-16	400	5.9915	5305	4Q-16	420	6.0403	5305	4Q-16	330	5.7991	2800	4Q-16	360	5.8861
5397	1Q-17	450	6.1092	5397	1Q-17	400	5.9915	5397	1Q-17	310	5.7366	2892	1Q-17	340	5.8289
5487	2Q-17	440	6.0868	5487	2Q-17	400	5.9915	5487	2Q-17	330	5.7991	2982	2Q-17	340	5.8289
5563	3Q-17	430	6.0638	5563	3Q-17	400	5.9915	5563	3Q-17	310	5.7366	3058	3Q-17	330	5.7991
5672	4Q-17	400	5.9915	5672	4Q-17	380	5.9402	5672	4Q-17	290	5.6699	3167	4Q-17	310	5.7366
5782	1Q-18	390	5.9661	5782	1Q-18	400	5.9915	5782	1Q-18	390	5.9661	3277	1Q-18	340	5.8289
5850	2Q-18	390	5.9661	5850	2Q-18	380	5.9402	5850	2Q-18	360	5.8861	3345	2Q-18	310	5.7366
5960	3Q-18	430	6.0638	5960	3Q-18	390	5.9661	5960	3Q-18	380	5.9402	3455	3Q-18	300	5.7038
6007	10/30/2018	410	6.0162												
6041	4Q-18	380	5.9402	6041	4Q-18	380	5.9402	6041	4Q-18	380	5.9402	3536	4Q-18	280	5.6348
6136	1Q-19	370	5.9135	6135	1Q-19	370	5.9135	6135	1Q-19	390	5.9661	3631	1Q-19	270	5.5984
6233	2Q-19	450	6.1092	6233	2Q-19	400	5.9915	6233	2Q-19	400	5.9915	3728	2Q-19	290	5.6699
6330	3Q-19	440	6.0868	6330	3Q-19	400	5.9915	6330	3Q-19	390	5.9661	3825	3Q-19	300	5.7038
6311	4Q-19	390	5.9661	6311	4Q-19	370	5.9135	6311	4Q-19	390	5.9661	3806	4Q-19	270	5.5984
6417	1Q-20	390	5.9661	6417	1Q-20	370	5.9135	6417	1Q-20	410	6.0162	3912	1Q-20	260	5.5607
6494	2Q-20	430	6.0638	6494	2Q-20	390	5.9661	6494	2Q-20	400	5.9915	3989	2Q-20	280	5.6348
6606	3Q-20	210	5.3471	6606	3Q-20	380	5.9402	6606	3Q-20	430	6.0638	4101	3Q-20	280	5.6348
6678	4Q-20	420	6.0403	6678	4Q-20	390	5.9661	6678	4Q-20	440	6.0868	4173	4Q-20	280	5.6348
6769	1Q-21	440	6.0868	6769	1Q-21	390	5.9661	6769	1Q-21	440	6.0868	4264	1Q-21	280	5.6348
6851	2Q-21	450	6.1092	6851	2Q-21	400	5.9915	6851	2Q-21	410	6.0162	4346	2Q-21	300	5.7038
7033	3Q-21	440	6.0868	7033	3Q-21	380	5.9402	7033	3Q-21	330	5.7991	4528	3Q-21	280	5.6348



Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Sulfate)

	<u>MW1</u>				MW2				<u>MW3</u>				MW4		
Days	Date	SO ₄	In(SO ₄)	Days	Date	SO ₄	In(SO ₄)	Days	Date	SO₄	In(SO ₄)	Days	Date	SO ₄	In(SO ₄)
7131	4Q-21	380	5.9402	7131	4Q-21	390	5.9661	7131	4Q-21	430	6.0638	4626	4Q-21	280	5.6348
7223	1Q-22	420	6.0403	7223	1Q-22	400	5.9915	7223	1Q-22	380	5.9402	4718	1Q-22	300	5.7038
7298	2Q-22	450	6.1092	7298	2Q-22	390	5.9661	7298	2Q-22	380	5.9402	4793	2Q-22	290	5.6699
7388	3Q-22	450	6.1092	7388	3Q-22	390	5.9661	7388	3Q-22	390	5.9661	4883	3Q-22	310	5.7366
7480	4Q-22	450	6.1092	7480	4Q-22	380	5.9402	7480	4Q-22	400	5.9915	4975	4Q-22	380	5.9402
7582	1Q-23	440	6.0868	7582	1Q-23	380	5.9402	7582	1Q-23	410	6.0162	5077	1Q-23	390	5.9661
7670	2Q-23	410	6.0162	7670	2Q-23	380	5.9402	7670	2Q-23	390	5.9661	5165	2Q-23	370	5.9135
7785	3Q-23	470	6.1527	7785	3Q-23	410	6.0162	7785	3Q-23	450	6.1092	5280	3Q-23	360	5.8861
7877	4Q-23	430	6.0638	7877	4Q-23	390	5.9661	7877	4Q-23	430	6.0638	5372	4Q-23	320	5.7683
7989	1Q-24	430	6.0638	7989	1Q-24	410	6.0162	7989	1Q-24	420	6.0403	5484	1Q-24	360	5.8861
8038	2Q-24	450	6.1092	8038	2Q-24	390	5.9661	8038	2Q-24	410	6.0162	5533	2Q-24	340	5.8289
Standard Deviation	า =	40.5558	0.1113	Standard Deviation	n =	25.9061	0.0653	Standard Deviation =	=	94.3123	0.2069	Standard Deviatio	n =	35.8884	0.1116
Mean =		395.6092	5.9747	Mean =		390.3605	5.9649	Mean =		411.1573	5.9965	Mean =		322.2951	5.7694
n =		87	87	n =		86	86	n =		89	89	n =		61	61
(t{n-1, 0.95}) =		1.663	1.663	(t{n-1, 0.95}) =		1.663	1.663	$(t{n-1, 0.95}) =$		1.662	1.662	(t{n-1, 0.95}) =		1.670	1.670
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.008
$k = t(1 + 1/n)^{1/2} =$			1.673	$k = t(1 + 1/n)^{1/2} =$			1.673	$k = t(1 + 1/n)^{1/2} =$			1.671	$k = t(1 + 1/n)^{1/2} =$			1.684
UTL = Mean + St.E	Dev.*k =		6.1609	UTL = Mean + St.I	Dev.*k =		6.0741	UTL = Mean + St.De	ev.*k =		6.3422	UTL = Mean + St.	Dev.*k =		5.9572
Concentration Sign	nificant?		No	Concentration Sign	nificant?		No	Concentration Signif	icant?		No	Concentration Sig	nificant?		No
Standard Deviation	า =	40.7368	0.1114	Standard Deviation	n =	25.7551	0.0649	Standard Deviation =	=	93.7811	0.2057	Standard Deviatio	n =	35.6640	0.1109
Mean =		396.2273	5.9762	Mean =		390.3563	5.9650	Mean =		411.1444	5.9967	Mean =		322.5806	5.7703
n =		88	88	n =		87	87	n =		90	90	n =		62	62
(t{n-1, 0.95}) =		1.662	1.662	(t{n-1, 0.95}) =		1.663	1.663	(t{n-1, 0.95}) =		1.662	1.662	(t{n-1, 0.95}) =		1.670	1.670
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.008
$k = t(1 + 1/n)^{1/2} =$			1.671	$k = t(1 + 1/n)^{\frac{1}{2}} =$			1.673	$k = t(1 + 1/n)^{\frac{1}{2}} =$			1.671	$k = t(1 + 1/n)^{1/2} =$			1.683
UTL = Mean + St.	Dev.*k =		6.1625	UTL = Mean + St.I	Dev.*k =		6.0735	UTL = Mean + St.De	ev.*k =		6.3405	UTL = Mean + St.	Dev.*k =		5.9570
Concentration Sign	nificant?_		No	Concentration Sign	nificant?		No	Concentration Signif	icant?		No	Concentration Sig	nificant?		No



Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Chloride)

					Table 6-1 (C	ont.): Calcı	ılation for Mea	n and Standard	Deviation (Chloride)						
	<u>MW1</u>				<u>MW2</u>				<u>MW3</u>				<u>MW4</u>		
Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	Date	CI	In(CI)
0	3Q-02	294	5.6836	0	3Q-02	225	5.4161	0	3Q-02	202	5.3083				
270	2Q-03	272	5.6058	270	2Q-03	209	5.3423	270	2Q-03	117	4.7622				
450	1Q-04	200	5.2983	450	1Q-04	180	5.1930	450	1Q-04	110	4.7005				
540	2Q-04	220	5.3936	540	2Q-04	190	5.2470	540	2Q-04	120	4.7875				
630	3Q-04	200	5.2983	630	3Q-04	180	5.1930	630	3Q-04	120	4.7875				
720	4Q-04	210	5.3471	720	4Q-04	180	5.1930	720	4Q-04	210	5.3471				
810	1Q-05	230	5.4381	810	1Q-05	180	5.1930	810	1Q-05	130	4.8675				
900	2Q-05	182	5.2040	900	2Q-05	158	5.0626	900	2Q-05	109	4.6913				
990	3Q-05	255	5.5413	990	3Q-05	211	5.3519	990	3Q-05	156	5.0499				
1080	4Q-05	230	5.4381	1080	4Q-05	180	5.1930	1080	4Q-05	130	4.8675				
1170	1Q-06	219	5.3891	1170	1Q-06	189	5.2417	1170	1Q-06	149	5.0039				
1260	2Q-06	210	5.3471	1260	2Q-06	190	5.2470	1260	2Q-06	160	5.0752				
1350	3Q-06	210	5.3471	1350	3Q-06	190	5.2470	1350	3Q-06	180	5.1930				
1440	4Q-06	210	5.3471	1440	4Q-06	190	5.2470	1440	4Q-06	210	5.3471				
1530	1Q-07	230	5.4381	1530	1Q-07	190	5.2470	1530	1Q-07	200	5.2983				
1620	2Q-07	210	5.3471	1620	2Q-07	210	5.3471	1620	2Q-07	230	5.4381				
	RA-07	220	5.3936		RA-07	205	5.3230		RA-07	240	5.4806				
1710	3Q-07	250	5.5215	1710	3Q-07	190	5.2470	1710	3Q-07	190	5.2470				
1800	4Q-07	230	5.4381	1800	4Q-07	180	5.1930	1800	4Q-07	300	5.7038				
1867	12/7/2007	270	5.5984	1867	12/7/2007	190	5.2470	1867	12/7/2007	270	5.5984				
1890	1Q-08	250	5.5215	1890	1Q-08	190	5.2470	1890	1Q-08	280	5.6348				
1966	2Q-08	230	5.4381	1966	2Q-08	200	5.2983	1966	2Q-08	350	5.8579				
2068	3Q-08	250	5.5215	2068	3Q-08	200	5.2983	2068	3Q-08	400	5.9915				
2178	4Q-08	240	5.4806	2178	4Q-08	180	5.1930	2178	4Q-08	320	5.7683				
2349	1Q-09	230	5.4381	2349	1Q-09	190	5.2470	2349	1Q-09	230	5.4381				
2473	2Q-09	230	5.4381	2473	2Q-09	170	5.1358	2473	2Q-09	220	5.3936				
2571	3Q-09	230	5.4381	2571	3Q-09	220	5.3936	2571	3Q-09	370	5.9135	0	3Q-09	270	5.5984
								2618	10/30/09	220	5.3936	34	10/30/09	250	5.5215
2652	4Q-09	220	5.3936	2652	4Q-09	170	5.1358	2652	4Q-09	250	5.5215	81	4Q-09	250	5.5215
2718	1Q-10	230	5.4381	2718	1Q-10	170	5.1358	2718	1Q-10	360	5.8861	116	1Q-10	260	5.5607
								2753	4/2/2010	400	5.9915				
2800	2Q-10	260	5.5607	2800	2Q-10	180	5.1930	2800	2Q-10	580	6.3630	198	2Q-10	280	5.6348
2828	6/18/2010	250	5.5215	2828	6/18/2010	170	5.1358	2828	6/18/2010	660	6.4922	226	6/18/2010	250	5.5215
2895	3Q-10	220	5.3936	2895	3Q-10	220	5.3936	2895	3Q-10	670	6.5073	293	3Q-10	260	5.5607
								2922	9/20/2010R	460	6.1312				
3014	4Q-10	220	5.3936	3014	4Q-10	160	5.0752	3014	4Q-10	200	5.2983	412	4Q-10	260	5.5607
3086	1Q-11	210	5.3471	3086	1Q-11	160	5.0752	3086	1Q-11	240	5.4806	576	1Q-11	250	5.5215
3179	2Q-11	200	5.2983	3179	2Q-11	160	5.0752	3179	2Q-11	340	5.8289	669	2Q-11	260	5.5607
3286	3Q-11	190	5.2470	3286	3Q-11	160	5.0752	3286	3Q-11	190	5.2470	776	3Q-11	250	5.5215
3372	4Q-11	230	5.4381	3372	4Q-11	170	5.1358	3372	4Q-11	180	5.1930	862	4Q-11	270	5.5984
3472	1Q-12	210	5.3471	3472	1Q-12	160	5.0752	3472	1Q-12	220	5.3936	962	1Q-12	280	5.6348
3572	2Q-12	270	5.5984	3572	2Q-12	160	5.0752	3572	2Q-12	190	5.2470	1062	2Q-12	260	5.5607



Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Chloride)

	<u>MW1</u>				MW2	ont.j. Galet	diation for Mea	in and Otandara B	MIM2	<i>)</i>			<u>MW4</u>		
Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	<u>MW3</u> Date	CI	In(CI)	Days	Date	CI	In(CI)
	3Q-12		5.3936		3Q-12	150	5.0106	3638	3Q-12	140	ì	1128			
3638 3741	4Q-12	220 230	5.4381	3638 3741	4Q-12	170	5.1358	3741	4Q-12	160	4.9416 5.0752	1231	3Q-12 4Q-12	260 270	5.5607 5.5984
3840	4Q-12 1Q-13	230	5.4361	3840	1Q-13	160	5.0752	3840	4Q-12 1Q-13	140	4.9416	1330	4Q-12 1Q-13	270	5.5984
	2Q-13		5.2983		2Q-13	140	4.9416		2Q-13	120	4.7875	1394			
3904		200	5.4806	3904				3904					2Q-13	250	5.5215
4013	3Q-13	240		4013	3Q-13	160	5.0752	4013	3Q-13	120	4.7875	1507	3Q-13	270	5.5984
4088	4Q-13	210	5.3471	4088	4Q-13	150	5.0106	4088	4Q-13	120 170	4.7875	1583 1697	4Q-13	260	5.5607
4202	1Q-14	250	5.5215	4202	1Q-14	180	5.1930	4202	1Q-14	170	5.1358		1Q-14	300	5.7038
4316	2Q-14	240	5.4806	4316	2Q-14	180	5.1930	4316	2Q-14	140	4.9416	1811	2Q-14	300	5.7038
4395	3Q-14	240	5.4806	4395	3Q-14	160	5.0752	4395	3Q-14	130	4.8675	1890	3Q-14	290	5.6699
4472	4Q-14	240	5.4806	4472	4Q-14	150	5.0106	4472	4Q-14	110	4.7005	1967	4Q-14	270	5.5984
4579	1Q-15	210	5.3471	4579 4705	1Q-15	140	4.9416	4579	1Q-15	110	4.7005	2074	1Q-15	260	5.5607
4765	2Q-15	210	5.3471	4765	2Q-15	140	4.9416	4765	2Q-15	110	4.7005	2260	2Q-15	260	5.5607
4848	3Q-15	220	5.3936	4848	3Q-15	150	5.0106	4848	3Q-15	110	4.7005	2343	3Q-15	280	5.6348
4938	4Q-15	220	5.3936	4938	4Q-15	150	5.0106	4938	4Q-15	120	4.7875	2433	4Q-15	270	5.5984
5055	1Q-16	230	5.4381	5055	1Q-16	140	4.9416	5055	1Q-16	120	4.7875	2550	1Q-16	270	5.5984
5122	2Q-16	230	5.4381	5122	2Q-16	150	5.0106	5122	2Q-16	120	4.7875	2617	2Q-16	280	5.6348
5213	3Q-16	210	5.3471	5213	3Q-16	150	5.0106	5213	3Q-16	110	4.7005	2708	3Q-16	260	5.5607
5305	4Q-16	250	5.5215	5305	4Q-16	160	5.0752	5305	4Q-16	120	4.7875	2800	4Q-16	290	5.6699
5397	1Q-17	200	5.2983	5397	1Q-17	140	4.9416	5397	1Q-17	110	4.7005	2892	1Q-17	270	5.5984
5487	2Q-17 3Q-17	210	5.3471	5487	2Q-17 3Q-17	140	4.9416	5487 5563	2Q-17 3Q-17	110	4.7005	2982	2Q-17	270	5.5984
5563 5672	3Q-17 4Q-17	190	5.2470	5563		140	4.9416	5672	4Q-17	100	4.6052	3058 3167	3Q-17	260	5.5607
		190	5.2470	5672	4Q-17	140 140	4.9416	5672 5782		120 140	4.7875	3277	4Q-17	270	5.5984
5782	1Q-18	220	5.3936	5782	1Q-18		4.9416		1Q-18		4.9416		1Q-18	270	5.5984
5850	2Q-18	220	5.3936	5850	2Q-18	140	4.9416	5850	2Q-18	140	4.9416	3345	2Q-18	270	5.5984
5960	3Q-18	220	5.3936	5960	3Q-18	150	5.0106	5960	3Q-18	150	5.0106	3455	3Q-18	280	5.6348
6007	10/30/2018	200	5.2983	00.44	40.40	450	5.0400	0044	10.10	4.40	4.0440	0500	10.10	000	5 5007
6041	4Q-18	230	5.4381	6041	4Q-18	150	5.0106	6041	4Q-18	140	4.9416	3536	4Q-18	260	5.5607
6136	1Q-19	230	5.4381	6135	1Q-19	140	4.9416	6135	1Q-19	140	4.9416	3631	1Q-19	270	5.5984
6233	2Q-19	200	5.2983	6233	2Q-19	150	5.0106	6233	2Q-19	150	5.0106	3728	2Q-19	290	5.6699
6330	3Q-19	220	5.3936	6330	3Q-19	160	5.0752	6330	3Q-19	160	5.0752	3825	3Q-19	290	5.6699
6311	4Q-19	220	5.3936	6311	4Q-19	140	4.9416	6311	4Q-19	140	4.9416	3806	4Q-19	260	5.5607
6417	1Q-20	150	5.0106	6417	1Q-20	130	4.8675	6417	1Q-20	170	5.1358	3912	1Q-20	250	5.5215
6494	2Q-20	180	5.1930	6494	2Q-20	130	4.8675	6494	2Q-20	150	5.0106	3989	2Q-20	260	5.5607
6606	3Q-20	90	4.4998	6606	3Q-20	130	4.8675	6606	3Q-20	170	5.1358	4101	3Q-20	270	5.5984
6678	4Q-20	220	5.3936	6678	4Q-20	150	5.0106	6678	4Q-20	180	5.1930	4173	4Q-20	280	5.6348
6769	1Q-21	200	5.2983	6769	1Q-21	140	4.9416	6769	1Q-21	160	5.0752	4264	1Q-21	280	5.6348
6851	2Q-21	200	5.2983	6851	2Q-21	150	5.0106	6851	2Q-21	150	5.0106	4346	2Q-21	190	5.2470
7033	3Q-21	200	5.2983	7033	3Q-21	140	4.9416	7033	3Q-21	130	4.8675	4528	3Q-21	280	5.6348
7131	4Q-21	130	4.8675	7131	4Q-21	130	4.8675	7131	4Q-21	170	5.1358	4626	4Q-21	270	5.5984
7223	1Q-22	180	5.1930	7223	1Q-22	140	4.9416	7223	1Q-22	140	4.9416	4718	1Q-22	290	5.6699
7298	2Q-22	170	5.1358	7298	2Q-22	130	4.8675	7298	2Q-22	130	4.8675	4793	2Q-22	270	5.5984
7388	3Q-22	170	5.1358	7388	3Q-22	130	4.8675	7388	3Q-22	130	4.8675	4883	3Q-22	270	5.5984
7480	4Q-22	180	5.1930	7480	4Q-22	130	4.8675	7480	4Q-22	150	5.0106	4975	4Q-22	330	5.7991



Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Chloride)

	<u>MW1</u>				MW2				<u>MW3</u>				MW4		
Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	Date	CI	In(CI)
7582	1Q-23	170	5.1358	7582	1Q-23	130	4.8675	7582	1Q-23	150	5.0106	5077	1Q-23	320	5.7683
7670	2Q-23	200	5.2983	7670	2Q-23	130		7670	2Q-23	150		5165	2Q-23	330	
7785	3Q-23	180	5.1930	7785	3Q-23	130	4.8675	7785	3Q-23	160	5.0752	5280	3Q-23	330	5.7991
7877	4Q-23	200	5.2983	7877	4Q-23	130 4.86	4.8675	7877	4Q-23	150 160	5.0106	5372	4Q-23	290 320 ^{5.799}	5.6699
7989	1Q-24	190	5.2470	7989	1Q-24	130	4.8675	7989	1Q-24	160	5.0752	5484	1Q-24	320 5.799	5.7683
8038	2Q-24	180	5.1930	8038	2Q-24	130	4.8675	8038	2Q-24	150	5.0106	5533	2Q-24	310	5.7366
Standard Deviation	=	30.1198	0.1592	Standard Deviation	ı =	25.4475	0.1530	Standard Deviation	ı =	112.7276	0.4297	Standard Deviation	=	22.6822	0.0840
Mean =		215.5402		Mean =		162.7558		Mean =		196.6235		Mean =		272.9508	
n =		87	0.4.0	n =		86 _		n =		89		n =		61	
(t{n-1, 0.95}) =		1.663 ^{5.3}	618	(t{n-1, 0.95}) =		1.663 ^{5.}	0805	(t{n-1, 0.95}) =		1.662 ^{5.1}	683	$(t{n-1, 0.95}) =$		1.670 ^{5.6}	6059
$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.008
$k = t(1 + 1/n)^{1/2} =$		871.663	3 1.673	$k = t(1 + 1/n)^{\frac{1}{2}} =$		80.66	1.673	$k = t(1 + 1/n)^{1/2} =$		89.662	1.671	$k = t(1 + 1/n)^{1/2} =$		61.67	n 1.684
UTL = Mean + St.De	ev.*k =	011.000	5.6281	UTL = Mean + St.[Dev.*k =	04.00	5.3364	UTL = Mean + St.[)ev.*k =	04.002	5.8865	UTL = Mean + St.D	ev.*k =	0 4.07	5.7473
Concentration Signi	icant?		No	Concentration Sigr	nificant?		No	Concentration Sigr	nificant?		No	Concentration Sign	ificant?		Yes
Standard Deviation	=	30.1849	0.1593	Standard Deviation	า =	25.5417	0.1538	Standard Deviation	ı =	112.1917	0.4276	Standard Deviation	=	22.9823	0.0850
Mean =		215.1364	5.3599	Mean =		162.3793	5.0781	Mean =		194.2556	5.1610	Mean =		273.5484	5.6080
n =		88	88	n =		87	87	n =		90	90	n =		62	62
(t{n-1, 0.95}) =		1.662		(t{n-1, 0.95}) =		1.663		(t{n-1, 0.95}) =		1.662		(t{n-1, 0.95}) =		1.670	
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.008
$k = t(1 + 1/n)^{1/2} =$		1.662	1.671	$k = t(1 + 1/n)^{1/2} =$		1.66	1.673	$k = t(1 + 1/n)^{\frac{1}{2}} =$		1.662	1.671	$k = t(1 + 1/n)^{1/2} =$		1.67	n 1.683
UTL = Mean + St.De	ev.*k =	1.002	5.6262	UTL = Mean + St.[Dev.*k =	1.00	5.3353	UTL = Mean + St.)ev.*k =	1.002	5.8756	UTL = Mean + St.D	ev.*k =	1.07	5.7510
Concentration Signif	icant?		No	Concentration Sign	nificant?		No	Concentration Sign	nificant?		No	Concentration Sign	ificant?		No



				Q1 2024				Q2 2024	
WELL	PARAMETER	RESULT	In(RESULT)	UPPER TOLERANCE LIMIT	UTL EXCEEDED (YES/NO)	RESULT	In(RESULT)	UPPER TOLERANCE LIMIT	UTL EXCEEDED (YES/NO)
	TDS	1200	7.0901	7.1757	No	1300	7.1701	7.1775	No
MW-1	SO ₄	440	6.0868	6.1609	No	450	6.1092	6.1625	No
	Cl ₂	190	5.2470	5.6281	No	180	5.1930	5.6262	No
	TDS	1100	7.0031	7.0606	No	1200	7.0901	7.0635	Yes
MW-2	SO ₄	410	6.0162	6.0741	No	390	5.9661	6.0735	No
	Cl ₂	130	4.8675	5.3364	No	130	4.8675	5.3353	No
	TDS	1200	7.0901	7.4602	No	1200	7.0901	7.4580	No
MW-3	SO ₄	420	6.0403	6.3422	No	410	6.0162	6.3405	No
	Cl ₂	160	5.0752	5.8865	No	150	5.0106	5.8756	No
	TDS	1200	7.0901	7.1361	No	1200	7.0901	7.1370	No
MW-4	SO ₄	360	5.8861	5.9572	No	340	5.8289	5.9570	No
	Cl ₂	320	5.7683	5.7473	Yes	310	5.7366	5.7510	No

 $^{^{1}\}text{Upper tolerance limit (UTL)}$ calculated using 95% distribution and 95% probability



FIRST SEMI-ANNUAL 2024 MONITORING REPORT

SECTION 7 LYSIMETER TEST RECORDS



LYSIMETER TEST RECORD

Project Name/Client: Blythe Energy Inc.	Site Name: Blythe Energy Project
Project No. NB11160982	Date: March 27, 2024
Weather Conditions: Sunny 75° F	Sampler: Ralph De La Parra

EACT DOND	
EAST POND	Notes: *
Lysimeter No.: 1	
TEST RESULTS: Dry	
Lysimeter No.: 2	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 3	Notes: *
TEST RESULTS: Dry	
WEST POND	Notes: *
Lysimeter No.: 4	
TEST RESULTS: Dry	
Lysimeter No.: 5	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 6	Notes: *
TEST RESULTS: Dry	



LYSIMETER TEST RECORD

Project Name/Client: Blythe Energy Inc.	Site Name: Blythe Energy Project
Project No. NB11160982	Date: May 15, 2024
Weather Conditions: Sunny	Sampler: Ralph De La Parra

EAST POND	
	Notes: *
Lysimeter No.: 1	
TEST RESULTS: Dry	
Lysimeter No.: 2	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 3	Notes: *
TEST RESULTS: Dry	
WEST POND	Notes: *
Lysimeter No.: 4	
TEST RESULTS: Dry	
Lysimeter No.: 5	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 6	Notes: *
TEST RESULTS: Dry	



FIRST SEMI-ANNUAL 2024 MONITORING REPORT

SECTION 8
EVAPORATION POND SAMPLING RECORDS



EVAPORATION POND SAMPLING RECORD

Project Name/Client: Blythe Energy Inc.

Site Name: Blythe Energy Project

Project No.: NB11160982 Date: March 27, 2024

Weather Conditions: Warm, Sunny Sampler: Ralph De La Parra

Pond No./Designation: #1 East Comments: Dry.

Time: N/A

Color/Clarity: N/A

Temp.: N/A

pH: N/A Ec: N/A

Pond No./Designation: #2 West Comments: Contains Brine Shrimp

Time: 11:20

Color/Clarity: slightly green

Temp.: $26.3^{\circ}C$

pH: 8.49

Ec: >20.00 ms/cm

Notes:

- Temperature reported in degrees Celsius
- pH reported in pH units
- Ec reported in millisiemens per centimeter (ms/cm)



EVAPORATION POND SAMPLING RECORD

Project Name/Client: Blythe Energy Inc.

Site Name: Blythe Energy Project

Project No.: NB11160982 Date: May 15, 2024

Weather Conditions: Warm, Sunny Sampler: Ralph De La Parra

Pond No./Designation: #1 East Comments: Dry

Time: N/A

Color/Clarity: N/A

Temp.: N/A

pH: N/A Ec: N/A

Pond No./Designation: #2 West Comments:

Time: 13:05

Color/Clarity: slightly green

Temp.: 35.1°C

pH: 8.01

Ec: >20.00 ms/cm

Notes:

- Temperature reported in degrees Celsius
- pH reported in pH units
- Ec reported in millisiemens per centimeter (ms/cm)



FIRST SEMI-ANNUAL 2024 MONITORING REPORT

SECTION 9
WELL SAMPLING RECORDS



WELL SAMPLING/DEVELOPMENT RECORD

Project:		Blythe E	nergy Inc.	Project No:	NB11160982	2
Location:		Blythe,	California	Logged by:	Ralph De La Pa	arra
Well No.:	MW-1	Date:	March 27, 2024	Sampler:	Ralph De La Pa	arra
Elevation of Meas	suring Poi	int (MP)			337.27	ft. (a)
Elevation of Grou	nd Surfac	ce			337.76	ft. (b)
Well Depth (below	v MP)				120.00	ft. (c)
Casing Inside Dia	meter				4.0	in. (d)
		C	ALCULATION OF CASIN	NG VOLUME		
Depth of Water B	elow MP				88.18	ft. (e)
Water Level Eleva	ation (a-e)			249.09	ft. (f)
Height of Water ir	n Well				31.82	ft.
Volume of Water	in Casing	l			31.82x 0.66 = 21.00	gal.
Sampling/Develop	_	stem (High-ligh	nt) _ Whale pump electric	Dedicated submersible	Non-dedicated √	
Sampling Appara	tus: Type	e	Sampled through pur	mp		•
Cleaning Methods	8		Alconox and potable	water wash, dou	ble distilled water	•
rinse						
			FIELD OBSERVAT	IONS		
Weather Conditio	ns	Clear, warm				
Well Head Condit	ions	Dry, good				
Comments						
						•



Project Name/C		lient Blyth	e Energy In	ic.	Well Number	MW-1	Date	March 27, 2024
			FIE	ELD MEA	SUREMENTS			
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C) pH		Spec. Cond. (ms/cm at 25 °C)	(ms/cm Partic		Odor/Clarity/Color
12:10	2	10	30.1	7.08	1.92		Clear,	odorless
12:20	2	20	30.2	7.10	1.93		Clear,	odorless
12:30	2	30	30.2	7.11	1.93		Clear,	odorless
12:40	2	40	30.3	7.11	1.94		Clear,	odorless
12:50	2	50	30.3	30.3 7.11 1.94 Clea				odorless
13:05	2	65	30.4	7.11	1.94		Clear,	odorless
Total V	ol. Purged		65	_ (gal)	Casing Vol.	Purged		3.09
Final W	ater Level	After Purging			ft. B	elow MP; T	ime	
Fate of Water	Purged	Discharged to	ground					
			S	SAMPLE I	NVENTORY			

Analysis

Quarterly

F

Ρ

NA

Remarks

1L poly

13:05 F = Filtered (Y,N), P = Preservative (Type)

Time

Label

MW-1

Number

of Bottles

2



WELL SAMPLING/DEVELOPMENT RECORD

Project:		Blythe E	nergy Inc.	Project No:	NB11160982	2
Location:		Blythe,	California	Logged by:	Ralph De La Pa	arra
Well No.:	MW-2	Date:	March 27, 2024	Sampler:	Ralph De La Pa	arra
Elevation of Meas	suring Po	int (MP)			337.77	ft. (a)
Elevation of Grou	nd Surfac	ce			337.17	ft. (b)
Well Depth (below	v MP)				120.00	ft. (c)
Casing Inside Dia	meter				4.0	in. (d)
		C	ALCULATION OF CASIN	NG VOLUME		
Depth of Water B	elow MP				89.05	ft. (e)
Water Level Eleva	ation (a-e)			248.72	ft. (f)
Height of Water ir	n Well				30.95	ft.
Volume of Water	in Casing	l			30.95 x 0.66 = 20.42	gal.
Sampling/Develop	·	stem (High-ligh	nt) _ Whale pump electric	Dedicated submersible	Non-dedicated $\sqrt{}$	
Sampling Appara	tus: Type	•	Sampled through pur	mp		•
Cleaning Methods	3		Alconox and potable	water wash, dou	ble distilled water	•
rinse						
			FIELD OBSERVAT	IONS		
Weather Conditio	ns	Clear, warm				
Well Head Condit	ions	Dry, good				
Comments						



Projec	t Name/Cl	lient Blyt	the Energy In	ic.	Well Number	M\	W-2	Date	March 27, 2024
			FIE	ELD MEAS	SUREMENTS				
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)		Part	iculates/C	Odor/Clarity/Color
10:50	1	10	29.7	7.02	1.70			Clear,	odorless
11:00	1	20	29.8	7.03	1.70			Clear,	odorless
11:10	1	30	29.8	7.03	1.70			Clear,	odorless
11:20	1	40	29.8	7.03	1.70			Clear,	odorless
11:30	1	50	29.8	7.03	1.70			Clear,	odorless
11:45	1	65	29.8	7.03	1.70			Clear,	odorless
	ol. Purged	After Purging	65	_ (gal)	Casing Vo	ol. Purg Below		īme.	3.18
Fate of Water		Discharged to	o ground			D0.01.	1411 , 1		
			S	SAMPLE II	NVENTORY				
1 -1		Time -	Number	A I	-:- -				D

Analysis

Quarterly

Ρ

Remarks

1L poly

11:45 F = Filtered (Y,N), P = Preservative (Type)

Time

of Bottles

2

Label

MW-2



WELL SAMPLING/DEVELOPMENT RECORD

Project:		Blythe E	nergy Inc.	Project No:	NB11160982	2		
Location:	Blythe, Ca		California	Logged by:	Ralph De La Pa	arra		
Well No.:	MW-3	Date:	March 27, 2024	Sampler:	Ralph De La Pa	arra		
Elevation of Measu	uring Po	int (MP)			338.22	ft. (a)		
Elevation of Groun	nd Surfa	ce			336.28	ft. (b)		
Well Depth (below	MP)				115.00	ft. (c)		
Casing Inside Diar	meter				4.0	in. (d)		
		С	ALCULATION OF CASIN	NG VOLUME				
Depth of Water Be	low MP				89.68	ft. (e)		
Water Level Eleva	tion (a-e	;)			248.54	ft. (f)		
Height of Water in	Well				25.32	ft.		
Volume of Water in	n Casing	9			25.32 x 0.66 = 16.21	gal.		
Sampling/Develop Purging Apparatus		/stem (High-ligl	nt) _ Whale pump electric	Dedicated submersible	Non-dedicated $\sqrt{}$			
Sampling Apparato	us: Typ	е	Sampled through pump					
Cleaning Methods			Alconox and potable	water wash, dou	ble distilled water			
Rinse								
			FIELD OBSERVAT	IONS				
Weather Condition	ıs _	Clear, warm						
Well Head Condition	ons	Dry, good						
Comments								



Remarks

Duplicate Collected (DUP)

Project Name/Client Blythe		Energy In	rgy Inc. Well Number		MV	N-3	Date	March 27, 2024			
				E10	ELD MEA	SUREMENTS					
Time	Pump Rate (GPM)	Cumula Vol. Rem (gal)	oved	Temp (°C)	pH	Spec. Cond. (ms/cm at 25 °C)	-	Parti	culates/C	Odor/Clarity/Color	
9:40	1	10		24.6	6.54	1.81			Clear,	odorless	
9:50	1	20		24.7	6.67	1.75		Clear, odorless			
10:00	1	30		24.7	6.68	1.74		Clear, odorless			
10:10	1	40		24.7	6.68	1.74		Clear, odorless			
10:20	1	50		24.7	6.68	1.74		Clear, odorless			
10:30	1	60		24.7	6.68	1.74		Clear, odorless			
Total Vol. Purged			_	60	_ (gal)	Casing V	ol. Purg	jed		3.59	
Final W	ater Level	After Purgin	g			ft.	. Below	MP; T	ime		
Fate of Purged Discharged to Water			ed to g	round							
				c	SAMPLE II	NVENTORY					
			NI		VAIVII LE II	NV LINI OILI	1				
			inui	mber							

Analysis

Quarterly

NA

F = Filtered (Y,N), P = Preservative (Type)

Time

10:30

Label

MW-3

of Bottles



WELL SAMPLING/DEVELOPMENT RECORD

Project:		Blythe E	nergy Inc.	Project No:	NB11160982			
Location:	Blythe, Ca		California	Logged by:	Ralph De La Pa	arra		
Well No.:	MW-4	Date:	March 27, 2024	Sampler:	Ralph De La Pa	arra		
Elevation of Measu	uring Poi	int (MP)			342.50	ft. (a)		
Elevation of Groun	d Surfac	ce			339.95	ft. (b)		
Well Depth (below	MP)				118.95	ft. (c)		
Casing Inside Dian	neter				4.0	in. (d)		
		C	ALCULATION OF CASIN	NG VOLUME				
Depth of Water Be	low MP				92.85	ft. (e)		
Water Level Eleva	tion (a-e)			249.65	ft. (f)		
Height of Water in	Well				26.1	ft.		
Volume of Water in	n Casing				26.1 x 0.66 = 17.22	gal.		
Sampling/Develop		stem (High-ligh	nt) _ Whale pump electric	Dedicated submersible	Non-dedicated $\sqrt{}$	-		
Sampling Apparatu	ıs: Type)	Sampled through pump					
Cleaning Methods			Alconox and potable	water wash, doul	ole distilled water	-		
Rinse						-		
						-		
			FIELD OBSERVAT	IONS				
Weather Condition	s	Clear, warm				_		
Well Head Condition	ons _	Dry, good				_		
Comments						_		
						_		
						-		

Blythe Energy Inc.

32.0

Project Name/Client

2

55

14:15



March 27, 2024

	FIELD MEASUREMENTS									
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Particulates/Odor/Clarity/Color				
13:30	2	10	30.9	718	1.97	Clear, odorless				
13:40	2	20	31.8	7.19	1.97	Clear, odorless				
13:50	2	30	31.9	7.20	1.97	Clear, odorless				
14:00	2	40	31.9	7.20	1.97	Clear, odorless				
14:10	2	50	31.9	7.20	1.97	Clear, odorless				

7.20

Well Number

1.97

MW-4

Date

Clear, odorless

Total Vol. Purged	55	_ (gal)	Casing Vol. Purged	3.19	
Final Water Level	After Purging			ft. Below MP; Time	
Fate of Purged Water	Discharged to	ground			

SAMPLE INVENTORY

Label	Time	Number of Bottles	Analvsis	F	Р	Remarks
MW-4	14:15	2	Quarterly	N	NA	T COMMENT

F = Filtered (Y,N), P = Preservative (Type)

Depth to Water Readings: OW-1 = 91.08 feet

OW-2 = 87.90 feet



WELL SAMPLING/DEVELOPMENT RECORD

Project:		Blythe E	nergy Inc.	Project No:	NB11160982			
Location:		Blythe,	California	Logged by:	Ralph De La Pa	arra		
Well No.:	MW-1	Date:	May 15, 2024	Sampler:	Ralph De La Pa	arra		
Elevation of Meas	uring Po	int (MP)			337.27	ft. (a)		
Elevation of Grour	nd Surfac	æ			337.76	ft. (b)		
Well Depth (below	MP)				120.0	ft. (c)		
Casing Inside Diar	meter				4.0	in. (d)		
		C	ALCULATION OF CASI	NG VOLUME				
Depth of Water Be	low MP				88.65	ft. (e)		
Water Level Eleva	tion (a-e)			248.62	ft. (f)		
Height of Water in	Well				31.35	ft.		
Volume of Water in	n Casing	I			31.35 x 0.66 = 20.69	gal.		
Sampling/Develop Purging Apparatus	_	stem (High-ligh	nt) _ Whale pump electric	Dedicated submersible	Non-dedicated $\sqrt{}$			
Sampling Apparate	us: Type	•	Sampled through pump					
Cleaning Methods			Alconox and potable	water wash, dou	ble distilled water			
rinse								
			FIELD OBSERVA	TIONS				
Weather Condition	ıs <u> </u>	Clear, warm				•		
Well Head Condition	ons _	Dry, good						
Comments						•		
						•		



Remarks DUP-5-15-24

Project Name/Client		Blythe Er	Blythe Energy Inc.		Well Number _	MW-1	_ Date _	May 15, 2024
			FIELI	D MEASU	JREMENTS			
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Pari	ticulates/0	Odor/Clarity/Color
10:40	2	10	29.9	7.21	1.95		Clear	, odorless
10:50	2	20	30.0	7.17	1.93		Clear	, odorless
11:00	2	30	30.1	7.16	1.93	Clear, odorless		, odorless
11:10	2	40	30.2	7.16	1.93	Clear, odorless		
11:35	2	65	30.3	7.16	1.93		Clear	, odorless
Total Vol. P Final Water		r Purging	65	(gal)	Casing Vol.	Purged elow MP; 1	ime	3.14
Fate of Purged			ınd					
			SAM	MPLE IN\	/ENTORY			

Analysis

Quarterly

F

Ν

NA

11:35 F = Filtered (Y,N), P = Preservative (Type)

Time

Label

MW-1-5-15-24

Number

of Bottles



WELL SAMPLING/DEVELOPMENT RECORD

Project:	Blyth	e Energy Inc.	Project No:	NB11160982				
Location:	Blyth	e, California	Logged by:	Ralph De La Pa	arra			
Well No.: MV	N-2 Date:	May 15, 2024	Sampler:	Ralph De La Pa	arra			
Elevation of Measurir	ng Point (MP)			337.77	ft. (a)			
Elevation of Ground	Surface			337.17	ft. (b)			
Well Depth (below M	P)			120.00	ft. (c)			
Casing Inside Diamet	ter			4.0	in. (d)			
		CALCULATION OF CASI	NG VOLUME					
Depth of Water Below	w MP			89.25	ft. (e)			
Water Level Elevation	n (a-e)			248.52	ft. (f)			
Height of Water in W	ell			30.25	ft.			
Volume of Water in C	Casing			30.25 x 0.66 = 20.29	gal.			
Sampling/Developme	, ,	light) Whale pump electric	Dedicated submersible	Non-dedicated $\sqrt{}$				
Sampling Apparatus:	Туре	Sampled through pu	Sampled through pump					
Cleaning Methods		Alconox and potable	e water wash, doub	ole distilled water	•			
rinse								
		FIELD OBSERVA	TIONS					
Weather Conditions	Clear, warı	n						
Well Head Conditions	Dry, good				•			
Comments					.			



Remarks

Project Name/Client		Blythe Er	ergy Inc.		Well Number _	MW-2	_ Date _	May 15, 2024	
			FIELI	D MEASU	JREMENTS				
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Part	iculates/C	Odor/Clarity/Color	
9:15	1	10	29.8	7.01	1.71		Clear,	odorless	
9:25	1	20	30.2	7.02	1.71	<u> </u>	Clear, odorless		
9:35	1	30	30.2	7.02	1.71	Clear, odorless			
9:45	1	40	30.2	7.02	1.71	Clear, odorless			
10:10	1	65	30.2	7.02	1.71		Clear,	odorless	
Total Vol. P		Purging	65	(gal)	Casing Vol.	Purged elow MP; T	ime	3.20	
Fate of Purg Water	ged Di	scharged to grou	ınd		_				
			SAI	MPLE IN\	/ENTORY				
		Numb	er						

Analysis

Quarterly

F

NA

10:10 F = Filtered (Y,N), P = Preservative (Type)

Time

of Bottles

Label

MW-2-5-15-24



WELL SAMPLING/DEVELOPMENT RECORD

Project:	Blythe	Energy Inc.	Project No:	NB11160982	2	
Location:	Blythe	, California	Logged by:	Ralph De La Pa	Parra	
Well No.: MW	/-3 Date:	May 15, 2024	Sampler:	Ralph De La Pa	arra	
Elevation of Measurin	g Point (MP)			338.22	ft. (a)	
Elevation of Ground S	Surface			336.28	ft. (b)	
Well Depth (below MF	P)			115.00	ft. (c)	
Casing Inside Diamet	er			4.0	in. (d)	
		CALCULATION OF CASI	NG VOLUME			
Depth of Water Below	MP			89.85	ft. (e)	
Water Level Elevation	ı (a-e)			248.37	ft. (f)	
Height of Water in We	ell .			25.15	ft.	
Volume of Water in C	asing			25.15 x 0.66 = 16.59	gal.	
Sampling/Developme Purging Apparatus: T	, ,	ght) <u>Whale pump electric</u>	Dedicated submersible	Non-dedicated √		
Sampling Apparatus:	Туре	Sampled through pu	mp			
Cleaning Methods		Alconox and potable	water wash, dou	ble distilled water		
rinse						
		FIELD OBSERVAT	ΓIONS			
Weather Conditions						
	Clear, warm					
Well Head Conditions						
Well Head Conditions						



Project Name/Client Blythe		Energy	Inc.	Well Numbe	r <u>N</u>	/IW-3	Date	May 15, 2024		
				F	TIELD MEAS	SUREMENTS				
Time	Pump Cumulative ne Rate Vol. Removed (GPM) (gal)			Temp (°C)	' I DH I (me/cm I			Particulates/Odor/Clarity/Color		
8:10	1	10		24.9	6.63	1.80			Clear,	odorless
8:20	1	20		24.7	6.62	1.75			Clear,	odorless
8:30	1	30		24.7	6.68	1.72		Clear, odorless		odorless
8:40	1	40		24.7	6.68	1.72			Clear,	odorless
8:55	1	55	i	24.7	6.68	1.72			Clear,	odorless
	Total Vol. Purged 55 (gal) Casing Vol. Purged 3.31 Final Water Level After Purging ft. Below MP; Time							3.31		
Fate of Water	Purged	Dischar	ged to g	round						
					SAMPLE II	NVENTORY				
Number Label Time of Bottles Analysis F P Remarks						lemarks				

Quarterly

NA

Ν

F = Filtered (Y,N), P = Preservative (Type)

8:55

2

MW-3-5-15-24



WELL SAMPLING/DEVELOPMENT RECORD

Project:	Project: Blythe End		nergy Inc.	Project No:	NB11160982	NB11160982		
Location:		Blythe,	California	Logged by:	Ralph De La Pa	arra		
Well No.:	MW-4	Date:	May 15, 2024	Sampler:	Ralph De La Pa	arra		
Elevation of Measu	ring Po	int (MP)			342.50	ft. (a)		
Elevation of Ground	d Surfac	ce			337.76	ft. (b)		
Well Depth (below	MP)				118.95	ft. (c)		
Casing Inside Diam	neter				4.0	in. (d)		
		C	ALCULATION OF CASI	NG VOLUME				
Depth of Water Bel	ow MP				93.45	ft. (e)		
Water Level Elevat	ion (a-e)			249.05	ft. (f)		
Height of Water in	Well				25.5	ft.		
Volume of Water in	Casing	I			25.5 x 0.66 = 16.83	gal.		
Sampling/Developr	-	stem (High-ligh	nt) _ Whale pump electric	Dedicated submersible	Non-dedicated $\sqrt{}$			
Sampling Apparatu	ıs: Type	e	Sampled through pu	mp				
Cleaning Methods			Alconox and potable	water wash, doul	ble distilled water			
Rinse								
			FIELD OBSERVA	TIONS				
Weather Conditions	s	Clear, warm						
Well Head Condition	ns _	Dry, good						
Comments	_					•		



Project Name/Client	Blythe Energy Inc.	Well Number	MW-4	Date	May 15, 2024
	·				

	FIELD MEASUREMENTS					
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Particulates/Odor/Clarity/Color
11:55	2	10	32.7	7.24	1.87	Clear, odorless
12:05	2	20	33.1	7.22	1.88	Clear, odorless
12:15	2	30	33.3	7.22	1.88	Clear, odorless
12:25	2	40	33.6	7.22	1.88	Clear, odorless
12:40	2	55	33.8	7.22	1.88	Clear, odorless

Total Vol. Purged	5	(gal)	Casing Vol. Purged	3.26
Final Water Level	After Purging		ft. Below MP; Time	
Fate of Purged Water	Discharged to groun	d		

SAMPLE INVENTORY

		Number				
Label	Time	of Bottles	Analysis	F	Р	Remarks
MW-4-5-15-24	12:40	2	Quarterly	N	NA	

F = Filtered (Y,N), P = Preservative (Type)

Depth to Water Readings: OW-1 = 91.20 feet OW-2 = 88.50 feet



FIRST SEMI-ANNUAL 2024 MONITORING REPORT

SECTION 10
LEACHATE COLLECTION AND RECOVERY SYSTEM (LCRS) & WEEKLY LYSIMETER RECORDS



LEACHATE COLLECTION AND RECOVERY SYSTEM (LCRS) & WEEKLY LYSIMETER RECORDS

Table 10-1 shows records of weekly inspections performed on the Leachate Collection and Recovery System (LCR) and Lysimeter Records



Table 10-1 Leachate Collection and Recovery System (LCRS) & Weekly Lysimeter Results

Date	East LRS Measurement in inches	East LRS pump Out Yes / No	Lysimeters checked	Water Present	East Pond Level Inches of Free Board
1/7/2024	59	N	Υ	N	363
1/12/2024	64	N	Y	N	363
1/21/2024	55	N	Y	N	360
1/28/2024	60	N	Υ	N	140
2/3/2024	90	N	Υ	Υ	144
2/10/2024	72	N	Υ	Υ	143
2/17/2024	84	N	Υ	N	184
2/24/2024	76	Υ	Υ	N	147
3/3/2024	72	Y	Υ	N	145
3/10/2024	60	N	Υ	N	144
3/17/2024	60	N	Υ	N	134
3/24/2024	79	N	Υ	N	145
3/31/2024	60	N	Υ	N	144
4/7/2024	59	N	Υ	N	136
4/14/2024	54	N	Υ	N	141
4/21/2024	55	N	Υ	N	141
4/28/2024	66	N	Υ	N	139
5/4/2024	60	N	Υ	N	150
5/12/2024	60	N	Υ	N	147
5/19/2024	98	N	Υ	N	155
5/26/2024	58	N	Υ	N	160
6/2/2024	58	N	Υ	N	157
6/9/2024	58	N	Υ	N	158
6/16/2024	68	N	Υ	N	147
6/23/2024	60	N	Υ	N	145
6/30/2024	60	N	Υ	N	151

West LRS Measurement in inches	West LRS pump Out Yes / No	Lysimeters checked	Water Present	West Pond Level Inches of Free Board	Comments
56	N	Υ	N	66	Weekly Inspection
52	N	Y	N	65	Weekly Inspection
36	N	Y	N	65	Weekly Inspection
60	N	Υ	N	63	Weekly Inspection
87	N	Y	N	68	Weekly Inspection - East LRS Pumped out - Water detected in Lysimeter determined to be rain water
62	Y	Y	N	65	Weekly Inspection - Water detected in Lysimeter determined to be rain water
58	N	Υ	N	68	Weekly Inspection
65	Υ	Υ	N	66	Weekly Inspection - East and West LRS Pumped out
52	N	Υ	N	65	Weekly Inspection - West LRS Pumped out
48	N	Υ	N	75	Weekly Inspection
53	N	Υ	N	67	Weekly Inspection
66	N	Υ	N	72	Weekly Inspection
54	N	Υ	N	72	Weekly Inspection
49	N	Υ	N	69	Weekly Inspection
48	N	Υ	N	71	Weekly Inspection
48	N	Υ	N	71	Weekly Inspection
56	N	Υ	N	75	Weekly Inspection
60	N	Υ	N	72	Weekly Inspection
51	N	Υ	N	68	Weekly Inspection
80	N	Υ	N	76	Weekly Inspection
60	N	Υ	N	81	Weekly Inspection
60	N	Υ	N	75	Weekly Inspection
60	N	Y	N	79	Weekly Inspection
60	N	Υ	N	84	Weekly Inspection
58	N	Υ	N	89	Weekly Inspection
54	N	Y	N	83	Weekly Inspection



FIRST SEMI-ANNUAL 2024 MONITORING REPORT

APPENDIX A

LABORATORY ANALYTICAL DATA SHEETS

ANALYTICAL REPORT

PREPARED FOR

Attn: Arlin Brewster Northstar Environmental Remediation 26225 Enterprise Court Lake Forest, California 92630

Generated 4/5/2024 6:07:44 AM

JOB DESCRIPTION

Blythe Energy

JOB NUMBER

570-178204-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780



Eurofins Calscience

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Definitions/Glossary

Client: Northstar Environmental Remediation Job ID: 570-178204-1

Project/Site: Blythe Energy

Glossary

RL

RPD

TEF

TEQ

TNTC

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

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

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

Eurofins Calscience

Case Narrative

Client: Northstar Environmental Remediation

Project: Blythe Energy

Job ID: 570-178204-1 Eurofins Calscience

Job Narrative 570-178204-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/27/2024 5:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C.

HPLC/IC

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

Metals

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

General Chemistry

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

Eurofins Calscience

Job ID: 570-178204-1

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Sample Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-178204-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-178204-1	MW-1	Water	03/27/24 13:05	03/27/24 17:54
570-178204-2	MW-2	Water	03/27/24 11:45	03/27/24 17:54
570-178204-3	MW-3	Water	03/27/24 10:30	03/27/24 17:54
570-178204-4	MW-4	Water	03/27/24 14:15	03/27/24 17:54
570-178204-5	DUP	Water	03/27/24 00:00	03/27/24 17:54

Δ

5

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12

13

Detection Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: MW-1 Lab Sample ID: 570-178204-1

Analyte	Result Qualifier	RL	Unit	Dil Fac	Method	Prep Type
Chloride	190	10	mg/L	10	300.0	Total/NA
Sulfate	430	10	mg/L	10	300.0	Total/NA
Specific Conductance	1900	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1200	10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-2

_						
Analyte	Result Qualifier	RL	Unit	Dil Fac I) Method	Prep Type
Chloride	130	10	mg/L	10	300.0	Total/NA
Sulfate	410	10	mg/L	10	300.0	Total/NA
Specific Conductance	1700	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1100	10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-3

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Chloride	160	10	mg/L	10	300.0	Total/NA
Sulfate	420	10	mg/L	10	300.0	Total/NA
Specific Conductance	1800	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1200	10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-4

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Chloride	320	10	mg/L	10	300.0	Total/NA
Sulfate	360	10	mg/L	10	300.0	Total/NA
Specific Conductance	2000	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1200	10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: DUP

Analyte		Result	Qualifier	RL	Unit	Dil Fac	D Met	hod	Prep Type
Chloride		160		10		10	- 300		Total/NA
Sulfate		420		10	mg/L	10	300	.0	Total/NA
Specific Condu	uctance	1800		1.0	umhos/cm	1	SM	2510B	Total/NA
Total Dissolve	d Solids	1300		10	mg/L	1	SM	2540C	Total/NA

This Detection Summary does not include radiochemical test results.

.

Job ID: 570-178204-1

Lab Sample ID: 570-178204-2

Lab Sample ID: 570-178204-3

Lab Sample ID: 570-178204-4

Lab Sample ID: 570-178204-5

3

4

6

8

4.0

11

13

Client Sample Results

Client: Northstar Environmental Remediation Job ID: 570-178204-1

Project/Site: Blythe Energy

Client Sample ID: MW-1 Lab Sample ID: 570-178204-1

Date Collected: 03/27/24 13:05 Matrix: Water

Date Received: 03/27/24 17:54

Method: EPA 300.0 - Anions, Ion	Chromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190	10	mg/L			03/30/24 10:38	10
Sulfate	430	10	mg/L			03/30/24 10:38	10
_ _							

				3.				
Method: EPA 200.7 Rev 4.4 - Metals	s (ICP) - Tota	l Recoverable	•					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		03/29/24 09:07	03/29/24 19:52	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	1900		1.0	umhos/cm			04/02/24 18:21	1

Client Sample ID: MW-2 Lab Sample ID: 570-178204-2 Date Collected: 03/27/24 11:45 **Matrix: Water**

1200

10

mg/L

Date Received: 03/27/24 17:54

Total Dissolved Solids (SM 2540C)

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy							
Analyte	Result	Qualifier	RL	Un	nit	D	Prepared	Analyzed	Dil Fac
Chloride	130		10	mg	g/L			03/30/24 10:55	10
Sulfate	410		10	mg	g/L			03/30/24 10:55	10

Welliou. EPA 200.7 Rev 4.4 - Wel	iais (ICP) - Total Recoverable	,					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND —	0.10	mg/L		03/29/24 09:07	03/29/24 19:55	1
General Chemistry							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Specific Conductance (SM 2510B) 1700 1.0 umhos/cm 04/02/24 18:23 Total Dissolved Solids (SM 2540C) 1100 10 mg/L 04/03/24 15:03

Client Sample ID: MW-3 Lab Sample ID: 570-178204-3 Date Collected: 03/27/24 10:30 **Matrix: Water**

Date Received: 03/27/24 17:54

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		10	mg/L			03/30/24 11:45	10
Sulfate	420		10	mg/L			03/30/24 11:45	10
Method: EPA 200.7 Rev 4.4 - Metal	s (ICP) - Tota	l Recoverable	•					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		03/29/24 09:07	03/29/24 20:01	1
_								
General Chemistry								
•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
General Chemistry Analyte Specific Conductance (SM 2510B)	Result 1800	Qualifier	1.0 RL	Unit umhos/cm	_ <u>D</u>	Prepared	Analyzed 04/02/24 18:25	Dil Fac

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04/03/24 15:03

Client Sample Results

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: MW-4 Lab Sample ID: 570-178204-4

Date Collected: 03/27/24 14:15 Date Received: 03/27/24 17:54

Matrix: Water

Job ID: 570-178204-1

Method: EPA 300.0 - Anions, Ion	Chromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320	10	mg/L			03/30/24 12:02	10
Sulfate	360	10	mg/L			03/30/24 12:02	10
_ _							

Method: EPA 200.7 Rev 4.4 - Metals	s (ICP) - Total	Recoverab	ole					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		03/29/24 09:07	03/29/24 20:04	1

Genera	al Chemistry								
Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific	Conductance (SM 2510B)	2000		1.0	umhos/cm			04/02/24 18:27	1
Total Dis	ssolved Solids (SM 2540C)	1200		10	mg/L			04/03/24 15:03	1

Client Sample ID: DUP Lab Sample ID: 570-178204-5 Date Collected: 03/27/24 00:00 Matrix: Water

Date Received: 03/27/24 17:54

Method: EPA 300.0 - Anions, Ion Chromatography												
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
	Chloride	160		10	mg/L			03/30/24 12:19	10			
	Sulfate	420		10	mg/L			03/30/24 12:19	10			

Method: EPA 200.7 Rev 4.4 - Metals	s (ICP) - Total	Recoverab	ole					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		03/29/24 09:07	03/29/24 20:06	1

General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	1800		1.0	umhos	/cm		04/02/24 18:29	1
Total Dissolved Solids (SM 2540C)	1300		10	mg/L			04/03/24 15:03	1

Lab Chronicle

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: MW-1 Lab Sample ID: 570-178204-1

Matrix: Water

Job ID: 570-178204-1

Date Collected: 03/27/24 13:05 Date Received: 03/27/24 17:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	4 mL	4 mL	425775	03/30/24 10:38	UIP1	EET CAL 4
	Instrume	nt ID: IC10								
Total Recoverable	Prep	200.7			50 mL	50 mL	425461	03/29/24 09:07	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			425734	03/29/24 19:52	P1R	EET CAL 4
	Instrume	nt ID: ICP11								
Total/NA	Analysis	SM 2510B		1			426916	04/02/24 18:21	ZL4M	EET CAL 4
	Instrume	nt ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	427021	04/03/24 15:03	PK4M	EET CAL 4
	Instrume	nt ID: BAL100								

Client Sample ID: MW-2 Lab Sample ID: 570-178204-2

Date Collected: 03/27/24 11:45 Matrix: Water

Date Received: 03/27/24 17:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	4 mL	4 mL	425775	03/30/24 10:55	UIP1	EET CAL 4
	Instrume	nt ID: IC10								
Total Recoverable	Prep	200.7			50 mL	50 mL	425461	03/29/24 09:07	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			425734	03/29/24 19:55	P1R	EET CAL 4
	Instrume	nt ID: ICP11								
Total/NA	Analysis	SM 2510B		1			426916	04/02/24 18:23	ZL4M	EET CAL 4
	Instrume	nt ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	427021	04/03/24 15:03	PK4M	EET CAL 4
	Instrume	nt ID: BAL100								

Client Sample ID: MW-3 Lab Sample ID: 570-178204-3

Date Collected: 03/27/24 10:30 **Matrix: Water** Date Received: 03/27/24 17:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	4 mL	4 mL	425775	03/30/24 11:45	UIP1	EET CAL
	Instrume	nt ID: IC10								
Total Recoverable	Prep	200.7			50 mL	50 mL	425461	03/29/24 09:07	JP8N	EET CAL
Total Recoverable	Analysis	200.7 Rev 4.4		1			426170	03/29/24 20:01	Y2WS	EET CAL
	Instrume	nt ID: ICP11								
Total/NA	Analysis	SM 2510B		1			426916	04/02/24 18:25	ZL4M	EET CAL
	Instrume	nt ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	427021	04/03/24 15:03	PK4M	EET CAL
	Instrume	nt ID: BAL100								

Lab Chronicle

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: MW-4

Date Collected: 03/27/24 14:15 Date Received: 03/27/24 17:54 Lab Sample ID: 570-178204-4

Lab Sample ID: 570-178204-5

Matrix: Water

Matrix: Water

Job ID: 570-178204-1

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 300.0 425775 UIP1 Total/NA Analysis 10 4 mL 03/30/24 12:02 EET CAL 4 4 mL Instrument ID: IC10 Total Recoverable Prep 200.7 50 mL 50 mL 425461 03/29/24 09:07 JP8N EET CAL 4 Total Recoverable Analysis 200.7 Rev 4.4 426170 03/29/24 20:04 Y2WS EET CAL 4 Instrument ID: ICP11 Total/NA Analysis SM 2510B 426916 04/02/24 18:27 ZL4M EET CAL 4 Instrument ID: ManSciMantech Total/NA Analysis SM 2540C 100 mL 1000 mL 427021 04/03/24 15:03 PK4M EET CAL 4 Instrument ID: BAL100

Client Sample ID: DUP

Date Collected: 03/27/24 00:00

Date Received: 03/27/24 17:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	4 mL	4 mL	425775	03/30/24 12:19	UIP1	EET CAL 4
	Instrume	nt ID: IC10								
Total Recoverable	Prep	200.7			50 mL	50 mL	425461	03/29/24 09:07	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			426170	03/29/24 20:06	Y2WS	EET CAL 4
	Instrume	nt ID: ICP11								
Total/NA	Analysis	SM 2510B		1			426916	04/02/24 18:29	ZL4M	EET CAL 4
	Instrume	nt ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	427021	04/03/24 15:03	PK4M	EET CAL 4
	Instrume	nt ID: BAL100								

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Eurofins Calscience

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Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-425775/5

Matrix: Water

Analysis Batch: 425775

Client Sample ID: Method Blank Prep Type: Total/NA

мв мв Dil Fac Analyte Result Qualifier RL Unit Prepared Analyzed Chloride ND 1.0 mg/L 03/30/24 06:58 Sulfate ND 1.0 mg/L 03/30/24 06:58

Lab Sample ID: LCS 570-425775/6 **Client Sample ID: Lab Control Sample Matrix: Water**

Prep Type: Total/NA

Analysis Batch: 425775

LCS LCS Spike %Rec Limits Analyte Added Result Qualifier Unit %Rec Chloride 50.0 48.2 96 90 - 110 mg/L Sulfate 50.0 48.4 mg/L 97 90 - 110

Lab Sample ID: LCSD 570-425775/7 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 425775

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	50.0	48.3		mg/L		97	90 - 110	0	15
Sulfate	50.0	48.4		mg/L		97	90 - 110	0	15

Lab Sample ID: 570-178074-G-8 MS Client Sample ID: Matrix Spike Prep Type: Total/NA **Matrix: Water**

Analysis Batch: 425775

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2.8		50.0	52.4		mg/L		99	80 - 120	
Sulfate	12		50.0	63.7		ma/L		103	80 - 120	

Lab Sample ID: 570-178074-G-8 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 425775

Analysis Batom 420776	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	2.8		50.0	52.5		mg/L		99	80 - 120	0	20
Sulfate	12		50.0	63.8		mg/L		104	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-425461/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 425734

-	МВ	MB					-	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	ma/L		03/29/24 09:07	03/29/24 19:34	1

Lab Sample ID: LCS 570-425461/2-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable** Analysis Batch: 425734 **Prep Batch: 425461**

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Selenium 0.500 0.439 88 85 - 115 mg/L

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Prep Batch: 425461

Job ID: 570-178204-1

Project/Site: Blythe Energy

Client: Northstar Environmental Remediation

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-425461/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water**

Analysis Batch: 425734

Prep Type: Total Recoverable

Prep Batch: 425461

Spike LCSD LCSD RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit Selenium 0.500 0.442 mg/L 88 85 - 115 20

Lab Sample ID: 570-178216-B-2-B MS

Matrix: Water

Analysis Batch: 425734

Client Sample ID: Matrix Spike **Prep Type: Total Recoverable**

Prep Batch: 425461

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Selenium ND 0.500 0.434 mg/L 87 80 - 120

Lab Sample ID: 570-178216-B-2-C MSD

Matrix: Water

Analysis Batch: 425734

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Duplicate

Prep Batch: 425461 RPD

Spike MSD MSD %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit ND Selenium 0.500 0.435 mg/L 80 - 120 20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 570-426916/10 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 426916

мв мв

Analyte Qualifier RL Unit Prepared Dil Fac Analyzed Specific Conductance 1.0 04/02/24 16:26 ND umhos/cm

Lab Sample ID: 570-178108-A-11 DU

Matrix: Water

Analysis Batch: 426916

DU DU RPD Sample Sample Qualifier Qualifier Analyte Result Result Unit Limit Specific Conductance 110 105 umhos/cm 25

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

Lab Sample ID: MB 570-427021/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 427021

Prep Type: Total/NA

MR MR

Result Qualifier RL Unit Prepared Analyzed Dil Fac Total Dissolved Solids ND 10 mg/L 04/03/24 15:03

Lab Sample ID: LCS 570-427021/2 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 427021

Spike LCS LCS %Rec Added Result Qualifier Limits Unit %Rec **Total Dissolved Solids** 1000 998 100 ma/L 84 - 108

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QC Sample Results

Client: Northstar Environmental Remediation

Job ID: 570-178204-1 Project/Site: Blythe Energy

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

Lab Sample ID: LCSD 570-427021/3 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 427021

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Total Dissolved Solids	1000	1030		mg/L		103	84 - 108	3	10	

Lab Sample ID: 570-178204-1 DU Client Sample ID: MW-1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 427021

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	1200		1240		mg/L		 0.3	10

Job ID: 570-178204-1

Project/Site: Blythe Energy

Client: Northstar Environmental Remediation

HPLC/IC

Analysis Batch: 425775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178204-1	MW-1	Total/NA	Water	300.0	
570-178204-2	MW-2	Total/NA	Water	300.0	
570-178204-3	MW-3	Total/NA	Water	300.0	
570-178204-4	MW-4	Total/NA	Water	300.0	
570-178204-5	DUP	Total/NA	Water	300.0	
MB 570-425775/5	Method Blank	Total/NA	Water	300.0	
LCS 570-425775/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-425775/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-178074-G-8 MS	Matrix Spike	Total/NA	Water	300.0	
570-178074-G-8 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 425461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178204-1	MW-1	Total Recoverable	Water	200.7	
570-178204-2	MW-2	Total Recoverable	Water	200.7	
570-178204-3	MW-3	Total Recoverable	Water	200.7	
570-178204-4	MW-4	Total Recoverable	Water	200.7	
570-178204-5	DUP	Total Recoverable	Water	200.7	
MB 570-425461/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-425461/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-425461/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-178216-B-2-B MS	Matrix Spike	Total Recoverable	Water	200.7	
570-178216-B-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7	

Analysis Batch: 425734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178204-1	MW-1	Total Recoverable	Water	200.7 Rev 4.4	425461
570-178204-2	MW-2	Total Recoverable	Water	200.7 Rev 4.4	425461
MB 570-425461/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	425461
LCS 570-425461/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	425461
LCSD 570-425461/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	425461
570-178216-B-2-B MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	425461
570-178216-B-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	425461

Analysis Batch: 426170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178204-3	MW-3	Total Recoverable	Water	200.7 Rev 4.4	425461
570-178204-4	MW-4	Total Recoverable	Water	200.7 Rev 4.4	425461
570-178204-5	DUP	Total Recoverable	Water	200.7 Rev 4.4	425461

General Chemistry

Analysis Batch: 426916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178204-1	MW-1	Total/NA	Water	SM 2510B	
570-178204-2	MW-2	Total/NA	Water	SM 2510B	
570-178204-3	MW-3	Total/NA	Water	SM 2510B	
570-178204-4	MW-4	Total/NA	Water	SM 2510B	
570-178204-5	DUP	Total/NA	Water	SM 2510B	
MB 570-426916/10	Method Blank	Total/NA	Water	SM 2510B	

Eurofins Calscience

4/5/2024

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QC Association Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-178204-1

General Chemistry (Continued)

Analysis Batch: 426916 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178108-A-11 DU	Duplicate	Total/NA	Water	SM 2510B	

Analysis Batch: 427021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178204-1	MW-1	Total/NA	Water	SM 2540C	
570-178204-2	MW-2	Total/NA	Water	SM 2540C	
570-178204-3	MW-3	Total/NA	Water	SM 2540C	
570-178204-4	MW-4	Total/NA	Water	SM 2540C	
570-178204-5	DUP	Total/NA	Water	SM 2540C	
MB 570-427021/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-427021/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-427021/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-178204-1 DU	MW-1	Total/NA	Water	SM 2540C	

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Accreditation/Certification Summary

Client: Northstar Environmental Remediation

Job ID: 570-178204-1

Project/Site: Blythe Energy

Laboratory: Eurofins Calscience

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

uthority	Progra	am	Identification Number	Expiration Date	
alifornia State			3082	07-31-24	
for which the agency d	oes not offer certification.	•	ed by the governing authority. This lis	t may include analyte	
Analysis Method	Prep Method	Matrix	Analyte		
	·				
300.0		Water	Chloride		
300.0 300.0					
		Water	Chloride		

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Method Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-178204-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
SM 2510B	Conductivity, Specific Conductance	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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Eurofins Calscience Tustin

2841 Dow Avenue, Suite 100 Tustin, CA 92780 Phone (714) 895-5494

Chain of Custody Record



Loc: 570 178204

Client Information	Sampler Ralph DeLa Parra	Lab PM. Fama,	570-178204 Chain of 0		OC No: 0-210767-37763 1
Client Information Client Contact	Phone: (949) 202-090		1	State of Origin: Pa	ge
Arlin Brewster Company		Sheri F	ama@et.eurofinsus.com	Jo	ge 1 of 1 o#:
Northstar Environmental Remediation			Analysis Req	uested	
Address: 26225 Enterprise Court	Due Date Requested		082		eservation Codes: - HCL M - Hexane
City Lake Forest	TAT Requested (days):	1	300_ORGFM_28D		NaOH O - AsNaO2
State, Zlp: CA, 92630	Compliance Project: Δ Yes Δ	The state of the s	go		- Nitric Acid Q - Na2SO3
Phone	PO#:	NO	s; 300	F.	- MeOH R - Na252U3 S - H2SO4
949-274-1719(Tel) Emali:	Blythe Energy WO#:	<u>@</u>	6		- Ascorbic Acid U - Acetone
ralphdelaparra@cox.net		as or	Calc	J-	DI Water V - MCAA W - pH 4-5
Project Name: Blythe Energy	Project #: 44003897	<u>چ</u>	540C_		EDA Y - Trizma Z - other (specify)
Site: California	SSOW#;	E	SD (Y	100 Ot	her.
Janus		Sample Matrix	SIMIS		
		Sample Wewster,	Perform MS/MS 2510B Conducti Chloride 200.7 - Se	Number	
Comple Identification		C=Comp, S=solid, C=comp, O=waste/oil, C=Grab) BT=TISSUE, A=Air) III.	Perform 2610B Col Chloride 200.7 - Se	Total	Special Instructions/Note:
Sample Identification	Sample Date Time 0	G=grab) _{BT≃TIssue, A=Air}) it Preservation Code	XN D		Special filst uctions/Note.
MW-1	3-27-24 1305	6 Water W	NXX	1 1 1 9	
MW-2	1 1145	Water		 	
MW-3	1030	Water			
MW-4	1415	Water		1 1 2	
DUP	11113	Water		111111111111111111111111111111111111111	
		VValei			AND THE RESIDENCE OF THE PARTY
		<u> </u>			
Possible Hazard Identification			Sample Disposal (A fee may be as	ssessed if samples are retained	longer than 1 month)
Non-Hazard Flammable Skin Irritant	Poison B Unknown Rac	diological	Marian	sposal By Lab Archive	For Months
Deliverable Requested 1, II, III, IV, Other (specify)			Special Instructions/QC Requiremen	ts	
Empty Kit Relinquished by	Date		ne	Method of Shipment.	
Relinquished by	Date/Time: 3-27-2401	1800 Worksta.	Received by	Date/Time:	17-54 Company EC
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
					- Company
Custody Seals Intact: Custody Seal No Δ Yes Δ No			Cooler Temperature(s) ^o C and Other Re	marks: 0.7/	0.9 SC14 Ver 01/16/2019 4/5/2

Login Sample Receipt Checklist

Client: Northstar Environmental Remediation Job Number: 570-178204-1

Login Number: 178204 List Source: Eurofins Calscience

List Number: 1

Creator: Skinner, Alma D

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Arlin Brewster Northstar Environmental Remediation 26225 Enterprise Court Lake Forest, California 92630

Generated 5/22/2024 6:38:39 PM

JOB DESCRIPTION

Blythe Energy

JOB NUMBER

570-184533-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780



Eurofins Calscience

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

Generated 5/22/2024 6:38:39 PM

Authorized for release by Sheri Fama, Project Manager I Sheri.Fama@et.eurofinsus.com (657)210-6368

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Definitions/Glossary

Client: Northstar Environmental Remediation

Job ID: 570-184533-1 Project/Site: Blythe Energy

Qualifiers

Metals

Qualifier **Qualifier Description**

Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Northstar Environmental Remediation

Project: Blythe Energy

Job ID: 570-184533-1 Eurofins Calscience

Job Narrative 570-184533-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/15/2024 5:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

HPLC/IC

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

Metals

Method 200.7 - Total Recoverable: The initial calibration verification (ICV) result for batch 570-443027 was above the upper control limit. The affected analytes are: Zinc. Sample results were non-detects, and have been reported as qualified data.

Method 200.7 - Total Recoverable: The following sample was diluted due to the nature of the sample matrix: EP(West)-5-15-24 (570-184533-6). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Eurofins Calscience

Job ID: 570-184533-1

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Sample Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-184533-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-184533-1	MW-3-5-15-24	Water	05/15/24 08:55	05/15/24 17:05
570-184533-2	MW-2-5-15-24	Water	05/15/24 10:10	05/15/24 17:05
570-184533-3	MW-1-5-15-24	Water	05/15/24 11:35	05/15/24 17:05
570-184533-4	MW-4-5-15-24	Water	05/15/24 12:40	05/15/24 17:05
570-184533-5	DUP-5-15-24	Water	05/15/24 00:00	05/15/24 17:05
570-184533-6	EP(West)-5-15-24	Water	05/15/24 13:05	05/15/24 17:05

4533-1

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Detection Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: MW-3-5-15-24 Lab Sample ID: 570-184533-1

Γ								
Analyte	Result C	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.48		0.10	mg/L	1		300.0	Total/NA
Chloride - DL	150		10	mg/L	10		300.0	Total/NA
Sulfate - DL	410		10	mg/L	10		300.0	Total/NA
Specific Conductance	1800		1.0	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	1200		10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-2-5-15-24

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Fluoride	1.8	0.10	mg/L	1	300.0	Total/NA
Chloride - DL	130	10	mg/L	10	300.0	Total/NA
Sulfate - DL	390	10	mg/L	10	300.0	Total/NA
Specific Conductance	1700	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1200	10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-1-5-15-24

Г							
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Fluoride	1.9		0.10	mg/L	1	300.0	Total/NA
Chloride - DL	180		10	mg/L	10	300.0	Total/NA
Sulfate - DL	450		10	mg/L	10	300.0	Total/NA
Specific Conductance	2000		1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1300		10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-4-5-15-24

Analyte	Result Qualifier	RL	Unit	Dil Fac I) Method	Prep Type
Fluoride	1.8	0.10	mg/L	1	300.0	Total/NA
Chloride - DL	310	10	mg/L	10	300.0	Total/NA
Sulfate - DL	340	10	mg/L	10	300.0	Total/NA
Specific Conductance	2000	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1200	10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: DUP-5-15-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.9		0.10	mg/L	1	_	300.0	Total/NA
Chloride - DL	180		10	mg/L	10		300.0	Total/NA
Sulfate - DL	450		10	mg/L	10		300.0	Total/NA
Specific Conductance	2000		1.0	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	1300		10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP(West)-5-15-24

Analyte	Result Qualifier	RL	Unit	Dil Fac I) Method	Prep Type
Fluoride	32	5.0	mg/L	50	300.0	Total/NA
Chloride - DL	78000	1000	mg/L	1000	300.0	Total/NA
Sulfate - DL	80000	1000	mg/L	1000	300.0	Total/NA
Barium	0.13	0.10	mg/L	10	200.7 Rev 4.4	Total
						Recoverable
Specific Conductance	170000	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	240000	2000	mg/L	1	SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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5/22/2024

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Job ID: 570-184533-1

Lab Sample ID: 570-184533-2

Lab Sample ID: 570-184533-3

Lab Sample ID: 570-184533-4

Lab Sample ID: 570-184533-5

Lab Sample ID: 570-184533-6

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Project/Site: Blythe Energy

Client Sample ID: MW-3-5-15-24

Client: Northstar Environmental Remediation

Date Collected: 05/15/24 08:55

Date Received: 05/15/24 17:05

Lab Sample ID: 570-184533-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.48		0.10	mg/L			05/17/24 20:59	1
- Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - DL						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		10	mg/L			05/17/24 22:40	10
Sulfate	410		10	mg/L			05/17/24 22:40	10
= =		l Pacovarable		-				
Method: EPA 200.7 Rev 4.4 - Metals	s (ICP) - Tota			Linit	D	Propared	Analyzod	Dil Eac
= =	s (ICP) - Tota	Recoverable Qualifier	RL 0.10	Unit mg/L	_ <u>D</u>	Prepared 05/21/24 06:43	Analyzed 05/21/24 22:55	Dil Fac
Method: EPA 200.7 Rev 4.4 - Metals Analyte Selenium General Chemistry	s (ICP) - Tota Result ND	Qualifier	RL 0.10	mg/L		05/21/24 06:43	05/21/24 22:55	1
Method: EPA 200.7 Rev 4.4 - Metals Analyte Selenium	s (ICP) - Tota Result ND		RL		_ <u>D</u>			Dil Fac

Lab Sample ID: 570-184533-2 Client Sample ID: MW-2-5-15-24 Matrix: Water

Date Collected: 05/15/24 10:10

Date Received: 05/15/24 17:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.8		0.10	mg/L			05/17/24 21:16	1
Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - DL						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		10	mg/L			05/17/24 22:57	10
Sulfate	390		10	ma/l			05/17/24 22:57	10
-		l Bagayarahla		mg/L			03/11/24 22:31	10
Method: EPA 200.7 Rev 4.4 - Metals Analyte	s (ICP) - Tota	Recoverable Qualifier		Unit	_ <u>D</u>	Prepared	Analyzed	
Method: EPA 200.7 Rev 4.4 - Metals	s (ICP) - Tota		•	·	_ <u>D</u>	Prepared 05/21/24 06:43		Dil Fac
Method: EPA 200.7 Rev 4.4 - Metals Analyte	s (ICP) - Tota Result		RL	Unit	_ <u>D</u>	<u>·</u>	Analyzed	
Method: EPA 200.7 Rev 4.4 - Metals Analyte Selenium	s (ICP) - Tota Result ND		RL	Unit	_ <u>D</u>	<u>·</u>	Analyzed	
Method: EPA 200.7 Rev 4.4 - Metals Analyte Selenium General Chemistry	s (ICP) - Tota Result ND	Qualifier	RL 0.10	Unit mg/L	_ =	05/21/24 06:43	Analyzed 05/21/24 23:06	Dil Fac

Date Collected: 05/15/24 11:35

Date Received: 05/15/24 17:05

Method: EPA 300.0 - Ani	ons, Ion Chromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.9		0.10	mg/L			05/17/24 21:33	1
Mothod: EDA 300 0 - Ani	one Ion Chromatogran	hy - DI						
Method: EPA 300.0 - Anii Analyte		hy - DL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		•	RL	Unitmg/L	<u>D</u> _	Prepared	Analyzed 05/17/24 23:14	Dil Fac

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Matrix: Water

Job ID: 570-184533-1

Client: Northstar Environmental Remediation

Date Received: 05/15/24 17:05

Project/Site: Blythe Energy

Client Sample ID: MW-1-5-15-24 Lab Sample ID: 570-184533-3

Date Collected: 05/15/24 11:35

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		05/21/24 06:43	05/21/24 23:08	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	2000		1.0	umhos/cm			05/21/24 17:31	1
Total Dissolved Solids (SM 2540C)	1300		10	mg/L			05/20/24 13:43	1

Client Sample ID: MW-4-5-15-24 Lab Sample ID: 570-184533-4

Date Collected: 05/15/24 12:40 **Matrix: Water**

Date Received: 05/15/24 17:05

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.8		0.10	mg/L			05/17/24 21:50	1
- Method: EPA 300.0 - Anio	ons, Ion Chromatograp	hy - DL						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		10	mg/L			05/17/24 23:31	10
Sulfate	340		10	mg/L			05/17/24 23:31	10
Method: EPA 200.7 Rev 4	.4 - Metals (ICP) - Tota	l Recoverable)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		05/21/24 06:43	05/21/24 23:11	- 1

General Chemistry Analyte Result Qualifier RL Unit Dil Fac D Prepared Analyzed 1.0 05/21/24 17:29 Specific Conductance (SM 2510B) 2000 umhos/cm Total Dissolved Solids (SM 2540C) 1200 10 mg/L 05/20/24 13:43

Client Sample ID: DUP-5-15-24 Lab Sample ID: 570-184533-5 Date Collected: 05/15/24 00:00 **Matrix: Water**

Date Received: 05/15/24 17:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.9		0.10	mg/L			05/17/24 22:07	1
Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - DL						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		10	mg/L			05/18/24 00:22	10
Sulfate	450		10	mg/L			05/18/24 00:22	10
Method: EPA 200.7 Rev 4.4 - Metal	s (ICP) - Tota	l Recoverable)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		05/21/24 06:43	05/21/24 23:13	1
-								
General Chemistry								
•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Specific Conductance (SM 2510B)	Result 2000	Qualifier	1.0 RL	Unit umhos/cm	_ <u>D</u>	Prepared	Analyzed 05/21/24 17:27	Dil Fac

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Client Sample Results

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: EP(West)-5-15-24 Lab Sample ID: 570-184533-6

Date Collected: 05/15/24 13:05 Date Received: 05/15/24 17:05

Matrix: Water

Job ID: 570-184533-1

Method: EPA 300.0 - Anions, Ion Cl Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	32		5.0	mg/L		<u>.</u>	05/17/24 22:24	50
Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - DL						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78000		1000	mg/L			05/18/24 00:38	1000
Sulfate	80000		1000	mg/L			05/18/24 00:38	1000
Method: EPA 200.7 Rev 4.4 - Metals	s (ICP) - Tota	l Recoverab	le					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	mg/L		05/21/24 06:43	05/22/24 16:00	10
Arsenic	ND		1.0	mg/L		05/21/24 06:43	05/22/24 16:00	10
Barium	0.13		0.10	mg/L		05/21/24 06:43	05/22/24 16:00	10
Cadmium	ND		0.10	mg/L		05/21/24 06:43	05/22/24 16:00	10
Chromium	ND		0.50	mg/L		05/21/24 06:43	05/22/24 16:00	10
Cobalt	ND		0.50	mg/L		05/21/24 06:43	05/22/24 16:00	10
Copper	ND		0.50	mg/L		05/21/24 06:43	05/22/24 16:00	10
Lead	ND		0.50	mg/L		05/21/24 06:43	05/22/24 16:00	10
Nickel	ND		0.50	mg/L		05/21/24 06:43	05/22/24 16:00	10
Zinc	ND		2.5	mg/L		05/21/24 06:43	05/22/24 16:00	10
Method: SW846 7470A - Mercury (C	CVAA)							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		05/21/24 07:01	05/21/24 14:06	-
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	170000		1.0	umhos/cm			05/21/24 17:25	
Total Dissolved Solids (SM 2540C)	240000		2000	mg/L			05/20/24 13:43	

Lab Chronicle

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: MW-3-5-15-24 Lab Sample ID: 570-184533-1

Date Collected: 05/15/24 08:55 Date Received: 05/15/24 17:05

Matrix: Water

Job ID: 570-184533-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrume	300.0 nt ID: IC9		1	4 mL	4 mL	441555	05/17/24 20:59	YO8L	EET CAL 4
Total/NA	Analysis Instrume	300.0 nt ID: IC9	DL	10	4 mL	4 mL	441555	05/17/24 22:40	YO8L	EET CAL 4
Total Recoverable	Prep	200.7			50 mL	50 mL	442598	05/21/24 06:43	JP8N	EET CAL 4
Total Recoverable	Analysis Instrume	200.7 Rev 4.4 nt ID: ICP11		1			443027	05/21/24 22:55	P1R	EET CAL 4
Total/NA	Analysis Instrume	SM 2510B nt ID: ManSciMantech		1			443199	05/21/24 17:35	ZL4M	EET CAL 4
Total/NA	Analysis Instrume	SM 2540C nt ID: BAL100		1	100 mL	1000 mL	442360	05/20/24 13:43	PK4M	EET CAL 4

Client Sample ID: MW-2-5-15-24

Date Collected: 05/15/24 10:10

Date Received: 05/15/24 17:05

Lab Sample ID: 570-184533-2

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrume	300.0 nt ID: IC9		1	4 mL	4 mL	441555	05/17/24 21:16	YO8L	EET CAL 4
Total/NA	Analysis Instrume	300.0 nt ID: IC9	DL	10	4 mL	4 mL	441555	05/17/24 22:57	YO8L	EET CAL 4
Total Recoverable Total Recoverable	Prep Analysis Instrume	200.7 200.7 Rev 4.4 nt ID: ICP11		1	50 mL	50 mL	442598 443027	05/21/24 06:43 05/21/24 23:06	JP8N P1R	EET CAL 4
Total/NA	Analysis Instrume	SM 2510B nt ID: ManSciMantech		1			443199	05/21/24 17:33	ZL4M	EET CAL 4
Total/NA	Analysis Instrume	SM 2540C nt ID: BAL100		1	100 mL	1000 mL	442360	05/20/24 13:43	PK4M	EET CAL 4

Client Sample ID: MW-1-5-15-24

Date Collected: 05/15/24 11:35

Date Received: 05/15/24 17:05

Lab Sample ID: 570-184533-3
Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441555	05/17/24 21:33	YO8L	EET CAL 4
	Instrume	nt ID: IC9								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441555	05/17/24 23:14	YO8L	EET CAL 4
	Instrume	nt ID: IC9								
Total Recoverable	Prep	200.7			50 mL	50 mL	442598	05/21/24 06:43	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443027	05/21/24 23:08	P1R	EET CAL 4
	Instrume	nt ID: ICP11								
Total/NA	Analysis	SM 2510B		1			443199	05/21/24 17:31	ZL4M	EET CAL 4
	Instrume	nt ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	442360	05/20/24 13:43	PK4M	EET CAL 4
	Instrume	nt ID: BAL100								

Eurofins Calscience

Project/Site: Blythe Energy

1 Toject/One. Blythe Energy

Client Sample ID: MW-4-5-15-24

Client: Northstar Environmental Remediation

Date Collected: 05/15/24 12:40 Date Received: 05/15/24 17:05 Lab Sample ID: 570-184533-4

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441555	05/17/24 21:50	YO8L	EET CAL 4
	Instrume	nt ID: IC9								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441555	05/17/24 23:31	YO8L	EET CAL 4
	Instrume	nt ID: IC9								
Total Recoverable	Prep	200.7			50 mL	50 mL	442598	05/21/24 06:43	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443027	05/21/24 23:11	P1R	EET CAL 4
	Instrume	nt ID: ICP11								
Total/NA	Analysis	SM 2510B		1			443199	05/21/24 17:29	ZL4M	EET CAL 4
	Instrume	nt ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	442360	05/20/24 13:43	PK4M	EET CAL 4
	Instrume	nt ID: BAL100								

Client Sample ID: DUP-5-15-24

Date Collected: 05/15/24 00:00

Date Received: 05/15/24 17:05

Lab Sample ID: 570-184533-5

Matrix: Water

44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441555	05/17/24 22:07	YO8L	EET CAL 4
	Instrume	nt ID: IC9								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441555	05/18/24 00:22	YO8L	EET CAL 4
	Instrume	nt ID: IC9								
Total Recoverable	Prep	200.7			50 mL	50 mL	442598	05/21/24 06:43	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443027	05/21/24 23:13	P1R	EET CAL 4
	Instrume	nt ID: ICP11								
Total/NA	Analysis	SM 2510B		1			443199	05/21/24 17:27	ZL4M	EET CAL 4
	Instrume	nt ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	442360	05/20/24 13:43	PK4M	EET CAL 4
	Instrume	nt ID: BAL100								

Client Sample ID: EP(West)-5-15-24

Date Collected: 05/15/24 13:05

Date Received: 05/15/24 17:05

Lab Sample	ID:	570-1	84	533-6
			_	

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50	4 mL	4 mL	441555	05/17/24 22:24	YO8L	EET CAL 4
	Instrume	nt ID: IC9								
Total/NA	Analysis	300.0	DL	1000	4 mL	4 mL	441555	05/18/24 00:38	YO8L	EET CAL 4
	Instrume	nt ID: IC9								
Total Recoverable	Prep	200.7			50 mL	50 mL	442598	05/21/24 06:43	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		10			443391	05/22/24 16:00	P1R	EET CAL 4
	Instrume	nt ID: ICP11								
Total/NA	Prep	7470A			25 mL	50 mL	442619	05/21/24 07:01	VCN7	EET CAL 4
Total/NA	Analysis	7470A		1			442851	05/21/24 14:06	ECX6	EET CAL 4
	Instrume	nt ID: HG9								

Lab Chronicle

Client: Northstar Environmental Remediation

Client Sample ID: EP(West)-5-15-24

Project/Site: Blythe Energy

Lab Sample ID: 570-184533-6

Matrix: Water

Job ID: 570-184533-1

Date Collected: 05/15/24 13:05 Date Received: 05/15/24 17:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2510B		1			443199	05/21/24 17:25	ZL4M	EET CAL 4
Total/NA	Analysis	SM 2540C		1	0.5 mL	1000 mL	442360	05/20/24 13:43	PK4M	EET CAL 4
	Instrume	nt ID: BAL100								

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

MD MD

Job ID: 570-184533-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-441555/5

Matrix: Water

Analysis Batch: 441555

Client Sample ID: Method Blank

Prep Type: Total/NA

	IVID	INID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	mg/L			05/17/24 05:57	1
Fluoride	ND		0.10	mg/L			05/17/24 05:57	1
Sulfate	ND		1.0	mg/L			05/17/24 05:57	1

Lab Sample ID: LCS 570-441555/6

Matrix: Water

Analysis Batch: 441555

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Matrix Spike

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	50.0		mg/L		100	90 - 110	
Fluoride	2.50	2.39		mg/L		96	90 - 110	
Sulfate	50.0	49.8		mg/L		100	90 - 110	

Lab Sample ID: LCSD 570-441555/7

Matrix: Water

Analysis Batch: 441555

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	50.0	50.1		mg/L		100	90 - 110	0	15
Fluoride	2.50	2.40		mg/L		96	90 - 110	1	15
Sulfate	50.0	49.8		mg/L		100	90 - 110	0	15

Lab Sample ID: 570-184775-H-13 MS

Matrix: Water

Analysis Batch: 441555

Alialysis Datcil. 441000										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	5.4		50.0	56.8		mg/L		103	80 - 120	
Fluoride	0.33		2.50	2.72		mg/L		95	80 - 120	
A 14 .										

Matrix: Water

Analysis Batch: 441555

Lah Sample ID: 570-184775	S-H-13 MSD			Clien	t Sample ID	· Matrix Snike Γ	unlicate
Sulfate	11	50.0	62.1	mg/L	103	80 - 120	
Fluoride	0.33	2.50	2.72	mg/L	95	80 - 120	

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	5.4		50.0	57.0		mg/L		103	80 - 120	0	20
Fluoride	0.33		2.50	2.69		mg/L		94	80 - 120	1	20
Sulfate	11		50.0	62.4		mg/L		103	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-442598/1-A

Matrix: Water

Analysis Batch: 443027

Client Sample ID: Method Blank **Prep Type: Total Recoverable Prep Batch: 442598**

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.10	mg/L		05/21/24 06:43	05/21/24 22:48	1
Selenium	ND		0.10	mg/L		05/21/24 06:43	05/21/24 22:48	1
Arsenic	ND		0.10	mg/L		05/21/24 06:43	05/21/24 22:48	1

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Job ID: 570-184533-1

Project/Site: Blythe Energy

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 570-442598/1-A

Client: Northstar Environmental Remediation

Matrix: Water

Analysis Batch: 443027

Client Sample ID: Method Blank **Prep Type: Total Recoverable Prep Batch: 442598**

MB N	ИB						
Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
ND		0.010	mg/L		05/21/24 06:43	05/21/24 22:48	1
ND		0.010	mg/L		05/21/24 06:43	05/21/24 22:48	1
ND		0.050	mg/L		05/21/24 06:43	05/21/24 22:48	1
ND		0.050	mg/L		05/21/24 06:43	05/21/24 22:48	1
ND		0.050	mg/L		05/21/24 06:43	05/21/24 22:48	1
ND		0.050	mg/L		05/21/24 06:43	05/21/24 22:48	1
ND		0.050	mg/L		05/21/24 06:43	05/21/24 22:48	1
ND ^	1+	0.25	mg/L		05/21/24 06:43	05/21/24 22:48	1
	Result (ND ND ND ND ND ND ND ND ND N	ND ND ND ND ND	Result Qualifier RL ND 0.010 ND 0.050 ND 0.050	Result Qualifier RL Unit ND 0.010 mg/L ND 0.010 mg/L ND 0.050 mg/L	Result Qualifier RL Unit D ND 0.010 mg/L mg/L ND 0.050 mg/L	Result Qualifier RL Unit D Prepared ND 0.010 mg/L 05/21/24 06:43 ND 0.010 mg/L 05/21/24 06:43 ND 0.050 mg/L 05/21/24 06:43	Result Qualifier RL Unit D Prepared Analyzed ND 0.010 mg/L 05/21/24 06:43 05/21/24 22:48 ND 0.010 mg/L 05/21/24 06:43 05/21/24 22:48 ND 0.050 mg/L 05/21/24 06:43 05/21/24 22:48

Lab Sample ID: LCS 570-442598/2-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 443027							Prep Bat	ch: 442598
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	0.500	0.495		mg/L		99	85 - 115	
Selenium	0.500	0.514		mg/L		103	85 - 115	
Arsenic	0.500	0.518		mg/L		104	85 - 115	
Barium	0.500	0.521		mg/L		104	85 _ 115	
Cadmium	0.500	0.526		mg/L		105	85 - 115	
Chromium	0.500	0.530		mg/L		106	85 - 115	
Cobalt	0.500	0.523		mg/L		105	85 _ 115	
Copper	0.500	0.521		mg/L		104	85 - 115	
Lead	0.500	0.522		mg/L		104	85 - 115	
Nickel	0.500	0.529		mg/L		106	85 - 115	
Zinc	0.500	0.529	^1+	mg/L		106	85 - 115	

Lab Sample ID: LCSD 570-442598/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 443027

Lead

Nickel

Zinc

Spike LCSD LCSD %Rec RPD Added RPD Limit Analyte Result Qualifier Unit D %Rec Limits Antimony 0.500 0.495 mg/L 99 85 - 115 0 20 Selenium 0.500 0.512 mg/L 102 85 - 115 0 20 0.500 0.519 85 - 115 Arsenic mg/L 104 20 Barium 0.500 0.520 mg/L 104 85 - 115 20 Cadmium 0.500 0.526 85 - 115 mg/L 105 20 Chromium 0.500 0.529 mg/L 106 85 - 115 20 0.500 0.523 Cobalt mg/L 105 85 - 115 20 Copper 0.500 0.521 mg/L 104 85 - 115 20

Lab Sample ID: 570-184533-1 MS Client Sample ID: MW-3-5-15-24 **Matrix: Water Prep Type: Total Recoverable**

0.524

0.530

0.526 ^1+

mg/L

mg/L

mg/L

105

106

105

85 - 115

85 - 115

85 - 115

0.500

0.500

0.500

Analysis Batch: 443027

Prep Batch: 442598 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec ND 0.500 0.549 110 80 - 120 Antimony mg/L

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Prep Batch: 442598

0

20

20

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Job ID: 570-184533-1

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 570-184533-1 MS

Matrix: Water

Analysis Batch: 443027

Client Sample ID: MW-3-5-15-24 **Prep Type: Total Recoverable**

Prep Batch: 442598

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits ND 0.500 0.519 Selenium mg/L 104 80 - 120Arsenic ND 0.500 0.542 mg/L 108 80 - 120 Barium 0.022 0.500 0.535 mg/L 103 80 - 120 Cadmium ND 0.500 0.506 mg/L 101 80 - 120 Chromium ND 0.500 0.527 105 80 - 120 mg/L Cobalt ND 0.500 0.498 mg/L 100 80 - 120 ND 0.500 0.538 mg/L 108 80 - 120Copper Lead ND 0.500 0.509 mg/L 102 80 - 120 Nickel ND 0.500 0.497 mg/L 99 80 - 120 Zinc ND ^1+ 0.500 0.508 ^1+ mg/L 102 80 - 120

Lab Sample ID: 570-184533-1 MSD

Matrix: Water

Prep Type: Total Recoverable

Client Sample ID: MW-3-5-15-24

Analysis Batch: 443027									Prep I	Batch: 4	42598
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	ND		0.500	0.534		mg/L		107	80 - 120	3	20
Selenium	ND		0.500	0.518		mg/L		104	80 - 120	0	20
Arsenic	ND		0.500	0.540		mg/L		108	80 - 120	0	20
Barium	0.022		0.500	0.527		mg/L		101	80 - 120	1	20
Cadmium	ND		0.500	0.499		mg/L		100	80 - 120	1	20
Chromium	ND		0.500	0.522		mg/L		104	80 - 120	1	20
Cobalt	ND		0.500	0.494		mg/L		99	80 - 120	1	20
Copper	ND		0.500	0.530		mg/L		106	80 - 120	1	20
Lead	ND		0.500	0.499		mg/L		100	80 - 120	2	20
Nickel	ND		0.500	0.493		mg/L		99	80 - 120	1	20
Zinc	ND	^1+	0.500	0.503	^1+	mg/L		101	80 - 120	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 570-442619/1-A

Matrix: Water

Analysis Batch: 442851

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 442619

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 05/21/24 07:01 0.00020 05/21/24 13:43 Mercury ND mg/L

Lab Sample ID: LCS 570-442619/2-A

Matrix: Water

Analysis Batch: 442851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 442619

Spike LCS LCS %Rec Added Qualifier Limits Analyte Result %Rec Unit 0.00800 0.00799 100 80 - 120 Mercury mg/L

мв мв

Lab Sample ID: LCSD 570-442619/3-A

Matrix: Water

Analysis Batch: 442851

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 442619

Spike LCSD LCSD %Rec RPD Limit Added Result Qualifier Limits RPD Analyte Unit %Rec Mercury 0.00800 0.00829 mg/L 104 80 - 120 10

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5/22/2024

Spike

Added

0.00800

Spike

MS MS

0.00919

Result Qualifier

MSD MSD

Unit

mg/L

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-184533-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 570-185062-Q-2-C MS

Matrix: Water

Analyte

Mercury

Analysis Batch: 442851

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 442619

%Rec Limits 104 80 - 120

Lab Sample ID: 570-185062-Q-2-D MSD

Matrix: Water

Analysis Batch: 442851

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

0

20

Prep Batch: 442619 %Rec **RPD** Limits RPD Limit

Result Qualifier Analyte Added Result Qualifier Unit D %Rec Mercury 0.00089 0.00800 0.00923 mg/L 104 80 - 120

Method: SM 2510B - Conductivity, Specific Conductance

Sample Sample

Sample Sample

мв мв

0.00089

Result Qualifier

Lab Sample ID: MB 570-443199/10

Matrix: Water

Analysis Batch: 443199

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Analyte

Result Qualifier RL Unit D Prepared Analyzed Dil Fac Specific Conductance ND 1.0 umhos/cm 05/21/24 15:54

Lab Sample ID: 570-184773-G-2 DU

Matrix: Water

Analysis Batch: 443199

Client Sample ID: Duplicate

Client Sample ID: Method Blank

Prep Type: Total/NA

DU DU RPD Sample Sample Analyte Result Qualifier Result Qualifier Unit **RPD** Limit 640 Specific Conductance 587 umhos/cm 25

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

Lab Sample ID: MB 570-442360/1

Matrix: Water

Analysis Batch: 442360

Prep Type: Total/NA

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **Total Dissolved Solids** ND 10 mg/L 05/20/24 13:43

Lab Sample ID: LCS 570-442360/2

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 442360

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits Total Dissolved Solids 1000 968 84 - 108 mg/L

Lab Sample ID: LCSD 570-442360/3

Matrix: Water

Analysis Batch: 442360

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

RPD

Spike LCSD LCSD %Rec Added Result Qualifier Limits RPD Limit Unit %Rec **Total Dissolved Solids** 1000 966 97 ma/L 84 - 10810

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QC Sample Results

Client: Northstar Environmental Remediation Job ID: 570-184533-1

Project/Site: Blythe Energy

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

Lab Sample ID: 570-184504-D-9 DU **Client Sample ID: Duplicate Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 442360								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	730		730		mg/L		0	10

Job ID: 570-184533-1

Client: Northstar Environmental Remediation Project/Site: Blythe Energy

HPLC/IC

Analysis Batch: 441555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
570-184533-1	MW-3-5-15-24	Total/NA	Water	300.0	
570-184533-1 - DL	MW-3-5-15-24	Total/NA	Water	300.0	
570-184533-2	MW-2-5-15-24	Total/NA	Water	300.0	
570-184533-2 - DL	MW-2-5-15-24	Total/NA	Water	300.0	
570-184533-3	MW-1-5-15-24	Total/NA	Water	300.0	
570-184533-3 - DL	MW-1-5-15-24	Total/NA	Water	300.0	
570-184533-4	MW-4-5-15-24	Total/NA	Water	300.0	
570-184533-4 - DL	MW-4-5-15-24	Total/NA	Water	300.0	
570-184533-5	DUP-5-15-24	Total/NA	Water	300.0	
570-184533-5 - DL	DUP-5-15-24	Total/NA	Water	300.0	
570-184533-6	EP(West)-5-15-24	Total/NA	Water	300.0	
570-184533-6 - DL	EP(West)-5-15-24	Total/NA	Water	300.0	
MB 570-441555/5	Method Blank	Total/NA	Water	300.0	
LCS 570-441555/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-441555/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-184775-H-13 MS	Matrix Spike	Total/NA	Water	300.0	
570-184775-H-13 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 442598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
570-184533-1	MW-3-5-15-24	Total Recoverable	Water	200.7	
570-184533-2	MW-2-5-15-24	Total Recoverable	Water	200.7	
570-184533-3	MW-1-5-15-24	Total Recoverable	Water	200.7	
570-184533-4	MW-4-5-15-24	Total Recoverable	Water	200.7	
570-184533-5	DUP-5-15-24	Total Recoverable	Water	200.7	
570-184533-6	EP(West)-5-15-24	Total Recoverable	Water	200.7	
MB 570-442598/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-442598/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-442598/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-184533-1 MS	MW-3-5-15-24	Total Recoverable	Water	200.7	
570-184533-1 MSD	MW-3-5-15-24	Total Recoverable	Water	200.7	

Prep Batch: 442619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184533-6	EP(West)-5-15-24	Total/NA	Water	7470A	_
MB 570-442619/1-A	Method Blank	Total/NA	Water	7470A	
LCS 570-442619/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 570-442619/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
570-185062-Q-2-C MS	Matrix Spike	Total/NA	Water	7470A	
570-185062-Q-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 442851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184533-6	EP(West)-5-15-24	Total/NA	Water	7470A	442619
MB 570-442619/1-A	Method Blank	Total/NA	Water	7470A	442619
LCS 570-442619/2-A	Lab Control Sample	Total/NA	Water	7470A	442619
LCSD 570-442619/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	442619
570-185062-Q-2-C MS	Matrix Spike	Total/NA	Water	7470A	442619
570-185062-Q-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	442619

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QC Association Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-184533-1

Metals

Analysis Batch: 443027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184533-1	MW-3-5-15-24	Total Recoverable	Water	200.7 Rev 4.4	442598
570-184533-2	MW-2-5-15-24	Total Recoverable	Water	200.7 Rev 4.4	442598
570-184533-3	MW-1-5-15-24	Total Recoverable	Water	200.7 Rev 4.4	442598
570-184533-4	MW-4-5-15-24	Total Recoverable	Water	200.7 Rev 4.4	442598
570-184533-5	DUP-5-15-24	Total Recoverable	Water	200.7 Rev 4.4	442598
MB 570-442598/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	442598
LCS 570-442598/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	442598
LCSD 570-442598/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	442598
570-184533-1 MS	MW-3-5-15-24	Total Recoverable	Water	200.7 Rev 4.4	442598
570-184533-1 MSD	MW-3-5-15-24	Total Recoverable	Water	200.7 Rev 4.4	442598

Analysis Batch: 443391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184533-6	EP(West)-5-15-24	Total Recoverable	Water	200.7 Rev 4.4	442598

General Chemistry

Analysis Batch: 442360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184533-1	MW-3-5-15-24	Total/NA	Water	SM 2540C	
570-184533-2	MW-2-5-15-24	Total/NA	Water	SM 2540C	
570-184533-3	MW-1-5-15-24	Total/NA	Water	SM 2540C	
570-184533-4	MW-4-5-15-24	Total/NA	Water	SM 2540C	
570-184533-5	DUP-5-15-24	Total/NA	Water	SM 2540C	
570-184533-6	EP(West)-5-15-24	Total/NA	Water	SM 2540C	
MB 570-442360/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-442360/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-442360/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-184504-D-9 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 443199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184533-1	MW-3-5-15-24	Total/NA	Water	SM 2510B	
570-184533-2	MW-2-5-15-24	Total/NA	Water	SM 2510B	
570-184533-3	MW-1-5-15-24	Total/NA	Water	SM 2510B	
570-184533-4	MW-4-5-15-24	Total/NA	Water	SM 2510B	
570-184533-5	DUP-5-15-24	Total/NA	Water	SM 2510B	
570-184533-6	EP(West)-5-15-24	Total/NA	Water	SM 2510B	
MB 570-443199/10	Method Blank	Total/NA	Water	SM 2510B	
570-184773-G-2 DU	Duplicate	Total/NA	Water	SM 2510B	

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Accreditation/Certification Summary

Client: Northstar Environmental Remediation

Job ID: 570-184533-1

Project/Site: Blythe Energy

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-24

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Method Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-184533-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
7470A	Mercury (CVAA)	SW846	EET CAL 4
SM 2510B	Conductivity, Specific Conductance	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
7470A	Preparation, Mercury	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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2841 Dow Avenue, Suite 100 Tustin, CA 92780

Chain of Custody Record



eurofins

Loc: 570

184533

Phone (714) 895-5494																			
Client Information	Sampler: Lab PM: Ralph De La Parra Fama, S					570-184533 Chain of Custody							COC No: 570-102068-2124						
Client Contact Arlin Brewster	Phone: (949) 702-0968			E-Ma She	iil: eri.Fama	a@et.	- eurofi	insus.c	om		Stan	or Origin:				Page: Page 1 of 1			
Company: Northstar Environmental Remediation			PWSID:		П					vsis I	Reque	sted				Job#:			
Address: 26225 Enterprise Court	Due Date Requested:			·		П			74.4	J	10 4 40.				T	Preservation Code N - None	s:		
City: Lake Forest	TAT Requested (days)	: Norma	al					BH								D - HNO3			
State, Zip: CA, 92630	Compliance Project:				-			7470A Hg											
Phone: 949-274-1719(Tel)	PO# Blythe Energy							li, Zn,											
Email: artin.brewster@northstarer.com	wo#				2 5 6	25 M		Cd , Cr, Co, Cu, Pb, Ni, Zn,											
Project Name:	Project#				S S	300_ORGFM		20, Cu							iners				
Blythe Energy Site:	57013297 ssow#				Mple C	900,		1, Cr, 0							0	Other:			
California					ed Sa	Calor	E								er of				
			Sample Type	Matrix	Filter	2540C	Selenium	b, As,							Number				
Sample Identification	Sample Date	Sample Time	(C=comp,	O=waste/oil, BT=Tiesus, A=Air	18 4	2510B,	200.7 -	200.7 Sb, As, Ba,							Total	Special In	struction	s/Note:	1
		><	Preservati		XX	N		D							X		_		
MW3-5-15-24	5-15-24	0855	6	Water	Ш	×	×								2				
MW-2-5-15-24	1	1010		Water		×	×								2				1
MW-1-5-15-24		1135		Water	П	х	х								2				
MW-4-5-15-24		1240		Water	П	х	х								2				1
DUP-5-15-24				Water		х	х			П					2				-
EP (West)- 1445 AM 5-15-29		1305		Water		х		х							7				
	1		l																
					П														
Possible Hazard Identification Non-Hazard Flammable Skin Imitant Poisc	n B Onknown	Rad	iological		Sa	mple	Disp etum	osal (To Cli	A fee r	may bo	asses Dispo	sed if s sal By L	amples ab			l longer than 1 me	onth) Months		
Deliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial	Instru	ctions	/QC Re	quiren	nents:								
Empty Kit Relinguished by:		Date:			Time:	_						Method o							
Relinquished by:		-240	12050	Wirth (+	1	Rece	ved by:	6	1	/			Date/T	15-	24	17:05	Company	EC	
Relinquished by:	Date/Time:		C	company		Rece	ved by:						Date/T	ime:			Company		
Relinquished by:	Date/Time:		C	отрапу		Rece	ved by:						Date/T	lme:			Company	HTT	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coole	r Temp	perature(s) °C and	Other R	emarks					0.2	10.3	SC	14

Login Sample Receipt Checklist

Client: Northstar Environmental Remediation Job Number: 570-184533-1

Login Number: 184533 List Source: Eurofins Calscience

List Number: 1

Creator: Nguyen, Jenny

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

4

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SECOND SEMI-ANNUAL 2023 MONITORING REPORT BLYTHE ENERGY PROJECT BLYTHE, CALIFORNIA



Submitted by:
Blythe Energy Inc.
385 North Buck Boulevard
Blythe, California 92225
(760) 922-9950

Submittal to:

The California Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring Drive, Suite 100
Palm Desert, California 92260



January 31, 2024

California Regional Water Quality Control Board Colorado River Basin Region 73-720 Fred Waring Drive, Suite 100 Palm Desert, California 92260

Attention: Mr. Scott Stormo

Engineering Geologist

Subject: Second Semi-Annual 2023 Monitoring Report

Monitoring and Reporting Program Board Order No. R7-2002-0012

Blythe Energy Project Blythe, California

Dear Mr. Stormo:

Blythe Energy Inc. is pleased to present this report containing field data, laboratory analytical results, and statistical analysis for sampling conducted during the third and fourth quarters of 2023 at our Blythe, California facility. Field sampling was performed under the terms of the California Regional Water Quality Control Board – Colorado River Basin Region (RWQCB) Board Order Number R7-2002-0012. Field sampling was performed by Northstar Environmental Remediation (Northstar) of Lake Forest, California.

Data within this report summarizes the sampling activities that occurred during the third and fourth quarters of 2023. Laboratory data sheets and chain-of-custody records are also included as an appendix to this report.

If you should have any questions regarding this report, please contact David Gutierrez IV, Manager Operations at (760) 921-1359.

Sincerely,

Blythe Energy Inc.

Mike Ludwin

Interim Plant General Manager Sr. Director Operations-Power

cc: David Gutierrez IV (Blythe Energy Inc.)

CDFW USFWS



SECOND SEMI-ANNUAL 2023 MONITORING REPORT BLYTHE ENERGY INC. BLYTHE, CALIFORNIA

January 31, 2024

Prepared for:

Blythe Energy Inc. 385 North Buck Boulevard Blythe, California 92225

Prepared by:

WSP USA Environment and Infrastructure Inc. 3560 Hyland Avenue, Ste. 100 Costa Mesa, California 92626 (949) 642-0245

Project No. NB11160982

Duane G. Paul, PG 6336, CHG 414

Principal Hydrogeologist

SECOND SEMI-ANNUAL 2023 MONITORING REPORT BLYTHE ENERGY INC. BLYTHE, CALIFORNIA

Submitted by:

Blythe Energy Inc. 385 North Buck Boulevard Blythe, California 92225

Mike Ludwin
Interim Plant General Manager
Sr. Director Operations - Power
Agent For
Blythe Energy Inc.



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- 1. Facility Information and Declaration
- 2. Monitoring
- 3. Reference Maps
- 4. Quarterly Potentiometric Surface Maps
- 5. Analytical Summary Tables
- 6. Statistical Analysis
- 7. Lysimeter Test Records
- 8. Evaporation Pond Sampling Records
- 9. Well Sampling Records
- 10. Leachate Collection and Recovery System (LCRS) & Weekly Lysimeter Records

<u>APPENDIX</u>

Appendix A Laboratory Analytical Data Sheets



SECOND SEMI-ANNUAL 2023 MONITORING REPORT

SECTION 1 FACILITY INFORMATION AND DECLARATION

Second Semi-Annual 2023 Monitoring Report Blythe Energy Inc. Blythe, California January 31, 2024



FACILITY INFORMATION

Facility Contact:

David Gutierrez IV Senior Manager, Operations & Maintenance Blythe Energy Inc.

Telephone:

(760) 921-1359

Address:

Blythe Energy Inc. 385 North Buck Boulevard Blythe, California 92225

Monitoring and Reporting Program:

California Regional Water Quality Control Board Order No. R7-2002-0012

DECLARATION

I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information. I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Mike Ludwin

Interim Plant General Manager Sr. Director Operations - Power Agent For

Blythe Energy Inc.



SECOND SEMI-ANNUAL 2023 MONITORING REPORT

SECTION 2 MONITORING Second Semi-Annual 2023 Monitoring Report Blythe Energy Inc. Blythe, California January 31, 2024



MONITORING

The Second Semi-Annual 2023 monitoring event was conducted in compliance with the California Regional Water Quality Control Board- Lahontan Region (RWQCB) Board Order No. R7-2002-012 Waste Discharge Requirements (WDRs) and associated Monitoring and Reporting Program (MRP). Third and fourth quarter 2023 groundwater monitoring was performed by Northstar Environmental Remediation (Northstar) of Lake Forest, California on September 26 and December 6, respectively.

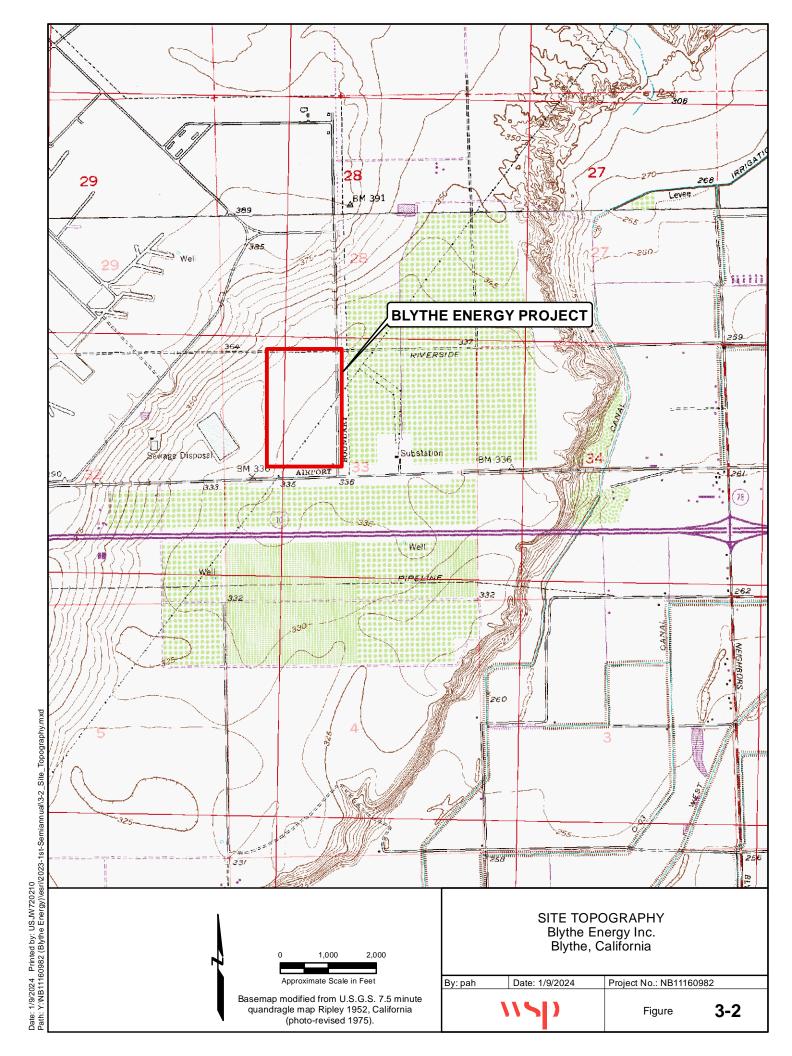
Site reference maps and first, second, third, and fourth quarter 2023 potentiometric surface maps are included in Sections 3 and 4. Groundwater quality laboratory analytical data is presented in Section 5 and the statistical analysis is presented in Section 6. The records for the lysimeter, evaporation pond, monitoring well, and the leakage collection recovery sump (LCRS) are presented in Sections 7 through 10. Laboratory analytical data sheets and chain-of-custody reports are also included in Appendix A.



SECOND SEMI-ANNUAL 2023 MONITORING REPORT

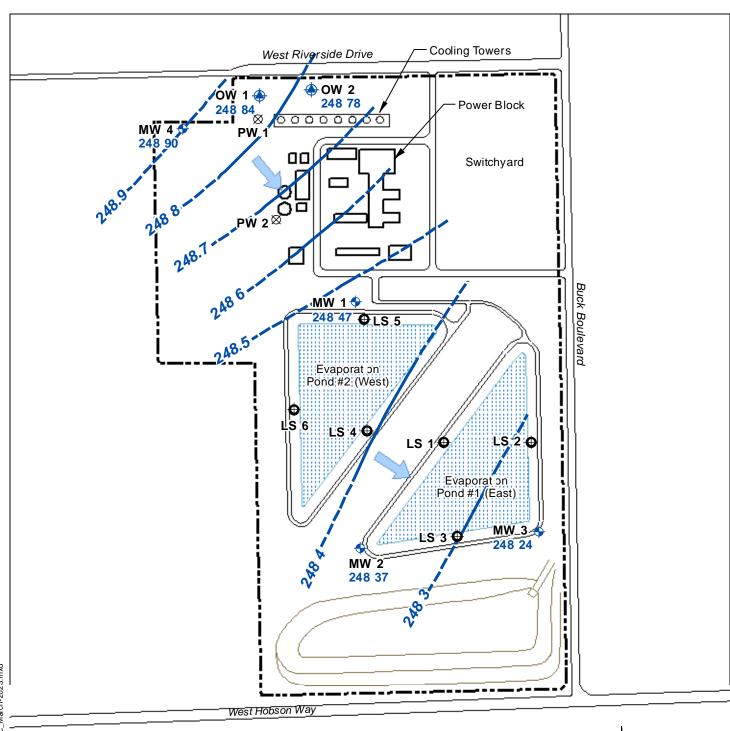
SECTION 3
REFERENCE MAPS

:1/9/2024 Printed by: USJW720210 Y:\NB11160982 (Blythe Energy)\esr\2023-1st-Semiannual\3-1_Site_Location_Map.mxd





SECOND SEMI-ANNUAL 2023 MONITORING REPORT SECTION 4 QUARTERLY POTENTIOMETRIC SURFACE MAPS



MW-2 Monitoring well location, designation, and groundwater elevation in feet above mean sea level (MSL)

OW-2 Observation well location, designation, and groundwater elevation in feet above MSL

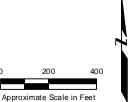
LS-6 Lysimeter location and designation

PW-1 ⊠ Production well location and designation

Approximate site boundary

248.9 — Groundwater elevation contour in feet above MSL; dashed where inferred

Approximate groundwater flow direction



Basemap modified from U.S.G.S. 7.5 m inute quadrangle map Ripley 1952, California (photo-revised 1975) and aerial photograph from Bing Maps (Microsoft Corporation© 2011 and DigitalGlobe©, 2010.

POTENTIOMETRIC SURFACE MARCH 12, 2023 Blythe Energy Inc. Blythe, California

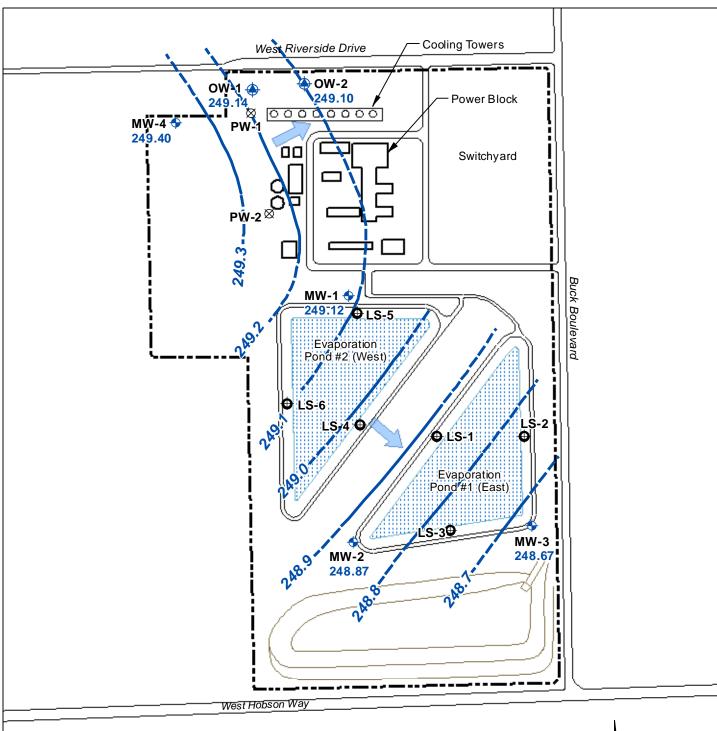
By: pah Date: 1/9/2024 Project No.: NB11160982

Date: 1/9/2024 Printed by: USJW7.20210 Path: Y:\NB 11160982 (Blythe Energy)\esr\2023-1st-Semiannua\\4-1_Potenticmetric_March-2023.mxd

wsp

Figure

4-1



MW-2 \$\ Monitoring well location, designation, and groundwater elevation in feet above mean sea level (MSL)

OW-2 Observation well location, designation, and groundwater elevation in feet above MSL

LS-6 Lysimeter location and designation

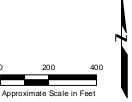
PW-1 ⊠ Production well location and designation

Approximate site boundary

249.3 — Groundwater elevation contour in feet

above MSL; dashed where inferred

Approximate groundwater flow direction



Basemap modified from U.S.G.S. 7.5 minute quadrangle map Ripley 1952, California (photo-revised 1975) and aerial photograph from Bing Maps (Microsoft Corporation© 2011 and DigitalGlobe©, 2010.

POTENTIOMETRIC SURFACE JUNE 7, 2023 Blythe Energy Inc. Blythe, California

By: pah Date: 1/9/2024 Project No.: NB11160982

MW-2 Monitoring well location, designation, and groundwater elevation in feet above mean sea level (MSL)

OW-2 Observation well location, designation, and groundwater elevation in feet above MSL

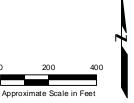
LS-6 Lysimeter location and designation

PW-1 ⊠ Production well location and designation

Approximate site boundary

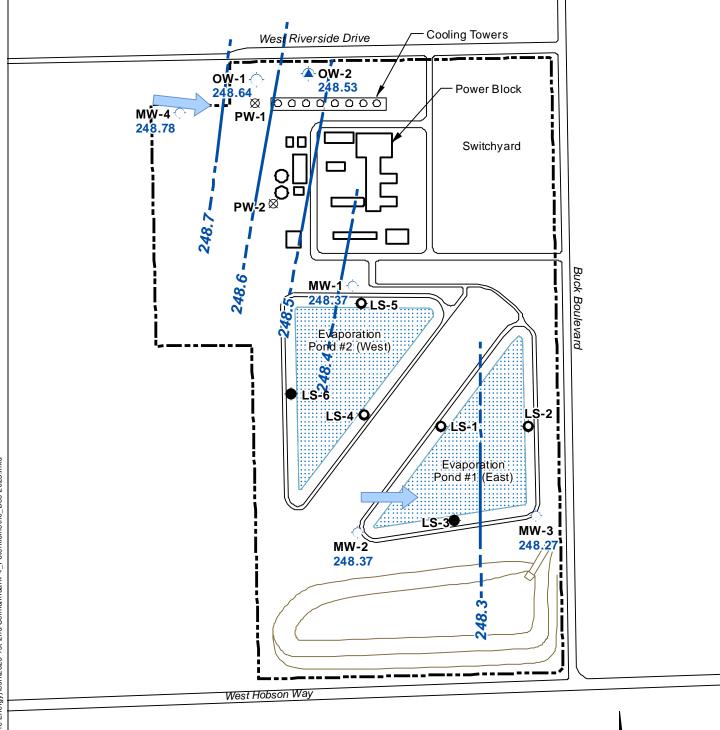
248.4 — Groundwater elevation contour in feet above MSL; dashed where inferred

Approximate groundwater flow direction



Basemap modified from U.S.G.S. 7.5 minute quadrangle map Ripley 1952, California (photo-revised 1975) and aerial photograph from Bing Maps (Microsoft Corporation© 2011 and DigitalGlobe©, 2010.

POTENTIOMETRIC SURFACE SEPTEMBER 26, 2023 Blythe Energy Inc. Blythe, California



MW-2 Monitoring well location, designation, and groundwater elevation in feet above mean sea level (MSL)

OW-2 Observation well location, designation, and groundwater elevation in feet above MSL

LS-6 C Lysimeter location and designation

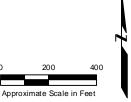
PW-1 ⊠ Production well location and designation

Approximate site boundary

248.7 — Groundwater elevation contou

Groundwater elevation contour in feet above MSL; dashed where inferred

Approximate groundwater flow direction



Basemap modified from U.S.G.S. 7.5 minute quadrangle map Ripley 1952, California (photo-revised 1975) and aerial photograph from Bing Maps (Microsoft Corporation© 2011 and DigitalGlobe©, 2010.

POTENTIOMETRIC SURFACE DECEMBER 6, 2023 Blythe Energy Inc. Blythe, California



SECOND SEMI-ANNUAL 2023 MONITORING REPORT

SECTION 5
ANALYTICAL SUMMARY TABLES



TABLE 5-1 SUMMARY OF SECOND SEMI-ANNUAL 2023 WEST EVAPORATION POND WATER LABORATORY ANALYTICAL RESULTS

Laboratory Analyte	Method	Detection Limit (mg/L)	Result (mg/L)
Antimony	EPA 200.7	2.5	ND
Arsenic	EPA 200.7	2.5	ND
Barium	EPA 200.7	0.25	ND
Cadmium	EPA 200.7	0.25	ND
Total Chromium	EPA 200.7	1.3	ND
Cobalt	EPA 200.7	1.3	ND
Copper	EPA 200.7	1.3	ND
Lead	EPA 200.7	1.3	ND
Mercury	EPA 245.1	0.00020	ND
Nickel	EPA 200.7	1.3	ND
Selenium	EPA 200.7	1.0	ND
Zinc	EPA 200.7	6.3	ND
Sulfate	EPA 300.0	1,000	14,000
Chloride	EPA 300.0	2,000	110,000
Total Dissolved Solids	SM2540C	2,000	220,000
Specific Conductance	SM2510B	1.0 µmhos/cm	180,000
рН	SM4500-H,B	0.100 pH units	NA

Parameters (Field)	Units	Value
Water Temperature	Degrees Celsius	18.4
рН	pH Units	7.83
Specific Conductance	ms/cm	>20.00

Water sample collected on December 6, 2023, from the West Pond. The East Pond was dry.

Notes:

mg/L = milligrams per liter

ND = Not detected at method detection limit indicated

ms/cm = Millisiemens per centimeter

 μ mhos/cm = Micromhos per centimeter

NA = Not Available



TABLE 5-2 SUMMARY OF GROUNDWATER ANAYLTICAL RESULTS FIRST QUARTER 2023

Analyte	EPA Method	Reporting	MW-1	MW-2	MW-3	MW-4	DUP
Allalyte	LI A Metriod	Limit (mg/L)*	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	300.0	10	170	130	150	320	150
Sulfate	300.0	10	440	380	410	390	400
Selenium	200.7	0.10	ND	ND	ND	ND	ND
Total Dissolved Solids	SM2540C	10	1,300	1,100	1,200	1,300	1,200
Specific Conductance							
(umhos/cm)	SM2510B	1.0	2,000	1,800	1,800	2,200	1,800

Field Parameters	Units	MW-1	MW-2	MW-3	MW-4	DUP
Static Water Level	Feet Below Measuring Point	88.80	89.40	89.95	93.60	NA
Stabilized pH	pH Units	6.95	7.64	6.55	7.03	NA
Stabilized Water Temperature	Degrees Celsius	30.4	30.5	25.4	32.6	NA

Groundwater samples collected on March 12, 2023.

Notes:

mg/L = milligrams per liter
NA = Not applicable
ND = Not detected

Dup = Duplicate sample of MW-3

* = Except where noted on laboratory analytical data sheets



TABLE 5-2 (Cont.) SUMMARY OF GROUNDWATER ANAYLTICAL RESULTS SECOND QUARTER 2023

Analyta	EPA Method	Reporting	MW-1	MW-2	MW-3	MW-4	DUP
Analyte	EPA Method	Limit (mg/L)*	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	300.0	10	200	130	150	330	130
Sulfate	300.0	10	410	380	390	370	380
Selenium	200.7	0.10	ND	ND	ND	ND	ND
Total Dissolved Solids	SM2540C	20	1,200	1,100	1,300	1,300	1,100
Specific Conductance							
(umhos/cm)	SM2510B	1.0	2,000	1,700	1,800	2,100	1,700

Field Parameters	Units	MW-1	MW-2	MW-3	MW-4	DUP
Static Water Level	Feet Below Measuring Point	88.15	88.90	89.55	93.10	NA
Stabilized pH	pH Units	7.06	6.92	6.64	7.13	NA
Stabilized Water Temperature	Degrees Celsius	30.5	30.2	25.0	32.2	NA

Groundwater samples collected on June 7, 2023.

Notes:

mg/L = milligrams per liter
NA = Not applicable
ND = Not detected

Dup = Duplicate sample of MW-2

^{* =} Except where noted on laboratory analytical data sheets



TABLE 5-2 (Cont.) SUMMARY OF GROUNDWATER ANALYTICAL RESULTS THIRD QUARTER 2023

Analyte	EPA Method	Reporting	MW-1	MW-2	MW-3	MW-4	DUP
Allalyte	EPA Metriod	Limit (mg/L)*	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	300.0	10	180	130	160	330	130
Sulfate	300.0	10	470	410	450	360	420
Selenium	200.7	0.10	ND	ND	ND	ND	ND
Total Dissolved Solids	SM2540C	20	1300	1100	1300	1200	1200
Specific Conductance							
(umhos/cm)	SM2510B	1.0	2000	1700	1900	2000	1700

Field Parameters	Units	MW-1	MW-2	MW-3	MW-4	DUP
Static Water Level	Feet Below Measuring Point	89.05	89.5	90.05	94.05	NA
Stabilized pH	pH Units	7.13	7.06	6.51	7.23	NA
Stabilized Water Temperature	Degrees Celsius	30.5	30.1	23.9	32.8	NA

Groundwater samples collected on September 26, 2023.

Notes:

mg/L = milligrams per liter
NA = Not applicable
ND = Not detected

Dup = Duplicate sample of MW-2

* = Except where noted on laboratory analytical data sheets



TABLE 5-2 (Cont.) SUMMARY OF GROUNDWATER ANALYTICAL RESULTS FOURTH QUARTER 2023

Anglista	EPA Method	Reporting	MW-1	MW-2	MW-3	MW-4	DUP
Analyte	EPA Wethod	Limit (mg/L)*	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	300.0	10	200	130	150	290	130
Sulfate	300.0	10	430	390	430	320	400
Selenium	200.7	0.020	ND	ND	ND	ND	ND
Total Dissolved Solids	SM2540C	10-20	1300	1100	1300	1200	1100
Specific Conductance							
(umhos/cm)	SM2510B	1.0	1900	1700	1800	2000	1900

Field Parameters	Units	MW-1	MW-2	MW-3	MW-4	DUP
Static Water Level	Feet Below Measuring Point	88.90	89.40	89.95	93.72	NA
Stabilized pH	pH Units	7.18	7.01	6.69	7.29	NA
Stabilized Water Temperature	Degrees Celsius	30.5	30.5	25.1	31.2	NA

Groundwater samples collected on December 6, 2023.

Notes:

mg/L = milligrams per liter
NA = Not applicable
ND = Not detected

DUP = Duplicate sample of MW-2

* = Except where noted on laboratory analytical data sheets



SECOND SEMI-ANNUAL 2023 MONITORING REPORT

SECTION 6 STATISTICAL ANALYSIS



STATISTICAL ANALYSIS - SECOND SEMI-ANNUAL 2023 MONITORING

Statistical analysis is used as an additional method for the detection of leakage from the surface impoundments. The statistical methods used for this program are those specified in the RWQCB Waste Discharge Requirements (WDR) and Monitoring and Reporting Programs (MRPs) of Order Number R7-2002-0012. Statistical analysis of groundwater quality data is based on intra-well rather than inter-well comparisons. The following section presents the technical approach and results of the statistical analysis for the Second Semi-Annual 2023 sampling event and the intra-well statistical analysis.

APPROACH AND RESULTS

The Upper Tolerance Limit (UTL) is recalculated for each well based on historical data. Concentrations from subsequent quarterly groundwater samples collected from each well are compared to the corresponding UTLs. An UTL was calculated for each of the four groundwater monitoring wells sampled during the third and fourth quarters of 2023. Calculations of UTLs are presented in Table 6-1.

As shown in Table 6-2, there was an UTL exceedance for chloride in the water sample collected from well MW-4 during the third quarter 2023 sampling event, but was not exceeded for chloride during the fourth quarter sampling event. Based on evaluation of the raw data, the UTL exceedance was determined not to be caused by rounding of the laboratory results. The higher chloride concentration reported at MW-4 during the third quarter 2023 is consistent with those reported in the first and second quarter 2023 sample results.

As described in the first semi-annual 2023 monitoring report, the quarterly groundwater elevation and flow interpretations since first quarter have shown groundwater flow ranging from north to south to northwest to southeast beneath the site, with MW-4 as generally the most upgradient-most well at the site during that time. As such, it is likely that the higher reported concentrations recently observed at MW-4 are attributed to groundwater movement from areas north to northwest of the site flowing onto (beneath) the site and not attributed to operations at the facility. Based on the foregoing, the groundwater concentrations at MW-4 wells will continue to be evaluated and reassessed during the next quarterly groundwater sampling event.



Table 6-1: Calculation for Mean and Standard Deviation (Total Dissolved Solids)

							or Mean and Sta	indard Devia	tion (Total Dissolve					_	
	<u>MV</u>				MW				<u>MV</u>				MV		
Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)
0	3Q-02	1170	7.0648	0	3Q-02	1180	7.0733	0	3Q-02	1120	7.0211				
270	2Q-03	1160	7.0562	270	2Q-03	1050	6.9565	270	2Q-03	947	6.8533				
450	1Q-04	1100	7.0031	450	1Q-04	1000	6.9078	450	1Q-04	1000	6.9078				
540	2Q-04	1200	7.0901	540	2Q-04	960	6.8669	540	2Q-04	1100	7.0031				
630	3Q-04	1100	7.0031	630	3Q-04	1000	6.9078	630	3Q-04	1000	6.9078				
720	4Q-04	1100	7.0031	720	4Q-04	1000	6.9078	720	4Q-04	1100	7.0031				
810	1Q-05	1100	7.0031	810	1Q-05	1100	7.0031	810	1Q-05	1100	7.0031				
900	2Q-05	1170	7.0648	900	2Q-05	1090	6.9939	900	2Q-05	1080	6.9847				
990	3Q-05	1080	6.9847	990	3Q-05	985	6.8926	990	3Q-05	1000	6.9078				
1080	4Q-05	1100	7.0031	1080	4Q-05	1000	6.9078	1080	4Q-05	1200	7.0901				
1170	1Q-06	1070	6.9754	1170	1Q-06	999	6.9068	1170	1Q-06	1040	6.9470				
1260	2Q-06	1100	7.0031	1260	2Q-06	1000	6.9078	1260	2Q-06	1100	7.0031				
1350	3Q-06	1100	7.0031	1350	3Q-06	1100	7.0031	1350	3Q-06	1100	7.0031				
1440	4Q-06	1100	7.0031	1440	4Q-06	1000	6.9078	1440	4Q-06	1100	7.0031				
1530	1Q-07	1100	7.0031	1530	1Q-07	1000	6.9078	1530	1Q-07	1100	7.0031				
1620	2Q-07	1100	7.0031	1620	2Q-07	1100	7.0031	1620	2Q-07	1200	7.0901				
	RA-07	1200	7.0901		RA-07	1100	7.0031		RA-07	1200	7.0901				
1710	3Q-07	1100	7.0031	1710	3Q-07	1100	7.0031	1710	3Q-07	1100	7.0031				
1800	4Q-07	1200	7.0901	1800	4Q-07	1100	7.0031	1800	4Q-07	1500	7.3132				
1867	12/7/2007	1200	7.0901	1867	12/7/2007	1100	7.0031	1867	12/7/2007	1400	7.2442				
1890	1Q-08	1200	7.0901	1890	1Q-08	1100	7.0031	1890	1Q-08	1300	7.1701				
1966	2Q-08	1200	7.0901	1966	2Q-08	1100	7.0031	1099	2Q-08	1700	7.4384				
2068	3Q-08	1100	7.0031	2068	3Q-08	1100	7.0031	2068	3Q-08	1600	7.3778				
		1100	7.0031	2178		1100	7.0031	2178		1400	7.2442				
2349	1Q-09	1100	7.0031	2349	1Q-09	1100	7.0031	2349	1Q-09	1200	7.0901				
				2473											
				2571								0	3Q-09	1200	7.0901
								2605				34			7.0031
2652	4Q-09	1200	7.0901	2652	4Q-09	1100	7.0031			1500	7.3132	81	4Q-09	1200	7.0901
				2718											7.0901
2800	2Q-10	1200	7.0901	2800	2Q-10	1100	7.0031					198	2Q-10	1200	7.0901
															7.0901
															7.0031
3014	4Q-10	1200	7.0901	3014	4Q-10	1100	7.0031					412	4Q-10	1200	7.0901
															7.0901
															7.0031
															7.0031
															7.0901
															7.0031
2178 2349 2473 2571 2652 2718 2800 2828 2895 3014 3086 3179 3286 3372 3472	4Q-08 1Q-09 2Q-09 3Q-09 4Q-09 1Q-10 6/18/2010 3Q-10 4Q-10 1Q-11 2Q-11 3Q-11 4Q-11 1Q-11	1100 1100 1200 1100 1200 1200 1200 1200		2178 2349 2473 2571 2652	4Q-08 1Q-09 2Q-09 3Q-09 4Q-09 1Q-10 6/18/2010 3Q-10 4Q-10 1Q-11 2Q-11 3Q-11 4Q-11 1Q-11	1100 1100 1100 1100 1100 1100 1100 110	7.0031 7.0031 7.0031 7.0031 7.0031 7.0031 7.0031 7.0031 7.0031 7.0031 7.0031 7.0031 7.0031 7.0031 7.0031		4Q-08 1Q-09 2Q-09 3Q-09 10/30/09 4Q-09 1Q-10 4/2/2010 2Q-10 6/18/2010 3Q-10 9/20/2010R 4Q-10 1Q-11 2Q-11 3Q-11 4Q-11 1Q-11	1400 1200 1100 1400 1300 1500 1800 2300 2400 2500 2200 1500 1600 1800 1500		0 34 81 116 198 226 293 412 576 669 776 862 962	3Q-09 10/30/09 4Q-09 1Q-10 2Q-10 6/18/2010 3Q-10 4Q-10 1Q-11 2Q-11 3Q-11 4Q-11 1Q-11	1200 1100 1200 1200 1200 1100 1200 1100 1100 1200 1100	7 7 7 7 7 7



Table 6-1: Calculation for Mean and Standard Deviation (Total Dissolved Solids)

	Table 6-1: Calculation for Mean and Standard Deviation (Total Dissolved Solids)								2007						
	<u>MW</u>				<u>MV</u>				<u>M\</u>				<u>M\</u>		
Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)
3572	2Q-12	1100	7.0031	3572	2Q-12	1100	7.0031	3572	2Q-12	1400	7.2442	1062	2Q-12	1100	7.0031
3638	3Q-12	1200	7.0901	3638	3Q-12	1100	7.0031	3638	3Q-12	1200	7.0901	1128	3Q-12	1100	7.0031
3741	4Q-12	1200	7.0901	3741	4Q-12	1100	7.0031	3741	4Q-12	1100	7.0031	1231	4Q-12	1100	7.0031
3840	1Q-13	1100	7.0031	3840	1Q-13	1000	6.9078	3840	1Q-13	1100	7.0031	1330	1Q-13	1000	6.9078
3904	2Q-13	1200	7.0901	3904	2Q-13	1100	7.0031	3904	2Q-13	1200	7.0901	1394	2Q-13	1100	7.0031
4013	3Q-13	1200	7.0901	4013	3Q-13	1100	7.0031	4013	3Q-13	1000	6.9078	1507	3Q-13	1100	7.0031
4088	4Q-13	1200	7.0901	4088	4Q-13	1100	7.0031	4088	4Q-13	1100	7.0031	1583	4Q-13	1100	7.0031
4202	1Q-14	1200	7.0901	4202	1Q-14	1100	7.0031	4202	1Q-14	1100	7.0031	1697	1Q-14	1100	7.0031
4316	2Q-14	1200	7.0901	4316	2Q-14	1100	7.0031	4316	2Q-14	1100	7.0031	1811	2Q-14	1100	7.0031
4395	3Q-14	1200	7.0901	4395	3Q-14	1100	7.0031	4395	3Q-14	1100	7.0031	1890	3Q-14	1100	7.0031
4472	4Q-14	1200	7.0901	4472	4Q-14	1100	7.0031	4472	4Q-14	1000	6.9078	1967	4Q-14	1100	7.0031
4579	1Q-15	1200	7.0901	4579	1Q-15	1100	7.0031	4579	1Q-15	970	6.8773	2074	1Q-15	1000	6.9078
4765	2Q-15	1200	7.0901	4765	2Q-15	1100	7.0031	4765	2Q-15	1000	6.9078	2260	2Q-15	1100	7.0031
4848	3Q-15	1300	7.1701	4848	3Q-15	1100	7.0031	4848	3Q-15	1000	6.9078	2343	3Q-15	1100	7.0031
4938	4Q-15	1200	7.0901	4938	4Q-15	1100	7.0031	4938	4Q-15	1000	6.9078	2433	4Q-15	1100	7.0031
5055	1Q-16	1200	7.0901	5055	1Q-16	1100	7.0031	5055	1Q-16	1000	6.9078	2550	1Q-16	1100	7.0031
5122	2Q-16	1200	7.0901	5122	2Q-16	1100	7.0031	5122	2Q-16	1000	6.9078	2617	2Q-16	1100	7.0031
5213	3Q-16	1300	7.1701	5213	3Q-16	1100	7.0031	5213	3Q-16	1000	6.9078	2708	3Q-16	1100	7.0031
5305	4Q-16	1100	7.0031	5305	4Q-16	1100	7.0031	5305	4Q-16	920	6.8244	2800	4Q-16	1100	7.0031
5397	1Q-17	1300	7.1701	5397	1Q-17	1100	7.0031	5397	1Q-17	980	6.8876	2892	1Q-17	1100	7.0031
5487	2Q-17	1200	7.0901	5487	2Q-17	1100	7.0031	5487	2Q-17	1000	6.9078	2982	2Q-17	1100	7.0031
5563	3Q-17	1200	7.0901	5563	3Q-17	1100	7.0031	5563	3Q-17	970	6.8773	3058	3Q-17	1200	7.0901
5672	4Q-17	1300	7.1701	5672	4Q-17	1100	7.0031	5672	4Q-17	950	6.8565	3167	4Q-17	1200	7.0901
5782	1Q-18	1200	7.0901	5782	1Q-18	1100	7.0031	5782	1Q-18	1100	7.0031	3277	1Q-18	1200	7.0901
5850	2Q-18	1200	7.0901	5850	2Q-18	1100	7.0031	5850	2Q-18	1100	7.0031	3345	2Q-18	1200	7.0901
5960	3Q-18	1300	7.1701	5960	3Q-18	1100	7.0031	5960	3Q-18	1100	7.0031	3455	3Q-18	1100	7.0031
6007	10/30/2018	1200	7.0901												
6041	4Q-18	1200	7.0901	6041	4Q-18	1100	7.0031	6041	4Q-18	1100	7.0031	3536	4Q-18	1100	7.0031
6136	1Q-19	1200	7.0901	6135	1Q-19	1100	7.0031	6135	1Q-19	1200	7.0901	3631	1Q-19	1000	6.9078
6233	2Q-19	1200	7.0901	6233	2Q-19	1100	7.0031	6233	2Q-19	1100	7.0031	3728	2Q-19	1100	7.0031
6330	3Q-19	1300	7.1701	6330	3Q-19	1100	7.0031	6330	3Q-19	1100	7.0031	3825	3Q-19	1100	7.0031
6311	4Q-19	1300	7.1701	6311	4Q-19	1100	7.0031	6311	4Q-19	1200	7.0901	3806	4Q-19	1100	7.0031
6417	1Q-20	1200	7.0901	6417	1Q-20	1100	7.0031	6417	1Q-20	1300	7.1701	3912	1Q-20	1100	7.0031
6494	2Q-20	1300	7.1701	6494	2Q-20	1100	7.0031	6494	2Q-20	1300	7.1701	3989	2Q-20	1100	7.0031
6606	3Q-20	1300	7.1701	6606	3Q-20	1200	7.0901	6606	3Q-20	1300	7.1701	4101	3Q-20	1200	7.0901
6678	4Q-20	1200	7.0901	6678	4Q-20	1200	7.0901	6678	4Q-20	1300	7.1701	4173	4Q-20	1100	7.0031
6769	1Q-21	1200	7.0901	6769	1Q-21	1100	7.0031	6769	1Q-21	1200	7.0901	4264	1Q-21	980	6.8876
6851	2Q-21	1300	7.1701	6851	2Q-21	1100	7.0031	6851	2Q-21	1200	7.0901	4346	2Q-21	1100	7.0031
7033	3Q-21	1300	7.1701	7033	3Q-21	1100	7.0031	7033	3Q-21	1000	6.9078	4528	3Q-21	1100	7.0031
7131	4Q-21	1100	7.0031	7131	4Q-21	1000	6.9078	7131	4Q-21	1100	7.0031	4626	4Q-21	990	6.8977
7223	1Q-22	1200	7.0901	7223	1Q-22	1100	7.0031	7223	1Q-22	1100	7.0031	4718	1Q-22	1100	7.0031



Table 6-1: Calculation for Mean and Standard Deviation (Total Dissolved Solids)

		B)A/A				-1: Calculation for	wean and St	andard Deviatio						AVA/A	
	_	<u>/W1</u>	. (=>0)		_	MW2	. (TDO)			MW3	. (TDO)			<u>1W4</u>	. (=>0)
Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)	Days	Date	TDS	In(TDS)
7298	2Q-22	1200	7.0901	7298	2Q-22	1100	7.0031	7298	2Q-22	1100	7.0031	4793	2Q-22	1100	7.0031
7388	3Q-22	1300	7.1701	7388	3Q-22	1100	7.0031	7388	3Q-22	1200	7.0901	4883	3Q-22	1100	7.0031
7480	4Q-22	1300	7.1701	7480	4Q-22	1200	7.0901	7480	4Q-22	1300	7.1701	4975	4Q-22	1400	7.2442
7582	1Q-23	1300	7.1701	7582	1Q-23	1100	7.0031	7582	1Q-23	1200	7.0901	5077	1Q-23	1300	7.1701
7670	2Q-23	1200	7.0901	7670	2Q-23	1100	7.0031	7670	2Q-23	1300	7.1701	5165	2Q-23	1300	7.1701
7785	3Q-23	1300	7.1701	7785	3Q-23	1100	7.0031	7785	3Q-23	1300	7.1701	5280	3Q-23	1200	7.0901
7877	4Q-23	1300	7.1701	7877	4Q-23	1100	7.0031	7877	4Q-23	1300	7.1701	5372	4Q-23	1200	7.0901
Standard Dev	viation =	67.8424	0.0566	Standard Devi	ation =	39.4763	0.0418	Standard Devi	ation =	326.3482	0.2169	Standard Devi	iation =	74.7899	0.0623
Mean =		1187.3494	7.0779	Mean =		1088.5854	6.9918	Mean =		1247.9647	7.1034	Mean =		1127.8333	7.0212
n =		83	83	n =		82	82	n =		85	85	n =		60	57
(t{n-1, 0.95})	=	1.663	1.663	$(t{n-1, 0.95}) =$		1.664	1.664	$(t{n-1, 0.95}) =$:	1.663	1.663	(t{n-1, 0.95}) =	=	1.671	1.671
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.009
$k = t(1 + 1/n)^{\frac{1}{2}}$	¹ / ₂ =		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.674	$k = t(1 + 1/n)^{1/2}$	=		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.686
UTL = Mean ·	+ St.Dev.*k =		7.1726	UTL = Mean +	St.Dev.*k =		7.0617	UTL = Mean +	St.Dev.*k =		7.4661	UTL = Mean +	St.Dev.*k =		7.1262
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration	Significant?		No	Concentration	Significant?		Yes
Standard Dev	viation =	68.2813	0.0563	Standard Devi	ation =	44.3752	0.0415	Standard Devi	ation =	319.6070	0.2157	Standard Devi	iation =	74.8382	0.0648
Mean =		1190.1163	7.0780	Mean =		1088.9882	6.9919	Mean =		1248.5698	7.1042	Mean =		1125.3448	7.0237
n =		84	84	n =		83	83	n =		86	86	n =		58	58
(t{n-1, 0.95})	=	1.663	1.663	(t{n-1, 0.95}) =		1.663	1.663	$(t{n-1, 0.95}) =$:	1.663	1.663	(t{n-1, 0.95}) =	=	1.672	1.672
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.009
$k = t(1 + 1/n)^3$	¹ / ₂ =		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.686
UTL = Mean	+ St.Dev.*k =		7.1722	UTL = Mean +	St.Dev.*k =		7.0614	UTL = Mean +	St.Dev.*k =		7.4649	UTL = Mean +	St.Dev.*k =		7.1330
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration	Significant?		No	Concentration	Significant?		Yes
Standard Dev	viation =	67.6196	0.0569	Standard Devi	ation =	44.1242	0.0413	Standard Devi	ation =	317.7912	0.2146	Standard Devi	iation =	74.8242	0.0648
Mean =		1188.8235	7.0791	Mean =		1088.8571	6.9921	Mean =		1249.1609	7.1049	Mean =		1126.6102	7.0249
n =		85	85	n =		84	84	n =		87	87	n =		59	59
(t{n-1, 0.95})	=	1.663	1.663	(t{n-1, 0.95}) =		1.663	1.663	(t{n-1, 0.95}) =	:	1.663	1.663	(t{n-1, 0.95}) =	=	1.671	1.671
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.008
$k = t(1 + 1/n)^{\frac{1}{2}}$	¹ / ₂ =		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.685
UTL = Mean	+ St.Dev.*k =		7.1742	UTL = Mean +	St.Dev.*k =		7.0611	UTL = Mean +	St.Dev.*k =		7.4638	UTL = Mean +	St.Dev.*k =		7.1341
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration	Significant?		No	Concentration	Significant?		No
Standard Dev	viation =	68.2813	0.0574	Standard Devi	ation =	43.8774	0.0411	Standard Devi	ation =	316.0060	0.2134	Standard Devi	iation =	74.7899	0.0648
Mean =		1190.1163	7.0802	Mean =		1088.9882	6.9922	Mean =		1249.7386	7.1057	Mean =		1127.8333	7.0260
n =		86	86	n =		85	85	n =		88	88	n =		60	60
(t{n-1, 0.95})	=	1.663	1.663	$(t\{n-1, 0.95\}) =$		1.663	1.663	$(t\{n-1, 0.95\}) =$:	1.662	1.662	(t{n-1, 0.95}) =	=	1.671	1.671
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.008
$k = t(1 + 1/n)^3$	^{1/2} =		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.673	$k = t(1 + 1/n)^{1/2}$	=		1.671	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.685
UTL = Mean			7.1761	UTL = Mean +			7.0609	UTL = Mean +			7.4624	UTL = Mean +			7.1351
Concentration			No	Concentration			No	Concentration			No	Concentration			No



Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Sulfate)

							alculation for Mo	ean and Stand	dard Deviation (Sulfa	ate)					
	MW [*]	<u>1</u>			<u>MW</u>	<u>2</u>			MW3	<u>3</u>			MW	<u>4</u>	
Days	Date	SO ₄	In(SO₄)	Days	Date	SO ₄	In(SO₄)	Days	Date	SO ₄	In(SO ₄)	Days	Date	SO ₄	In(SO ₄)
0	3Q-02	348	5.8522	0	3Q-02	419	6.0379	0	3Q-02	403	5.9989				
270	2Q-03	409	6.0137	270	2Q-03	427	6.0568	270	2Q-03	404	6.0014				
450	1Q-04	370	5.9135	450	1Q-04	360	5.8861	450	1Q-04	340	5.8289				
540	2Q-04	330	5.7991	540	2Q-04	340	5.8289	540	2Q-04	330	5.7991				
630	3Q-04	360	5.8861	630	3Q-04	360	5.8861	630	3Q-04	350	5.8579				
720	4Q-04	380	5.9402	720	4Q-04	370	5.9135	720	4Q-04	380	5.9402				
810	1Q-05	350	5.8579	810	1Q-05	360	5.8861	810	1Q-05	340	5.8289				
900	2Q-05	326	5.7869	900	2Q-05	331	5.8021	900	2Q-05	303	5.7137				
990	3Q-05	451	6.1115	990	3Q-05	450	6.1092	990	3Q-05	440	6.0868				
1080	4Q-05	360	5.8861	1080	4Q-05	360	5.8861	1080	4Q-05	330	5.7991				
1170	1Q-06	379	5.9375	1170	1Q-06	369	5.9108	1170	1Q-06	358	5.8805				
1260	2Q-06	390	5.9661	1260	2Q-06	370	5.9135	1260	2Q-06	370	5.9135				
1350	3Q-06	370	5.9135	1350	3Q-06	400	5.9915	1350	3Q-06	380	5.9402				
1440	4Q-06	370	5.9135	1440	4Q-06	380	5.9402	1440	4Q-06	380	5.9402				
1530	1Q-07	380	5.9402	1530	1Q-07	380	5.9402	1530	1Q-07	360	5.8861				
1620	2Q-07	460	6.1312	1620	2Q-07	470	6.1527	1620	2Q-07	450	6.1092				
	RA-07	385	5.9532		RA-07	365	5.8999		RA-07	360	5.8861				
1710	3Q-07	370	5.9135	1710	3Q-07	380	5.9402	1710	3Q-07	380	5.9402				
1800	4Q-07	360	5.8861	1800	4Q-07	360	5.8861	1800	4Q-07	420	6.0403				
1867	12/7/2007	380	5.9402	1867	12/7/2007	360	5.8861	1867	12/7/2007	385	5.9532				
1890	1Q-08	380	5.9402	1890	1Q-08	380	5.9402	1890	1Q-08	390	5.9661				
1966	2Q-08	380	5.9402	1966	2Q-08	370	5.9135	1966	2Q-08	480	6.1738				
2068	3Q-08	390	5.9661	2068	3Q-08	400	5.9915	2068	3Q-08	480	6.1738				
2178	4Q-08	400	5.9915	2178	4Q-08	410	6.0162	2178	4Q-08	460	6.1312				
2349	1Q-09	380	5.9402	2349	1Q-09	390	5.9661	2349	1Q-09	360	5.8861				
2473	2Q-09	390	5.9661	2473	2Q-09	390	5.9661	2473	2Q-09	340	5.8289				
2571	3Q-09	370	5.9135	2571	3Q-09	350	5.8579	2571	3Q-09	560	6.3279	0	3Q-09	380	5.9402
								2618	10/30/09	430	6.0638	34	10/30/09	350	5.8579
2652	4Q-09	370	5.9135	2652	4Q-09	380	5.9402	2652	4Q-09	500	6.2146	81	4Q-09	350	5.8579
2718	1Q-10	370	5.9135	2718	1Q-10	400	5.9915	2718	1Q-10	610	6.4135	116	1Q-10	370	5.9135
								2753	4/2/2010	620	6.4297				
2800	2Q-10	390	5.9661	2800	2Q-10	420	6.0403	2800	2Q-10	620	6.4297	198	2Q-10	380	5.9402
2828	6/18/2010	330	5.7991	2828	6/18/2010	360	5.8861	2828	6/18/2010	690	6.5367	226	6/18/2010	340	5.8289
2895	3Q-10	380	5.9402	2895	3Q-10	370	5.9135	2895	3Q-10	700	6.5511	293	3Q-10	370	5.9135
								2922	9/20/2010R	750	6.6201				
3014	4Q-10	340	5.8289	3014	4Q-10	380	5.9402	3014	4Q-10	510	6.2344	412	4Q-10	380	5.9402
3086	1Q-11	360	5.8861	3086	1Q-11	370	5.9135	3086	1Q-11	490	6.1944	576	1Q-11	340	5.8289
3179	2Q-11	400	5.9915	3179	2Q-11	410	6.0162	3179	2Q-11	640	6.4615	669	2Q-11	370	5.9135
3286	3Q-11	380	5.9402	3286	3Q-11	410	6.0162	3286	3Q-11	510	6.2344	776	3Q-11	360	5.8861
3372	4Q-11	390	5.9661	3372	4Q-11	410	6.0162	3372	4Q-11	500	6.2146	862	4Q-11	370	5.9135



Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Sulfate)

							alculation for Me	ean and Standa	ard Deviation (Sulf						
	<u>MW1</u>				<u>MV</u>				<u>MW</u>					<u>W4</u>	
Days	Date	SO ₄	In(SO₄)	Days	Date	SO ₄	In(SO₄)	Days	Date	SO ₄	In(SO ₄)	Days	Date	SO ₄	In(SO ₄)
3472	1Q-12	340	5.8289	3472	1Q-12	360	5.8861	3472	1Q-12	510	6.2344	962	1Q-12	300	5.7038
3572	2Q-12	500	6.2146	3572	2Q-12	420	6.0403	3572	2Q-12	480	6.1738	1062	2Q-12	350	5.8579
3638	3Q-12	380	5.9402	3638	3Q-12	400	5.9915	3638	3Q-12	420	6.0403	1128	3Q-12	320	5.7683
3741	4Q-12	410	6.0162	3741	4Q-12	420	6.0403	3741	4Q-12	390	5.9661	1231	4Q-12	340	5.8289
3840	1Q-13	400	5.9915	3840	1Q-13	410	6.0162	3840	1Q-13	370	5.9135	1330	1Q-13	330	5.7991
3904	2Q-13	380	5.9402	3904	2Q-13	390	5.9661	3904	2Q-13	350	5.8579	1394	2Q-13	300	5.7038
4013	3Q-13	390	5.9661	4013	3Q-13	420	6.0403	4013	3Q-13	330	5.7991	1507	3Q-13	310	5.7366
4088	4Q-13	420	6.0403	4088	4Q-13	410	6.0162	4088	4Q-13	340	5.8289	1583	4Q-13	310	5.7366
4202	1Q-14	420	6.0403	4202	1Q-14	440	6.0868	4202	1Q-14	450	6.1092	1697	1Q-14	330	5.7991
4316	2Q-14	410	6.0162	4316	2Q-14	480	6.1738	4316	2Q-14	400	5.9915	1811	2Q-14	360	5.8861
4395	3Q-14	440	6.0868	4395	3Q-14	410	6.0162	4395	3Q-14	370	5.9135	1890	3Q-14	310	5.7366
4472	4Q-14	340	5.8289	4472	4Q-14	360	5.8861	4472	4Q-14	290	5.6699	1967	4Q-14	270	5.5984
4579	1Q-15	390	5.9661	4579	1Q-15	360	5.8861	4579	1Q-15	290	5.6699	2074	1Q-15	270	5.5984
4765	2Q-15	370	5.9135	4765	2Q-15	360	5.8861	4765	2Q-15	280	5.6348	2260	2Q-15	270	5.5984
4848	3Q-15	430	6.0638	4848	3Q-15	410	6.0162	4848	3Q-15	330	5.7991	2343	3Q-15	320	5.7683
4938	4Q-15	410	6.0162	4938	4Q-15	410	6.0162	4938	4Q-15	330	5.7991	2433	4Q-15	320	5.7683
5055	1Q-16	370	5.9135	5055	1Q-16	380	5.9402	5055	1Q-16	340	5.8289	2550	1Q-16	310	5.7366
5122	2Q-16	390	5.9661	5122	2Q-16	420	6.0403	5122	2Q-16	330	5.7991	2617	2Q-16	310	5.7366
5213	3Q-16	420	6.0403	5213	3Q-16	390	5.9661	5213	3Q-16	300	5.7038	2708	3Q-16	310	5.7366
5305	4Q-16	400	5.9915	5305	4Q-16	420	6.0403	5305	4Q-16	330	5.7991	2800	4Q-16	360	5.8861
5397	1Q-17	450	6.1092	5397	1Q-17	400	5.9915	5397	1Q-17	310	5.7366	2892	1Q-17	340	5.8289
5487	2Q-17	440	6.0868	5487	2Q-17	400	5.9915	5487	2Q-17	330	5.7991	2982	2Q-17	340	5.8289
5563	3Q-17	430	6.0638	5563	3Q-17	400	5.9915	5563	3Q-17	310	5.7366	3058	3Q-17	330	5.7991
5672	4Q-17	400	5.9915	5672	4Q-17	380	5.9402	5672	4Q-17	290	5.6699	3167	4Q-17	310	5.7366
5782	1Q-18	390	5.9661	5782	1Q-18	400	5.9915	5782	1Q-18	390	5.9661	3277	1Q-18	340	5.8289
5850	2Q-18	390		5850	2Q-18	380		5850	2Q-18	360	5.8861	3345	2Q-18	310	5.7366
5960	3Q-18	430		5960	3Q-18	390		5960	3Q-18	380		3455	3Q-18	300	5.7038
6007	10/30/2018	410	6.0162												
6041	4Q-18	380	5.9402	6041	4Q-18	380	5.9402	6041	4Q-18	380	5.9402	3536	4Q-18	280	5.6348
6136	1Q-19	370	5.9135	6135	1Q-19	370	5.9135	6135	1Q-19		5.9661	3631	1Q-19	270	5.5984
6233	2Q-19	450	6.1092	6233	2Q-19	400	5.9915	6233			5.9915	3728	2Q-19	290	5.6699
6330	3Q-19		6.0868	6330	3Q-19	400	5.9915	6330			5.9661	3825	3Q-19	300	5.7038
														270	5.5984
														260	5.5607
															5.6348
															5.6348
															5.6348
															5.6348
															5.7038
															5.6348
															5.6348
5672 5782 5850 5960 6007 6041 6136	4Q-17 1Q-18 2Q-18 3Q-18 10/30/2018 4Q-18 1Q-19	400 390 390 430 410 380	5.9915 5.9661 5.9661 6.0638 6.0162 5.9402 5.9135	5672 5782 5850 5960 6041 6135	4Q-17 1Q-18 2Q-18 3Q-18 4Q-18 1Q-19	380 400 380 390 380 370	5.9402 5.9915 5.9402 5.9661 5.9402 5.9135	5672 5782 5850 5960 6041 6135	4Q-17 1Q-18	290 390	5.6699 5.9661 5.8861 5.9402 5.9402 5.9661	3167 3277 3345 3455 3536 3631	4Q-17 1Q-18 2Q-18 3Q-18 4Q-18 1Q-19	310 340 310 300 280 270 290 300	



Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Sulfate)

							culation for N	lean and Standar							
	<u>M\</u>				<u>M</u>	<u>W2</u>			<u>M</u>	IW3				<u>W4</u>	
Days	Date	SO ₄	In(SO₄)	Days	Date	SO ₄	In(SO₄)	Days	Date	SO ₄	In(SO₄)	Days	Date	SO ₄	In(SO ₄)
7223	1Q-22	420	6.0403	7223	1Q-22	400	5.9915	7223	1Q-22	380	5.9402	4718	1Q-22	300	5.7038
7298	2Q-22	450	6.1092	7298	2Q-22	390	5.9661	7298	2Q-22	380	5.9402	4793	2Q-22	290	5.6699
7388	3Q-22	450	6.1092	7388	3Q-22	390	5.9661	7388	3Q-22	390	5.9661	4883	3Q-22	310	5.7366
7480	4Q-22	450	6.1092	7480	4Q-22	380	5.9402	7480	4Q-22	400	5.9915	4975	4Q-22	380	5.9402
7582	1Q-23	440	6.0868	7582	1Q-23	380	5.9402	7582	1Q-23	410	6.0162	5077	1Q-23	390	5.9661
7670	2Q-23	410	6.0162	7670	2Q-23	380	5.9402	7670	2Q-23	390	5.9661	5165	2Q-23	370	5.9135
7785	3Q-23	470	6.1527	7785	3Q-23	410	6.0162	7785	3Q-23	450	6.1092	5280	3Q-23	360	5.8861
7877	4Q-23	430	6.0638	7877	4Q-23	390	5.9661	7877	4Q-23	430	6.0638	5372	4Q-23	320	5.7683
Standard Dev	viation =	40.6208	0.1113	Standard Dev	iation =	25.5520	0.0663	Standard Deviat	ion =	98.3681	0.2112	Standard Dev	iation =	35.8512	0.1115
Mean =		395.2093	5.9699	Mean =		390.0122	5.9640	Mean =		410.6235	5.9942	Mean =		321.6667	5.7628
n =		83	83	n =		82	82	n =		85	85	n =		57	57
(t{n-1, 0.95}) =	=	1.663	1.663	(t{n-1, 0.95}) =	=	1.664	1.664	$(t{n-1, 0.95}) =$		1.663	1.663	(t{n-1, 0.95}) =	=	1.672	1.672
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.009
$k = t(1 + 1/n)^{1/2}$			1.673	$k = t(1 + 1/n)^{1/2}$			1.674	$k = t(1 + 1/n)^{1/2} =$			1.673	$k = t(1 + 1/n)^{1/2}$			1.687
UTL = Mean -			6.1560	UTL = Mean -			6.0750	UTL = Mean + S			6.3474	UTL = Mean -			5.9508
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration S	ignificant?		No	Concentration	Significant?		Yes
Standard Dev	viation =	40.0763	0.1107	Standard Dev	iation =	26.1925	0.0659	Standard Deviat	ion =	95.8400	0.2099	Standard Dev	iation =	36.1134	0.1123
Mean =		393.9048	5.9704	Mean =		389.8916	5.9637	Mean =		410.3837	5.9939	Mean =		321.0345	5.7653
n =		84	84	n =		83	83	n =		86	86	n =		58	58
(t{n-1, 0.95}) =	=	1.663	1.663	(t{n-1, 0.95}) =	=	1.663	1.663	$(t{n-1, 0.95}) =$		1.663	1.663	(t{n-1, 0.95}) =	=	1.672	1.672
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.009
$k = t(1 + 1/n)^{1/2}$	^{/2} =		1.673	$k = t(1 + 1/n)^{1/2}$	² =		1.673	$k = t(1 + 1/n)^{1/2} =$			1.673	$k = t(1 + 1/n)^{1/2}$	· =		1.686
UTL = Mean -	+ St.Dev.*k =		6.1556	UTL = Mean -	St.Dev.*k =		6.0740	UTL = Mean + S	St.Dev.*k =		6.3450	UTL = Mean -	St.Dev.*k =		5.9547
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration S	ignificant?		No	Concentration	Significant?		No
Standard Dev	viation =	40.6831	0.1118	Standard Dev	iation =	26.1266	0.0658	Standard Deviat	ion =	95.3757	0.2091	Standard Dev	iation =	36.1583	0.1124
Mean =		394.8000	5.9726	Mean =		390.1310	5.9643	Mean =		410.8391	5.9952	Mean =		321.6949	5.7674
n =		85	85	n =		84	84	n =		87	87	n =		59	59
(t{n-1, 0.95}) =	=	1.663	1.663	(t{n-1, 0.95}) =	=	1.663	1.663	(t{n-1, 0.95}) =		1.663	1.663	(t{n-1, 0.95}) =	=	1.671	1.671
$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.008
$k = t(1 + 1/n)^{1/2}$	^{/2} =		1.673	$k = t(1 + 1/n)^{1/2}$	² =		1.673	$k = t(1 + 1/n)^{1/2} =$			1.673	$k = t(1 + 1/n)^{1/2}$	=		1.685
UTL = Mean -	+ St.Dev.*k =		6.1596	UTL = Mean -	St.Dev.*k =		6.0744	UTL = Mean + S	St.Dev.*k =		6.3449	UTL = Mean -	St.Dev.*k =		5.9568
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration S	ignificant?		No	Concentration	Significant?		No
Standard Dev	viation =	40.6208	0.1116	Standard Dev	iation =	25.9706	0.0654	Standard Deviat	ion =	94.8480	0.2080	Standard Dev	iation =	35.8512	0.1114
Mean =		395.2093	5.9736	Mean =		390.1294	5.9643	Mean =		411.0568	5.9960	Mean =		321.6667	5.7674
n =		86	86	n =		85	85	n =		88	88	n =		60	60
(t{n-1, 0.95}) =	=	1.663	1.663	(t{n-1, 0.95}) =	=	1.663	1.663	(t{n-1, 0.95}) =		1.662	1.662	(t{n-1, 0.95}) =	=	1.671	1.671
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.008
$k = t(1 + 1/n)^{1/2}$	^{/2} =		1.673	$k = t(1 + 1/n)^{1/2}$	· =		1.673	$k = t(1 + 1/n)^{\frac{1}{2}} =$			1.671	$k = t(1 + 1/n)^{1/2}$	· =		1.685
UTL = Mean -	+ St.Dev.*k =		6.1603	UTL = Mean -	⊦ St.Dev.*k =		6.0738	UTL = Mean + S	St.Dev.*k =		6.3436	UTL = Mean -	St.Dev.*k =		5.9552
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration S	ignificant?		No	Concentration	Significant?		No



					Table 6-1	l (Cont.): Cald	culation for Me	an and Stand	ard Deviation (Chlori	de)					
	MW1	<u>1</u>			MW2	2			MW3				MW4		
Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	Date	CI	In(CI)
0	3Q-02	294	5.6836	0	3Q-02	225	5.4161	0	3Q-02	202	5.3083				
270	2Q-03	272	5.6058	270	2Q-03	209	5.3423		2Q-03	117	4.7622				
450	1Q-04	200	5.2983	450	1Q-04	180	5.1930		1Q-04	110	4.7005				
540	2Q-04	220	5.3936	540	2Q-04	190	5.2470 5.1930 5.1930	,	2Q-04	120	4.7875				
630	3Q-04	200	5.2983	630	3Q-04	180	5.1930 ²⁷ 0)	3Q-04	120	4.7875				
720	4Q-04	210	5.3471	720	4Q-04	180	5.1930 5.1930 5.1930)	4Q-04	210	5.3471				
810	1Q-05	230	5.4381	810	1Q-05	180	5.1930)	1Q-05	130	4.8675				
900	2Q-05	182	5.2040	900	2Q-05	158	5.0626 5.3519)	2Q-05	109	4.6913				
990	3Q-05	255	5.5413	990	3Q-05	211	5.3519)	3Q-05	156	5.0499				
1080	4Q-05	230	5.4381	1080	4Q-05	180	5.1930)	4Q-05	130	4.8675				
1170	1Q-06	219	5.3891	1170	1Q-06	189	5.2417))	1Q-06	149	5.0039				
1260	2Q-06	210	5.3471	1260	2Q-06	190	5.2417 990 5.2470 108	, 30	2Q-06	160	5.0752				
1350	3Q-06	210	5.3471	1350	3Q-06	190	5.2470	' O	3Q-06	180	5.1930				
1440	4Q-06	210	5.3471	1440	4Q-06	190	5.24/0	:O	4Q-06	210	5.3471				
1530	1Q-07	230	5.4381	1530	1Q-07	190	5.2470 ₁₃	:0	1Q-07	200	5.2983				
1620	2Q-07	210	5.3471	1620	2Q-07	210	5.34/1	ın	2Q-07	230	5.4381				
	RA-07	220	5.3936		RA-07	205	5.3230 ₄₅ 3	20	RA-07	240	5.4806				
1710	3Q-07	250	5.5215		3Q-07	190	5.2470 ₁₆₂	20	3Q-07	190	5.2470				
1800	4Q-07	230	5.4381	1800	4Q-07	180	5.1930		4Q-07	300	5.7038				
1867	12/7/2007	270	5.5984	1867	12/7/2007	190	5.2470 ₁₇₁	0 1867	12/7/2007	270	5.5984				
1890	1Q-08	250	5.5215		1Q-08	190	5.2470 ₁₈₀	00	1Q-08	280	5.6348				
1966	2Q-08	230	5.4381	1966	2Q-08	200	5.2983		2Q-08	350	5.8579				
2068	3Q-08	250	5.5215 ₁₈₉₀	2068	3Q-08	200	5.2983	90	3Q-08	400	5.9915				
2178	4Q-08	240	5.4806	2178	4Q-08	180	5.1930 ₄₀ 4	·c	4Q-08	320	5.7683				
2349	1Q-09	230	5.4381	2349	1Q-09	190	5.2470 ₂₀₄	:Ω	1Q-09	230	5.4381				
2473	2Q-09	230	5.4381	2473	2Q-09	170	5.1358 ₂₁₇	'8	2Q-09	220	5.3936				
2571	3Q-09	230	5.4381	2571	3Q-09	220	5.3936 ₂₃₄	_{.9} 2571	3Q-09	370	5.9135	0	3Q-09	270	5.5984
							247	2610	10/30/09	220	5.3936	34	10/30/09	250	5.5215
2652	4Q-09	220	5.3936	2652	4Q-09	170	5.1358	2652	4Q-09	250	5.5215	81	4Q-09	250	5.5215
2718	1Q-10	230	5.4381	2718	1Q-10	170	5.1358	2718	1Q-10	360	5.8861	116	1Q-10	260	5.5607
								2753	4/2/2010	400	5.9915				
2800	2Q-10	260	5.5607	2800	2Q-10	180	5.1930	2800	2Q-10	580	6.3630	198	2Q-10	280	5.6348
2828	6/18/2010	250	5.5215	2828	6/18/2010	170	5.1358	2828	6/18/2010	660	6.4922	226	6/18/2010	250	5.5215
2895	3Q-10	220	5.3936	2895	3Q-10	220	5.3936	2895	3Q-10	670	6.5073	293	3Q-10	260	5.5607
								2922	9/20/2010R	460	6.1312				
3014	4Q-10	220	5.3936	3014	4Q-10	160	5.0752	3014	4Q-10	200	5.2983	412	4Q-10	260	5.5607
3086	1Q-11	210	5.3471	3086	1Q-11	160	5.0752	3086	1Q-11	240	5.4806	576	1Q-11	250	5.5215
3179	2Q-11	200	5.2983	3179	2Q-11	160	5.0752	3179	2Q-11	340	5.8289	669	2Q-11	260	5.5607
3286	3Q-11	190	5.2470	3286	3Q-11	160	5.0752	3286	3Q-11	190	5.2470	776	3Q-11	250	5.5215
3372	4Q-11	230	5.4381	3372	4Q-11	170	5.1358	3372	4Q-11	180	5.1930	862	4Q-11	270	5.5984



Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Chloride)

							culation for Me	an and Standa	rd Deviation (Chlor						
	<u>MW1</u>				<u>MW</u>	_			<u>MW:</u>				<u>MV</u>		
Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	Date	CI	In(CI)
3472	1Q-12	210	5.3471	3472	1Q-12	160	5.0752	3472	1Q-12	220	5.3936	962	1Q-12	280	5.6348
3572	2Q-12	270	5.5984	3572	2Q-12	160	5.0752	3572	2Q-12	190	5.2470	1062	2Q-12	260	5.5607
3638	3Q-12	220	5.3936	3638	3Q-12	150	5.0106	3638	3Q-12	140	4.9416	1128	3Q-12	260	5.5607
3741	4Q-12	230	5.4381	3741	4Q-12	170	5.1358	3741	4Q-12	160	5.0752	1231	4Q-12	270	5.5984
3840	1Q-13	220	5.3936	3840	1Q-13	160	5.0752	3840	1Q-13	140	4.9416	1330	1Q-13	270	5.5984
3904	2Q-13	200	5.2983	3904	2Q-13	140	4.9416	3904	2Q-13	120	4.7875	1394	2Q-13	250	5.5215
4013	3Q-13	240	5.4806	4013	3Q-13	160	5.0752	4013	3Q-13	120	4.7875	1507	3Q-13	270	5.5984
4088	4Q-13	210	5.3471	4088	4Q-13	150	5.0106	4088	4Q-13	120	4.7875	1583	4Q-13	260	5.5607
4202	1Q-14	250	5.5215	4202	1Q-14	180	5.1930	4202	1Q-14	170	5.1358	1697	1Q-14	300	5.7038
4316	2Q-14	240	5.4806	4316	2Q-14	180	5.1930	4316	2Q-14	140	4.9416	1811	2Q-14	300	5.7038
4395	3Q-14	240	5.4806	4395	3Q-14	160	5.0752	4395	3Q-14	130	4.8675	1890	3Q-14	290	5.6699
4472	4Q-14	240	5.4806	4472	4Q-14	150	5.0106	4472	4Q-14	110	4.7005	1967	4Q-14	270	5.5984
4579	1Q-15	210	5.3471	4579	1Q-15	140	4.9416	4579	1Q-15	110	4.7005	2074	1Q-15	260	5.5607
4765	2Q-15	210	5.3471	4765	2Q-15	140	4.9416	4765	2Q-15	110	4.7005	2260	2Q-15	260	5.5607
4848	3Q-15	220	5.3936	4848	3Q-15	150	5.0106	4848	3Q-15	110	4.7005	2343	3Q-15	280	5.6348
4938	4Q-15	220	5.3936	4938	4Q-15	150	5.0106	4938	4Q-15	120	4.7875	2433	4Q-15	270	5.5984
5055	1Q-16	230	5.4381	5055	1Q-16	140	4.9416	5055	1Q-16	120	4.7875	2550	1Q-16	270	5.5984
5122	2Q-16	230	5.4381	5122	2Q-16	150	5.0106	5122	2Q-16	120	4.7875	2617	2Q-16	280	5.6348
5213	3Q-16	210	5.3471	5213	3Q-16	150	5.0106	5213	3Q-16	110	4.7005	2708	3Q-16	260	5.5607
5305	4Q-16	250	5.5215	5305	4Q-16	160	5.0752	5305	4Q-16	120	4.7875	2800	4Q-16	290	5.6699
5397	1Q-17	200	5.2983	5397	1Q-17	140	4.9416	5397	1Q-17	110	4.7005	2892	1Q-17	270	5.5984
5487	2Q-17	210	5.3471	5487	2Q-17	140	4.9416	5487	2Q-17	110	4.7005	2982	2Q-17	270	5.5984
5563	3Q-17	190	5.2470	5563	3Q-17	140	4.9416	5563	3Q-17	100	4.6052	3058	3Q-17	260	5.5607
5672	4Q-17	190	5.2470	5672	4Q-17	140	4.9416	5672	4Q-17	120	4.7875	3167	4Q-17	270	5.5984
5782	1Q-18	220	5.3936	5782	1Q-18	140	4.9416	5782	1Q-18	140	4.9416	3277	1Q-18	270	5.5984
5850	2Q-18	220	5.3936	5850	2Q-18	140	4.9416	5850	2Q-18	140	4.9416	3345	2Q-18	270	5.5984
5960	3Q-18	220	5.3936	5960	3Q-18	150	5.0106	5960	3Q-18	150	5.0106	3455	3Q-18	280	5.6348
6007	10/30/2018	200	5.2983												
6041	4Q-18	230	5.4381	6041	4Q-18	150	5.0106	6041	4Q-18	140	4.9416	3536	4Q-18	260	5.5607
6136	1Q-19	230	5.4381	6135	1Q-19	140	4.9416	6135	1Q-19	140	4.9416	3631	1Q-19	270	5.5984
6233	2Q-19	200	5.2983	6233	2Q-19	150	5.0106	6233	2Q-19	150	5.0106	3728	2Q-19	290	5.6699
6330	3Q-19	220	5.3936	6330	3Q-19	160	5.0752	6330	3Q-19	160	5.0752	3825	3Q-19	290	5.6699
6311	4Q-19	220	5.3936	6311	4Q-19	140	4.9416	6311	4Q-19	140	4.9416	3806	4Q-19	260	5.5607
6417	1Q-20	150	5.0106	6417	1Q-20	130	4.8675	6417	1Q-20	170	5.1358	3912	1Q-20	250	5.5215
6494	2Q-20	180	5.1930	6494	2Q-20	130	4.8675	6494	2Q-20	150	5.0106	3989	2Q-20	260	5.5607
6606	3Q-20	90	4.4998	6606	3Q-20	130	4.8675	6606	3Q-20	170	5.1358	4101	3Q-20	270	5.5984
6678	4Q-20	220	5.3936	6678	4Q-20	150	5.0106	6678	4Q-20	180	5.1930	4173	4Q-20	280	5.6348
6769	1Q-21	200	5.2983	6769	1Q-21	140	4.9416	6769	1Q-21	160	5.0752	4264	1Q-21	280	5.6348
6851	2Q-21	200	5.2983	6851	2Q-21	150	5.0106	6851	2Q-21	150	5.0106	4346	2Q-21	190	5.2470
7033	3Q-21	200	5.2983	7033	3Q-21	140	4.9416	7033	3Q-21	130	4.8675	4546 4528	3Q-21	280	5.6348
7131	4Q-21	130	4.8675	7131	4Q-21	130	4.8675	7131	4Q-21	170	5.1358	4626	4Q-21	270	5.5984



Table 6-1 (Cont.): Calculation for Mean and Standard Deviation (Chloride)

	MV	W1				6-1 (Cont.): Calc <u>W2</u>	diation for wi	ean and Standar	M\				M	N4	
Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	Date	CI	In(CI)	Days	Date	CI	In(CI)
7223	1Q-22	180	5.1930	7223	1Q-22	140	4.9416	7223	1Q-22	140	4.9416	4718	1Q-22	290	5.6699
7298	2Q-22	170	5.1358	7298	2Q-22	130	4.8675	7298	2Q-22	130	4.8675	4793	2Q-22	270	5.5984
7388	3Q-22	170	5.1358	7388	3Q-22	130	4.8675	7388	3Q-22	130	4.8675	4883	3Q-22	270	5.5984
7480	4Q-22	180	5.1930	7480	4Q-22	130	4.8675	7480	4Q-22	150	5.0106	4975	4Q-22	330	5.7991
7582	1Q-23	170	5.1358	7582	1Q-23	130	4.8675	7582	1Q-23	150	5.0106	5077	1Q-23	320	5.7683
7670	2Q-23	200	5.2983	7670	2Q-23	130	4.8675	7670	2Q-23	150	5.0106	5165	2Q-23	330	5.7991
7785	3Q-23	180	5.1930	7785	3Q-23	130	4.8675	7785	3Q-23	160	5.0752	5280	3Q-23	330	5.7991
7877	4Q-23	200	5.2983	7877	4Q-23	130	4.8675	7877	4Q-23	150	5.0106	5372	4Q-23	290	5.6699
Standard Dev	viation =	29.2262	0.1611	Standard Dev	iation =	23.8918	0.1490	Standard Devia	ation =	117.1764	0.4390	Standard Devi	ation =	22.0240	0.0746
Mean =		216.6506	5.3668	Mean =		164.3537	5.0909	Mean =		196.6235	5.1683	Mean =		272.1667	5.5951
n =		83	83	n =		82	82	n =		85	86	n =		60	58
(t{n-1, 0.95}) =	=	1.663	1.663	(t{n-1, 0.95}) =	=	1.664	1.664	$(t{n-1, 0.95}) =$		1.663	1.663	(t{n-1, 0.95}) =	:	1.671	1.671
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.009
$k = t(1 + 1/n)^{\frac{1}{2}}$	^{/2} =		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$. =		1.674	$k = t(1 + 1/n)^{1/2}$	=		1.673	$k = t(1 + 1/n)^{\frac{1}{2}}$	=		1.685
UTL = Mean +	+ St.Dev.*k =		5.6363	UTL = Mean +	St.Dev.*k =		5.3404	UTL = Mean +	St.Dev.*k =		5.9026	UTL = Mean +	· St.Dev.*k =		5.7208
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration	Significant?		No	Concentration	Significant?		Yes
Standard Dev	/iation =	30.2186	0.1603	Standard Dev	iation =	25.1116	0.1501	Standard Devia	ation =	114.4650	0.4367	Standard Devi	ation =	20.8827	0.0787
Mean =		216.4524	5.3660	Mean =		163.9398	5.0882	Mean =		196.0814	5.1665	Mean =		270.8621	5.5986
n =		84	84	n =		83	83	n =		86	86	n =		58	58
(t{n-1, 0.95}) =	=	1.663	1.663	(t{n-1, 0.95}) =	=	1.663	1.663	$(t{n-1, 0.95}) =$		1.663	1.663	(t{n-1, 0.95}) =	:	1.672	1.672
$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.009
$k = t(1 + 1/n)^{1/2}$	^{/2} =		1.673	$k = t(1 + 1/n)^{1/2}$	· =		1.673	$k = t(1 + 1/n)^{1/2}$	=		1.673	$k = t(1 + 1/n)^{1/2}$	=		1.686
UTL = Mean +	+ St.Dev.*k =		5.6341	UTL = Mean +	St.Dev.*k =		5.3394	UTL = Mean +	St.Dev.*k =		5.8970	UTL = Mean +	· St.Dev.*k =		5.7313
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration	Significant?		No	Concentration	Significant?		Yes
Standard Dev	viation =	30.2973	0.1604	Standard Dev	iation =	25.2331	0.1511	Standard Devia	ation =	113.8633	0.4343	Standard Devi	ation =	22.0872	0.0822
Mean =		216.0235	5.3639	Mean =		163.5357	5.0856	Mean =		195.6667	5.1654	Mean =		271.8644	5.6020
n =		85	85	n =		84	84	n =		87	87	n =		59	59
(t{n-1, 0.95}) =	=	1.663	1.663	(t{n-1, 0.95}) =	=	1.663	1.663	$(t{n-1, 0.95}) =$		1.663	1.663	(t{n-1, 0.95}) =	:	1.671	1.671
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.008
$k = t(1 + 1/n)^{1/2}$			1.673	$k = t(1 + 1/n)^{1/2}$			1.673	$k = t(1 + 1/n)^{1/2}$			1.673	$k = t(1 + 1/n)^{1/2}$			1.685
UTL = Mean +			5.6323	UTL = Mean +			5.3384	UTL = Mean +			5.8918	UTL = Mean +			5.7406
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration	Significant?		No	Concentration	Significant?		Yes
Standard Dev	/iation =	30.1681	0.1597	Standard Dev	iation =	25.3448	0.1521	Standard Devia	ation =	113.3116	0.4321	Standard Devi	ation =	22.0240	0.0820
Mean =		215.8372	5.3632	Mean =		163.1412	5.0830	Mean =		195.1477	5.1637	Mean =		272.1667	5.6032
n =		86	86	n =		85	85	n =		88	88	n =		60	60
(t{n-1, 0.95}) =	=	1.663	1.663	(t{n-1, 0.95}) =	=	1.663	1.663	$(t{n-1, 0.95}) =$		1.662	1.662	(t{n-1, 0.95}) =	:	1.671	1.671
$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{1/2} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.006	$(1 + 1/n)^{\frac{1}{2}} =$			1.008
$k = t(1 + 1/n)^{1/2}$			1.673	$k = t(1 + 1/n)^{1/2}$			1.673	$k = t(1 + 1/n)^{1/2}$			1.671	$k = t(1 + 1/n)^{1/2}$			1.685
UTL = Mean +	+ St.Dev.*k =		5.6302	UTL = Mean +	St.Dev.*k =		5.3374	UTL = Mean +	St.Dev.*k =		5.8859	UTL = Mean +	· St.Dev.*k =		5.7413
Concentration	n Significant?		No	Concentration	Significant?		No	Concentration	Significant?		No	Concentration	Significant?		No



Table 6-2
Comparison to Tolerance Interval¹

				Q1 2023				Q2 2023	
WELL	PARAMETER	RESULT	In(RESULT)	UPPER TOLERANCE LIMIT	UTL EXCEEDED (YES/NO)	RESULT	In(RESULT)	UPPER TOLERANCE LIMIT	UTL EXCEEDED (YES/NO)
	TDS	1300	7.1701	7.1726	No	1200	7.0901	7.1722	No
MW-1	SO ₄	440	6.0868	6.1560	No	410	6.0162	6.1556	No
	Cl ₂	170	5.1358	5.6363	No	200	5.2983	5.6341	No
	TDS	1100	7.0031	7.0617	No	1100	7.0031	7.0614	No
MW-2	SO ₄	380	5.9402	6.0750	No	380	5.9402	6.0740	No
	Cl ₂	130	4.8675	5.3404	No	130	4.8675	5.3394	No
	TDS	1200	7.0901	7.4661	No	1300	7.1701	7.4649	No
MW-3	SO ₄	410	6.0162	6.3474	No	390	5.9661	6.3450	No
	Cl ₂	150	5.0106	5.9026	No	150	5.0106	5.8970	No
	TDS	1300	7.1701	7.1262	Yes	1300	7.1701	7.1330	Yes
MW-4	SO ₄	390	5.9661	5.9508	Yes	370	5.9135	5.9547	No
	Cl ₂	320	5.7683	5.7208	Yes	330	5.7991	5.7313	Yes

¹Upper tolerance limit (UTL) calculated using 95% distribution and 95% probability



Table 6-2
Comparison to Tolerance Interval¹

				Q3 2023				Q4 2023	
WELL	PARAMETER	RESULT	In(RESULT)	UPPER TOLERANCE LIMIT	UTL EXCEEDED (YES/NO)	RESULT	In(RESULT)	UPPER TOLERANCE LIMIT	UTL EXCEEDED (YES/NO)
	TDS	1300	7.1701	7.1742	No	1300	7.1701	7.1761	No
MW-1	SO ₄	470	6.1527	6.1596	No	430	6.0638	6.1603	No
	Cl ₂	180	5.1930	5.6323	No	200	5.2983	5.6302	No
	TDS	1100	7.0031	7.0611	No	1100	7.0031	7.0609	No
MW-2	SO ₄	410	6.0162	6.0744	No	390	5.9661	6.0738	No
	Cl ₂	130	4.8675	5.3384	No	130	4.8675	5.3374	No
	TDS	1300	7.1701	7.4638	No	1300	7.1701	7.4624	No
MW-3	SO ₄	450	6.1092	6.3449	No	430	6.0638	6.3436	No
	Cl ₂	160	5.0752	5.8918	No	150	5.0106	5.8859	No
	TDS	1200	7.0901	7.1341	No	1200	7.0901	7.1351	No
MW-4	SO ₄	360	5.8861	5.9568	No	320	5.7683	5.9552	No
	Cl ₂	330	5.7991	5.7406	Yes	290	5.6699	5.7413	No

¹Upper tolerance limit (UTL) calculated using 95% distribution and 95% probability



SECOND SEMI-ANNUAL 2023 MONITORING REPORT

SECTION 7 LYSIMETER TEST RECORDS



Project Name/Client: Blythe Energy Inc.	Site Name: Blythe Energy Project
Project No. NB11160982	Date: March 12, 2023
Weather Conditions: Sunny 75° F	Sampler: Ralph De La Parra

EAST POND	N
Lysimeter No.: 1	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 2	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 3	Notes: *
TEST RESULTS: Dry	
WEST POND	Notes: *
Lysimeter No.: 4	
TEST RESULTS: Dry	
Lysimeter No.: 5	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 6	Notes: *
TEST RESULTS: Dry	



Project Name/Client: Blythe Energy Inc.	Site Name: Blythe Energy Project
Project No. NB11160982	Date: June 7, 2023
Weather Conditions: Sunny	Sampler: Ralph De La Parra

EAST POND	
Lysimeter No.: 1	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 2	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 3	Notes: *
TEST RESULTS: Dry	
WEST POND	Notes: *
Lysimeter No.: 4	
TEST RESULTS: Dry	
Lysimeter No.: 5	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 6	Notes: *
TEST RESULTS: Dry	



Project Name/Client: Blythe Energy Inc.	Site Name: Blythe Energy Project
Project No. NB11160982	Date: September 26, 2023
Weather Conditions: Warm, Sunny	Sampler: Ralph De La Parra

EAST POND	N			
Lysimeter No.: 1	Notes: *			
TEST RESULTS: Dry				
Lysimeter No.: 2	Notes: *			
TEST RESULTS: Trace amount of water (~50 ml)				
Lysimeter No.: 3	Notes: *			
TEST RESULTS: Dry				
WEST POND	Notes: *			
Lysimeter No.: 4				
TEST RESULTS: Dry				
Lysimeter No.: 5	Notes: *			
TEST RESULTS: Trace amount of water (~2 ml)				
Lysimeter No.: 6	Notes: *			
TEST RESULTS: Dry				



Project Name/Client: Blythe Energy Inc.	Site Name: Blythe Energy Project
Project No. NB11160982	Date: December 6, 2023
Weather Conditions: Sunny	Sampler: Ralph De La Parra

EAST POND	Notes: *
Lysimeter No.: 1	Notes.
TEST RESULTS: Dry	
Lysimeter No.: 2	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 3	Notes: *
TEST RESULTS: Dry	
WEST POND	Notes: *
Lysimeter No.: 4	
TEST RESULTS: Dry	
Lysimeter No.: 5	Notes: *
TEST RESULTS: Dry	
Lysimeter No.: 6	Notes: *
TEST RESULTS: Dry	



SECOND SEMI-ANNUAL 2023 MONITORING REPORT

SECTION 8
EVAPORATION POND SAMPLING RECORDS



Project Name/Client: Blythe Energy Inc. Site Name: Blythe Energy Project

Project No.: NB11160982 Date: March 12, 2023

Weather Conditions: Warm, Sunny Sampler: Ralph De La Parra

Pond No./Designation: #1 East Comments: Dry.

Time: N/A

Color/Clarity: N/A

Temp.: N/A

pH: N/A Ec: N/A

Pond No./Designation: #2 West Comments: Contains Brine Shrimp

Time: 1215

Color/Clarity: slightly green

Temp.: 27.1°C

pH: 8.49

Ec: >20.00 ms/cm

- Temperature reported in degrees Celsius
- pH reported in pH units
- Ec reported in millisiemens per centimeter (ms/cm)



Project Name/Client: Blythe Energy Inc.

Site Name: Blythe Energy Project

Project No.: NB11160982 Date: June 7, 2023

Weather Conditions: Warm, Sunny Sampler: Ralph De La Parra

Pond No./Designation: #1 East Comments: Dry

Time: N/A

Color/Clarity: N/A

Temp.: N/A

pH: N/A Ec: N/A

Pond No./Designation: #2 West Comments:

Time: 1545

Color/Clarity: slightly green

Temp.: 33.1°C

pH: 8.23

Ec: >20.00 ms/cm

- Temperature reported in degrees Celsius
- pH reported in pH units
- Ec reported in millisiemens per centimeter (ms/cm)



Project Name/Client: Blythe Energy Inc.

Site Name: Blythe Energy Project

Project No.: NB11160982 Date: September 26, 2023

Weather Conditions: Warm, Sunny Sampler: Ralph De La Parra

Pond No./Designation: #1 East Comments: DRY

Time: NA

Color/Clarity: NA

Temp.: NA

pH: NA Ec: NA

Pond No./Designation: #2 West Comments: Contains Brine Shrimp

Time: 1315

Color/Clarity: slightly green

Temp.: 30.8°C

pH: 8.35

Ec: >20.00 ms/cm

- Temperature reported in degrees Celsius
- pH reported in pH units
- Ec reported in millisiemens per centimeter (ms/cm)



Project Name/Client: Blythe Energy Inc.

Site Name: Blythe Energy Project

Project No.: NB11160982 Date: December 6, 2023

Weather Conditions: Warm, Sunny Sampler: Ralph De La Parra

Pond No./Designation: #1 East Comments: DRY

Time: NA

Color/Clarity: NA

Temp.: NA

pH: A Ec: NA

Pond No./Designation: #2 West Comments:

Time: 1600

Color/Clarity: slightly green

Temp.: 18.4 °C

pH: 7.83

Ec: >20.00 ms/cm

- Temperature reported in degrees Celsius
- pH reported in pH units
- Ec reported in millisiemens per centimeter (ms/cm)



SECOND SEMI-ANNUAL 2023 MONITORING REPORT

SECTION 9
WELL SAMPLING RECORDS



WELL SAMPLING/DEVELOPMENT RECORD

Project:	_	Blythe E	nergy Inc.	Project No:	NB11160982	2		
Location:		Blythe,	California	Logged by:	Ralph De La Pa	arra		
Well No.:	MW-1	Date:	March 12, 2023	Sampler:	Ralph De La Pa	arra		
Elevation of M	easuring Po	int (MP)			337.27	ft. (a)		
Elevation of G	round Surfac	ce			337.76	ft. (b)		
Well Depth (be	elow MP)				120.00	ft. (c)		
Casing Inside Diameter 4.0								
		C	ALCULATION OF CASIN	NG VOLUME				
Depth of Wate	r Below MP				88.80	ft. (e)		
Water Level E	evation (a-e)			248.47	ft. (f)		
Height of Wate	er in Well				31.20	ft.		
Volume of Wa	ter in Casing	J			31.20x 0.66 = 20.59	gal.		
Sampling/Devo		stem (High-ligh	nt) Grundfos electric sul	Dedicated	Non-dedicated $\sqrt{}$			
Sampling Appa	aratus: Type	е	Sampled through pump					
Cleaning Meth			Alconox and potable	water wash, doub	le distilled water	-		
			FIELD OBSERVAT	IONS		-		
Weather Cond	itions _	Clear, warm				_		
Well Head Cor	nditions _	Dry, good				-		
Comments	_					<u>-</u>		
						-		
						-		



Projec	ct Name/C	lient	Blythe	Energy In	ic.	Well Nu	ımber	M\	MW-1 Date Ma		March 12, 2023		
				FIE	ELD MEAS	SUREME	NTS						
Time	Pump Rate (GPM)	Cumul Vol. Rer (ga	noved	Temp (°C)	рН	(m:	. Cond s/cm :5 °C)		Parti	culates/C	Odor/Clarity/Color		
9:40	2	10		29.9	6.95	1	.95			Clear,	odorless		
9:45	2	20		30.0	6.95	1	.95		Clear, odorless				
9:50	2	30		30.1	6.95	1	.95		Clear, odorless				
9:55	2	40		30.2	6.95	1	.95			Clear,	odorless		
10:00	2	60		30.3	6.95	1	.95		Clear, odorless				
10:10	2	70		30.4	6.95	1	.95			Clear,	odorless		
Total Vol. Purged 70 (gal) Casing Vol. Purged 3.40 Final Water Level After Purging ft. Below MP; Time											3.40		
Fate of Water		Dischar	Ū	round						_			
				s	SAMPLE IN	NVENTO	RY						
Lat	bel	Time		mber Sottles	Analys	sis	F	Р		F	Remarks		

Quarterly

Ν

NA

10:10 F = Filtered (Y,N), P = Preservative (Type)

3

MW-1-3-12-23



WELL SAMPLING/DEVELOPMENT RECORD

Project:		Blytne	e Energy Inc.	Project No:	NB11160982	2					
Location:		Blyth	e, California	Logged by:	Ralph De La Pa	arra					
Well No.:	MW-2	Date:	March 12, 2023	Sampler:	Ralph De La Pa	arra					
Elevation of Me	asuring P	oint (MP)			337.77	ft. (a)					
Elevation of Gro	ound Surfa	асе			337.17	ft. (b)					
Well Depth (bel	ow MP)				120.00	ft. (c)					
Casing Inside D	iameter			4.0							
		-	CALCULATION OF CASI	NG VOLUME							
Depth of Water	Below MF)			89.40	ft. (e)					
Water Level Ele	evation (a-	·e)			248.37	ft. (f)					
Height of Water	in Well				30.60	ft.					
Volume of Wate	er in Casir	ıg			30.60 x 0.66 = 20.20	gal.					
Sampling/Deve	itus: Type)	Grundfos electric su		Non-dedicated √						
Sampling Appa Cleaning Methor		Эе	Sampled through pu		alo distillad water						
rinse			Alcohox and potable	e water wash, doub	ne distined water						
			FIELD OBSERVA	TIONS							
Weather Condit	rions	Clear, warn	n								
Well Head Con	•	Dry, good				•					
Comments						•					
30	•										



Projec	ct Name/C	lient	Blythe	Energy In	ıc.	Well I	Number	M	W-2	Date	March 12, 2023			
				FIE	ELD MEAS	SUREN	1ENTS							
Time	Pump Rate (GPM)	Cumul Vol. Rer (ga	noved	Temp (°C)	рН	Spe	ec. Cond ms/cm : 25 °C)	d.	Particulates/Odor/Clarity/Color					
8:55	2	10		29.7	6.96		1.71			Clear,	odorless			
9:00	2	20		29.8	6.95		1.71		Clear, odorless					
9:05	2	40		29.9	6.95		1.71		Clear, odorless					
9:10	2	50		29.9	6.95		1.71		Clear, odorless					
9:15	2	60		30.0	6.95		1.71		Clear, odorless					
9:20	2	70	1	30.5	6.95		1.71		Clear, odorless					
	ol. Purged	After Purgi	_ ng	70	_ (gal)			Vol. Purç t. Below		imo	3.48			
	Purged	Dischar	round				l. Deluw	IVIF, I						
				S	SAMPLE II	NVENT	ORY							
			Nu	mber										
La	bel	Time	of B	ottles	Analy	sis	F	Р		Remarks				

Quarterly

Ν

NA

9:20 F = Filtered (Y,N), P = Preservative (Type)

MW-2-3-12-23



WELL SAMPLING/DEVELOPMENT RECORD

Project:		Biytne	Energy Inc.	Project No:	NB11160982	2			
Location:		Blyth	e, California	Logged by:	Ralph De La Pa	arra			
Well No.:	MW-3	Date:	March 12, 2023	Sampler:	Ralph De La Pa	arra			
Elevation of Me	easuring P	oint (MP)			338.22	ft. (a)			
Elevation of Gre	ound Surfa	ace			336.28	ft. (b)			
Well Depth (be	low MP)				115.00	ft. (c)			
Casing Inside [Inside Diameter 4.0								
			CALCULATION OF CASI	NG VOLUME					
Depth of Water	Below MI	P			89.95	ft. (e)			
Water Level Ele	evation (a-	-e)			248.27	ft. (f)			
Height of Wate	r in Well				25.05	ft.			
Volume of Wate	er in Casir	ng			25.05 x 0.66 = 16.53	gal.			
Sampling/Deve Purging Appara Sampling Appa	atus: Type	9	light) Grundfos electric su Sampled through pu		Non-dedicated √	-			
Cleaning Metho		•	Alconox and potable		le distilled water	-			
Rinse						-			
			FIELD OBSERVA	TIONS					
Weather Condi	tions	Clear, warn	n			_			
Well Head Con	ditions	Dry, good				_			
Comments						_			
						_			
						-			



Projec	Project Name/Client Blyth		Blythe Energy Inc.			Well	Number	<u>M</u>	MW-3 Date March 12,		March 12, 2023	
				FIE	ELD MEAS	SUREN	MENTS					
Time	Pump Rate (GPM)	Cumula Vol. Ren (gal	noved	Temp (°C)	рН	(ec. Cond ms/cm t 25 °C)	d.	Particulates/Odor/Clarity/Color			
8:05	2	10		25.3	6.53		1.85		Clear, odorless			
8:10	2	20		25.2	6.54		1.84		Clear, odorless			
8:15	2	30		25.3	6.55		1.85			(Clear	
8:20	2	40		25.3	6.55		1.85			(Clear	
8:25	2	50		25.4	4 6.55		1.85			(Clear	
8:30	2	60		25.4	6.55		1.85			(Clear	
	ol. Purged ater Level	After Purgi	_ na	60	_ (gal)			Vol. Puro		ïme	3.63	
	Purged	Dischar		round			·	Bolow				
					SAMPLE II	NVENT	TORY	1	1			
La	bel	Time		mber Bottles	Analy	sis	F	Р		Clear, odorless Clear Clear Clear Clear Clear Clear		
MW-3-:	3-12-23	8:30		6	Quarte	erly	N	NA	Du	plicate C		

8:30 F = Filtered (Y,N), P = Preservative (Type)



WELL SAMPLING/DEVELOPMENT RECORD

Blythe,	California							
	Jamorina	Logged by:	Ralph De La Pa	ırra				
Date:	March 12, 2023	Sampler:	Ralph De La Pa	ırra				
int (MP)			342.50	ft. (a)				
ce			339.95	ft. (b)				
Well Depth (below MP) Casing Inside Diameter CALCULATION OF CASING VOLUME								
			4.0	in. (d)				
C	ALCULATION OF CASIN	NG VOLUME						
			93.60	ft. (e)				
)			248.90	ft. (f)				
			25.35	ft.				
J			25.35 x 0.66 = 16.73	gal.				
stem (High-ligh	·	Dedicated le pump	Non-dedicated √					
Э	Sampled through pump							
	Alconox and potable	water wash, doul	ble distilled water					
	FIELD OBSERVAT	TIONS						
Clear, warm								
Dry, good								
<u> </u>								
2.y, good								
	C.) stem (High-lighter	calculation of Casin Calculation of Casin Stem (High-light) Grundfos submersib Sampled through pure Alconox and potable FIELD OBSERVAT	calculation of Casing Volume Stem (High-light) Grundfos submersible pump Sampled through pump Alconox and potable water wash, doul	int (MP) 342.50 339.95 118.95 4.0 CALCULATION OF CASING VOLUME 93.60 248.90 25.35 25.35 x 0.66 = 16.73 Stem (High-light) Dedicated Non-dedicated Grundfos submersible pump Sampled through pump Alconox and potable water wash, double distilled water FIELD OBSERVATIONS				

Blythe Energy Inc.

60

Discharged to ground

(gal)

Project Name/Client



March 12, 2023

3.58

MW-4

Casing Vol. Purged

ft. Below MP; Time

Date

FIELD MEASUREMENTS										
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Particulates/Odor/Clarity/Color				
10:25	2	10	32.4	7.03	2.07	Clear, odorless				
10:30	2	20	32.4	7.03	2.07	Clear, odorless				
10:35	2	30	32.5	7.03	2.07	Clear, odorless				
10:40	2	40	32.5	7.03	2.07	Clear, odorless				
10:45	2	50	32.5	7.03	2.07	Clear, odorless				
10:50	2	60	32.6	7.03	2.07	Clear, odorless				

Well Number

SAMPLE INVENTORY

Label	Time	Number of Bottles	Analysis	F	Р	Remarks
MW-4-3-12-23	10:50	3	Quarterly	N	NA	

F = Filtered(Y,N), P = Preservative(Type)

Depth to Water Readings: OW-1 = 91.85 feet

OW-2 = 88.65 feet

Total Vol. Purged

Fate of Purged

Water

Final Water Level After Purging



Project:		Blythe E	nergy Inc.	Project No:	NB11160982	2
Location:		Blythe,	California	Logged by:	Ralph De La Pa	arra
Well No.:	MW-1	_ Date:	June 7, 2023	Sampler:	Ralph De La Pa	arra
Elevation of M	easuring Po	int (MP)			337.27	ft. (a)
Elevation of G	round Surfac	ce			337.76	ft. (b)
Well Depth (be	elow MP)				120.0	ft. (c)
Casing Inside	Diameter				4.0	in. (d)
		C	ALCULATION OF CASI	NG VOLUME		
Depth of Wate	r Below MP				88.15	ft. (e)
Water Level El	evation (a-e	·)			249.12	ft. (f)
Height of Wate	er in Well				31.85	ft.
Volume of Wat	ter in Casing)			31.85 x 0.66 = 21.02	gal.
Sampling/Deve		rstem (High-ligl	nt) Proactive electric su	Dedicated	Non-dedicated $\sqrt{}$	
Sampling Appa	aratus: Type	Э	Sampled through pu	ımp		-
Cleaning Meth			Alconox and potable	e water wash, doub	ele distilled water	
			FIELD OBSERVA	TIONS		
Weather Cond	itions _	Clear, warm				-
Well Head Cor	nditions _	Dry, good				<u>-</u>
Comments						
						-
						-



Projec	ct Name/Cl	lient	Blythe	Energy In	ic.	Well Nu	mber	M	W-1	Date	June 7, 2023
				FIE	ELD MEAS	SUREME	NTS				
Time	Pump Rate (GPM)	Cumul Vol. Rer (ga	noved	Temp (°C) pH		(ms	Cond. /cm 5 °C)		Particulate		Odor/Clarity/Color
12:45	1	5		30.5	7.06	1.	91			Clear,	odorless
12:50	1	10		30.4	7.06	1.	91			Clear,	odorless
13:00	1	20		30.4	7.06	1.	91			Clear,	odorless
13:20	1	40		30.4	7.06	1.	91			Clear,	odorless
13:40	1	60		30.4	7.06	1.	91	Clear, c			odorless
13:50	1	70		30.5	7.06	1.	1.91			Clear,	odorless
	ol. Purged	After Purgi	- na	70	_ (gal)	Ca	sing Vo		ged MP; T	ima	3.33
Fate of Water		Dischar		round			11. 1	DEIOW	IVIF, I	e	
				S	SAMPLE II	NVENTOI	RY				
Lal	bel	Time		mber Sottles	Analy	sis	F	Р		F	Remarks

Quarterly

Ν

NA

13:50 F = Filtered (Y,N), P = Preservative (Type)

MW-1-6-7-23



Project:		Blythe E	nergy Inc.	Project No:	NB11160982	2
Location:		Blythe, (California	Logged by:	Ralph De La Pa	arra
Well No.:	MW-2	Date:	June 7, 2023	Sampler:	Ralph De La Pa	arra
Elevation of Mo	easuring Po	int (MP)			337.77	ft. (a)
Elevation of G	round Surfac	е		_	337.17	ft. (b)
Well Depth (be	elow MP)			_	120.00	ft. (c)
Casing Inside	Diameter				4.0	in. (d)
		Cı	ALCULATION OF CASI	NG VOLUME		
Depth of Wate	r Below MP				88.90	ft. (e)
Water Level El	levation (a-e)			248.87	ft. (f)
Height of Wate	er in Well				31.10	ft.
Volume of Wat	ter in Casing	I			31.10 x 0.66 = 20.53	gal.
Sampling/Deve		rstem (High-ligh	nt) Proactive electric su	Dedicated	Non-dedicated $\sqrt{}$	
Sampling Appa		Э	Sampled through pu			•
Cleaning Meth	nods		Alconox and potable		le distilled water	· - -
			FIELD OBSERVA	TIONS		
Weather Cond	litions _	Clear, warm				_
Well Head Cor	nditions _	Dry, good				<u>.</u>
Comments	_					
						<u>.</u>
						-



Projec	ct Name/Cl	lient Blythe	Energy In	ic.	Well Number _	MW-2	Date _	June 7, 2023
			FII	ELD MEA	SUREMENTS			
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	pH	Spec. Cond. (ms/cm at 25 °C)	Parti	culates/O	dor/Clarity/Color
11:25	1	5	30.0	6.91	1.70		Clear,	odorless
11:30	1	10	30.2	6.92	1.70	Clear, odorless		
11:40	1	20	30.1	6.92	1.70	Clear, odorless		
12:00	1	40	30.1	6.92	1.70	Clear, odorless		
12:20	1	60	30.1	6.92	1.70	Clear, odorless		
12:30	1	70	30.2	6.92	1.70		Clear,	odorless
Total Vo	ol. Purged	-	70	_ (gal)	Casing Vol.	Purged		3.41
Final W	ater Level	After Purging			ft. Be	elow MP; T	ime	
Fate of	Purged	Discharged to g	round					

SAMPLE INVENTORY

		Number				
Label	Time	of Bottles	Analysis	F	Р	Remarks
MW-2-6-7-23	12:30	4	Quarterly	N	NA	Duplicate Collected (DUP-6-7-23)

F = Filtered (Y,N), P = Preservative (Type)

Water



Project:		Blythe E	nergy Inc.	Project No:	NB11160982	2
Location:		Blythe,	California	Logged by:	Ralph De La Pa	arra
Well No.:	MW-3	Date: _	June 7, 2023	Sampler:	Ralph De La Pa	arra
Elevation of Me	easuring Po	int (MP)			338.22	ft. (a)
Elevation of Gr	ound Surfac	ce			336.28	ft. (b)
Well Depth (be	low MP)				115.00	ft. (c)
Casing Inside [Diameter				4.0	in. (d)
		C	ALCULATION OF CASI	NG VOLUME		
Depth of Water	Below MP				89.55	ft. (e)
Water Level Ele	evation (a-e)			248.67	ft. (f)
Height of Wate	r in Well				25.45	ft.
Volume of Wate	er in Casing	l			25.45 x 0.66 = 16.80	gal.
Sampling/Deve		stem (High-lig	ht) Proactive submersit	Dedicated ble pump	Non-dedicated $\sqrt{}$	
Sampling Appa	ıratus: Type)	Sampled through pu	тр		
Cleaning Metho	ods		Alconox and potable	e water wash, doub	ole distilled water	
			FIELD OBSERVA	FIONS		
Weather Condi	tions	Clear, warm				
Well Head Con	ditions	Dry, good				•
Comments	_					•
						•



Projec	Project Name/Client Blyth			Energy I	nc.	Well Numbe	r <u>N</u>	/IW-3	_ Date _	June 7, 2023
				F	IELD MEAS	SUREMENTS				
Time	Pump Rate (GPM)	Cumul Vol. Rer (ga	noved	Temp (°C) pH		Spec. Cond. (ms/cm at 25 °C)		Particulates/Odor/Clarity/Color		dor/Clarity/Color
10:20	1	5		25.0	6.31	1.85			Clear,	odorless
10:25	1	10		25.0	6.49	1.83			Clear,	odorless
10:35	1	20		25.0	6.63	1.83			Clear,	odorless
10:45	10:45 1 40			25.0	6.63	1.83			Clear,	odorless
11:05	1	60	1	25.0	6.64	1.83			Clear,	odorless
	ol. Purged ater Level	After Purgi	ng	60	(gal)	J	Vol. Pu		ime	3.57
Fate of Water	Purged	Dischar	ged to g	round						
SAMPLE INVENTORY										
Lal	bel	Time		nber ottles	Analysis	s F	Р		R	emarks
MW-3-	6-7-23	11:05		2	Quarterl	y N	NA			

F = Filtered (Y,N), P = Preservative (Type)



Project:		Biythe	Energy Inc.	Project No:	NB11160982	2
Location:		Blyth	e, California	Logged by:	Ralph De La Pa	arra
Well No.:	MW-4	Date:	June 7, 2023	Sampler:	Ralph De La Pa	arra
Elevation of Mea	asuring P	oint (MP)			342.50	ft. (a)
Elevation of Gro	und Surfa	ace			337.76	ft. (b)
Well Depth (belo	ow MP)				118.95	ft. (c)
Casing Inside D	iameter				4.0	in. (d)
			CALCULATION OF CAS	ING VOLUME		
Depth of Water	Below MF	0			93.10	ft. (e)
Water Level Ele	vation (a-	e)			249.40	ft. (f)
Height of Water	in Well				25.85	ft.
Volume of Wate	r in Casir	ng			25.85 x 0.66 = 17.06	gal.
Sampling/Devel	tus: Type)	Proactive submersi		Non-dedicated √	
Sampling Appar		oe	Sampled through p			-
Cleaning Metho	ds		Alconox and potabl	e water wash, doub	le distilled water	<u>-</u>
Rinse						=
						-
			FIELD OBSERVA	TIONS		
Weather Conditi	ions	Clear, warn	n			-
Well Head Cond	ditions	Dry, good				_
Comments						_
						-
						=

Project Name/Client

Blythe Energy Inc.



June 7, 2023

Date _

MW-4

	FIELD MEASUREMENTS												
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Particulates/Odor/Clarity/Color							
14:15	1	5	32.2	7.10	2.08	Clear, odorless							
14:20	1	10	32.2	7.12	2.08	Clear, odorless							
14:30	1	20	32.2	7.13	2.08	Clear, odorless							
14:50	1	40	32.2	7.13	2.08	Clear, odorless							
15:00	1	50	32.2	7.13	2.08	Clear, odorless							
15:10	1	60	32.2	7.13	2.08	Clear, odorless							

Well Number

Total Vol. Purged	60	(gal)	Casing Vol. Purged	3.51
Final Water Level	After Purging		ft. Below MP; Time	
Fate of Purged Water	Discharged to ground			

SAMPLE INVENTORY

Label	Time	Number of Bottles	Analysis	F	Р	Remarks
MW-4-6-7-23	15:10	2	Quarterly	N	NA	

F = Filtered (Y,N), P = Preservative (Type)

Depth to Water Readings: OW-1 = 91.55 feet

OW-2 = 88.38 feet



Project:	Blythe	Energy Inc.	Project No:	pject No: NB11160980			
Location:	Blyth	e, California	Logged by:	Ralph De La Pa	rra		
Well No.: MW-1	Date:	September 26, 2023	Sampler:	Ralph De La Pa	rra		
Elevation of Measuring P	Point (MP)			337.27	ft. (a)		
Elevation of Ground Surf	ace			337.76	ft. (b)		
Well Depth (below MP)				120.00	ft. (c)		
Casing Inside Diameter				4.0	in. (d)		
		CALCULATION OF CASING	G VOLUME				
Depth of Water Below M	Р			89.05	ft. (e)		
Water Level Elevation (a	-e)			248.22	ft. (f)		
Height of Water in Well				30.95	ft.		
Volume of Water in Casin	ng			30.95x 0.66 = 20.42	gal.		
Sampling/Development S Purging Apparatus: Type		ight) Geosub electric subm	Dedicated ersible pump	Non-dedicated √			
Sampling Apparatus: Ty	pe	Sampled through pum	Sampled through pump				
Cleaning Methods		Alconox and potable v	Alconox and potable water wash, double distilled water				
rinse							
		FIELD OBSERVATION	ONS				
Weather Conditions	Clear, warn	n					
Well Head Conditions	Dry, good						
Comments							



Project Name/Client	Blythe Energy Inc.	Well Number	MW-1	Date	September 26, 2023
		_		·	

	FIELD MEASUREMENTS										
Time	Time Pump Cumulative Vol. Removed (GPM) (gal)		Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Particulates/Odor/Clarity/Color					
10:40	2	10	30.0	7.14	1.96	Clear, odorless					
10:50	2	20	30.1	7.14	1.96	Clear, odorless					
11:00	2	30	30.3	7.13	1.96	Clear, odorless					
11:10	2	40	30.4	7.13	1.96	Clear, odorless					
11:20	2	50	30.4	7.13	1.96	Clear, odorless					
11:35	2	65	30.5	7.13	1.96	Clear, odorless					

Total Vol. Purged		65 (gal) Casing Vol. Purged		g Vol. Purged	3.18
Final Water Level	After Purging			ft. Below MP; Time	
Fate of Purged Water	Discharged to	ground			

SAMPLE INVENTORY

Label	Time	Number of Bottles	Analysis	F	Р	Remarks
MW-1-9-26-23	11:35	2	Quarterly	N	NA	

F = Filtered (Y,N), P = Preservative (Type)



Project:		Blyth	e Energy Inc.	Project No:	NB11160980	J	
Location:		Blyth	e, California	Logged by:	Ralph De La Pa	arra	
Well No.:	MW-2	Date:	September 26, 2023	Sampler:	Ralph De La Pa	Ralph De La Parra	
Elevation of Me	asuring P	oint (MP)			337.77	ft. (a)	
Elevation of Gro	ound Surfa	ace			337.17	ft. (b)	
Well Depth (bel	ow MP)				120.00	ft. (c)	
Casing Inside D	iameter				4.0	in. (d)	
			CALCULATION OF CASIN	IG VOLUME			
Depth of Water	Below MF	0			89.50	ft. (e)	
Water Level Ele	vation (a-	e)			248.27	ft. (f)	
Height of Water	in Well				30.50	ft.	
Volume of Wate	er in Casir	ng			30.50 x 0.66 = 20.13	gal.	
Sampling/Devel Purging Appara Sampling Appar	tus: Type)	light) Geosu electric subme Sampled through pun		Non-dedicated √	-	
Cleaning Metho	ds		Alconox and potable	water wash, dou	ble distilled water	<u>-</u>	
rinse						- -	
			FIELD OBSERVATI	ONS			
Weather Condit	ions	Clear, warı	n			_	
Well Head Cond	ditions	Dry, good					
Comments						_,	
						_	
						-	



Project Name/Client	Blythe Energy Inc.	Well Number	MW-2	Date	September 26, 2023

	FIELD MEASUREMENTS										
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Particulates/Odor/Clarity/Color					
09:20	1	10	29.8	7.08	1.72	Clear, odorless					
09:30	1	20	29.7	7.07	1.72	Clear, odorless					
09:40	1	30	29.8	7.07	1.72	Clear, odorless					
09:50	1	40	29.9	7.06	1.72	Clear, odorless					
10:00	1	50	30.0	7.06	1.72	Clear, odorless					
10:15	1	65	30.1	7.06	1.72	Clear, odorless					

Total Vol. Purged		(gal)	Casing Vol. Purged	3.22
Final Water Level	After Purging		ft. Below MP; Time	
Fate of Purged Water	Discharged to groun	d		

SAMPLE INVENTORY

	T .	Number		_	_	D .
Label	Time	of Bottles	Analysis	F	P	Remarks
MW-2-9-26-23	10:15	4	Quarterly	Ν	NA	Duplicate collected.

F = Filtered (Y,N), P = Preservative (Type)



Project:	Blythe Energy Inc.		nergy Inc.	Project No:	NB11160980	0	
Location:		Blythe,	California	Logged by:	Ralph De La Pa	De La Parra	
Well No.:	MW-3	_ Date:	September 26, 2023	Sampler:	Ralph De La Pa	arra	
Elevation of Me	easuring Po	int (MP)			338.22	ft. (a)	
Elevation of G	round Surfac	ce			336.28	ft. (b)	
Well Depth (be	elow MP)				115.00	ft. (c)	
Casing Inside	Diameter				4.0	in. (d)	
		С	ALCULATION OF CASIN	G VOLUME			
Depth of Wate	r Below MP				90.05	ft. (e)	
Water Level El	evation (a-e	;)			248.17	ft. (f)	
Height of Wate	er in Well				24.95	ft.	
Volume of Wat	ter in Casino	3			24.95 x 0.66 = 16.47	gal.	
Sampling/Deve		/stem (High-lig	nt) Geosub electric subm	Dedicated ersible pump	Non-dedicated $\sqrt{}$	-	
Sampling Appa	aratus: Typ	е	Sampled through pump				
Cleaning Meth			Alconox and potable v	water wash, doul	ble distilled water		
						-	
			FIELD OBSERVATION	ONS			
Weather Cond	itions	Clear, warm					
Well Head Cor	nditions	Dry, good					
Comments	_					•	
						-	



Project Name/Client	Blythe Energy Inc.	Well Number	MW-3	Date	September 26, 2023
		- "		-	

	FIELD MEASUREMENTS									
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Particulates/Odor/Clarity/Color				
07:25	1	10	23.2	6.47	1.87	Clear, odorless				
07:35	1	20	23.4	6.53	1.88	Clear, odorless				
07:45	1	30	23.6	6.55	1.83	Clear, odorless				
07:55	1	40	23.8	6.51	1.80	Clear, odorless				
08:15	1	60	23.9	6.51	1.80	Clear, odorless				

Total Vol. Purged	60	(gal)	Casing Vol. Purged	3.64
Final Water Level	After Purging		ft. Below MP; Time	
Fate of Purged Water	Discharged to ground			

SAMPLE INVENTORY

	1	Number			1	
Label	Time	of Bottles	Analysis	F	Р	Remarks
MW-3-9-26-23	08:15	2	Quarterly	N	NA	

F = Filtered (Y,N), P = Preservative (Type)



Project:		Blyth	e Energy Inc.	Project No:	NB11160980)
Location:		Blyth	ne, California	Logged by:	Ralph De La Pa	arra
Well No.:	MW-4	Date:	September 26, 2023	Sampler:	Ralph De La Pa	arra
Elevation of Mea	asuring P	oint (MP)			342.50	ft. (a)
Elevation of Gro	ound Surfa	ace			339.95	ft. (b)
Well Depth (belo	ow MP)				118.95	ft. (c)
Casing Inside D	iameter				4.0	in. (d)
			CALCULATION OF CASIN	IG VOLUME		
Depth of Water	Below MF	0			94.05	ft. (e)
Water Level Ele	vation (a-	e)			248.45	ft. (f)
Height of Water	in Well				24.90	ft.
Volume of Wate	r in Casir	ng			24.90 x 0.66 = 16.43	gal.
Sampling/Devel Purging Appara	-		light) Geosub submersible	Dedicated pump	Non-dedicated $\sqrt{}$	
Sampling Appar	atus: Typ	oe	Sampled through pur	np		
Cleaning Metho	ds		Alconox and potable	water wash, doub	ole distilled water	
Rinse						-
						-
			FIELD OBSERVATI	IONS		
Weather Condit	ions	Clear, war	m			
Well Head Cond	ditions	Dry, good				
Comments						
						:



Project Name/Client	Blythe Energy Inc.	Well Number	MW-4	Date	September 26,
		_			2023

	FIELD MEASUREMENTS										
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Particulates/Odor/Clarity/Color					
12:00	2	10	30.9	7.25	2.01	Clear, odorless					
12:10	2	20	31.9	7.23	2.01	Clear, odorless					
12:20	2	30	32.4	7.23	2.00	Clear, odorless					
12:30	2	40	32.6	7.23	2.00	Clear, odorless					
12:40	2	50	32.7	7.23	2.00	Clear, odorless					
12:50	2	60	32.8	7.23	2.00	Clear, odorless					

Total Vol. Purged	60	(gal)	Casing	g Vol. Purged	3.65
Final Water Level	After Purging			ft. Below MP; Time	
Fate of Purged Water	Discharged to ground				

SAMPLE INVENTORY

Label	Time	Number of Bottles	Analysis	F	Р	Remarks
MW-4-9-26-23	12:50	2	Quarterly	N	NA	

F = Filtered (Y,N), P = Preservative (Type)

Depth to Water Readings: OW-1 = 92.35 feet OW-2 = 89.18 feet



Project:		Blytne	e Energy Inc.	Project No:	NB11160980)
Location:		Blyth	e, California	Logged by:	Ralph De La Pa	arra
Well No.:	MW-1	Date:	December 6, 2023	Sampler:	Ralph De La Pa	arra
Elevation of Mea	asuring P	oint (MP)			337.27	ft. (a)
Elevation of Gro	und Surfa	ace			337.76	ft. (b)
Well Depth (belo	w MP)				120.0	ft. (c)
Casing Inside Di	iameter				4.0	in. (d)
			CALCULATION OF CASI	NG VOLUME		
Depth of Water I	Below MF	0			88.90	ft. (e)
Water Level Elev	vation (a-	e)			248.37	ft. (f)
Height of Water	in Well				31.10	ft.
Volume of Water	r in Casir	ng			31.10 x 0.66 = 20.52	gal.
Sampling/Develor	•		light) Geosub electric sub	Dedicated	Non-dedicated √	
Sampling Appara	atus: Typ	oe	Sampled through pu	ımp		
Cleaning Method	ds		Alconox and potable	e water wash, dou	ble distilled water	•
rinse						-
						•
			FIELD OBSERVA	TIONS		
Weather Conditi	ons	Clear, warr	n			
Well Head Cond	litions	Dry, good				•
Comments	·					•
						•



Projec	Project Name/Client Blytho		he Energy Ir	nc.	Well Number	MW-1	Date	December 6, 2023		
			FII	ELD MEA	SUREMENTS					
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Part	iculates/C	Odor/Clarity/Color		
14:45	1	10	30.4	7.17	1.93		Clear,	odorless		
14:55	1	20	30.3	7.18	1.92		Clear,	odorless		
15:05	1	30	30.4	7.18	1.92		Clear,	odorless		
15:15	1	40	30.4	7.18	1.92		Clear,	odorless		
15:25	1	50	30.4	7.18	1.92		Clear, odorless			
15:45	1	70	30.5	7.18	1.92		Clear,	odorless		
Total Vo	ol. Purged		70	_ (gal)	Casing Vol	. Purged		3.41		
Final W	ater Level	After Purging			ft. B	Below MP;	Time			
Fate of Water	Purged	Discharged to	ground							
			5	SAMPLE I	NVENTORY					
		1	Number							

Analysis

Annual

Ρ

NA

Ν

Remarks

15:45 F = Filtered (Y,N), P = Preservative (Type)

Time

Label

MW-1-12-6-23

of Bottles



Project:		Blytne	e Energy Inc.	Project No:	NB11160982	2
Location:		Blyth	e, California	Logged by:	Ralph De La Pa	arra
Well No.:	MW-2	Date:	December 6, 2023	Sampler:	Ralph De La Pa	arra
Elevation of Me	asuring P	oint (MP)			337.77	ft. (a)
Elevation of Gro	ound Surfa	ace			337.17	ft. (b)
Well Depth (bel	ow MP)				120.00	ft. (c)
Casing Inside D	Diameter				4.0	in. (d)
			CALCULATION OF CASI	NG VOLUME		
Depth of Water	Below Mi	0			89.40	ft. (e)
Water Level Ele	evation (a-	-e)			248.37	ft. (f)
Height of Water	r in Well				30.60	ft.
Volume of Wate	er in Casir	ng	-		30.60 x 0.66 = 20.19	gal.
Sampling/Deve	itus: Type	9	Geosub electric sub		Non-dedicated $\sqrt{}$	
Sampling Appa		pe	Sampled through pu			•
Cleaning Metho	ods		Alconox and potable	e water wash, dou	ble distilled water	
rinse						
						•
			FIELD OBSERVA	TIONS		
Weather Condit	tions	Clear, warr	n			
Well Head Con	ditions	Dry, good				
Comments						
						•



Projec	ct Name/C	lient	Blythe	Energy In	ic.	Well Numbe	r <u>M</u>	W-2	Date	December 6, 2023
				FI	ELD MEAS	SUREMENTS				
Time	Pump Rate (GPM)	Cumul Vol. Rer (ga	noved	Temp (°C)	рН	Spec. Con (ms/cm at 25 °C)		Parti	iculates/C	dor/Clarity/Color
13:25	1	10)	30.2	7.02	1.69			Clear,	odorless
13:35	1	20)	30.2	7.01	1.69			Clear,	odorless
13:45	1	30)	30.3	7.01	1.69			Clear,	odorless
13:55	1	40)	30.4	7.01	1.69		Clear, odorless		odorless
14:05	1	50	1	30.5	7.01	1.69		Clear, odorless		odorless
14:25	1	70)	30.5	7.01	1.69		Clear, odorless		
	ol. Purged		_	70	_ (gal)	J	Vol. Purg			3.46
Final W	ater Level	After Purgi	ng				ft. Below	MP; T	ime	
Fate of Water	Purged	Dischar	ged to g	round						
				S	SAMPLE II	NVENTORY				
La	bel	Time	-	mber Sottles	Analy	sis F	Р		F	Remarks
	0.00.00	14.05		2	Λοοιι		NIA			n 10 6 00

Annual

NA

Dup-12-6-23

14:25 F = Filtered (Y,N), P = Preservative (Type)

MW-2-12-26-23



Project:		Blythe Energy Inc.		Project No:	NB11160982	2	
Location:		Blythe,	California	Logged by:	Ralph De La Pa	arra	
Well No.:	MW-3	_ Date:	December 6, 2023	Sampler:	Ralph De La Pa	arra	
Elevation of Me	easuring Po	int (MP)			338.22	ft. (a)	
Elevation of Gr	ound Surfac	се			336.28	ft. (b)	
Well Depth (be	low MP)				115.00	ft. (c)	
Casing Inside I	Diameter				4.0	in. (d)	
		C.	ALCULATION OF CASIN	G VOLUME			
Depth of Water	Below MP				89.95	ft. (e)	
Water Level El	evation (a-e	÷)			248.27	ft. (f)	
Height of Wate	r in Well				25.05	ft.	
Volume of Wat	er in Casing	3			25.05 x 0.66 = 16.53	gal.	
Sampling/Deve		stem (High-ligh	nt) Geosub submersible	Dedicated pump	Non-dedicated $\sqrt{}$		
Sampling Appa	aratus: Type	Э	Sampled through pump				
Cleaning Metho	ods		Alconox and potable	water wash, doul	ole distilled water		
rinse							
			FIELD OBSERVATI	ONS			
Weather Condi	itions	Clear, warm					
Well Head Cor	ditions	Dry, good					
Comments							
						•	
			-				



Projec	Project Name/Client Blytho		Blythe	Energy I	nc.	Well Number	r <u>N</u>	/IW-3	Date	December 6, 2023
				F	IELD MEAS	SUREMENTS				
Time	Pump Rate (GPM)	Cumula Vol. Ren (gal	noved	Temp (°C)	рН	Spec. Con (ms/cm at 25 °C)		Particulates/Odor/Clarity/Color		Odor/Clarity/Color
12:15	1	10		24.9	6.71	1.92			Clear	, odorless
12:25	1	20		25.0	6.69	1.92			Clear	, odorless
12:35	1	30		25.0	6.69	1.92		Clear, odorless		, odorless
12:45	1	40		25.0	6.69	1.92		Clear, odorless		, odorless
13:05	1	70		25.1	6.69	1.92			Clear	, odorless
	Total Vol. Purged (gal)					J	Vol. Pu		īme	3.62
	Final Water Level After Purging ft. Below MP; Time Fate of Purged Water Discharged to ground									
					SAMPLE II	NVENTORY				
La	bel	Time	Num of Bo		Analysi	s F	Р		F	Remarks

Annual

Ν

NA

F = Filtered (Y,N), P = Preservative (Type)

MW-3-12-6-23

13:05



Project:	Blytn	e Energy Inc.	Project No:	NB11160982			
Location:	Blyth	ne, California	Logged by:	Ralph De La Pa	arra		
Well No.: MV	N-4 Date:	December 6, 2023	Sampler:	Ralph De La Pa	arra		
Elevation of Measuring	ng Point (MP)			342.50	ft. (a)		
Elevation of Ground	Surface			339.95	ft. (b)		
Well Depth (below M	P)			118.95	ft. (c)		
Casing Inside Diame	Casing Inside Diameter			4.0	in. (d)		
		CALCULATION OF CASIN	NG VOLUME				
Depth of Water Below	v MP			93.72	ft. (e)		
Water Level Elevation	n (a-e)			248.78	ft. (f)		
Height of Water in W	ell			25.23	ft.		
Volume of Water in C	Casing			25.23 x 0.66 = 16.65	gal.		
Sampling/Developme		-light) Geosub submersible	Dedicated pump	Non-dedicated $\sqrt{}$			
Sampling Apparatus:	Туре	Sampled through pur	Sampled through pump				
Cleaning Methods		Alconox and potable	Alconox and potable water wash, double distilled water				
Rinse							
		FIELD OBSERVAT	TIONS				
Weather Conditions	Clear, war	m					
Well Head Conditions	Dry, good						
Comments							

Project Name/Client

Blythe Energy Inc.



December 6, 2023

			FIELI	D MEASUI	REMENTS	
Time	Pump Rate (GPM)	Cumulative Vol. Removed (gal)	Temp (°C)	рН	Spec. Cond. (ms/cm at 25 °C)	Particulates/Odor/Clarity/Color
16:20	1	10	30.8	7.28	1.96	Clear, odorless
16:30	1	20	30.9	7.28	1.96	Clear, odorless
16:40	1	30	30.9	7.29	1.96	Clear, odorless
16:50	1	40	31.0	7.29	1.96	Clear, odorless
17:00	1	50	31.1	7.29	1.96	Clear, odorless
17:10	1	60	31.2	7.29	1.96	Clear, odorless

Well Number

MW-4

Date

Total Vol. Purged		60 (gal)	Casing Vol. Purged	3.60
Final Water Level	After Purging		ft. Below MP; Time	
Fate of Purged Water	Discharged to grou	und		

SAMPLE INVENTORY

	Label	Time	Number of Bottles	Analysis	F	Р	Remarks
ĺ	MW-4-12-6-23	17:10	3	Annual	N	NA	

F = Filtered (Y,N), P = Preservative (Type)

Depth to Water Readings: OW-1 = 92.05 feet

OW-2 = 88.90 feet



SECOND SEMI-ANNUAL 2023 MONITORING REPORT

SECTION 10
LEACHATE COLLECTION AND RECOVERY SYSTEM (LCRS) & WEEKLY LYSIMETER RECORDS



LEACHATE COLLECTION AND RECOVERY SYSTEM (LCRS) & WEEKLY LYSIMETER RECORDS

Table 10-1 shows records of weekly inspections performed on the Leachate Collection and Recovery System (LCR) and Lysimeter Records



Table 10-1 Leachate Collection and Recovery System (LCRS) & Weekly Lysimeter Results

Date	East LRS Measurement in inches	East LRS pump Out Yes / No	Lysimiters checked	Water Present	East Pond Level Inches of Free Board
1/1/2023	66	Υ	Υ	N	161
1/8/2023	55	Ν	Υ	N	153
1/15/2023	8	Ν	Υ	N	363
1/22/2023	62	Υ	Υ	N	363
1/29/2023	68	Υ	Υ	N	363
2/5/2023	66	Υ	Υ	N	363
2/13/2023	72	N	Υ	N	144
2/21/2023	50	Υ	Υ	N	134
2/26/2023	50	N	Υ	N	120
3/5/2023	84	Υ	Υ	N	130
3/12/2023	78	Υ	Υ	N	137
3/19/2023	6	Ν	Υ	N	141
3/26/2023	78	N	Υ	N	137
4/2/2023	56	Ν	Υ	N	137
4/8/2023	54	Ν	Υ	N	144
4/16/2023	82	Ν	Υ	N	139
4/23/2023	75	Ν	Υ	N	138
5/7/2023	52	Ν	Υ	N	144
5/14/2023	68	Υ	Υ	N	145
5/21/2023	26	N	Υ	N	144
5/29/2023	30	Ν	Υ	N	141
6/4/2023	12	N	Υ	N	144
6/10/2023	12	N	Υ	N	161
6/18/2023	6	N	Υ	N	150
6/24/2023	10	Ν	Υ	N	155

West LRS Measurement in inches	West LRS pump Out Yes / No	Lysimiters checked	Water Present	West Pond Level Inches of Free Board	Comments
2	N	Y	N	44	Weekly Inspection - East LRS Pumped Residual
4	N	Y	N	44	Weekly Inspection - East LRS Pumped Residual
70	Υ	Υ	N	45	Weekly Inspection - West LRS Pumped Residual
24	N	Y	N	43	Weekly Inspection - East LRS Pumped Residual
28	N	Υ	N	45	Weekly Inspection - East LRS Pumped Residual
29	Υ	Υ	N	43	Weekly Inspection - East/West LRS Pumped Residual
43	N	Υ	N	42	Weekly Inspection
40	N	Υ	N	41	Weekly Inspection - East LRS Pumped Residual
48	N	Y	N	44	Weekly Inspection
60	N	Υ	N	41	Weekly Inspection - East LRS Pumped Residual
37	Υ	Υ	N	45	Weekly Inspection - East/West LRS Pumped Residual
65	Υ	Υ	N	41	Weekly Inspection - West LRS Pumped Residual
4	N	Υ	N	41	Weekly Inspection - Pump stuck in LRS piping
8	N	Υ	N	41	Weekly Inspection - Pump stuck in LRS piping
10	N	Υ	N	41	Weekly Inspection - Pump stuck in LRS piping
32	Υ	Υ	N	49	Weekly Inspection - Pump stuck in LRS piping
43	N	Υ	N	41	Weekly Inspection - Pump stuck in LRS piping
1	N	Υ	N	45	Weekly Inspection - Pump stuck in LRS piping
6	N	Υ	N	48	Weekly Inspection - East LRS Pumped Residual
18	N	Υ	N	51	Weekly Inspection
87	N	Υ	N	44	Weekly Inspection
48	N	Υ	N	51	Weekly Inspection
60	N	Υ	N	55	Weekly Inspection
46	N	Υ	N	54	Weekly Inspection
48	N	Υ	N	57	Weekly Inspection



Table 10-1 Leachate Collection and Recovery System (LCRS) & Weekly Lysimeter Results (cont.)

Date	East LRS Measurement in inches	East LRS pump Out Yes / No	Lysimiters checked	Water Present	East Pond Level Inches of Free Board
7/2/2023	56	N	Υ	N	188
7/9/2023	55	N	Υ	Ν	189
7/16/2023	5	Ν	Υ	Ν	363
7/23/2023	15	N	Y	Y	363
7/30/2023	24	Ν	Υ	Ν	141
8/6/2023	36	N	Υ	N	144
8/14/2023	36	N	Υ	Ν	363
8/19/2023	32	Y	Υ	N	363
8/27/2023	7	N	Y	N	363
9/3/2023	7	N	Υ	N	363
9/9/2023	35	N	Υ	N	363
9/17/2023	12	N	Υ	N	103
9/24/2023	20	N	Y	Υ	363
10/1/2023	27	N	Y	Υ	363
10/8/2023	36	N	Υ	N	363
10/15/2023	36	N	Y	N	363
10/22/2023	39	N	Υ	N	363
10/29/2023	34	N	Y	N	363
11/4/2023	28	N	Y	N	363
11/12/2023	27	N	Y	N	363
11/19/2023	34	N	Y	N	363
11/26/2023	53	N	Y	N	363
12/2/2023	48	N	Y	N	363
12/10/2023	54	N	Y	N	363
12/16/2023	60	N	Y	Y	363
12/24/2023	40	N	Y	N	363
12/30/2023	59	N	Y	N	363

West LRS Measurement in inches	West LRS pump Out Yes / No	Lysimiters checked	Water Present	West Pond Level Inches of Free Board	Comments
10	N	Υ	N	41	Weekly Inspection
48	N	Υ	N	63	Weekly Inspection
48	N	Υ		65	Weekly Inspection
					Weekly Inspection - Water detected in Lysimeter determined to be rain
50	N	Υ	Υ	55	water
56	N	Υ	N	68	Weekly Inspection
60	N	Υ	N	68	Weekly Inspection
53	N	Υ	N	72	Weekly Inspection
40	N	Υ	N	72	Weekly Inspection - West LRS Pumped Residual
57	N	Υ	N	72	Weekly Inspection
55	N	Y	N	68	Weekly Inspection
62	Υ	Y	N	71	Weekly Inspection - East LRS Pumped Residual
26	N	Υ	N	75	Weekly Inspection
45	N	Y	Y	70	Weekly Inspection - Water detected in Lysimeter determined to be rain water
48	N	Y	N	68	Weekly Inspection - Water detected in Lysimeter determined to be rain water
48	N	Υ	N	70	Weekly Inspection
48	N	Υ	N	72	Weekly Inspection
56	N	Υ	N	73	Weekly Inspection
55	N	Υ	N	71	Weekly Inspection
58	N	Υ	N	73	Weekly Inspection
57	N	Υ	N	72	Weekly Inspection
54	N	Υ	N	71	Weekly Inspection
60	N	Υ	N	72	Weekly Inspection
48	N	Υ	N	72	Weekly Inspection
58	N	Y	N	70	Weekly Inspection
60	Y	Y	N	71	Weekly Inspection - West LRS Pumped Residual - Water detected in Lysimeter determined to be rain water
44	N	Y	N	72	Weekly Inspection
54	N	Y	N	67	Weekly Inspection



SECOND SEMI-ANNUAL 2023 MONITORING REPORT

APPENDIX A

LABORATORY ANALYTICAL DATA SHEETS

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9 10

11

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ANALYTICAL REPORT

PREPARED FOR

Attn: Arlin Brewster Northstar Environmental Remediation 26225 Enterprise Court Lake Forest, California 92630

Generated 10/9/2023 12:04:31 PM

JOB DESCRIPTION

Blythe Energy

JOB NUMBER

570-154386-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780



Eurofins Calscience

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization

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Authorized for release by Sheri Fama, Project Manager I Sheri.Fama@et.eurofinsus.com (657)210-6368

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Definitions/Glossary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-154386-1

Qualifiers

	. ^	-
HP	1 1 2/	
	-	\cdot

Qualifier **Qualifier Description**

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DΙ Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

Not Calculated NC

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Calscience

Page 4 of 20

Case Narrative

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-154386-1

Job ID: 570-154386-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-154386-1

Receipt

The samples were received on 9/27/2023 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

Receipt Exceptions

The following sample was received at the laboratory without a sample collection time documented on the chain of custody MW-4-9-26-23 (570-154386-4) The time of collection was taken from the container labels.

HPLC/IC

Method 300.0: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 570-368832 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

Metals

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

General Chemistry

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

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Sample Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-154386-1

JUD	ID.	IJΙ	0-134300	- 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-154386-1	MW-1-9-26-23	Water	09/26/23 11:35	09/27/23 12:45
570-154386-2	MW-2-9-26-23	Water	09/26/23 10:15	09/27/23 12:45
570-154386-3	MW-3-9-26-23	Water	09/26/23 08:15	09/27/23 12:45
570-154386-4	MW-4-9-26-23	Water	09/26/23 12:50	09/27/23 12:45
570-154386-5	DUP-9-26-23	Water	09/26/23 00:00	09/27/23 12:45

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Detection Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: MW-1-9-26-23 Lab Sample ID: 570-154386-1

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Chloride	180	10	mg/L	10	300.0	Total/NA
Sulfate	470	10	mg/L	10	300.0	Total/NA
Specific Conductance	2000	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1300	20	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-2-9-26-23

l ah	Sami	nla I	D: 57	10_15A	1386-2
Lab	Jaiii	DIE I	D. JI	U- 1 J-	1000-Z

Job ID: 570-154386-1

Analyte	Result Qualifier	RL	Unit	Dil Fac I	Method	Prep Type
Chloride	130	10	mg/L	10	300.0	Total/NA
Sulfate	410	10	mg/L	10	300.0	Total/NA
Specific Conductance	1700	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1100	20	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-3-9-26-23

Lab Sample ID: 570-154386-3

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Chloride	160	10	mg/L	10	300.0	Total/NA
Sulfate	450	10	mg/L	10	300.0	Total/NA
Specific Conductance	1900	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1300	20	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-4-9-26-23

Lab Sample ID: 570-154386-4

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Chloride	330	10	mg/L	10	300.0	Total/NA
Sulfate	360	10	mg/L	10	300.0	Total/NA
Specific Conductance	2000	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1200	20	mg/L	1	SM 2540C	Total/NA

Client Sample ID: DUP-9-26-23

Lab Sample ID: 570-154386-5

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Chloride	130	10	mg/L	10	300.0	Total/NA
Sulfate	420	10	mg/L	10	300.0	Total/NA
Specific Conductance	1700	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1200	20	mg/L	1	SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

10/9/2023

Client: Northstar Environmental Remediation Job ID: 570-154386-1

Project/Site: Blythe Energy

Client Sample ID: MW-1-9-26-23 Lab Sample ID: 570-154386-1

Date Collected: 09/26/23 11:35 **Matrix: Water** Date Received: 09/27/23 12:45

Method: EPA 300.0 - Ani							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180	10	mg/L			09/30/23 08:19	10
Sulfate	470	10	mg/L			09/29/23 09:39	10

Method: EPA 200.7 Rev 4.4 - I	Metals (ICP) -	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		09/28/23 07:21	09/28/23 15:12	1
General Chemistry								

General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	2000		1.0	umhos/cm			10/05/23 12:14	1
Total Dissolved Solids (SM 2540C)	1300		20	mg/L			10/02/23 18:23	1

Lab Sample ID: 570-154386-2 Client Sample ID: MW-2-9-26-23 Date Collected: 09/26/23 10:15 **Matrix: Water**

Date Received: 09/27/23 12:45

Method: EPA 300.0 - A	Anions, Ion Chromat	ography						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		10	mg/L			09/30/23 09:09	10
Sulfate	410		10	mg/L			09/29/23 09:59	10

Method: EPA 200.7 Rev 4.4 - Mo	etals (ICP)	- Total Reco	overable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		09/28/23 07:21	09/28/23 15:14	1

General Chemistry							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	1700	1.0	umhos/cm			10/05/23 12:16	1
Total Dissolved Solids (SM 2540C)	1100	20	mg/L			10/02/23 18:23	1

Client Sample ID: MW-3-9-26-23 Lab Sample ID: 570-154386-3 Date Collected: 09/26/23 08:15 **Matrix: Water**

Date Received: 09/27/23 12:45

Method: EPA 300.0 -								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	160		10	mg/L			09/30/23 09:26	1
Sulfate	450		10	mg/L			09/29/23 10:20	1
Method: EPA 200.7 R	Rev 4.4 - Metals (ICP)	- Total Reco	verable					
		Ovalifian	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Quaimer	IXL	Oint		ricparca	7 tilaiy 20 a	Diria

General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	1900		1.0	umhos/cm			10/05/23 12:18	1
Total Dissolved Solids (SM 2540C)	1300		20	mg/L			10/02/23 18:23	1

Eurofins Calscience

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Lab Sample ID: 570-154386-4 Client Sample ID: MW-4-9-26-23

Date Collected: 09/26/23 12:50

Matrix: Water Date Received: 09/27/23 12:45

Method: EPA 300.0 - Anions, Id	n Chromat	tography						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		10	mg/L			09/30/23 09:43	10
Sulfate	360		10	mg/L			09/29/23 10:41	10

Method: EPA 200.7 Rev 4.4 - N	letals (ICP)	- Total Rec	overable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		09/28/23 07:21	09/28/23 15:19	1

General Chemistry Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	2000		1.0	umhos/cm			10/05/23 12:19	1
Total Dissolved Solids (SM 2540C)	1200		20	mg/L			10/02/23 18:23	1

Client Sample ID: DUP-9-26-23 Lab Sample ID: 570-154386-5 **Matrix: Water**

Date Collected: 09/26/23 00:00 Date Received: 09/27/23 12:45

Method: EPA 300.0 - Anions, Ion Chromatography												
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	130		10	mg/L			09/30/23 10:00	10				
Sulfate	420		10	mg/L			09/29/23 11:02	10				

Method: EPA 200.7 Rev 4.4 - Me	tals (ICP)	- Total Rec	overable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	mg/L		09/28/23 07:21	09/28/23 15:22	1

General Chemistry Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	1700		1.0	umhos/cm			10/05/23 12:21	1
Total Dissolved Solids (SM 2540C)	1200		20	mg/L			10/02/23 18:23	1

Job ID: 570-154386-1

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: MW-1-9-26-23 Lab Sample ID: 570-154386-1

Date Collected: 09/26/23 11:35 **Matrix: Water** Date Received: 09/27/23 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	300.0 t ID: IC10		10	4 mL	4 mL	368832	09/29/23 09:39	YO8L	EET CAL 4
Total/NA	Analysis Instrumen	300.0 t ID: IC7		10	4 mL	4 mL	369227	09/30/23 08:19	U9XB	EET CAL 4
Total Recoverable	Prep	200.7			50 mL	50 mL	368399	09/28/23 07:21	JP8N	EET CAL 4
Total Recoverable	Analysis Instrumen	200.7 Rev 4.4 t ID: ICP10		1			368739	09/28/23 15:12	P1R	EET CAL 4
Total/NA	Analysis Instrumen	SM 2510B t ID: ManSciMantech	1	1			370945	10/05/23 12:14	ZL4M	EET CAL 4
Total/NA	Analysis Instrumen	SM 2540C t ID: BAL100		1	50 mL	1000 mL	369782	10/02/23 18:23	ZL7L	EET CAL 4

Client Sample ID: MW-2-9-26-23 Lab Sample ID: 570-154386-2

Date Collected: 09/26/23 10:15 **Matrix: Water**

Date Received: 09/27/23 12:45 Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Total/NA Analysis 300.0 10 4 mL 4 mL 368832 09/29/23 09:59 YO8L **EET CAL 4** Instrument ID: IC10 Total/NA Analysis 300.0 10 369227 09/30/23 09:09 U9XB **EET CAL 4** 4 mL 4 mL Instrument ID: IC7 Total Recoverable 200.7 50 ml 50 mL **EET CAL 4** Prep 368399 09/28/23 07:21 JP8N Total Recoverable Analysis 200.7 Rev 4.4 368739 09/28/23 15:14 P1R EET CAL 4 Instrument ID: ICP10 Total/NA Analysis SM 2510B 370945 10/05/23 12:16 ZL4M EET CAL 4 Instrument ID: ManSciMantech 369782 Total/NA Analysis SM 2540C 50 mL 1000 mL 10/02/23 18:23 ZL7L EET CAL 4

Client Sample ID: MW-3-9-26-23 Lab Sample ID: 570-154386-3

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Date Collected: 09/26/23 08:15 Date Received: 09/27/23 12:45

Instrument ID: BAL100

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	300.0 t ID: IC10		10	4 mL	4 mL	368832	09/29/23 10:20	YO8L	EET CAL 4
Total/NA	Analysis Instrumen	300.0 t ID: IC7		10	4 mL	4 mL	369227	09/30/23 09:26	U9XB	EET CAL 4
Total Recoverable	Prep	200.7			50 mL	50 mL	368399	09/28/23 07:21	JP8N	EET CAL 4
Total Recoverable	Analysis Instrumen	200.7 Rev 4.4 t ID: ICP10		1			368739	09/28/23 15:47	P1R	EET CAL 4
Total/NA	Analysis Instrumen	SM 2510B t ID: ManSciMantech	1	1			370945	10/05/23 12:18	ZL4M	EET CAL 4
Total/NA	Analysis Instrumen	SM 2540C t ID: BAL100		1	50 mL	1000 mL	369782	10/02/23 18:23	ZL7L	EET CAL 4

Matrix: Water

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Job ID: 570-154386-1

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: MW-4-9-26-23 Lab Sample ID: 570-154386-4

Date Collected: 09/26/23 12:50 **Matrix: Water**

Date Received: 09/27/23 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrument	300.0 t ID: IC10		10	4 mL	4 mL	368832	09/29/23 10:41	YO8L	EET CAL 4
Total/NA	Analysis Instrumen	300.0 t ID: IC7		10	4 mL	4 mL	369227	09/30/23 09:43	U9XB	EET CAL 4
Total Recoverable Total Recoverable	Prep Analysis Instrumen	200.7 200.7 Rev 4.4 t ID: ICP10		1	50 mL	50 mL	368399 368739	09/28/23 07:21 09/28/23 15:19		EET CAL 4 EET CAL 4
Total/NA	Analysis Instrument	SM 2510B t ID: ManSciMantech	1	1			370945	10/05/23 12:19	ZL4M	EET CAL 4
Total/NA	Analysis Instrument	SM 2540C t ID: BAL100		1	50 mL	1000 mL	369782	10/02/23 18:23	ZL7L	EET CAL 4

Lab Sample ID: 570-154386-5 Client Sample ID: DUP-9-26-23

Date Collected: 09/26/23 00:00 **Matrix: Water**

Date Received: 09/27/23 12:45 Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Total/NA Analysis 300.0 10 4 mL 4 mL 368832 09/29/23 11:02 YO8L **EET CAL 4** Instrument ID: IC10 Total/NA Analysis 300.0 10 09/30/23 10:00 U9XB **EET CAL 4** 4 mL 4 mL 369227 Instrument ID: IC7 200.7 **EET CAL 4** Total Recoverable Prep 50 mL 50 mL 368399 09/28/23 07:21 JP8N Total Recoverable

50 mL

1

368739

370945

369782

1000 mL

09/28/23 15:22 P1R

10/05/23 12:21 ZL4M

10/02/23 18:23 ZL7L

Laboratory References:

Total/NA

Total/NA

Analysis

Analysis

Analysis

Instrument ID: ICP10

Instrument ID: BAL100

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

200.7 Rev 4.4

SM 2510B

SM 2540C

Instrument ID: ManSciMantech

Job ID: 570-154386-1

EET CAL 4

EET CAL 4

EET CAL 4

Job ID: 570-154386-1

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-368832/5 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 368832

MB MB

Result Qualifier RL Unit Analyzed Dil Fac Analyte Prepared Sulfate mg/L 09/29/23 05:16 ND 1.0

Lab Sample ID: LCS 570-368832/6 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 368832

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Analyte Unit 50.0 90 - 110 Sulfate 53.4 mg/L 107

Lab Sample ID: LCSD 570-368832/7 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 368832

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD **Analyte** Unit %Rec Limit Sulfate 50.0 53.4 107 90 - 110 mg/L

Lab Sample ID: 570-154386-1 MS Client Sample ID: MW-1-9-26-23 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 368832

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Sulfate 80 - 120 470 50.0 515 4 mg/L

Lab Sample ID: 570-154386-1 MSD

Matrix: Water

Analysis Batch: 368832

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Limit Sulfate 470 50.0 521 4 mg/L 109 80 - 120

Lab Sample ID: MB 570-369227/5

Matrix: Water

Analysis Batch: 369227

MB MB

Analyte Result Qualifier RL Unit Dil Fac Prepared Analyzed 09/30/23 07:29 Chloride ND 1.0 mg/L

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 570-369227/6

Matrix: Water

Analysis Batch: 369227

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec Chloride 50.0 49 1 mg/L 98 90 - 110

Lab Sample ID: LCSD 570-369227/7

Matrix: Water

Analysis Batch: 369227

Spike LCSD LCSD %Rec **RPD** RPD Added Analyte Result Qualifier Unit %Rec Limits Limit Chloride 50.0 48.2 mg/L 96 90 - 110

Eurofins Calscience

Client Sample ID: MW-1-9-26-23

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 570-154386-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 368399

Prep Batch: 368399

Prep Batch: 368399

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Client Sample ID: MW-3-9-26-23

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 570-154386-1 MS Client Sample ID: MW-1-9-26-23

Matrix: Water

Analysis Batch: 369227

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Added %Rec Limits Analyte Unit 80 - 120 Chloride 180 50.0 225 mg/L 80

Lab Sample ID: 570-154386-1 MSD Client Sample ID: MW-1-9-26-23

Matrix: Water

Analysis Batch: 369227

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier D %Rec Limits RPD Limit Unit Chloride 180 50.0 226 mg/L 82 80 - 120 20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-368399/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 368739

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed 09/28/23 07:21 09/28/23 14:26 Selenium ND 0.10 mg/L

Lab Sample ID: LCS 570-368399/2-A Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 368739

LCS LCS Spike %Rec

Analyte Added Result Qualifier Unit %Rec Limits Selenium 0.500 0.524 105 85 - 115 mg/L

Lab Sample ID: LCSD 570-368399/3-A

Matrix: Water

Analysis Batch: 368739

LCSD LCSD **RPD** Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Selenium 0.500 0.510 mg/L 102 85 - 115

Lab Sample ID: 570-154386-3 MS Client Sample ID: MW-3-9-26-23 **Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 368739 Prep Batch: 368399 MS MS %Rec Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Selenium ND 0.500 0.513 103 80 - 120 mg/L

Lab Sample ID: 570-154386-3 MSD

Matrix: Water Prep Type: Total Recoverable Analysis Batch: 368739 Prep Batch: 368399 MSD MSD %Rec

Sample Sample Spike **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Selenium ND 0.500 0.510 102 mg/L 80 - 120

10/9/2023

Client: Northstar Environmental Remediation Job ID: 570-154386-1

Project/Site: Blythe Energy

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 570-370945/10 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 370945

MB MB

Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 1.0 10/05/23 11:17 Specific Conductance ND umhos/cm

Lab Sample ID: 570-154994-I-1 DU **Client Sample ID: Duplicate Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 370945

Sample Sample DU DU **RPD** Analyte Result Qualifier Result Qualifier Unit RPD Limit D 4300 4310 Specific Conductance umhos/cm 0.2 25

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

Lab Sample ID: MB 570-369782/1 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 369782

MB MB Result Qualifier RL Unit Dil Fac Analyte Prepared Analyzed 10 10/02/23 18:23 **Total Dissolved Solids** ND mg/L

Lab Sample ID: LCS 570-369782/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369782

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Total Dissolved Solids 1000 1010 mg/L 101 84 - 108

Lab Sample ID: LCSD 570-369782/3 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369782

LCSD LCSD **RPD** Spike %Rec Analyte Added Result Qualifier Unit Limits **RPD** Limit Total Dissolved Solids 1000 978 mg/L 84 - 108

Lab Sample ID: 570-154386-1 DU Client Sample ID: MW-1-9-26-23 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 369782

DU DU RPD Sample Sample Result Qualifier RPD Result Qualifier Unit D Limit Total Dissolved Solids 1300 1280 mg/L

Eurofins Calscience

10/9/2023

QC Association Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-154386-1

HPLC/IC

Analysis Batch: 368832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-154386-1	MW-1-9-26-23	Total/NA	Water	300.0	
570-154386-2	MW-2-9-26-23	Total/NA	Water	300.0	
570-154386-3	MW-3-9-26-23	Total/NA	Water	300.0	
570-154386-4	MW-4-9-26-23	Total/NA	Water	300.0	
570-154386-5	DUP-9-26-23	Total/NA	Water	300.0	
MB 570-368832/5	Method Blank	Total/NA	Water	300.0	
LCS 570-368832/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-368832/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-154386-1 MS	MW-1-9-26-23	Total/NA	Water	300.0	
570-154386-1 MSD	MW-1-9-26-23	Total/NA	Water	300.0	

Analysis Batch: 369227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-154386-1	MW-1-9-26-23	Total/NA	Water	300.0	
570-154386-2	MW-2-9-26-23	Total/NA	Water	300.0	
570-154386-3	MW-3-9-26-23	Total/NA	Water	300.0	
570-154386-4	MW-4-9-26-23	Total/NA	Water	300.0	
570-154386-5	DUP-9-26-23	Total/NA	Water	300.0	
MB 570-369227/5	Method Blank	Total/NA	Water	300.0	
LCS 570-369227/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-369227/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-154386-1 MS	MW-1-9-26-23	Total/NA	Water	300.0	
570-154386-1 MSD	MW-1-9-26-23	Total/NA	Water	300.0	

Metals

Prep Batch: 368399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-154386-1	MW-1-9-26-23	Total Recoverable	Water	200.7	<u> </u>
570-154386-2	MW-2-9-26-23	Total Recoverable	Water	200.7	
570-154386-3	MW-3-9-26-23	Total Recoverable	Water	200.7	
570-154386-4	MW-4-9-26-23	Total Recoverable	Water	200.7	
570-154386-5	DUP-9-26-23	Total Recoverable	Water	200.7	
MB 570-368399/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-368399/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-368399/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-154386-3 MS	MW-3-9-26-23	Total Recoverable	Water	200.7	
570-154386-3 MSD	MW-3-9-26-23	Total Recoverable	Water	200.7	

Analysis Batch: 368739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-154386-1	MW-1-9-26-23	Total Recoverable	Water	200.7 Rev 4.4	368399
570-154386-2	MW-2-9-26-23	Total Recoverable	Water	200.7 Rev 4.4	368399
570-154386-3	MW-3-9-26-23	Total Recoverable	Water	200.7 Rev 4.4	368399
570-154386-4	MW-4-9-26-23	Total Recoverable	Water	200.7 Rev 4.4	368399
570-154386-5	DUP-9-26-23	Total Recoverable	Water	200.7 Rev 4.4	368399
MB 570-368399/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	368399
LCS 570-368399/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	368399
LCSD 570-368399/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	368399
570-154386-3 MS	MW-3-9-26-23	Total Recoverable	Water	200.7 Rev 4.4	368399
570-154386-3 MSD	MW-3-9-26-23	Total Recoverable	Water	200.7 Rev 4.4	368399

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QC Association Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-154386-1

General Chemistry

Analysis Batch: 369782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-154386-1	MW-1-9-26-23	Total/NA	Water	SM 2540C	
570-154386-2	MW-2-9-26-23	Total/NA	Water	SM 2540C	
570-154386-3	MW-3-9-26-23	Total/NA	Water	SM 2540C	
570-154386-4	MW-4-9-26-23	Total/NA	Water	SM 2540C	
570-154386-5	DUP-9-26-23	Total/NA	Water	SM 2540C	
MB 570-369782/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-369782/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-369782/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-154386-1 DU	MW-1-9-26-23	Total/NA	Water	SM 2540C	

Analysis Batch: 370945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-154386-1	MW-1-9-26-23	Total/NA	Water	SM 2510B	_
570-154386-2	MW-2-9-26-23	Total/NA	Water	SM 2510B	
570-154386-3	MW-3-9-26-23	Total/NA	Water	SM 2510B	
570-154386-4	MW-4-9-26-23	Total/NA	Water	SM 2510B	
570-154386-5	DUP-9-26-23	Total/NA	Water	SM 2510B	
MB 570-370945/10	Method Blank	Total/NA	Water	SM 2510B	
570-154994-I-1 DU	Duplicate	Total/NA	Water	SM 2510B	

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Accreditation/Certification Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-154386-1

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-24

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Method Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-154386-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
SM 2510B	Conductivity, Specific Conductance	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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2841 Dow Avenue, Suite 100

Tustin, CA 92780

Chain of Custody Record

eurofins 💸

Phone (714) 895-5494																					
Client Information	Sampler: Ralph DeLa Pa	rra		Lab Fan	PM: na, S	heri	М					С	arrier Tra	cking No(s):		COC No: 440-210767-3	7763.1			
Client Contact Arlin Brewster	Phone: (949)	2020	1968	E-M: She		ma@	@et.e	eurofi	insus	.com		S	tate of O	rigin:			Page: Page 1 of 1				
Company: Northstar Environmental Remediation			PWSID:							Ana	lysis	Requ	ested				Job#:				
Address: 26225 Enterprise Court	Due Date Request	ted:			П	2	2										Preservation C				Ī
City:	TAT Requested (d	lays):	1		11	Yes or No)	N. M.										A - HCL B - NaOH	M - He N - Nor O - Ash	ne		
Lake Forest State, Zip:		/ lann			Ш	l de	§				.4						C - Zn Acetate D - Nitric Acld E - NaHSO4	P - Na2 Q - Na2	2045		
CA, 92630	Compliance Proje	ct: A Yes	ΔNo		401	9	3										F - MeOH	R - Na. S - H2S			
Phone: 949-274-1719(Tel)	PO# Blythe Energy				ड	V C	Š.										G - Amchior H - Ascorbic Acid	T. TOD	Dodeca	anydrate	
Email: ralphdelaparra@cox.net	WO#:		-		sor	or No)	Calco									5	I - Ice J - DI Water K - EDTA	V-MC W-pH	AA		
Project Name: Blythe Energy	Project #: 44003897	_			وگ	0	3									containe	L-EDA	Y - Triz Z - othe	ma er (speci	lly)	
Site: California	SSOW#:				Samp	SD S	viny, z									of col	Other:				
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Winvester, Smeath, Outwester/oil, STETISSUE, AFAIr Ition Code:	Field Filtered		-									Total Number	Special	Instruction	ons/No	ote:	
	1 2 2 2 2	112 =	Preserva		₩	Y	N I	D	-	+	+		-		++	1					
MW-1 -9-26-23	9-26-23	1135	6	Water	М	W.	X	X	_	-	\perp				-	6					
MW-2 — 4	L1	1015		Water	11	11.	X,	X	\perp	\bot						2					
MW-3 — 1(11	2180		Water	Ш	11.	X	X	\perp							2	-				
MW-4 — 11	11			Water	Ш	1/2	K	X								2					
DUP — I	L\	_		Water	14	1	겍	시	-	_	+-1	4		-	+	2					
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					\sqcap	T	_	57	0-15	4386	Chain	of Cu	stody								-
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Pols					1	Sam	ple	Disp	osal ((A fe	e may	be ass	essed	if samp	les are	retain	ed longer the	1 month	1)		
Non-Hazard Flammable Skin Irritant Pols	on B Unkno	own L	Radiological						To Cl				oosal B	y Lab		Archi	ve For	Mon	ths		
Deliverable Requested: I, II, III, IV, Other (specify)					1	Spec	cial li	nstru	ctions	s/QC I	Require	ments	s:								Ī
Empty Kit Relinquished by:/		Date:			Tim	9:							Meth	od of Ship	ment:						
Relinquisted by	Date/Time:9-7%	323C	1200	Worth H		F	Recei	yed by	r:	17:0	hic	H		Dat	e/Time:	1-7.2	12:47	Compa	my E	C	
Relinquished by:	Date/Time:			Company	4	F	Recen	ved by	<i>(</i> :	1// 6	V - V -				e/Time:			Compa	_		•
Relinquished by:	Date/Time:			Company		F	Recen	ved by	<i>j</i> :					Dat	e/Time:		<u></u>	Compa	iny		
Custody Seals Intact: Custody Seal No.:	1					C	Coole	r Temp	peratur	re(s) °C	and Oth	ner Rem	arks:	CCI	7						

Login Sample Receipt Checklist

Client: Northstar Environmental Remediation Job Number: 570-154386-1

Login Number: 154386 List Source: Eurofins Calscience

List Number: 1

Creator: Vitente, Precy

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

10/9/2023

Eurofins Calscience

ANALYTICAL REPORT

PREPARED FOR

Attn: Arlin Brewster Northstar Environmental Remediation 26225 Enterprise Court Lake Forest, California 92630

Generated 12/29/2023 2:16:05 PM

JOB DESCRIPTION

Blythe Energy Annual

JOB NUMBER

570-163811-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780

Eurofins Calscience

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

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Authorized for release by Sheri Fama, Project Manager I Sheri.Fama@et.eurofinsus.com (657)210-6368

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Definitions/Glossary

Client: Northstar Environmental Remediation

Job ID: 570-163811-1 Project/Site: Blythe Energy SDG: Annual

Qualifiers

Qualifier **Qualifier Description** MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

Ε Result exceeded calibration range.

Metals

Qualifier **Qualifier Description**

LCS/LCSD RPD exceeds control limits.

F1 MS and/or MSD recovery exceeds control limits.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RI Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Northstar Environmental Remediation

Project: Blythe Energy

Job ID: 570-163811-1 Eurofins Calscience

Job Narrative 570-163811-1

Receipt

The samples were received on 12/8/2023 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

HPLC/IC

Method 300.0: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 570-393952 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride and Sulfate in the MS/MSD was above the instrument calibration range. The data have been reported and gualified.

Method 300.0: Due to the high concentration of Chloride and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 570-393952 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

Metals

Method 200.7 Rev 4.4: The following sample was diluted due to the nature of the sample matrix: EP-12-06-23 (570-163811-8). Elevated reporting limits (RLs) are provided.

Method 6010D: The following sample was diluted due to the nature of the sample matrix: EP-12-06-23 (570-163811-8). Elevated reporting limits (RLs) are provided.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/ laboratory control sample (LCS/LCSD) recovery is within acceptance limits.

Method 7471A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-392837 and analytical batch 570-394894 recovered outside control limits for the following analytes: Mercury.

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

General Chemistry

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

Eurofins Calscience

12/29/2023

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Job ID: 570-163811-1

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Sample Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-163811-1 SDG: Annual

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-163811-1	MW-1-12-06-23	Water	12/06/23 15:45	12/08/23 10:25
570-163811-2	MW-2-12-06-23	Water	12/06/23 14:25	12/08/23 10:25
570-163811-3	MW-3-12-06-23	Water	12/06/23 13:05	12/08/23 10:25
570-163811-4	MW-4-12-06-23	Water	12/06/23 17:10	12/08/23 10:25
570-163811-5	DUP-12-06-23	Water	12/06/23 00:00	12/08/23 10:25
570-163811-6	EP (East) Sludge-12-06-23	Solid	12/06/23 13:50	12/08/23 10:25
570-163811-7	EP (West) Sludge-12-06-23	Solid	12/06/23 15:55	12/08/23 10:25
570-163811-8	FP-12-06-23	Water	12/06/23 16:00	12/08/23 10:25

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Project/Site: Blythe Energy

Job ID: 570-163811-1 SDG: Annual

Client Sample ID: MW-1-12-06-23 Lab Sample ID: 570-163811-1

Analyte	Result Qualifier	RL	Unit	Dil Fac	O Method	Prep Type
Chloride	200	10	mg/L	10	300.0	Total/NA
Sulfate	430	10	mg/L	10	300.0	Total/NA
Specific Conductance	1900	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1300	20	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-2-12-06-23

l ah	Sami	nla	ID.	570.	-16381 ^e	1_2
Lab	Jaili	ושוע	ID.	J 1 U -	- 1 0 3 0 1	

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Chloride	130	10	mg/L	10	300.0	Total/NA
Sulfate	390	10	mg/L	10	300.0	Total/NA
Specific Conductance	1700	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1100	10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-3-12-06-23

Lab Sample ID: 570-163811-3

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Chloride	150	20	mg/L	20	300.0	Total/NA
Sulfate	430	20	mg/L	20	300.0	Total/NA
Specific Conductance	1800	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1300	10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-4-12-06-23

Lab Sample ID: 570-163811-4

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Chloride	290	20	mg/L	20	300.0	Total/NA
Sulfate	320	20	mg/L	20	300.0	Total/NA
Specific Conductance	2000	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1200	10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: DUP-12-06-23

Lab Sample ID: 570-163811-5

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Chloride	130	10	mg/L	10	300.0	Total/NA
Sulfate	400	10	mg/L	10	300.0	Total/NA
Specific Conductance	1900	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	1100	10	mg/L	1	SM 2540C	Total/NA

Client Sample ID: EP (East) Sludge-12-06-23

Lab Sample ID: 570-163811-6

Analyte	Result Quali	fier RL	Unit	Dil Fac	D Method	Prep Type
Arsenic	3.8	3.1	mg/Kg		6010B	Total/NA
Barium	22	3.1	mg/Kg	5	6010B	Total/NA
Chromium	2.8	1.0	mg/Kg	5	6010B	Total/NA
Copper	2.9	2.0	mg/Kg	5	6010B	Total/NA
Lead	2.0	2.0	mg/Kg	5	6010B	Total/NA
Molybdenum	13	2.0	mg/Kg	5	6010B	Total/NA
Vanadium	5.1	1.0	mg/Kg	5	6010B	Total/NA
Zinc	20	5.1	mg/Kg	5	6010B	Total/NA

Client Sample ID: EP (West) Sludge-12-06-23

Lab Sample ID: 570-163811-7

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Arsenic	4.4	3.1	mg/Kg	5	6010B	Total/NA
Barium	32	3.1	mg/Kg	5	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

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12/29/2023

Detection Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-163811-1

6010B

Lab Sample ID: 570-163811-8

SDG: Annual

Total/NA

Client Sample ID: EP (West) Sludge-12-06-23 (Continued)

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Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type	
3.5		1.0	mg/Kg	5	6010B	Total/NA	
2.6		2.1	mg/Kg	5	6010B	Total/NA	
2.7		1.0	mg/Kg	5	6010B	Total/NA	

mg/Kg

Client Sample ID: EP-12-06-23

Analyte Chromium Molybdenum Vanadium Zinc

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Sulfate	14000	1000	mg/L	1000	300.0	Total/NA
Chloride - DL	110000	2000	mg/L	2000	300.0	Total/NA
Specific Conductance	180000	1.0	umhos/cm	1	SM 2510B	Total/NA
Total Dissolved Solids	220000	2000	mg/L	1	SM 2540C	Total/NA

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Lab Sample ID: 570-163811-7

Client Sample ID: MW-1-12-06-23

Client: Northstar Environmental Remediation

Date Collected: 12/06/23 15:45 Date Received: 12/08/23 10:25

Project/Site: Blythe Energy

Lab Sample ID: 570-163811-1

Matrix: Water

Method: EPA 300.0 - Anic	ons, Ion Chromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200	10	mg/L			12/16/23 15:18	10
Sulfate	430	10	mg/L			12/16/23 15:18	10

Method: EPA 200.7 Rev 4.4	- Metals (ICP) - Total Reco	verable					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND ND	0.10	mg/L		12/13/23 07:38	12/13/23 15:38	1
General Chemistry	Beaut Ovelifier	DI	l lmi4		Drawarad	Analyzad	Dil Foo

General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	1900		1.0	umhos/cm			12/21/23 15:05	1
Total Dissolved Solids (SM 2540C)	1300		20	mg/L			12/13/23 17:06	1
. , ,								

Lab Sample ID: 570-163811-2 Client Sample ID: MW-2-12-06-23 Date Collected: 12/06/23 14:25 **Matrix: Water**

Date Received: 12/08/23 10:25

Method: EPA 300.0 - A	d: EPA 300.0 - Anions, Ion Chromatography Result Qualifier RL Unit D Prepared A							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		10	mg/L			12/16/23 15:35	10
Sulfate	390		10	mg/L			12/16/23 15:35	10
_				_				

Method: EPA 200.7 Rev 4.4 - M	. ,	coverable					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND	0.10	mg/L		12/13/23 07:38	12/13/23 15:40	1

General Chemistry							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	1700	1.0	umhos/cm			12/21/23 15:03	1
Total Dissolved Solids (SM 2540C)	1100	10	mg/L			12/13/23 17:06	1

Client Sample ID: MW-3-12-06-23 Lab Sample ID: 570-163811-3 Date Collected: 12/06/23 13:05 **Matrix: Water**

Date Received: 12/08/23 10:25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		20	mg/L			12/19/23 07:35	20
Sulfate	430		20	mg/L			12/19/23 07:35	20
Method: EPA 200.7 R	Rev 4.4 - Metals (ICP)	- Total Reco	verable					
	D 16	O	DI.	Unit		Duamanad	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	Ullit	D	Prepared	Allalyzeu	DII Fac

l	Seleman	ND		0.10	ing	// L	12/	13/23 07.30	12/13/23 13.40	'
	General Chemistry									
	Analyte	Result	Qualifier	RL	Un	it C) F	Prepared	Analyzed	Dil Fac
	Specific Conductance (SM 2510B)	1800		1.0	um	hos/cm			12/21/23 15:01	1
	Total Dissolved Solids (SM 2540C)	1300		10	mg	ı/L			12/13/23 17:06	1
Ì	_									

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Lab Sample ID: 570-163811-4

Client Sample ID: MW-4-12-06-23

Method: EPA 300.0 - Anions, Ion Chromatography

Date Collected: 12/06/23 17:10 Date Received: 12/08/23 10:25

D

Prepared

Matrix: Water

Job ID: 570-163811-1

SDG: Annual

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		20	mg/L			12/19/23 07:54	20
Sulfate	320		20	mg/L			12/19/23 07:54	20
	4.4. Matala (IOD)	Total Dane						
Method: EPA 200.7 R Analyte	• • • • • • • • • • • • • • • • • • • •	- Total Reco	verable RL	Unit	D	Prepared	Analyzed	Dil Fac
	• • • • • • • • • • • • • • • • • • • •			Unit mg/L	<u>D</u>	Prepared 12/13/23 07:38		Dil Fac

RL

1.0

10

Unit

mg/L

mg/Kg

mg/Kg

mg/Kg

mg/Kg

umhos/cm

Client Sample ID: DUP-12-06-23

Date Collected: 12/06/23 00:00

Specific Conductance (SM 2510B)

Total Dissolved Solids (SM 2540C)

Analyte

Date Received: 12/08/23 10:25

Result Qualifier

2000

1200

ND

2.8

ND

Lab Sample ID: 570-163811-5

Lab Sample ID: 570-163811-6

12/14/23 09:47 12/16/23 14:24

12/14/23 09:47 12/16/23 14:24

12/14/23 09:47 12/16/23 14:24

12/14/23 09:47 12/16/23 14:24

Analyzed

12/21/23 14:59

12/13/23 17:06

Matrix: Water

Dil Fac

Method: EPA 300.0 - Anio	ons, Ion Chromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130	10	mg/L			12/19/23 08:13	10
Sulfate	400	10	mg/L			12/19/23 08:13	10
_							

Method: EPA 200.7 Rev 4.4 - M	letals (ICP) - Total Red	coverable					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND	0.10	mg/L	_	12/13/23 07:38	12/13/23 15:53	1

General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	1900		1.0	umhos/cm			12/21/23 14:57	1
Total Dissolved Solids (SM 2540C)	1100		10	mg/L			12/13/23 17:06	1

Client Sample ID: EP (East) Sludge-12-06-23

Date Collected: 12/06/23 13:50

Beryllium

Cadmium

Cobalt

Chromium

Matrix: Solid Date Received: 12/08/23 10:25 Method: SW846 6010B - Metals (ICP) Analyte RL Dil Fac Result Qualifier Unit D Prepared Analyzed Antimony ND 10 mg/Kg 12/14/23 09:47 12/16/23 14:24 5 3.1 mg/Kg 12/14/23 09:47 12/16/23 14:24 5 **Arsenic** 3.8 12/14/23 09:47 12/16/23 14:24 5 **Barium 22** 3.1 mg/Kg ND

0.51

0.51

1.0

1.0

			0 0	
Copper	2.9	2.0	mg/Kg	12/14/23 09:47 12/16/23 14:24
Lead	2.0	2.0	mg/Kg	12/14/23 09:47 12/16/23 14:24
Molybdenum	13	2.0	mg/Kg	12/14/23 09:47 12/16/23 14:24
Nickel	ND	2.0	mg/Kg	12/14/23 09:47 12/16/23 14:24
Silver	ND	1.5	mg/Kg	12/14/23 09:47 12/16/23 14:24
Thallium	ND	10	mg/Kg	12/14/23 09:47 12/16/23 14:24
Vanadium	5.1	1.0	mg/Kg	12/14/23 09:47 12/16/23 14:24
Zinc	20	5.1	mg/Kg	12/14/23 09:47 12/16/23 14:24

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12/29/2023

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Client Sample ID: EP (East) Sludge-12-06-23

Date Collected: 12/06/23 13:50 Date Received: 12/08/23 10:25 Lab Sample ID: 570-163811-6

Matrix: Solid

Job ID: 570-163811-1

SDG: Annual

 Method: SW846 7471A - Mercury (CVAA)

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Mercury
 ND
 0.080
 mg/Kg
 12/14/23 16:41
 12/20/23 18:57
 1

Client Sample ID: EP (West) Sludge-12-06-23

Date Collected: 12/06/23 15:55 Date Received: 12/08/23 10:25 Lab Sample ID: 570-163811-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Arsenic	4.4		3.1	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Barium	32		3.1	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Beryllium	ND		0.51	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Cadmium	ND		0.51	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Chromium	3.5		1.0	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Cobalt	ND		1.0	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Copper	ND		2.1	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Lead	ND		2.1	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Molybdenum	2.6		2.1	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Nickel	ND		2.1	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Silver	ND		1.5	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Thallium	ND		10	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Vanadium	2.7		1.0	mg/Kg		12/14/23 09:47	12/16/23 14:33	5
Zinc	27		5.1	mg/Kg		12/14/23 09:47	12/16/23 14:33	5

Method: SW846 7471A - Mercury (CVAA)											
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
l	Mercury	ND		0.080	mg/Kg		12/14/23 16:41	12/20/23 18:58	1		

Client Sample ID: EP-12-06-23

Date Collected: 12/06/23 16:00 Date Received: 12/08/23 10:25 Lab Sample ID: 570-163811-8
Matrix: Water

Method: EPA 300.0 -	Anions, Ion Chroma	tography						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	14000		1000	mg/L			12/16/23 14:44	1000
Method: EPA 300.0 -	Anions, Ion Chroma	tography - D	DL					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110000		2000	mg/L			12/19/23 16:55	2000
Method: EPA 200.7 F	Rev 4.4 - Metals (ICP)	- Total Reco	overable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.0	ma/L		12/13/23 07:38	12/14/23 11:18	10

	ND	1.0	IIIg/L		12/13/23 07.30	12/14/25 11.10	10
_ Method: SW846 6010I	O - Metals (ICP) - Total Reco	verable					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND ND	2.5	mg/L		12/13/23 07:55	12/28/23 13:31	25
Arsenic	ND	2.5	mg/L		12/13/23 07:55	12/28/23 13:31	25
Barium	ND	0.25	mg/L		12/13/23 07:55	12/28/23 13:31	25
Cadmium	ND	0.25	mg/L		12/13/23 07:55	12/28/23 13:31	25
Chromium	ND	1.3	mg/L		12/13/23 07:55	12/28/23 13:31	25

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Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

SDG: Annual

Job ID: 570-163811-1

Lab Sample ID: 570-163811-8

Matrix: Water

CI	ient	Sa	ımpl	e ID): EF	P-12	-06-23

Date Collected: 12/06/23 16:00 Date Received: 12/08/23 10:25

Method: SW846 6010D - Metals	•	Ouglifier	•	•	_	Dramarad	Analysed	Dil Fac
Analyte	Result	Qualifier	RL	Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Cobalt	ND		1.3	mg/L		12/13/23 07:55	12/28/23 13:31	25
Copper	ND		1.3	mg/L		12/13/23 07:55	12/28/23 13:31	25
Lead	ND		1.3	mg/L		12/13/23 07:55	12/28/23 13:31	25
Nickel	ND		1.3	mg/L		12/13/23 07:55	12/28/23 13:31	25
Zinc	ND		6.3	mg/L		12/13/23 07:55	12/28/23 13:31	25
- - - - Mothod: SW846 7470A - Morour	v (CVAA)			· ·				
Method: SW846 7470A - Mercur	v (CVAA)			· ·				
Method: SW846 7470A - Mercur	Result	Qualifier	RL	Unit	_ D	Prepared	Analyzed	Dil Fac
·	, ,	Qualifier	RL	Unit mg/L	_ <u>D</u>	Prepared 12/18/23 19:39	Analyzed 12/20/23 20:36	Dil Fac
Analyte	Result	Qualifier			_ <u>D</u>			Dil Fac
Analyte Mercury	Result ND	Qualifier Qualifier			_ <u>D</u>			Dil Fac
Analyte Mercury General Chemistry	Result ND		0.00020	mg/L	_ =	12/18/23 19:39	12/20/23 20:36	1

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Lab Sample ID: 570-163811-1

Matrix: Water

SDG: Annual

Job ID: 570-163811-1

Client Sample ID: MW-1-12-06-23

Date Collected: 12/06/23 15:45 Date Received: 12/08/23 10:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	300.0 nt ID: IC28		10	4 mL	4 mL	393421	12/16/23 15:18	UIP1	EET CAL 4
Total Recoverable	Prep	200.7			50 mL	50 mL	392120	12/13/23 07:38	JP8N	EET CAL 4
Total Recoverable	Analysis Instrumer	200.7 Rev 4.4 at ID: ICP10		1			392409	12/13/23 15:38	P1R	EET CAL 4
Total/NA	Analysis Instrumer	SM 2510B at ID: ManSciMantec	h	1			395454	12/21/23 15:05	ZL4M	EET CAL 4
Total/NA	Analysis Instrumer	SM 2540C at ID: BAL100		1	50 mL	1000 mL	392414	12/13/23 17:06	JB	EET CAL 4

Client Sample ID: MW-2-12-06-23

Date Collected: 12/06/23 14:25 Date Received: 12/08/23 10:25

Lab Sample ID: 570-163811-2

Lab Sample ID: 570-163811-3

Matrix: Water

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	300.0 at ID: IC28		10	4 mL	4 mL	393421	12/16/23 15:35	UIP1	EET CAL 4
Total Recoverable	Prep	200.7			50 mL	50 mL	392120	12/13/23 07:38	JP8N	EET CAL 4
Total Recoverable	Analysis Instrumen	200.7 Rev 4.4 at ID: ICP10		1			392409	12/13/23 15:40	P1R	EET CAL 4
Total/NA	Analysis Instrumen	SM 2510B at ID: ManSciMantech	1	1			395454	12/21/23 15:03	ZL4M	EET CAL 4
Total/NA	Analysis Instrumen	SM 2540C at ID: BAL100		1	100 mL	1000 mL	392414	12/13/23 17:06	JB	EET CAL 4

Client Sample ID: MW-3-12-06-23

Date Collected: 12/06/23 13:05

Date Received: 12/08/23 10:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20	4 mL	4 mL	393952	12/19/23 07:35	U9XB	EET CAL 4
	Instrumen	t ID: IC31								
Total Recoverable	Prep	200.7			50 mL	50 mL	392120	12/13/23 07:38	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			392409	12/13/23 15:48	P1R	EET CAL 4
	Instrumen	t ID: ICP10								
Total/NA	Analysis	SM 2510B		1			395454	12/21/23 15:01	ZL4M	EET CAL 4
	Instrumen	t ID: ManSciMantech	1							
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	392414	12/13/23 17:06	JB	EET CAL 4
	Instrumen	t ID: BAL100								

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-163811-1

SDG: Annual

Client Sample ID: MW-4-12-06-23

Date Collected: 12/06/23 17:10 Date Received: 12/08/23 10:25

Lab Sample ID: 570-163811-4

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20	4 mL	4 mL	393952	12/19/23 07:54	U9XB	EET CAL 4
	Instrumen	t ID: IC31								
Total Recoverable	Prep	200.7			50 mL	50 mL	392120	12/13/23 07:38	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			392409	12/13/23 15:51	P1R	EET CAL 4
	Instrumen	t ID: ICP10								
Total/NA	Analysis	SM 2510B		1			395454	12/21/23 14:59	ZL4M	EET CAL 4
	Instrumen	t ID: ManSciMantech	1							
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	392414	12/13/23 17:06	JB	EET CAL 4
	Instrumen	t ID: BAL100								

Client Sample ID: DUP-12-06-23

Date Collected: 12/06/23 00:00 Date Received: 12/08/23 10:25

Lab Sample ID: 570-163811-5

Matrix: Water

Batch Batch Dil Initial Batch Final Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Analysis 300.0 10 4 mL 393952 12/19/23 08:13 U9XB EET CAL 4 Instrument ID: IC31 Total Recoverable Prep 200.7 50 mL 50 mL 392120 12/13/23 07:38 JP8N **EET CAL 4** Total Recoverable 200.7 Rev 4.4 392409 12/13/23 15:53 P1R EET CAL 4 Analysis Instrument ID: ICP10 Total/NA Analysis SM 2510B 395454 12/21/23 14:57 ZL4M **EET CAL 4** Instrument ID: ManSciMantech 392414 Total/NA Analysis SM 2540C 100 mL 1000 mL 12/13/23 17:06 JB **EET CAL 4** Instrument ID: BAL100

Client Sample ID: EP (East) Sludge-12-06-23

Date Collected: 12/06/23 13:50 Date Received: 12/08/23 10:25

Lab Sample ID: 570-163811-6 Matrix: Solid

Lab Sample ID: 570-163811-7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.96 g	50 mL	392626	12/14/23 09:47	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			393559	12/16/23 14:24	P1R	EET CAL 4
	Instrumer	t ID: ICP11								
Total/NA	Prep	7471A			0.52 g	50 mL	392837	12/14/23 16:41	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			394894	12/20/23 18:57	CS5Z	EET CAL 4
	Instrumer	t ID: HG7								

Client Sample ID: EP (West) Sludge-12-06-23

Date Collected: 12/06/23 15:55

Date Received: 12/08/23 10:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.95 g	50 mL	392626	12/14/23 09:47	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			393559	12/16/23 14:33	P1R	EET CAL 4
	Instrumen	t ID: ICP11								

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Matrix: Solid

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy SDG: Annual Lab Sample ID: 570-163811-7

Client Sample ID: EP (West) Sludge-12-06-23

Date Collected: 12/06/23 15:55 **Matrix: Solid**

Date Received: 12/08/23 10:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			0.52 g	50 mL	392837	12/14/23 16:41	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			394894	12/20/23 18:58	CS5Z	EET CAL 4
	Instrumer	nt ID: HG7								

Client Sample ID: EP-12-06-23

Lab Sample ID: 570-163811-8

Date Collected: 12/06/23 16:00 **Matrix: Water** Date Received: 12/08/23 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	300.0 at ID: IC28		1000	4 mL	4 mL	393421	12/16/23 14:44	UIP1	EET CAL 4
Total/NA	Analysis Instrumen	300.0 nt ID: IC7	DL	2000	4 mL	4 mL	394093	12/19/23 16:55	URMH	EET CAL 4
Total Recoverable	Prep	200.7			50 mL	50 mL	392120	12/13/23 07:38	JP8N	EET CAL 4
Total Recoverable	Analysis Instrumen	200.7 Rev 4.4 nt ID: ICP10		10			392763	12/14/23 11:18	P1R	EET CAL 4
Total Recoverable	Prep	3005A			50 mL	50 mL	392131	12/13/23 07:55	JP8N	EET CAL 4
Total Recoverable	Analysis Instrumen	6010D nt ID: ICP9		25			396904	12/28/23 13:31	P1R	EET CAL 4
Total/NA	Prep	7470A			25 mL	50 mL	394059	12/18/23 19:39	EV3M	EET CAL 4
Total/NA	Analysis Instrumen	7470A nt ID: HG9		1			394949	12/20/23 20:36	CS5Z	EET CAL 4
Total/NA	Analysis Instrumen	SM 2510B nt ID: ManSciMantech	1	1			395454	12/21/23 14:54	ZL4M	EET CAL 4
Total/NA	Analysis Instrumen	SM 2540C at ID: BAL100		1	0.5 mL	1000 mL	392414	12/13/23 17:06	JB	EET CAL 4

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Job ID: 570-163811-1

Project/Site: Blythe Energy

Job ID: 570-163811-1 SDG: Annual

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-393421/5

Matrix: Water

Analysis Batch: 393421

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

MB MB Analyte Result Qualifier RL Unit D Analyzed Dil Fac **Prepared** Chloride ND 1.0 mg/L 12/16/23 07:31 Sulfate ND 1.0 mg/L 12/16/23 07:31

Lab Sample ID: LCS 570-393421/6

Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 393421

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Chloride 50.0 47.4 mg/L 95 90 - 110 Sulfate 50.0 47.6 95 90 - 110 mg/L

Lab Sample ID: LCSD 570-393421/7

Matrix: Water

Analysis Batch: 393421

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	50.0	47.5		mg/L		95	90 - 110	0	15
Sulfate	50.0	47.3		mg/L		95	90 - 110	1	15

Lab Sample ID: 570-164956-D-12 MS

Matrix: Water

Analysis Batch: 393421

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	69		50.0	111		mg/L		83	80 - 120		
Sulfate	120		50.0	170		mg/L		93	80 - 120		

Lab Sample ID: 570-164956-D-12 MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 393421	

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	69		50.0	111		mg/L		82	80 - 120	0	20
Sulfate	120		50.0	171		mg/L		94	80 - 120	0	20

Matrix: Water

Analysis Batch: 393952

Lab Sample ID: MB 570-393952/5 **Client Sample ID: Method Blank** Prep Type: Total/NA

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride 1.0 ND mg/L 12/18/23 18:26 Sulfate ND 1.0 mg/L 12/18/23 18:26

Lab Sample ID: LCS 570-393952/6

Matrix: Water

Analysis Batch: 393952

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	52.0		mg/L		104	90 - 110	
Sulfate	50.0	51.3		mg/L		103	90 - 110	

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Project/Site: Blythe Energy

Job ID: 570-163811-1 SDG: Annual

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 570-393952/7

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

Matrix: Water

Analysis Batch: 393952

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	50.0	52.0		mg/L		104	90 - 110	0	15	
Sulfate	50.0	51.4		mg/L		103	90 - 110	0	15	

Lab Sample ID: 570-164956-E-26 MS

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

Matrix: Water

Analysis Batch: 393952

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2500	E	50.0	2520	E 4	mg/L		-34	80 - 120	
Sulfate	4500	E	50.0	4460	E 4	mg/L		-116	80 - 120	

Lab Sample ID: 570-164956-E-26 MSD

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 393952

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	2500	E	50.0	2520	E 4	mg/L		-39	80 - 120	0	20
Sulfate	4500	E	50.0	4450	E 4	mg/L		-128	80 - 120	0	20

Lab Sample ID: MB 570-394093/5

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 394093

MB MB

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	1.0	mg/L			12/19/23 07:34	1

Lab Sample ID: LCS 570-394093/6

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

Matrix: Water

Analysis Batch: 394093

_	Spike	e LCS	LCS				%Rec	
Analyte	Adde	d Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 50.	51.3		ma/L		103	90 - 110	

Lab Sample ID: LCSD 570-394093/7

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 394093

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	50.0	51.2		ma/L		102	90 - 110		15

Lab Sample ID: 570-164977-D-1 MS

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

Matrix: Water

Analysis Batch: 394093

,	Sample Sample	Spike	MS MS			%Rec	
Analyte	Result Qualifier	Added	Result Qualifier	Unit	D %Rec	Limits	
Chloride	6.8	50.0	62.0	ma/l		80 120	_

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Job ID: 570-163811-1 SDG: Annual Project/Site: Blythe Energy

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 570-164977-D-1 MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 394093

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	6.8		50.0	62.3		mg/L		111	80 - 120	0	20	

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-392120/1-A **Client Sample ID: Method Blank Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 392409

MB MB

Result Qualifier RL Unit Prepared Analyzed Dil Fac Analyte 0.10 12/13/23 07:38 12/13/23 14:44 $\overline{\mathsf{ND}}$ mg/L Selenium

Lab Sample ID: LCS 570-392120/2-A Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 392409 Prep Batch: 392120 Spike LCS LCS %Rec

Added Result Qualifier Limits Analyte Unit %Rec 85 - 115 Selenium 0.500 0.495 mg/L 99

Lab Sample ID: LCSD 570-392120/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 392409

Prep Batch: 392120 LCSD LCSD Spike %Rec **RPD** Limits Analyte Added Result Qualifier Unit D %Rec RPD Limit

Selenium 0.500 0.496 99 85 - 115 mg/L

Lab Sample ID: 570-163704-C-10-B MS

Matrix: Water

Analysis Batch: 392409

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Selenium 0.500 0.506 mg/L 80 - 120

Lab Sample ID: 570-163704-C-10-C MSD

Matrix: Water

Analysis Batch: 392409 **Prep Batch: 392120** MSD MSD %Rec **RPD** Sample Sample Spike Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Selenium ND 0.500 20 0.519 101 80 - 120 mg/L

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-392626/1-A ^5 Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 393559

	MB MB					
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
Antimony	ND ND	9.8	mg/Kg	12/14/23 09:47	12/16/23 14:14	5
Arsenic	ND	2.9	mg/Kg	12/14/23 09:47	12/16/23 14:14	5
Barium	ND	2.9	mg/Kg	12/14/23 09:47	12/16/23 14:14	5
Beryllium	ND	0.49	mg/Kg	12/14/23 09:47	12/16/23 14:14	5

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Prep Batch: 392120

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 392120

Client Sample ID: Matrix Spike Duplicate Prep Type: Total Recoverable

Prep Batch: 392626

Job ID: 570-163811-1 Project/Site: Blythe Energy SDG: Annual

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

Lab Sample ID: MB 570-392626/1-A ^5

Lab Sample ID: LCS 570-392626/2-A ^5

Matrix: Solid

Matrix: Solid

Analysis Batch: 393559

Analysis Batch: 393559

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 392626

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.49	mg/Kg		12/14/23 09:47	12/16/23 14:14	5
Chromium	ND		0.98	mg/Kg		12/14/23 09:47	12/16/23 14:14	5
Cobalt	ND		0.98	mg/Kg		12/14/23 09:47	12/16/23 14:14	5
Copper	ND		2.0	mg/Kg		12/14/23 09:47	12/16/23 14:14	5
Lead	ND		2.0	mg/Kg		12/14/23 09:47	12/16/23 14:14	5
Molybdenum	ND		2.0	mg/Kg		12/14/23 09:47	12/16/23 14:14	5
Nickel	ND		2.0	mg/Kg		12/14/23 09:47	12/16/23 14:14	5
Silver	ND		1.5	mg/Kg		12/14/23 09:47	12/16/23 14:14	5
Thallium	ND		9.8	mg/Kg		12/14/23 09:47	12/16/23 14:14	5
Vanadium	ND		0.98	mg/Kg		12/14/23 09:47	12/16/23 14:14	5
Zinc	ND		4.9	mg/Kg		12/14/23 09:47	12/16/23 14:14	5

Client Sample ID: Lab Control Sample

Prep Batch: 392626 %Rec

Prep Type: Total/NA

LCS LCS Spike Result Qualifier Analyte Added Unit D %Rec Limits Antimony 50.5 56.0 111 80 - 120 mg/Kg Arsenic 50.5 49.1 mg/Kg 97 80 - 120 Barium 50.5 49.2 mg/Kg 97 80 - 120 Beryllium 50.5 49.2 97 80 - 120 mg/Kg Cadmium 50.5 49.9 99 80 - 120 mg/Kg 99 Chromium 50.5 50.1 mg/Kg 80 - 120 Cobalt 50.5 49.7 80 - 120 mg/Kg 80 - 120 50.5 Copper 48.7 mg/Kg 96 Lead 50.5 50.2 mg/Kg 99 80 - 120 Molybdenum 50.5 50.4 mg/Kg 100 80 - 120 Nickel 50.5 49.8 mg/Kg 99 80 - 120 Silver 25.3 24.2 96 80 - 120 mg/Kg 97 Thallium 50.5 48.8 mg/Kg 80 - 120 Vanadium 50.5 49.2 mg/Kg 97 80 - 120 Zinc 50.5 49.7 mg/Kg 98 80 - 120

Lab Sample ID: LCSD 570-392626/3-A ^5

Matrix: Solid

Analysis Batch: 393559

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 392626

						Lieh De	illi. Ja	12020
Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
49.8	53.9		mg/Kg		108	80 - 120	4	20
49.8	47.1		mg/Kg		95	80 - 120	4	20
49.8	47.7		mg/Kg		96	80 - 120	3	20
49.8	47.8		mg/Kg		96	80 - 120	3	20
49.8	48.3		mg/Kg		97	80 - 120	3	20
49.8	48.7		mg/Kg		98	80 - 120	3	20
49.8	48.3		mg/Kg		97	80 - 120	3	20
49.8	47.3		mg/Kg		95	80 - 120	3	20
49.8	48.8		mg/Kg		98	80 - 120	3	20
49.8	48.9		mg/Kg		98	80 - 120	3	20
49.8	48.6		mg/Kg		98	80 - 120	2	20
	Added 49.8 49.8 49.8 49.8 49.8 49.8 49.8 49.8	Added Result 49.8 53.9 49.8 47.1 49.8 47.7 49.8 47.8 49.8 48.3 49.8 48.7 49.8 48.3 49.8 48.3 49.8 48.8 49.8 48.8 49.8 48.9	Added Result Qualifier 49.8 53.9 49.8 47.1 49.8 47.7 49.8 47.8 49.8 48.3 49.8 48.7 49.8 48.3 49.8 47.3 49.8 48.8 49.8 48.8 49.8 48.9	Added Result Qualifier Unit 49.8 53.9 mg/Kg 49.8 47.1 mg/Kg 49.8 47.7 mg/Kg 49.8 47.8 mg/Kg 49.8 48.3 mg/Kg 49.8 48.7 mg/Kg 49.8 48.3 mg/Kg 49.8 47.3 mg/Kg 49.8 48.8 mg/Kg 49.8 48.8 mg/Kg 49.8 48.9 mg/Kg	Added Result Qualifier Unit D 49.8 53.9 mg/Kg mg/Kg 49.8 47.1 mg/Kg mg/Kg 49.8 47.8 mg/Kg 49.8 48.3 mg/Kg 49.8 48.7 mg/Kg 49.8 48.3 mg/Kg 49.8 47.3 mg/Kg 49.8 48.8 mg/Kg 49.8 48.9 mg/Kg	Added Result Qualifier Unit D %Rec 49.8 53.9 mg/Kg 108 49.8 47.1 mg/Kg 95 49.8 47.7 mg/Kg 96 49.8 48.3 mg/Kg 97 49.8 48.7 mg/Kg 98 49.8 48.3 mg/Kg 97 49.8 47.3 mg/Kg 95 49.8 48.8 mg/Kg 98 49.8 48.8 mg/Kg 98 49.8 48.9 mg/Kg 98	Spike LCSD LCSD WRec MRec Added Result Qualifier Unit D %Rec Limits 49.8 53.9 mg/Kg 108 80 - 120 49.8 47.1 mg/Kg 95 80 - 120 49.8 47.7 mg/Kg 96 80 - 120 49.8 47.8 mg/Kg 97 80 - 120 49.8 48.3 mg/Kg 98 80 - 120 49.8 48.3 mg/Kg 97 80 - 120 49.8 47.3 mg/Kg 95 80 - 120 49.8 48.8 mg/Kg 95 80 - 120 49.8 48.8 mg/Kg 98 80 - 120 49.8 48.8 mg/Kg 98 80 - 120	Added Result Qualifier Unit D %Rec Limits RPD 49.8 53.9 mg/Kg 108 80 - 120 4 49.8 47.1 mg/Kg 95 80 - 120 4 49.8 47.7 mg/Kg 96 80 - 120 3 49.8 47.8 mg/Kg 97 80 - 120 3 49.8 48.3 mg/Kg 98 80 - 120 3 49.8 48.3 mg/Kg 97 80 - 120 3 49.8 47.3 mg/Kg 95 80 - 120 3 49.8 48.8 mg/Kg 95 80 - 120 3 49.8 48.8 mg/Kg 98 80 - 120 3 49.8 48.8 mg/Kg 98 80 - 120 3 49.8 48.8 mg/Kg 98 80 - 120 3 49.8 48.9 mg/Kg 98 80 - 120 3

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Job ID: 570-163811-1 SDG: Annual Project/Site: Blythe Energy

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

Lab Sample ID: LCSD 570-392626/3-A ^5

Matrix: Solid

Analysis Batch: 393559

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 392626

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Silver	24.9	23.5		mg/Kg		94	80 - 120	3	20
Thallium	49.8	48.3		mg/Kg		97	80 - 120	1	20
Vanadium	49.8	47.7		mg/Kg		96	80 - 120	3	20
Zinc	49.8	48.2		mg/Kg		97	80 - 120	3	20

Client Sample ID: EP (East) Sludge-12-06-23

Matrix: Solid

Analysis Batch: 393559

Lab Sample ID: 570-163811-6 MS

Prep Type: Total/NA

Prep Batch: 392626

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	ND		50.3	43.3		mg/Kg		86	75 - 125	
Arsenic	3.8		50.3	53.0		mg/Kg		98	75 - 125	
Barium	22		50.3	70.4		mg/Kg		97	75 - 125	
Beryllium	ND		50.3	47.3		mg/Kg		94	75 - 125	
Cadmium	ND		50.3	46.1		mg/Kg		92	75 - 125	
Chromium	2.8		50.3	51.1		mg/Kg		96	75 - 125	
Cobalt	ND		50.3	46.2		mg/Kg		90	75 - 125	
Copper	2.9		50.3	49.6		mg/Kg		93	75 - 125	
Lead	2.0		50.3	48.6		mg/Kg		93	75 - 125	
Molybdenum	13		50.3	59.9		mg/Kg		94	75 - 125	
Nickel	ND		50.3	47.4		mg/Kg		91	75 - 125	
Silver	ND		25.1	23.5		mg/Kg		94	75 - 125	
Thallium	ND		50.3	44.9		mg/Kg		89	75 - 125	
Vanadium	5.1		50.3	53.5		mg/Kg		96	75 - 125	
Zinc	20		50.3	68.0		ma/Ka		95	75 - 125	

Lab Sample ID: 570-163811-6 MSD

Matrix: Solid

Zinc

Analysis Batch: 393559

Client Sample ID: EP (East) Sludge-12-06-23

Prep Type: Total/NA

Prep Batch: 392626

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit ND Antimony 50.5 41.5 mg/Kg 82 75 - 125 4 20 Arsenic 3.8 50.5 51.1 mg/Kg 94 75 - 125 3 20 22 75 - 125 20 Barium 50.5 68.9 mg/Kg 93 2 Beryllium ND 50.5 45.8 90 75 - 125 20 mg/Kg ND 75 - 125 Cadmium 50.5 44.7 88 20 mg/Kg Chromium 2.8 50.5 49.2 mg/Kg 92 75 - 125 20 Cobalt ND 50.5 44.4 mg/Kg 86 75 - 125 20 Copper 2.9 50.5 48.1 mg/Kg 90 75 - 125 20 Lead 2.0 50.5 46.5 mg/Kg 88 75 - 125 20 Molybdenum 13 50.5 57.1 mg/Kg 88 75 - 125 20 Nickel ND 50.5 45.7 87 75 - 125 20 mg/Kg Silver ND 25.3 22.7 90 75 - 125 20 mg/Kg ND Thallium 50.5 43.6 mg/Kg 86 75 - 125 20 Vanadium 5.1 50.5 92 75 - 125 20 51.8 mg/Kg

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75 - 125

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66.6

mg/Kg

50.5

20

Job ID: 570-163811-1 Project/Site: Blythe Energy SDG: Annual

MD MD

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 570-392131/1-A

Matrix: Water

Analysis Batch: 396904

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 392131

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.10	mg/L		12/13/23 07:55	12/28/23 12:59	1
Arsenic	ND		0.10	mg/L		12/13/23 07:55	12/28/23 12:59	1
Barium	ND		0.010	mg/L		12/13/23 07:55	12/28/23 12:59	1
Cadmium	ND		0.010	mg/L		12/13/23 07:55	12/28/23 12:59	1
Chromium	ND		0.050	mg/L		12/13/23 07:55	12/28/23 12:59	1
Cobalt	ND		0.050	mg/L		12/13/23 07:55	12/28/23 12:59	1
Copper	ND		0.050	mg/L		12/13/23 07:55	12/28/23 12:59	1
Lead	ND		0.050	mg/L		12/13/23 07:55	12/28/23 12:59	1
Nickel	ND		0.050	mg/L		12/13/23 07:55	12/28/23 12:59	1
Zinc	ND		0.25	mg/L		12/13/23 07:55	12/28/23 12:59	1

Lab Sample ID: LCS 570-392131/2-A

Matrix: Water

Analysis Batch: 396904

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

Prep Batch: 392131

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	0.500	0.554		mg/L		111	80 - 120	
Arsenic	0.500	0.523		mg/L		105	80 - 120	
Barium	0.500	0.534		mg/L		107	80 - 120	
Cadmium	0.500	0.526		mg/L		105	80 - 120	
Chromium	0.500	0.533		mg/L		107	80 - 120	
Cobalt	0.500	0.529		mg/L		106	80 - 120	
Copper	0.500	0.527		mg/L		105	80 - 120	
Lead	0.500	0.527		mg/L		105	80 - 120	
Nickel	0.500	0.535		mg/L		107	80 - 120	
Zinc	0.500	0.522		mg/L		104	80 - 120	

Lab Sample ID: LCSD 570-392131/3-A

Matrix: Water

Analysis Batch: 396904

Client Sample ID: Lab Control Sample Dup Prep Type: Total Recoverable

Prep Batch: 392131

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.500	0.542		mg/L		108	80 - 120	2	20
Arsenic	0.500	0.512		mg/L		102	80 - 120	2	20
Barium	0.500	0.526		mg/L		105	80 - 120	2	20
Cadmium	0.500	0.514		mg/L		103	80 - 120	2	20
Chromium	0.500	0.526		mg/L		105	80 - 120	1	20
Cobalt	0.500	0.524		mg/L		105	80 - 120	1	20
Copper	0.500	0.514		mg/L		103	80 - 120	3	20
Lead	0.500	0.517		mg/L		103	80 - 120	2	20
Nickel	0.500	0.531		mg/L		106	80 - 120	1	20
Zinc	0.500	0.510		mg/L		102	80 - 120	2	20

Lab Sample ID: 570-164264-H-1-B MS ^5

Matrix: Water

Analyte

Analysis Batch: 396904

Client Sample ID: Matrix Spike **Prep Type: Total Recoverable Prep Batch: 392131** %Rec Sample Sample Spike MS MS **Result Qualifier** Added Result Qualifier Limits Unit D %Rec

ND 0.500 0.565 72 - 132 Antimony 113 mg/L

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Job ID: 570-163811-1 Project/Site: Blythe Energy SDG: Annual

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 570-164264-H-1-B MS ^5

Matrix: Water

Analysis Batch: 396904

Client Sample ID: Matrix Spike **Prep Type: Total Recoverable**

Prep Batch: 392131

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		0.500	0.541		mg/L		108	80 - 140	
Barium	0.13		0.500	0.682		mg/L		110	87 - 123	
Cadmium	ND		0.500	0.526		mg/L		105	82 - 124	
Chromium	ND		0.500	0.517		mg/L		103	86 - 122	
Cobalt	ND		0.500	0.530		mg/L		106	83 - 125	
Copper	ND		0.500	0.519		mg/L		104	78 - 126	
Lead	ND		0.500	0.510		mg/L		102	84 - 120	
Nickel	ND		0.500	0.546		mg/L		109	84 - 120	
Zinc	ND		0.500	ND		mg/L		107	89 - 131	

Lab Sample ID: 570-164264-H-1-C MSD ^5

Matrix: Water

Analysis Batch: 396904

Client Sample ID: Matrix Spike Duplicate Prep Type: Total Recoverable

Pron Ratch: 392131

								Fieb Do	ilcii. 3	92131
Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
ND		0.500	0.560		mg/L		112	72 - 132	1	10
ND		0.500	0.532		mg/L		106	80 - 140	2	11
0.13		0.500	0.648		mg/L		103	87 - 123	5	6
ND		0.500	0.516		mg/L		103	82 - 124	2	7
ND		0.500	0.509		mg/L		102	86 - 122	2	8
ND		0.500	0.522		mg/L		104	83 - 125	1	7
ND		0.500	0.510		mg/L		102	78 - 126	2	7
ND		0.500	0.508		mg/L		102	84 - 120	0	7
ND		0.500	0.571		mg/L		114	84 - 120	5	7
ND		0.500	ND		mg/L		105	89 - 131	2	8
	Result ND ND 0.13 ND ND ND ND ND ND ND ND ND N	ND 0.13 ND ND ND ND ND ND	Result Qualifier Added ND 0.500 ND 0.500 0.13 0.500 ND 0.500	Result Qualifier Added Result ND 0.500 0.560 ND 0.500 0.532 0.13 0.500 0.648 ND 0.500 0.516 ND 0.500 0.509 ND 0.500 0.522 ND 0.500 0.510 ND 0.500 0.510 ND 0.500 0.508 ND 0.500 0.571	Result Qualifier Added Result Qualifier ND 0.500 0.560 ND 0.500 0.532 0.13 0.500 0.648 ND 0.500 0.516 ND 0.500 0.509 ND 0.500 0.522 ND 0.500 0.510 ND 0.500 0.508 ND 0.500 0.571	Result Qualifier Added Result Qualifier Unit ND 0.500 0.560 mg/L ND 0.500 0.532 mg/L 0.13 0.500 0.648 mg/L ND 0.500 0.516 mg/L ND 0.500 0.509 mg/L ND 0.500 0.522 mg/L ND 0.500 0.510 mg/L ND 0.500 0.508 mg/L ND 0.500 0.508 mg/L ND 0.500 0.571 mg/L	Result Qualifier Added Result Qualifier Unit D ND 0.500 0.560 mg/L mg/L ND 0.500 0.532 mg/L ND 0.500 0.648 mg/L ND 0.500 0.516 mg/L ND 0.500 0.509 mg/L ND 0.500 0.522 mg/L ND 0.500 0.510 mg/L ND 0.500 0.508 mg/L ND 0.500 0.571 mg/L	Result Qualifier Added Result Qualifier Unit D %Rec ND 0.500 0.560 mg/L 112 ND 0.500 0.532 mg/L 106 0.13 0.500 0.648 mg/L 103 ND 0.500 0.516 mg/L 103 ND 0.500 0.509 mg/L 102 ND 0.500 0.522 mg/L 104 ND 0.500 0.510 mg/L 102 ND 0.500 0.508 mg/L 102 ND 0.500 0.508 mg/L 102 ND 0.500 0.501 mg/L 102 ND 0.500 0.501 mg/L 102	Sample Result Spike Qualifier MSD Added WSD MSD MSD WRec Date of MSD MSD Unit Date of MSD MSD D WRec Date of MSD MSD Limits ND 0.500 0.532 mg/L 106 80 - 140 80 - 140 ND 0.500 0.516 mg/L 103 87 - 123 ND 0.500 0.509 mg/L 102 86 - 122 ND 0.500 0.522 mg/L 104 83 - 125 ND 0.500 0.510 mg/L 102 78 - 126 ND 0.500 0.508 mg/L 102 84 - 120 ND 0.500 0.501 mg/L 102 84 - 120 ND 0.500 0.501 mg/L 114 84 - 120	Result ND Qualifier Added Added No.500 Result Qualifier Unit Unit Unit Unit Unit Unit Unit Unit

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 570-394059/1-A

Matrix: Water

Analysis Batch: 394949

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

Prep Batch: 394059

-	MB	MB					-	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		12/18/23 19:39	12/20/23 19:40	1

Lab Sample ID: LCS 570-394059/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 394949 **Prep Batch: 394059** LCS LCS %Rec Spike

Analyte Added Result Qualifier Unit Limits D %Rec 0.00800 Mercury 0.00803 100 80 - 120 mg/L

Lab Sample ID: LCSD 570-394059/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 394949 Prep Batch: 394059**

Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Mercury 0.00800 0.00830 mg/L 104 80 - 120

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12/29/2023

Client: Northstar Environmental Remediation

Job ID: 570-163811-1 SDG: Annual Project/Site: Blythe Energy

Method: 7470A - Mercury (CVAA) (Continued)

ND

0.18 F1

Lab Sample ID: 570-163522-A-1-C MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA Analysis Batch: 394949 **Prep Batch: 394059** Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Added Limits Analyte Unit %Rec

0.00810

mg/L

101

80 - 120

Lab Sample ID: 570-163522-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Water** Prep Type: Total/NA **Prep Batch: 394059 Analysis Batch: 394949** Sample Sample Spike MSD MSD %Rec **RPD** RPD Analyte Result Qualifier Added Result Qualifier D %Rec Limits Limit Unit 0.00800 80 - 120 Mercury ND 0.00825 mg/L 103 2 20

0.00800

Method: 7471A - Mercury (CVAA)

Mercury

Mercury

Lab Sample ID: MB 570-392837/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Total/NA**

Prep Batch: 392837 **Analysis Batch: 394894** MB MB

Result Qualifier RL Unit Analyzed Dil Fac Analyte Prepared 12/14/23 16:41 12/20/23 18:32 Mercury ND 0.082 mg/Kg

Lab Sample ID: LCS 570-392837/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 395299** Prep Batch: 392837 LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits

Mercury 0.392 0.422 mq/Kq 108 80 - 120 Lab Sample ID: LCSD 570-392837/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 394894 Prep Batch: 392837** LCSD LCSD %Rec **RPD** Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Mercury 0.408 0.489 *1 mg/Kg 120 80 - 120

Lab Sample ID: 570-164263-D-6-A MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 394894 Prep Batch: 392837 MS MS Sample Sample %Rec Spike Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits 0.18 F1 0.392 0.698 F1 Mercury 131 80 - 120 mg/Kg

Lab Sample ID: 570-164263-E-6-A MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 394894** Prep Batch: 392837 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit

0.702 F1

mg/Kg

0.400

Eurofins Calscience

129

80 - 120

12/29/2023

Client: Northstar Environmental Remediation

Job ID: 570-163811-1 SDG: Annual Project/Site: Blythe Energy

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 570-395454/10

Matrix: Water

Analysis Batch: 395454

MB MB

Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 1.0 12/21/23 14:24 Specific Conductance ND umhos/cm

Lab Sample ID: 570-165531-B-1 DU

Matrix: Water

Analysis Batch: 395454

Sample Sample DU DU **RPD** Analyte Result Qualifier Result Qualifier Unit RPD Limit D Specific Conductance 8300 8350 umhos/cm 0.1 25

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

Lab Sample ID: MB 570-392414/1

Matrix: Water

Analysis Batch: 392414

MB MB

Result Qualifier RL Unit Dil Fac Analyte Prepared Analyzed 10 12/13/23 17:06 **Total Dissolved Solids** ND mg/L

Lab Sample ID: LCS 570-392414/2

Matrix: Water

Analysis Batch: 392414

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Total Dissolved Solids 1000 1040 mg/L 104 84 - 108

Lab Sample ID: LCSD 570-392414/3

Matrix: Water

Analysis Batch: 392414

LCSD LCSD **RPD** Spike %Rec Analyte Added Result Qualifier Unit Limits **RPD** Limit Total Dissolved Solids 1000 1030 mg/L 103 84 - 108

Lab Sample ID: 570-163811-1 DU

Matrix: Water

Analysis Batch: 392414

DU DU RPD Sample Sample Result Qualifier RPD Limit Result Qualifier Unit D Total Dissolved Solids 1300 1300 0.2 mg/L

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: MW-1-12-06-23

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-163811-1 SDG: Annual

HPLC/IC

Analysis Batch: 393421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-1	MW-1-12-06-23	Total/NA	Water	300.0	
570-163811-2	MW-2-12-06-23	Total/NA	Water	300.0	
570-163811-8	EP-12-06-23	Total/NA	Water	300.0	
MB 570-393421/5	Method Blank	Total/NA	Water	300.0	
LCS 570-393421/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-393421/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-164956-D-12 MS	Matrix Spike	Total/NA	Water	300.0	
570-164956-D-12 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 393952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-3	MW-3-12-06-23	Total/NA	Water	300.0	<u> </u>
570-163811-4	MW-4-12-06-23	Total/NA	Water	300.0	
570-163811-5	DUP-12-06-23	Total/NA	Water	300.0	
MB 570-393952/5	Method Blank	Total/NA	Water	300.0	
LCS 570-393952/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-393952/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-164956-E-26 MS	Matrix Spike	Total/NA	Water	300.0	
570-164956-E-26 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 394093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-8 - DL	EP-12-06-23	Total/NA	Water	300.0	
MB 570-394093/5	Method Blank	Total/NA	Water	300.0	
LCS 570-394093/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-394093/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-164977-D-1 MS	Matrix Spike	Total/NA	Water	300.0	
570-164977-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 392120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-1	MW-1-12-06-23	Total Recoverable	Water	200.7	<u> </u>
570-163811-2	MW-2-12-06-23	Total Recoverable	Water	200.7	
570-163811-3	MW-3-12-06-23	Total Recoverable	Water	200.7	
570-163811-4	MW-4-12-06-23	Total Recoverable	Water	200.7	
570-163811-5	DUP-12-06-23	Total Recoverable	Water	200.7	
570-163811-8	EP-12-06-23	Total Recoverable	Water	200.7	
MB 570-392120/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-392120/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-392120/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-163704-C-10-B MS	Matrix Spike	Total Recoverable	Water	200.7	
570-163704-C-10-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7	

Prep Batch: 392131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-8	EP-12-06-23	Total Recoverable	Water	3005A	_ <u> </u>
MB 570-392131/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 570-392131/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 570-392131/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

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12/29/2023

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Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Metals (Continued)

Prep Batch: 392131 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-164264-H-1-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
570-164264-H-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 392409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-1	MW-1-12-06-23	Total Recoverable	Water	200.7 Rev 4.4	392120
570-163811-2	MW-2-12-06-23	Total Recoverable	Water	200.7 Rev 4.4	392120
570-163811-3	MW-3-12-06-23	Total Recoverable	Water	200.7 Rev 4.4	392120
570-163811-4	MW-4-12-06-23	Total Recoverable	Water	200.7 Rev 4.4	392120
570-163811-5	DUP-12-06-23	Total Recoverable	Water	200.7 Rev 4.4	392120
MB 570-392120/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	392120
LCS 570-392120/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	392120
LCSD 570-392120/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	392120
570-163704-C-10-B MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	392120
570-163704-C-10-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	392120

Prep Batch: 392626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-6	EP (East) Sludge-12-06-23	Total/NA	Solid	3050B	
570-163811-7	EP (West) Sludge-12-06-23	Total/NA	Solid	3050B	
MB 570-392626/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 570-392626/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-392626/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-163811-6 MS	EP (East) Sludge-12-06-23	Total/NA	Solid	3050B	
570-163811-6 MSD	EP (East) Sludge-12-06-23	Total/NA	Solid	3050B	

Analysis Batch: 392763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-8	EP-12-06-23	Total Recoverable	Water	200.7 Rev 4.4	392120

Prep Batch: 392837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-6	EP (East) Sludge-12-06-23	Total/NA	Solid	7471A	
570-163811-7	EP (West) Sludge-12-06-23	Total/NA	Solid	7471A	
MB 570-392837/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-392837/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-392837/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-164263-D-6-A MS	Matrix Spike	Total/NA	Solid	7471A	
570-164263-E-6-A MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 393559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-6	EP (East) Sludge-12-06-23	Total/NA	Solid	6010B	392626
570-163811-7	EP (West) Sludge-12-06-23	Total/NA	Solid	6010B	392626
MB 570-392626/1-A ^5	Method Blank	Total/NA	Solid	6010B	392626
LCS 570-392626/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	392626
LCSD 570-392626/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	6010B	392626
570-163811-6 MS	EP (East) Sludge-12-06-23	Total/NA	Solid	6010B	392626
570-163811-6 MSD	EP (East) Sludge-12-06-23	Total/NA	Solid	6010B	392626

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Job ID: 570-163811-1

SDG: Annual

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Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-163811-1 SDG: Annual

Metals

Prep Batch: 394059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-8	EP-12-06-23	Total/NA	Water	7470A	
MB 570-394059/1-A	Method Blank	Total/NA	Water	7470A	
LCS 570-394059/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 570-394059/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
570-163522-A-1-C MS	Matrix Spike	Total/NA	Water	7470A	
570-163522-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 394894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-6	EP (East) Sludge-12-06-23	Total/NA	Solid	7471A	392837
570-163811-7	EP (West) Sludge-12-06-23	Total/NA	Solid	7471A	392837
MB 570-392837/1-A	Method Blank	Total/NA	Solid	7471A	392837
LCSD 570-392837/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	392837
570-164263-D-6-A MS	Matrix Spike	Total/NA	Solid	7471A	392837
570-164263-E-6-A MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	392837

Analysis Batch: 394949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-8	EP-12-06-23	Total/NA	Water	7470A	394059
MB 570-394059/1-A	Method Blank	Total/NA	Water	7470A	394059
LCS 570-394059/2-A	Lab Control Sample	Total/NA	Water	7470A	394059
LCSD 570-394059/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	394059
570-163522-A-1-C MS	Matrix Spike	Total/NA	Water	7470A	394059
570-163522-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	394059

Analysis Batch: 395299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-392837/2-A	Lab Control Sample	Total/NA	Solid	7471A	392837

Analysis Batch: 396904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-8	EP-12-06-23	Total Recoverable	Water	6010D	392131
MB 570-392131/1-A	Method Blank	Total Recoverable	Water	6010D	392131
LCS 570-392131/2-A	Lab Control Sample	Total Recoverable	Water	6010D	392131
LCSD 570-392131/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010D	392131
570-164264-H-1-B MS ^5	Matrix Spike	Total Recoverable	Water	6010D	392131
570-164264-H-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6010D	392131

General Chemistry

Analysis Batch: 392414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-1	MW-1-12-06-23	Total/NA	Water	SM 2540C	
570-163811-2	MW-2-12-06-23	Total/NA	Water	SM 2540C	
570-163811-3	MW-3-12-06-23	Total/NA	Water	SM 2540C	
570-163811-4	MW-4-12-06-23	Total/NA	Water	SM 2540C	
570-163811-5	DUP-12-06-23	Total/NA	Water	SM 2540C	
570-163811-8	EP-12-06-23	Total/NA	Water	SM 2540C	
MB 570-392414/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-392414/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-392414/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

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Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-163811-1 SDG: Annual

General Chemistry (Continued)

Analysis Batch: 392414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-1 DU	MW-1-12-06-23	Total/NA	Water	SM 2540C	

Analysis Batch: 395454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-163811-1	MW-1-12-06-23	Total/NA	Water	SM 2510B	
570-163811-2	MW-2-12-06-23	Total/NA	Water	SM 2510B	
570-163811-3	MW-3-12-06-23	Total/NA	Water	SM 2510B	
570-163811-4	MW-4-12-06-23	Total/NA	Water	SM 2510B	
570-163811-5	DUP-12-06-23	Total/NA	Water	SM 2510B	
570-163811-8	EP-12-06-23	Total/NA	Water	SM 2510B	
MB 570-395454/10	Method Blank	Total/NA	Water	SM 2510B	
570-165531-B-1 DU	Duplicate	Total/NA	Water	SM 2510B	

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Accreditation/Certification Summary

Client: Northstar Environmental Remediation

Job ID: 570-163811-1 Project/Site: Blythe Energy SDG: Annual

Laboratory: Eurofins Calscience

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

Authority	Progra	ım	Identification Number	Expiration Date	
California	State		3082	07-31-24	
for which the agency	does not offer certification		not certified by the governing authori	ity. This list may include analyte	
Analysis Method	Prep Method	Matrix	Analyte		
Analysis Method 300.0	Ргер метпоа	Water	Analyte Chloride		
	Ргер Метпоа				
300.0	Ргер метпоа	Water	Chloride		

Method Summary

Client: Northstar Environmental Remediation

Project/Site: Blythe Energy

Job ID: 570-163811-1 SDG: Annual

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
6010D	Metals (ICP)	SW846	EET CAL 4
7470A	Mercury (CVAA)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
SM 2510B	Conductivity, Specific Conductance	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CAL 4
3050B	Preparation, Metals	SW846	EET CAL 4
'470A	Preparation, Mercury	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Eurofins Calscience

2841 Dow Avenue, Suite 100 Tuetin CA 92780

Chain of Custody Record

« eurofins

Loc: 570

Phone (714) 895-5494																		10301
Client Information		Sampler: Ralph De La Pa	rra		Lab PM		neri M					Ca	rrier Tracki	ng No(s)	:	············	COC No: 570-88420-18777.	1
Client Contact: Arlin Brewster		Phone: (949)702-0968	E-Mail: State of Origin:				Page: Page 1 of 1	-										
Company:		(343)102-0368		PWSID:	Silei	i.raii	пашет	euloi	insus.c	20111							Job#:	
Northstar Environmental Remediation										Ana	alysis	Reque	sted		,			
Address: 26225 Enterprise Court		Due Date Requested	:						ium,								Preservation Codes	M - Hexane
City: Lake Forest		TAT Requested (day		1		П			Arsenk, Barium, Cadmium, Total Chromium, Lead, 7471B Mercury, Nickel, Zinc,								B - NaOH	N - None O - AsNaO2 P - Na2O4S
State, ZIp: CA, 92630		Compliance Project:	A Yes A N				98,		Total , Zinc,	nadiun							D - NITIC ACID	Q - Na2SO3 R - Na2SO3
Phone		PO#					L bot		nium. Nicke	n, Var							F - MeOH	S - H2SO4
949-274-1719(Tel)		Blythe Energy wo#			—	Ω _N	ű,		Cadr ury,	alliur							H - ASCORDIC ACIO	T - TSP Dodecehydrate U - Acetone
arlin.brewster@northstarer.com		Annual				S O.	2 8 2		Merc Merc	E.							2 - Ol Assime	V - MCAA W - pH 4-5
Project Name: Blythe Energy		Project#: 57013297				Sample (Yes or No.	9 9 9		, Bar 671B	Silver						1.0	K-EDIA	Y - Trizma
Site:		SSOW#				mple.	E in the		ad, 7	m m						Ichao	Other:	Z - other (specify)
California						Sa		_	Y. Y.	ybde						7	5	
Sample Identification		Sample Date	Sample Time	Type (W=ws	latrix ter, Secotid, vacto/oll, seus, A=Air)	Field Filtered	Perform MS/ Z5108 Specific 3m ORGFM 2	200.7 - Seleniur	6010D Antimony, Colbott, Copper, I	Beryllium, Mot						Total Manhae	Special Ins	tructions/Note:
			\times	Preservation (Code:	X	X N	D	N									
MW-1-12-06-23		12-6-23	1545	6 W	Vater	Ш	×	x										
MW-2-12-06-23	2,	\	1425	l v	/ater	П	×	х										
WW-3-12-06-23	3		1305	\ \	/ater	П	х	×										
/W-4-12-06-23	4		1710	/ W	/ater	П	х	х										
DUP-12-06-23	5			/ w	/ater		×	х										
EP (East) Sludge-12-06-23	6		1350	s	olid	П			х	×								
EP (West) Sludge-12-06-23	7		1555	S	olid				х	×								
EP-12-06-23	2		1600	\ w	/ater	П	×	х	x					7,				101
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D - 14 1 1 - 15 15 15 15						Ц.					لبل							
Possible Hazard Identification Non-Hazard Flammable Skin Imitant	Poison	B Gnknow		diological		١			osai (To Cl				ssea it s osal By L		es are	retain	ed longer than 1 mo hive For	
Deliverable Requested: I, II, III, IV, Other (specify)	Poison	B Unknow	n Rai	ulological		5					Requirer		osai by L	aD		Arci	live For	Months
Empty Kit Relinguished by			Date:			Time	a:						Method	of Shipme	ent:			
(elinquished by/)		Date/Tighey)		Compe				d bevi		7						de	22 1635	Company
Relinquished by:		Date/Time:	301		Altar		Par	shraet b.		M	the					8/20	23 625	<u> </u>
		odkerime;		Compa	лгу		Kece	lived by						Deta	/Time:			Company
Relinquished by:		Date/Time:		Compe	iny		Rece	lved by	r:			-		Date	Time:			Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No							Cool	er Tem	perature((s) °C a	ind Other R	Remarks:	2.0	0/3	٠٥	SC	14	

Login Sample Receipt Checklist

Client: Northstar Environmental Remediation

Job Number: 570-163811-1

SDG Number: Annual

Login Number: 163811 List Source: Eurofins Calscience

List Number: 1

Creator: Gutierrez, Rebecca

Answer	Comment
N/A	
True	
N/A	
	N/A True True True True True True True Tru

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

Final Determination/Decision - Statement of Basis for Renewal of

FOP Number: 130202262

For:

BLYTHE ENERGY, INC.

Facility:

BLYTHE ENERGY PROJECT

Facility Address:

385 N. Buck Blvd. Blythe, CA 92226

Document Date: September 5, 2023
Submittal date to EPA/CARB for review: September 5, 2023
EPA/CARB 45-day Commenting Period ends: October 21, 2023
Public Notice Posted: September 5, 2023
Public Commenting Period ends: October 6, 2023
Permit Issue date: November 1, 2023

Permitting Engineer: Roseana Brasington

14306 PARK AVENUE, VICTORVILLE, CALIFORNIA 92392
PHONE: (760) 245-1661 • FAX: (760) 245-2022 • EMAIL: ENGINEERING@MDAQMD.CA.GOV

A. Introduction

1. Application and Setting

BACKGROUND:

Federal Operating Permit (FOP) number 130202262 is for Blythe Energy, Inc. (BEP). BEP uses two F-Class Siemens V84.3A combustion turbine generators (CTGs) with dedicated heat recovery steam generators (HRSGs) to produce electricity. Inlet air to the CTGs is filtered and, during seasonally warm conditions, conditioned with chilled air supported by a mechanical draft wet cooling tower (chiller). Compressed air and natural gas are mixed and combusted in the turbine combustion chamber. Lean pre-mixed air and low-NOx combustors are used to minimize NOx formation during combustion. Exhaust gas from the combustion chamber is expanded through a multi-stage power turbine, which drives both the air compressor and electric power generator. Heat from the exhaust gas is then recovered in the HRSG.

Each HRSG is equipped with a duct burner to provide supplementary firing during high ambient temperatures to maintain constant steam production to the condensing steam turbine generator (STG). A Selective Catalytic Reduction (SCR) system is used to reduce NOx emissions. An Oxidation Catalyst is used to reduce CO and VOC. Steam is produced in each HRSG and flows to the STG. The STG drives an electric generator to produce electricity. STG exhaust steam is condensed in a surface condenser with water from the main cooling tower.

BEP also has a 303 bhp emergency diesel-fueled internal combustion engine that drives a water pump for fire suppression and a propane fueled 114 bhp internal combustion engine that drives an emergency electrical power generator.

BEP is located in a "Zone B" area as defined by Rule 1201(S)(2) which means that the area is designated Federal Attainment or Unclassified for Ozone.

POLLUTANT	STATE AREA	FEDERAL AREA
	DESIGNATION	DESIGNATION
OZONE	NONATTAINMENT	UNCLASSIFIED/ATTAINMENT
Precursors: NOx, VOC		
NO2	ATTAINMENT	UNCLASSIFIED/ATTAINMENT
CO	ATTAINMENT	UNCLASSIFIED/ATTAINMENT
PM10	NONATTAINMENT	NONATTAINMENT
Precursors: SOx, NOx,		
VOC		
PM2.5	NONATTAINMENT	UNCLASSIFIED/ATTAINMENT
SO2	ATTAINMENT	UNCLASSIFIED

BEP is defined as a Major Facility pursuant to District Rule 1201 – Federal Operating Permit Definitions, section 1201(S) and also pursuant to PSD Program, as this facility has a Potential to Emit (PTE) as shown below:

POLLUTANT	BEP	REGULATION	REGULATION	REGULATION	REGULATION	PSD	PSD
	PTE	XIII - NSR	XIII - NSR	XII - TV	XII - TV	THRESHOLD	STATUS
		THRESHOLD	FACILITY	THRESHOLD	FACILITY		
			STATUS		STATUS		
NOx	97	25	MAJOR	100	NON MAJOR	100	NON MAJOR
VOC	24	25	NON MAJOR	100	NON MAJOR	100	NON MAJOR
PM10	56.9	15	MAJOR	100	NON MAJOR	100	NON MAJOR
SOx	12	25	NON MAJOR	100	NON MAJOR	100	NON MAJOR
CO	175.0	100	MAJOR	100	MAJOR	100	MAJOR
HAP		10 ANY HAP	AREA	10 ANY HAP	AREA	NONE HAP IS	NA
		25 ANY		25 ANY		NOT A PSD	
		COMBINATION		COMBINATION		POLLUTANT	
		OF HAP		OF HAP			

2. Description of Proposed Action

BEP proposes to renew the FOP and to make changes to the monitoring requirements related to the Continuous Emissions Monitoring System. The Mojave Desert Air Quality Management District (MDAQMD or District) received the following applications:

- June 2, 2021 application to renew Acid Rain Permit
- October 8, 2021 application to renew the current Title V Federal Operating Permit (FOP) for BEP.
- September 12, 2022 application for modification. The proposed administrative modification changes the facility primary and alternate contacts.

This document serves as the final determination to revise the permit as necessary to renew it pursuant to Rule 1203(B). This final determination will be submitted to USEPA, CARB, and the public for review and comment. Please refer to the cover page of this document for the noticing and comment period timeframes.

The FOP will be formatted to conform with new District guidelines and minor typographical and spelling errors will be corrected. The permit has been updated to include citations from PSD permit SE 02-01. BEP has proposed to revise the permit conditions related to the CO CEMS, harmonizing the monitoring requirements of Part 60 and Part 75 and to establish in the Operating Permit ongoing quality assurance requirements for the CEMS. None of these changes alter any emissions limitations or relax any monitoring, recordkeeping, or reporting requirements.

Pursuant to Regulation XII, Federal Operating Permits, the District has reviewed the terms and conditions of this Federal Operating Permit. This review included an analysis of federal, state, and local applicability determinations for all sources, including those that have been modified or permitted since the original issuance of the Federal Operating Permit. The review also included an assessment of all monitoring in the permit for sufficiency to determine compliance. This Statement of Legal and Factual Basis, pursuant to Rule 1203(B)(1)(a)(i), is intended to assess the adequacy of the proposed Title V Permit renewal and explain the District's basis in composing the proposed Title V Permit renewal.

B. Title V Permit/FOP

1. Proposed Changes to FOP

The proposed changes to the FOP are indicated in the red-line version of the draft. Additionally, a description and explanation of those changes are indicated below:

PART I: INTRODUCTORY INFORMATION

Final Determination/Decision – Statement of Basis Blythe Energy Project September 5, 2023 Page 3 This section of the Federal Operating Permit contains general information about the BEP facility, including facility identifying information (section A), a description of the facility (section B), and a description of the facility's equipment (section C).

Changes made to this section of the FOP:

- Update of Responsible Official, facility primary and alternate contacts
- Added language indicating what pollutants trigger Title V applicability
- Updated Model/Serial Numbers for cooling tower under permit B007958

PART II: FACILITYWIDE APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

This section of the Federal Operating Permit contains requirements applicable to the entire facility and equipment (section A), facility-wide monitoring, recordkeeping, and reporting requirements (section B), and facility-wide compliance conditions (section C).

Changes made to this section of the FOP:

- Section A
 - o Added Rule 201 language in accordance with current permitting standards as it is an applicable requirement
 - o Updated Rule 203 language to current permitting standards
 - o Updated Rule 204 language to current permitting standards
 - o Updated Rule 206 language to current permitting standards
 - o Updated Rule 207 language to current permitting standards
 - o Updated Rule 209 language to current permitting standards
 - o Updated Rule 217 language to current permitting standards
 - o Updated Rule 219 language to current permitting standards
 - o Updated Rule 221 language to current permitting standards
 - o Updated Rule 301 language to current permitting standards
 - o Updated Rule 312 language to current permitting standards
 - o Updated Rule 401 language to reflect current rule requirements
 - Added Rule 402 language in accordance with current permitting standards as it is an applicable requirement
 - o Updated Rule 403 language to reflect current rule requirements
 - o Updated Rule 403.2 language to reflect current rule requirements
 - o Updated Rule 404 language to reflect current rule requirements
 - Added Rule 431 language in accordance with current permitting standards as it is an applicable requirement
 - o Added Rule 441 language in accordance with current permitting standards as it is an applicable requirement
 - o Updated Rule 442 language to reflect current rule requirements

- o Added Rule 462 language in accordance with current permitting standards as it is an applicable requirement
- o Added Rule 463 language in accordance with current permitting standards as it is an applicable requirement
- o Added Rule 900 language in accordance with current permitting standards as it is an applicable requirement
- o Added Rule 1104 language in accordance with current permitting standards
- o Updated Rule 1113 language to reflect current rule requirements
- o Updated Rule 1114 language to reflect current rule requirements
- o Updated Rule 1115 language to reflect current rule requirements
- o Added Rule 1116 language in accordance with current permitting standards as it is an applicable requirement
- o Added Rule 1159 in accordance with current permitting standards as it is an applicable requirement
- o Added Rule 1168 in accordance with current permitting standards as it is an applicable requirement
- o Added Rule 1211 in accordance with current permitting standards as it is an applicable requirement
- o Added requirement for deadlines pertaining to the submission of Title V Permit Renewal per District Rule 1202.
- Updated citation of regulatory requirements related to Comprehensive Emission Inventory reporting
- Updated Rule 1203 and 1208 related to Compliance Certification to current permitting standards
- Section B updated rule citations, added requirements and citations associated with PSD permit SE 02-01 4/07
- Section C
 - o Updated 40 CFR 61 Subparts A and M language to current permitting standards
 - o Added 40 CFR 63 Subpart ZZZZ as it is an applicable requirement
 - o Added 40 CFR 60 Subpart GG as it is an applicable requirement
 - o Added 40 CFR 60 Subpart Db as it is an applicable requirement

PART III: EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

This section of the Federal Operating Permit contains equipment-specific applicable requirements including emission limitations, monitoring and recordkeeping, reporting and testing, and compliance plans.

Changes made to this section of the FOP:

• Sections A and B related to the combustion turbines:

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- o updated rule citations, added requirements and citations associated with PSD permit SE 02-01 4/07
- o revised permit condition related to the monitoring requirements for the CO CEMS
- o added references to 40 CFR 60 Subparts A and Db and Title IV Acid Rain Program
- Updated conditions 11 and 13 to reference the District Compliance Test Procedural Manual
- o Modified Condition 16 to add ongoing NO_x, O₂ and CO CEMS QA requirements and to clarify how each analyzer is certified (NO_x and O₂ by 40 CFR 75, CO by 40 CFR 60 Appendix B, PS-4).
- o For the NOx and CO CEMS, the current permit references only analyzer performance specifications from 40 CFR 60 Appendix B. This condition was updated to specify that the NOx and O2 analyzers are certified in accordance with 40 CFR 75 and to add ongoing CEMS QA requirements for NOx, O2 and CO. Since ongoing CEMS QA is not currently specified by permit, Blythe would like to document that the NOx and O2 analyzers follow 40 CFR 75 and the CO analyzers follows 40 CFR 60 Appendix F with certain provisions adopted from 40 CFR 75. This hybrid approach for CO enables Blythe to conduct quarterly audits on the same schedule. Harmonizing 40 CFR 60 with 40 CFR 75 monitoring provisions has been the subject of many EPA and State/local monitoring petition approvals. Also, in 2007, EPA harmonized certain 40 CFR 60 subparts to allow for data from certified 40 CFR 75 monitors to be used to demonstrate compliance with 40 CFR 60 emissions limits. For example, 40 CFR 60 Subpart GG allows for alternative testing and monitoring procedures harmonizing the requirements of Subpart GG with the monitoring provisions of 40 CFR 75. A comparison of the 40 CFR 60 and 40 CFR 75 differences specific to Blythe's QA program are shown below.
 - OA Test Schedules and Grace Periods:
 - RATAs: 40 CFR 60 Appendix F QA RATAs are required once every four calendar quarters with an option to extend if the fourth quarter is a non-operating quarter. 40 CFR 75 QA RATAs are required at least once every four QA operating quarters (a "QA operating quarter" is a calendar quarter in which the unit operated in at least 168 hours; "four QA operating quarters" assumes the incentive criteria is satisfied, which is common; otherwise, the standard frequency is every two QA operating quarters) but no less frequently than once every eight calendar quarters, plus a 720-unit operating hour grace period following the expiration of the standard deadline.
 - Linearity Checks / CGAs: 40 CFR 60 Appendix F CGAs are required in all quarters in which a RATA is not conducted with an exclusion for non-operating quarters. 40 CFR 75 linearity checks

(analogous to the 40 CFR 60 CGA) are required at least once during each QA operating quarter, not to exceed four calendar quarters, plus a 168-unit operating hour grace period following the expiration of the standard deadline.

- Analyzer Range Exemptions for CGAs: 40 CFR 60 does not contain CGA exemptions for low-emitting sources, while 40 CFR 75 contains linearity check exemptions for analyzer ranges with span values less than or equal to 30 ppm. Blythe uses this exemption for the NOx and CO low ranges.
- RATA Load: 40 CFR 60 specifies that RATAs are to be conducted while operating at more than 50 percent of normal load while 40 CFR 75 specifies that testing shall be conducted at a normal load level(s) as determined in accordance with 40 CFR 75 Appendix A Section 2.3.1.3(a).
- added permit condition specifying Comprehensive Emission Inventory Requirements
- Sections C and D related to the duct burners:
 - o Clarified and expanded citation of 40 CFR 60 Subpart Db
 - o updated rule citations, added requirements and citations associated with PSD permit 02-01
 - o added permit condition specifying Comprehensive Emission Inventory Requirements
- Sections E and F related to the SCR Units
 - o updated rule citations, added requirements and citations associated with PSD permit 02-01
- Sections G & H related to the oxidation catalysts
 - o updated rule citations, added requirements and citations associated with PSD permit 02-01
- Section I related to the main cooling tower
 - o updated rule citations, added requirements and citations associated with PSD permit 02-01
- Section J related to the chiller cooling tower
 - o Updated equipment details to correct model/serial numbers
 - o updated rule citations, added requirements and citations associated with PSD permit 02-01
- Section K related to the diesel emergency fire pump and Section L related to the propane emergency generator
 - o Updated rule citations
 - O Updated permit condition 4 of permits E007961 and E009492 removing the vacated provision of 40 CFR 63 Subpart ZZZZ Section 63.6640(f)(1)(ii) Added condition to permit for E008159 which clarifies appropriate non-emergency use as allowed under 40 CFR 63.6640(f)at an area HAP source.
 - o Clarified citation for permit condition 5 for E007961 with respect to operating for the purposes of compliance with NFPA 25 requirements.

- o Updated recordkeeping requirements in accordance with 40 CFR 63.6655(f)
- o Added requirements 40 CFR 63.6603(a)
- o added permit condition specifying Comprehensive Emission Inventory Requirements

PART IV: STANDARD FEDERAL OPERATING PERMIT CONDITIONS

No changes were made to this section

PART V: OPERATIONAL FLEXIBILITY

No changes were made to this section

PART VI: ACID RAIN PERMIT

• Updated Title IV Acid Rain Permit with current designated representative and facility contact person.

PART VII: CONVENTIONS, ABREVIATIONS, DEFINITIONS

Changes made to this section of the FOP:

• Updated SIP table

5. Rules and Regulations Applicable to the Proposed Project

District Rules

Rules 203 – Permit to Operate. Any equipment which may cause the issuance of air contaminants must obtain authorization for such construction from the Air Pollution Control Officer. BEP is in compliance with this rule as they maintain District permits for all residing equipment per Part II, section A of their FOP.

Rule 204 – Permit Conditions. To assure compliance with all applicable regulations, the Air Pollution Control Officer may impose written conditions on any permit. BEP complies with all applicable regulations per Part II, section A of their FOP.

Rule 206 – Posting of Permit to Operate. Equipment shall not operate unless the entire permit is affixed upon the equipment or kept at a location for which it is issued and will be made available to the District upon request. BEP complies with this regulation per Part II, section A of their FOP.

Rule 207 – Altering or Falsifying of Permit. A person shall not willfully deface, alter, forge, or falsify any issued permit. BEP complies with this regulation per Part II, section A of their FOP.

Rule 209 – Transfer and Voiding of Permits. BEP shall not transfer, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another. When equipment which has been granted a permit is altered, changes location, or no longer will be operated, the permit shall become void. BEP complies with this regulation per Part II, section A of their FOP.

Rule 217 – Provisions for Sampling and Testing Facilities. This rule requires the applicant to provide and maintain requirements for sampling and testing. BEP is in compliance with this rule per Part II, section A of their FOP.

Rule 219 – Equipment not Requiring a Permit. This rule exempts certain equipment from District Permit. BEP is in compliance with this rule per Part II, section A.

Rule 221 – Federal Operating Permit Requirement. BEP is in compliance with this rule, as they currently hold and maintain a Federal Operating Permit.

Rule 301/312 – Permit Fees/Fees for Federal Operating Permits. BEP annual permit fees are due by the applicable dates. BEP is currently not delinquent for any fees.

Rule 401 – Visible Emissions. This rule limits visible emissions opacity to less than 20 percent (or Ringlemann No. 1). In normal operating mode, visible emissions are not expected to exceed 20 percent opacity. BEP has specific operating conditions that enforce compliance with this rule, specifically Part II, section A.

Rule 403 – Fugitive Dust. This rule prohibits fugitive dust beyond the property line of any emission source. BEP has specific operating conditions to ensure compliance with this condition, specifically Part II, section A.

Rule 404 – Particulate Matter Concentration. BEP shall not discharge into the atmosphere from this facility, particulate matter (PM) except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).

- (a) Where the volume discharged is between figures listed in the table the exact concentration permitted to be discharged shall be determined by linear interpolation.
- (b) This condition shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.
- (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

 BEP adheres to this rule per Part II, section A of their FOP

Rule 405 – Solid Particulate Matter, Weight. BEP shall not discharge into the atmosphere from

this facility, solid PM including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a):

- (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
- (b) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

 BEP adheres to this rule per Part II, section A of their FOP.

Rule 406 – Specific Contaminants. This rule limits single source of emissions of specific compounds. BEP meets this requirement by complying with operating condition listed in Part II, section A of their FOP.

Rule 407 – Liquid and Gaseous Air Contaminants. This rule limits CO emissions from facilities. BEP meets this requirement by complying with operating condition listed in Part II, section A of their FOP.

Rule 408 – Circumvention. This rule prohibits hidden or secondary rule violations. The proposed renewal is not expected to violate Rule 408. BEP meets this requirement by complying with operating condition listed in Part II, section A of their FOP.

Rule 409 – Combustion Contaminants. This rule limits the emissions of combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO2) at standard averaged over a minimum of 15 consecutive minutes. BEP meets this requirement by complying with operating condition listed in Part II, section A of their FOP.

Rule 430 – Breakdown Provisions. Any Breakdown which results in a violation to any rule or regulation as defined by Rule 430 shall be properly addressed pursuant to this rule. BEP meets this requirement by complying with operating condition listed in Part II, section A of their FOP.

Rule 431 - Sulfur Content of Fuels. This rule limits the sulfur content allowed in fuels burned at the facility. BEP meets this requirement by complying with operating condition listed in Part II, Section A of their FOP.

Rule 442 – Usage of Solvents. This rule reduces VOC emissions from VOC containing materials or equipment that is not subject to any other rule in Regulation XI. BEP meets the requirement by complying with operating condition listed in Part II, section A of their FOP.

Rule 900 – *Standards of Performance for New Stationary Sources (NSPS)*. Rule 900 adopts all applicable provisions regarding standards of performance for new stationary sources as set forth in 40 CFR 60. The provisions of applicable NSPS's have been incorporated into the conditions of the District Permits for applicable units in Part III of the FOP.

Rule 1000 – *National Emission Standards for Hazardous Air Pollutants (NESHAP)*. Rule 1000 adopts all applicable provisions regarding standards of performance for new stationary sources as set forth in 40 CFR 61. The provisions of applicable NESHAPS's have been incorporated into the conditions of the District Permits for applicable units in Part III of the FOP.

Rule 1104 – Organic Solvent Degreasing Operations. This rule limits the emission of VOCs from wipe cleaning and degreasing operations using organic solvents. BEP meets this requirement by complying with operating condition listed in Part II, Section A of their FOP.

Rule 1113 – *Architectural Coatings*. This rule limits the quantity of VOC in Architectural Coatings. BEP meets the requirements of this rule by complying with operating condition listed in Part II, Section A of their FOP.

Rule 1114 – *Wood Products Coatings*. This rule limits the emission of VOC from coatings associated with Wood Products. BEP meets the requirements of this rule by complying with operating condition listed in Part II, Section A of their FOP.

Rule 1115 – *Metal Parts and Products Coatings*. This rule limits the emission of VOC from coatings associated with Metal Parts and Products. BEP meets the requirements of this rule by complying with operating condition listed in Part II, Section A of their FOP.

Rule 1168 - Adhesives and Sealants. This rule limits the emission of VOC from adhesives and sealants. The requirements are largely placed on the adhesive and sealant manufacture as the product categories regulated by this rule are largely consumer products. BEP meets the requirements of this rule by complying with the requirements of Part II.A.

Regulation XII – Federal Operating Permits. This regulation contains requirements for sources which must have a FOP. BEP currently has a FOP and is expected to comply with all applicable rules and regulations.

Rule 1201 – Federal Operating Permit Definitions. BEP is defined as a federal Major Facility pursuant to this rule.

Rule 1203 – *Federal Operating Permits*. This rule outlines the permit term, issuance, restrictions, content, operational flexibility, compliance certification, permit shield, and violations of Federal Operating Permits. BEP complies with this rule per Part II, Sections B and C, and Part IV and V of their FOP.

Rule 1205 – *Modifications of Federal Operating Permits*. The proposed equipment classifies as a Modification to the Federal Operating Permit (FOP), and subsequently, this permit modification is issued in accordance with the provisions of District Rule 1203.

Final Determination/Decision – Statement of Basis Blythe Energy Project September 5, 2023 Page 11 Rule 1207 – *Notice and Comment*. This rule outlines the noticing requirements for Notice and Comment. BEP will properly notice their renewal pursuant to this rule.

Rule 1208 – *Certification*. BEP included a Certification of Responsible Official as required with the submitted application for the proposed modification.

Rule 1211 – *Greenhouse Gas Provisions of Federal Operating Permits*. BEP is a Major GHG Facility pursuant to Rule 1211. BEP meets the requirements of this rule by complying with operating condition listed in Part II, Section A of their FOP.

Regulation XIII – *New Source Review* This regulation sets forth requirements for the preconstruction review of all new or modified facilities. This permitting action does not constitute any NSR actions.

Regulation XVII – *Prevention of Significant Deterioration*. Please take notice that this regulation is not currently implemented by the MDAQMD because the USEPA has not delegated authority for the PSD Program to the District at this time. However, this facility is a major stationary source for CO under the language in the applicability procedures of 40 CFR 52.21 (a)(2)(i) and (ii). The proposed renewal does not result in a new major stationary source and do not constitute a major modification of any existing major stationary source, the proposed Title V permit renewal is not subject to PSD. This facility operates under existing PSD permit SE 02-01. The PSD permit requirements have been added as operating conditions under the proposed renewal of the FOP.

State Regulations

CCR §93115 – Airborne Toxic Control Measure for Stationary Compression Ignition (CI) Engines. The purpose of this airborne toxic control measure (ATCM) is to reduce diesel particulate matter (PM) and criteria pollutant emissions from stationary diesel-fueled compression ignition (CI) engines. The provisions of this ATCM have been incorporated into the conditions of the District Permits for applicable units in Part III of the FOP.

Federal Regulations

<u>40 CFR 60, Subpart A – NSPS General Provisions</u> – this facility is subject to Subpart A because it operates equipment subject to Subparts Db and GG.

<u>40 CFR 60 Subpart Db Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units</u> – this facility is subject to the NSPS because it owns and operates natural gas fired duct burners which are capable of combusting more than 100 MMbtu/hour heat input.

40 CFR 60 Subpart GG New Source Performance Standard for Stationary Gas Turbines – this facility is subject to the NSPS because it owns and operates stationary gas turbines with a heat input greater than 10 MMBtu/hr which were constructed after October 3, 1977. This facility complies with the NOx emission limits set forth in 60.332(a)(1) and (a)(3) and the SO2 emissions limits set forth in 60.333. Permit conditions have been included that specify recordkeeping requirements and fuel certification as required by the NSPS.

<u>40 CFR 61, Subpart M – National Emission Standard for Asbestos</u> - BEP complies with 40 CFR 61, Subpart M – per conditions in Part II, section C.

<u>40 CFR 63 Subpart ZZZZ – National Emissions Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines</u> - BEP is an area source for HAP and complies with this regulation via operating conditions listed in Part III for each applicable IC engine.

40 CFR 64, Compliance Assurance Monitoring - The Compliance Assurance Monitoring (CAM) rule (40 CFR 64) applies to each Pollutant Specific Emissions Unit (PSEU) when it is located at a Major Facility that is required to obtain Title V, Part 70 or 71 permit and it meets all of the following criteria. "PSEU" means an emissions unit considered separately with respect to each regulated air pollutant. The PSEU must:

- a. Be subject to an emission limitation or standard [40 CFR 64; AND,
- b. Use a control device to achieve compliance [40 CFR 64.2(a)(2)]; AND,
- c. Have the potential pre-control emissions that exceed or are equivalent to the major source threshold. [40 CFR 64.2(a)(3)]

The combustion turbines each have a pre-control PTE which is in excess of the major source threshold. The turbines each vent through a selective catalytic reduction control and an oxidation catalyst control. The turbine emissions are monitored by a Continuous Emissions Monitor (CEMS). 40 CFR 64.2(b)(1)(vi) specifically exempts the turbines and their associated controls from CAM because the CEMS is required in the Part 70 (Title V) permit. There is no other equipment at the facility which satisfies the criteria specified in "a", "b", and "c" above; therefore, none of the other facility equipment is subject to CAM either. See the CAM Plan applicability determination, included in the renewal application materials included in Appendix A.

40 CFR 75 Acid Rain Program – The combustion turbines and duct burners are subject the Acid Rain Program. Pursuant to 40 CFR Part 72.6(a)(3)(i), the affected units specified above meet the 72.2 definition for a new utility unit and are subject to the acid rain permit requirements of 72.9(a). The affected units do not qualify for a new unit exemption pursuant to 40 CFR 72.7(b)(1) since each serves a generator with a nameplate capacity greater than 25 MW. The affected units specified above are not listed in table-2 of 40 CFR Part 73, therefore, the operator

is not required to obtain SO2 allowances under the Acid Rain Program. This	unit is not subject
to the NOx requirements from 40 CFR Part 76 as this unit is not capable of fi	ring on coal.
Final Determination/Decision	Statement of Design

7. Conclusion and Recommendation

The District has reviewed the applications for the proposed renewal of the BEP Federal Operating Permit and conducted a written analysis as required by District Rule 1203, section (B)(1)(a). The District has determined that the proposed renewal is compliant with all applicable District, State, and Federal rules and regulations as projected when operated in the terms of the permit conditions given herein, and the attached revised FOP. The proposed permit and corresponding statement of legal and factual basis will be released for public comment and publicly noticed pursuant to District Rule 1207. To view the public notice please refer to Appendix B of this document. Please refer to the cover sheet of this document for noticing and review dates.

8. Public Comment and Notifications:

a. Public Comment

The preliminary determination was publicly noticed for the required 30-Day Public commenting period. Noticing Methods include the following, per District Rule 1207 (A)(1)(a):

- Publish in newspapers of general circulation Press Enterprise and the Daily Press.
- Mail and/or email to MDAQMD contact list of persons requesting notice of actions (see the contact list following the Public Notice in Appendix B).
- Posted on the MDAQMD Website at the following link: https://www.mdaqmd.ca.gov/permitting/public-notices-advisories/public-notices-permitting

b. Notifications/USEPA & CARB Review The preliminary determination was submitted via e-mail to EPA and CARB pursuant to District Rule 1207 for a forty-five (45) day review period. The final renewed FOP shall be issued after the review period is over, provided there are no comments that require resubmission. All correspondence as required by District Rule 1207 were forwarded electronically to the following recipients. Please refer to the cover page for noticing dates. No comments were received on the preliminary determination. This final decision/determination will be submitted to USEPA, CARB and the facility.

Please refer to the cover page of this document for the noticing and comment period timeframes.

Director, Office of Air Division
United States EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Notified via electronic reporting to cdx.epa.gov (EPA Central Data Exchange)

Chief, Stationary Source Division California Air Resources Board P.O. Box 2815 Sacramento, CA 95812 Notified via email to permits@arb.ca.gov

Mary Dyas, Project Manager California Energy Commission 715 P Street Sacramento, CA 95814 Notified vie email to: <u>CME@energy.ca.gov</u>

Mike Ludwin, Senior Director Operations - Power Blythe Energy Project P.O. Box 1210 Blythe, CA 92226

Appendix A Application

Title V Operating Permit Renewal Application

Blythe Energy Inc.
Federal Operating Permit 130202262
Blythe, CA

October 8, 2021

Submitted to:
Mojave Desert Air Quality Management District
14306 Park Avenue
Victorville, CA 92392-2383

Submitted by: Blythe Energy Inc. 385 N. Buck Blvd Blythe, CA 92225

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4	MDAQMD Form 1202E2-E: Potential Emissions Report,		
	Criteria Pollutants and HAPs, Potential Greenhouse Gas		
	Emission Report		
5	MDAQMD Form 1202E2-F: Compliance Assurance		
	Monitoring Applicability Determination		
6	40 CFR 75 and 40 CFR 60 Monitoring Clarifications		
7	Redlined Copy of Current Operating Permit		

SECTION 1: MDAQMD Form 1202E2-A

General Facility Information

Mojave Desert Air Quality Management District

TITLE V PERMIT RENEWAL APPLICATION – GENERAL FACILITY INFORMATION

1. FACILITY ID:		FACILITY SIC CODE:		
TITLE V PERMIT NUMBER:		PERMIT EXPIRATION DATE:		
2. COMPANY NAME:				
3. COMPANY MAILING ADDRESS:				
STREET/P.O. BOX:				
CITY:		9-	-DIGIT P CODE:	
4. FACILITY NAME:				
5. FACILITY MAILING ADDRESS:				
STREET/P.O. BOX:				
CITY:	STATE:		-DIGIT P CODE:	
6. RESPONSIBLE OFFICIAL (AS DEFINED IN	40 CFR 70.2 AND MDAQM	ID RULE 1201)		
NAME:	TITLE:	PHONE NUMBE	ER	
7. TITLE V PERMIT CONTACT PERSON				
NAME:	TITLE:	PHONE NUMBE	ER	
8. TYPE OF ORGANIZATION: CORPORATION SOLE OWNERSHIP GOVERNMENT PARTNERSHIP UTILITY				
9. CAM (COMPLIANCE ASSURANCE MONITORING) PLANS				
Are you required to submit a CAM plan for any emissions unit at this facility? Yes No If yes, submit a CAM plan for each emissions unit as an attachment to the application. See attached CAM plan instructions for more detail.				

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10. ALTERNATE OPERATING SCENARIOS
Does this application request alternative operating scenarios pursuant to Rule 1203(E)? Yes X No If yes, submit an Alternate Operating Scenarios form, as applicable.
11. RISK MANAGEMENT PLAN
Has this facility been required to prepare a federal Risk Management Plan pursuant to Section 112(r) of the federal Clean Air Act
and 40 CFR Part 68? 🔀 Yes 🗆 No
If yes, has the federal Risk Management Plan been submitted to the implementing agency? $old X$ Yes $oxdot$ No
If a federal Risk Management Plan is required but has not been submitted to the implementing agency, provide a detailed explanation as an attachment to the application.
12. STRATOSPHERIC OZONE
Does the facility conduct any activities that are regulated by the federal protection of stratospheric ozone requirements in 40
CFR Part 82? 💢 Yes 🗆 No
13. ACID RAIN
Is this facility subject to the acid rain requirement in 40 CFR Part 72 through 40 CFR Part 78? 💢 Yes 🗌 No
14. MAJOR SOURCE STATUS
Is this facility a major source of greenhouse gases, as defined in MDAQMD Rule 1211? 🗶 Yes 🗌 No
Is this facility a major source of any of the following pollutants: VOCs Particulate Matter Carbon Monoxide Nitrogen Oxides Sulfur Dioxides Lead HAP
15. PERMIT SHIELDS
Does the current Title V permit for this facility include any permit shields? X Yes D
If yes, is the basis for each permit shield still correct? $oldsymbol{ extstyle X}$ Yes $oxdot$ No
If the current Title V permit contains any permit shield for which the basis is no longer correct, provide a detailed explanation as an attachment to the application. If you are requesting an additional permit shield, complete the attached Permit Shield Request form.
16. CERTIFICATION BY RESPONSIBLE OFFICIAL
Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete. I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:
Signature: Date:

Revised: December 2012 Title V Renewal – 1202E2-A

SECTION 2: MDAQMD Form 1202E2-B

Application Certification

Mojave Desert Air Quality Management District

TITLE V PERMIT RENEWAL APPLICATION – APPLICATION CERTIFICATION

I.	FACILITY INFORMATION			
1.	FACILITY NAME: Blythe Energy Project			
2.	FACILITY ID: 2262			
3.	TITLE V PERMIT #:130202262			
II.	TITLE V PERMIT CERTIFICATION (Read each statement carefully and check one):			
X	The current Title V permit has been reviewed and it has been determined that equipment descriptions are correct, and all requirements are still applicable. *The current Title V permit is included in this application with proposed redline changes to clarify CEMS monitoring requirements.			
	The current Title V permit has been reviewed and errors have been found in equipment descriptions and/or permit requirements. A copy of the Title V permit is attached with redline changes. Permit application and/or modification forms are enclosed, as applicable.			
III.	COMPLIANCE CERTIFICATION (Read each statement carefully and check all for confirmation):			
X	Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s), except for those requirements listed in the "Title V Non-Compliant Operations Report"All equipment currently in compliance			
X	Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis, except for those requirements listed in the "Title V Non-Compliant Operations Report"N/A			
X	Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.			
pac	ed on information and belief formed after reasonable inquiry, information and statements in the submitted application kage, including all accompanying reports, and required certifications are true accurate and complete. I declare, under talty of perjury under the laws of the state of California, that the forgoing is correct and true.			
	10-8-2021			
S	ignature of Responsible Official Date			
,	Aaron Honor			
	Plant General Manager			

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Title of Responsible Official (please print)

Revised: December 2012 Title V Renewal – 1202E2-B

SECTION 3:	MDAQMD	Form	1202F2-D
SECTION 5.	MUAGMU	ГОПП	IZUZEZ-D

List of Exempt Equipment

Mojave Desert Air Quality Management District

TITLE V PERMIT RENEWAL APPLICATION – LIST OF EXEMPT EQUIPMENT

I. FACILITY INFORMATION

1. FACILITY NAME: Blythe Energy Project

2. FACILITY ID: 2262

3. TITLE V PERMIT #: 130202262

II. SUMMARY OF EQUIPMENT EXEMPT FROM PERMIT REQUIREMENTS (INCLUDING PORTABLE)

ir.			
4. EXEMPT EQUIPMENT DESCRIPTION	5. VENTING TO CONTROL (PERMIT #)	6. CONTROL DEVICE DESCRIPTION	7. BASIS FOR EXEMPTION (e.g. Rule 219(D)(2)(b))
Internal combustion engines less than			*
50 hp			MDAQMD Rule 219(E)(2)(a)
Natural gas and/or LPG combustion units			1
less than 2 MMBtu/hr			MDAQMD Rule 219 (E)(2)(b)
Portable internal combustion engines			1
in the Statewide Registration Program			MDAQMD 219 (E)(2)(d)
Aqueous and anhydrous ammonia storage			1 0
tanks		Tanks are not vented to atmosphere	MDAQMD 219(d)
Refrigeration units			MDAQMD 219 (E)(4)(b)
Space heaters			MDAQMD 219 (E)(4)(e)
Lubricating oil transfer and storage			MDAQMD 219(E)(15)(h)
Machining equipment and associated			1,5,0,15,5,1,0,10,(5)(5)
control devices			MDAQMD Rule 219 (E)(7)
Oil/water separators			MDAQMD Rule 219(E)(13)(y)
Sulfuric acid storage tank			MDAQMD 219(E)(15)(a)(i)
Propane tanks (Liquefied gas)			MDAQMD 219(E)(15)(b)
Diesel transfer and storage			MDAQMD 219(E)(15)(c)(i)
Used oil transfer and storage equipment less than 793-gallon capacity			MDAQMD 219(E)(15)(e)
<u> </u>			
		1	3L 3

Revised: December 2012 Title V Renewal – 1202E2-D



Potential Emissions Report, Criteria Pollutants HAPs Potential Greenhouse Gas Emission Report

Mojave Desert Air Quality Management District

TITLE V PERMIT RENEWAL APPLICATION – POTENTIAL EMISSIONS REPORT, CRITERIA POLLUTANTS & HAPS

I. FACILITY INFORMATION

1. FACILITY NAME: Blythe Energy Project

2. FACILITY ID: 2262

3. TITLE V PERMIT #: 130202262

II. POTENTIAL ANNUAL EMISSIONS

4. EMISSION UNIT	5. EQUIPMENT	6. POTENTIAL ANNUAL EMISSIONS							
(APPLICATION OR PERMIT #)	DESCRIPTION	NOx (TPY)	VOC (TPY)	PM10 (TPY)	PM2.5 (TPY)	SOx (TPY)	CO (TPY)	Other: HAPs (TPY)	Other: (TPY)
B007953	natural gas fueled combustion turbine generator	97	24	56.9		12	175	3.78	
B007954	natural gas fueled combustion turbine generator	97	24	56.9		12	175	3.78	
B007955	natural gas burners w/in HRSG	combined with B007953	combined with B007953	combined with B007953		combined with B007953	combined with B007953	combined with B007953	
B007956	natural gas burners w/in HRSG	combined with B007954	combined with B007954	combined with B007954		combined with B007954	combined with B007954	combined with B007954	
B007957	wet cooling tower			2.4				0.0034	
B007958	air and water circulation, treatment & handling equipment			2.4				0.0007	
E007961	IC engine, emergency fire pump	0.24	0.02	0.02		0.02		0.199	
E009492	propane IC Engine, emergency generator	0.003	0.002	0.0001	0.0001	0.000009	0.003	2.36	
	facility-wide limits	97	24	56.9		12	175		

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Mojave Desert Air Quality Management District

TITLE V PERMIT RENEWAL APPLICATION – POTENTIAL GREENHOUSE GAS EMISSIONS REPORT

I. FACILITY INFORMATION

1. FACILITY NAME: Blythe Energy Project

2. FACILITY ID: 2262

3. TITLE V PERMIT #: 130202262

II. POTENTIAL ANNUAL EMISSIONS

4. EMISSION UNIT	5. EQUIPMENT	6. POTENTIAL ANNUAL EMISSIONS							
(APPLICATION OR PERMIT #)	DESCRIPTION	CO₂	N₂O	CH₄	HFCs	PFCs	SF ₆	Other:	CO₂(e)
		(TPY)	(TPY)	(TPY)	(TPY)	(TPY)	(TPY)	(TPY)	(TPY)
B007953	natural gas fueled combustion turbine generator	924,575.5	1.7	17.2					925,467.2
B007954	natural gas fueled combustion turbine generator	924,575.5	1.7	17.2					925,467.2
B007955	natural gas burners w/in HRSG	62,471.3	0.1	1.2					62,531.5
B007956	natural gas burners w/in HRSG	62,471.3	0.1	1.2					62,531.5
B007957	wet cooling tower								
B007958	air and water circulation, treatment & handling equipment								
E007961	IC engine, emergency fire pump	1,379.8	0.0	0.1					1,384.4
E009492	propane IC engine, emergency generator	779.9	0.0	0.0					782.5

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	Emission Factor	Potential Emission Rate
Pollutant Name	(lb/MMCF) ¹	(Ton/yr)
Acetaldehyde	3.61E-02	0.31
Acrolein	5.78E-03	0.05
Arsenic	1.19E-05	0.00
Benzene	1.08E-02	0.09
Beryllium	7.15E-07	0.00
1,3-Butadiene	3.88E-04	0.00
Cadmium	6.55E-05	0.00
Chromium	8.34E-05	0.00
Ethyl benzene	2.89E-02	0.25
Formaldehyde ²	4.26E-02	0.37
Hexane	1.07E-01	0.92
Lead	2.98E-05	0.00
Manganese	2.26E-05	0.00
Mercury	1.55E-05	0.00
Nickel	1.25E-04	0.00
PAHs/POMs	2.03E-03	0.02
Naphthalene [PAH, POM]	1.17E-03	0.01
Propylene oxide	2.62E-02	0.23
Selenium	1.43E-06	0.00
Toluene	1.17E-01	1.01
Xylenes	5.78E-02	0.50
	Total	3.76
(1) All emis	ssion factors from WEBFIRE, ex	ccept as noted.
(2) Formaldel	hyde emission rate is based on	source test data.

	Emission Factor	Potential Emission Rate
Pollutant Name	(lb/mmgal) ¹	(Ton/yr)
Arsenic	1.63E-06	0.000
Cadmium	4.06E-06	0.000
Copper	4.06E-06	0.000
Lead	2.02E-06	0.000
Manganese	4.06E-05	0.001
Mercury	4.06E-07	0.000
Nickel	4.06E-06	0.000
Selenium	4.06E-06	0.000
Zinc	4.06E-05	0.001
	Total	0.0034
(1) Emission f	actors from Supplemental Health Ri	sk Assessment (HRA)

⁽¹⁾ Emission factors from Supplemental Health Risk Assessment (HRA) dated December 2003.

	Emission Factor	Potential Emission Rate
Pollutant Name	(lb/kgal) ¹	(Ton/yr)
Acetaldehyde	7.23E+00	0.38
Acrolein	6.06E+00	0.32
Benzene	1.45E+00	0.08
1,3-Butadiene	8.04E-01	0.04
Ethyl benzene	6.14E-02	0.00
Ethylene dibromide	5.34E-02	0.00
Formaldehyde	2.73E+01	1.44
Hexane	7.78E-01	0.04
PAHs/POMs	1.48E-01	0.01
Toluene	7.44E-01	0.04
Xylenes	2.81E-01	0.01
	Total	2.36

⁽¹⁾ Emission factors sourced from EPA AP-42 as summarized in "MDAQMD DEFAULT EMISSION FACTORS FOR INTERNAL COMBUSTION ENGINES (ICE)" spreadsheet

	Potential Emission Rate
Pollutant Name	(Ton/yr)
Acetaldehyde	1.05E+00
Acrolein	4.20E-01
Arsenic	8.04E-04
Benzene	2.75E-01
Beryllium	1.23E-05
1,3-Butadiene	6.23E-02
Cadmium	1.49E-03
Chromium	1.44E-03
Copper	5.25E-04
Ethyl benzene	5.02E-01
Ethylene dibromide	2.81E-03
Formaldehyde	2.28E+00
Hexane	1.89E+00
Lead	9.02E-04
Manganese	3.58E-03
Mercury	4.35E-04
Nickel	2.67E-03
PAHS/POMS	4.61E-02
Propylene oxide	4.51E-01
Naphthalene	2.02E-02
Selenium	9.25E-04
Toluene	2.07E+00
Xylenes	1.01E+00
Zinc	4.37E-03
Total	10.09

Potential Emission Rate represents the sum of the two combustion turbines with duct burners, one emergency fire pump chiller, cooling tower, and propane emergency generator.

SECTION 5: MDAQ/	MD Form 1202E2-F
Compliance Assurance Monitoring Applicabi	lity Determination

Mojave Desert Air Quality Management District

TITLE V PERMIT RENEWAL APPLICATION - COMPLIANCE ASSURANCE MONITORING **APPLICABILITY DETERMINATION FORM**

I. **FACILITY INFORMATION**

1. FACILITY NAME: Blythe Energy Project
2. FACILITY ID: 2262
3. TITLE V PERMIT #: 130202262

II. **CAM STATUS SUMMARY FOR EMISSION UNITS**

4. Based on the criteria in the instructions (check one and attach additional pages as necessary):										
a. \square There are	a. There are no emission units with control devices at this Title V facility.									
	b. There are emission units with control devices at this Title V facility, and the CAM applicability is shown below for each unit. A CAM plan is attached for each affected emissions unit. (None)									
5. EMISSION UNIT	6. EQUIPMENT DESCRIPTION	UNCONTROLLED EMISSIONS		9. UNCONTROLLED POTENTIAL	10. EXEMPT FROM CAM BY 40 CFR	11. IS A CAM PLAN				
(APPLICATION OR PERMIT #		7. POLLUTANT TYPE	8. PTE (tons/year)	SOURCE THRESHOLD AND USE A CONTROL DEVICE?	64.2(b)(1)? (ENTER YES OR NO. IF YES, STATE THE REASON FOR EXEMPTION)	REQUIRED?				
C007959	selective catalytic reduction system	NOx	5,680.3	yes	40 CFR 64.2(b)(1)(vi)	No				
C007960	selective catalytic reduction system	NOx	5,630.4	yes	40 CFR 64.2(b)(1)(vi)	No				

Note: Uncontrolled NOx PTE is calculated by applying the P75 Monitoring Plan Maximum Emission Rate (MER) of 0.6840 lb/mmBtu for CT-1/DB-1 and 0.6780 lb/mmBtu for CT-2/DB-2 over a maximum of 8760 annual operating hours with the maximum heat input of the combined combustion turbine and duct burner system.

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Revised: December 2012 Title V Renewal - 1202E2-F 40 CFR 75 and 40 CFR 60 Monitoring Clarifications

40 CFR 75 and 40 CFR 60 Monitoring Clarifications Blythe Energy 09/30/2021

Blythe Energy consists of two combustion turbine generators ("CTGs") for electrical generation, Unit 1 and Unit 2, that were issued a renewed Operating Permit (130202262) on 11/18/17. A renewed Acid Rain Program Permit (ORIS Code 55295) was issued on 12/5/16. A Final Prevention of Significant Deterioration Permit (SE 02-01) was issued on 4/25/07. The combustion turbines are equipped with Continuous Emission Monitoring Systems ("CEMS") that measure NO_x, CO, and NH₃, as well as O₂, which serves as the diluent.

.

The NO_x and CO analyzers are each configured with two scale ranges with a span value equal to the corresponding upper range value. The low range for the NO_x analyzer is set to 0-10 ppm, and the high range is set to 0-100 ppm. The low range for the CO analyzer is set to 0-20 ppm, and the high range is set to 0-1200 ppm. The O₂ analyzer range is set to 0-25%. The NH₃ analyzer is a tunable Diode Laser ("TDL"). In accordance with the Operating Permit, the facility follows a District approved procedure for NH₃ as defined in the facility's QA/QC Plan and is not further discussed in this document.

40 CFR 75 and 40 CFR 60 contain parallel monitoring requirements that are similar but not identical; also, 40 CFR 75 contains more monitoring provisions and options than 40 CFR 60. This document summarizes the use of 40 CFR 75 QA test schedules, grace periods, and RATA load requirements in lieu of certain 40 CFR 60 specifications, or lack thereof.

The NO_x CEMS utilizes the 40 CFR 75 harmonization provisions of 40 CFR 60.334(b) for Subpart GG compliance. In addition to the Subpart GG NO_x limit, the NO_x CEMS utilizes 40 CFR 75 Appendix B provisions for monitoring compliance with other permit limits according to the PSD Permit. CO CEMS are used to demonstrate compliance with various emission limits specified in the Operating Permit, and it is monitoring for these limits that the facility adopts certain 40 CFR 75 provisions, as outlined below.

1. Cylinder Gas Audits ("CGAs") / Linearity Checks

A CGA is a two-point audit, conducted with low- and mid-level calibration gases, required by 40 CFR 60 Appendix F Procedure 1. CGAs are conducted each calendar quarter, with the exception of the quarter in which the RATA is performed. Ongoing QA audits (i.e. CGAs and RATAs) shall occur no closer than 2 months. A linearity check is conducted with low-, mid- and high-level calibration gases, required by 40 CFR 75 Appendix B Section 2.2.1. 40 CFR 75 Appendix A Section 6.2 exempts low analyzer ranges (i.e. less than or equal to 30 ppm) from the linearity check. For the CO CEMS, the facility utilizes the Part 60 CGA requirements with the following exceptions:

a. The CGA frequency shall follow 40 CFR 75 Appendix B Sections 2.2.1 and 2.2.4. Specifically, a CGA shall be required at least once during each QA operating quarter, not to exceed four calendar quarters, plus a 168-unit operating hour grace period following the expiration of a required CGA. CGAs will be conducted no less than 30 days apart, to the extent practicable.

b. Analyzer ranges less than or equal to 30 ppm (i.e. CO low range) are exempt from CGA requirements [40 CFR 75 Appendix A Section 6.2].

QA operating quarter means a calendar quarter in which there are at least 168 unit operating hours. Unit operating hour means a clock hour during which a unit combusts any fuel, either for part of the hour or for the entire hour.

2. Relative Accuracy Test Audits (RATAs)

The Part 60 RATA is required once every four calendar quarters while operating at more than 50 percent of normal load. In lieu of these requirements, the facility adopts the following Part 75 RATA requirements:

- a. All RATA testing shall be conducted at least once every four QA operating quarters but no less frequently than once every eight calendar quarters as provided in 40 CFR 75 App. B, §2.3.1.1. If RATA testing is not completed within this timeframe, a 720 unit operating hour grace period may be used, as provided in 40 CFR 75 App. B, §2.3.3.
- b. All RATA testing shall be conducted at the normal load level(s) as determined in accordance with 40 CFR 75 Appendix A Section 2.3.1.3(a) in lieu of 40 CFR 60 Appendix B Performance Specification 2 Section 8.4.1 that specifies to conduct the RATA "while operating at more than 50 percent of normal load".

Basis for Harmonizing

The 40 CFR 75 Appendix B timelines take into account intermittent operating usage in determining the frequency of QA testing while the older and less refined 40 CFR 60 Appendix F provisions are based solely on elapsed calendar time. Conformance with 40 CFR 60 Appendix F RATA and CGA timelines, then, can cause significant economic and logistical difficulties, particularly during limited operating quarters. The procedures for determining normal load levels for RATA testing that are described in 40 CFR 75 Appendix A ensure that RATA testing occurs under representative operating conditions and emission concentrations when tested.



Red-lined Copy of Current Operating Permit



FEDERAL OPERATING PERMIT

Permit No.: 130202262

Company: Blythe Energy, LLC

Facility: Blythe Energy Project

Issue date: 11/18/17

Expiration date: 11/18/22

MOJAVE DESERT
AIR QUALITY
MANAGEMENT
DISTRICT

14306 Park Avenue Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: permitting@MDAQMD.ca.gov

www.MDAQMD.ca.gov • @MDAQMD

Signed and issued by

BRAD POIRIEZ

EXECUTIVE DIRECTOR/

AIR POLLUTION CONTROL OFFICER

PERMIT REVISIONS

November 6, 2019 Administrative Modification

Update of responsible official, alternate facility "site" contact and Facility "Site" Contact phone number.

November 1, 2019 Significant Modification

Processed by Roseana Brasington

Part III, page III-X condition 15: Condition modified to remove VOC emissions testing of the turbines every 5 years under hot, warm, cold startup conditions. Requirement proposed for removal is replaced by hard emissions rates based on approved historical test data.

November 18, 2017 Permit Renewal & Significant Modification Processed by Roseana Brasington

Cover page updated with renewal dates and executive director

Part I updated to include new responsible official and facility contact, updated permit descriptions and removal of permit units no longer existing at the facility

Part II updated for consistency with current applicable requirements

Part III, page III-44 (significant modification) condition 7, CO limit increased to include CO emissions from SEP. SEP permits have been cancelled. Condition 8 which referenced combined emissions from BEP & SEP (one facility under Regulation XIII) has been removed in its entirety.

Part III, rule cites and formatting updated, permit descriptions updated, permit unit which no longer exists at facility removed from Part III.

Parts IV and V not substantively changed

Part VI Acid Rain Permit and application updated to current.

Part VII SIP Rule table updated

December 18, 2015 Significant Modification:

Processed by Roseana Brasington

Page I-5 Updated Alternative Facility "Site" Contact

Pages III-25 through III-27

Modified permit conditions for combustion turbines B007953 and B007954

Condition 2: reduced maximum permitted fuel sulfur content

Condition 4: reduced lb/hr PM₁₀ emissions limit

Condition 6: reduced lb/day PM₁₀ emissions limit

Condition 7: reduced ton/year SO_X and PM₁₀ emission limits

April 24, 2015 Significant Modification:

Processed by Roseana Brasington

Page I-5: Removed reference to model/serial numbers for the steam generator and steam

condensing turbine. Model and serial numbers for the combustion turbines have been provided and are reflected in the current permits.

Page III-25: Removed reference to model/serial numbers for the steam generator and steam condensing turbine. Model and serial numbers for the combustion turbines have been provided and are reflected in the current permits.

Pages III-26-III-27: added annual average emission concentration limit for NOx, annual average mass emission limits for CO and 12-month rolling fuel use limit for the gas turbines, reduced annual NOx, CO and PM10 emission limits and clarified that the emissions limits include all Blythe Energy Project permitted equipment and updated condition language for consistency with District permit. Facility name typographical error corrected.

Page III-29: Removed Authority to Construct permit condition which required the surrender of emission reduction credits. The facility has satisfied the offset requirement.

Page III-34. E007961, permit condition updated and corrected to reflect testing and maintenance hours allowed under CCR Section 93115.6

July 29, 2014 Administrative Modification:

Processed by R.N. Brasington

Updated the following: owner/company name, owner mailing address, facility name, responsible official, facility site contact and alternative facility site contact.

July 2, 2012 Administrative Title V Renewal and Title IV Acid Rain Permit revision (by: Samuel J Oktay, PE); Revised Rule 1113 references, Page II-15 through II-16; added Rule SIP History Reference, Page VII-48; Revised Rule 442 references; Page II-13; Page II-23 added 40 CFR 98 reference for GHG reporting; added 40 CFR 63 Subpart ZZZZ requirements to permits E007961, E008981, and E009492; Pages I-7; III-33 through III-34, III-34 through III-36, and III-36 through III-38 respectively; page III-25 clarified conditions 6 & 7 for permits B007953 & B007954 regarding VOC limits; page III-26 clarified condition 10 for permits B007953 & B007954; changed Permit # C010833, Pages I-7 and III-38 to read Unit 2; Title IV Acid Rain Permit revisions VI-44 through VI-46; Phase II Application added to pages VI-47 through VI-49.

April 11, 2011 Administrative Modification:

Updated physical address due to incorporation into City of Blythe city limits (no change to location of facility), and updated responsible official.

April 8, 2010 Administrative Modification described as follows:

Intro; Addition of oxidation catalyst to each Combustion Turbine Generator/Heat Recovery Steam Generator unit. The design of the units are accommodating to the retrofit of the oxidation catalyst. An emission decrease is anticipated but current permit limits will remain unchanged. Permit is revised as follows:

Part I

- -Description revised to include two oxidation catalysts.
- -Section 1.PART III, ITEM A- added Oxidation Catalyst description.

Part III

-Permits B007953 and B007954, revised condition #10 to include reference to Oxidation Catalyst. Deleted reference to future installation of OC (condition #28), renumbered following condition.

MDAQMD Federal Operating Permit130202262 BLYTHE ENERGY, INC.

November 18, 2017

-Permits B007955 and B007956, updated condition #3 specifying OC installed and applicable permit numbers thereof.

-Added permit units C010832 ("new" subpart L) and C010833, creating subparts L and M respectively.

Changes made by C. Anderson

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PART I INTRODUCTORY INFORMATION

A. <u>FACILITY IDENTIFYING INFORMATION:</u>

Owner/Company Name: Blythe Energy, Inc. Facility Names: Blythe Energy Project

Facility Location:385 N Buck Blvd, Blythe, CA 92225Mailing Address:P.O. Box 1210, Blythe, CA 92226

Federal Operating Permit Number: 130202262

MDAQMD Company Number: 1302 MDAQMD Facility Number: 2262

Responsible Official: Steve Brussee

Sr. Manager, Environment & Safety - Power ASUS

909-622-3308

Facility "Site" Contact(s): Ramon Campos

Compliance Manager

760-921-1364

ramon.campos@altagas.ca

Alternate Facility "Site" Contact(s): Aaron Honor

Plant General Manager

760-921-1360

aaron.honor@altagas.ca

Nature of Business: Electric Power Generation

SIC/NAICS Code: 4911/221112- Electric Power Generation Facility Coordinates UTM (m) 714609 (E) / 3721719 (N)

B. <u>FACILITY DESCRIPTION:</u>

The plant uses two F-Class Siemens V84.3A combustion turbine generators (CTGs) with dedicated heat recovery steam generators (HRSGs) to produce electricity. Inlet air to the CTGs is filtered and, during seasonally warm conditions, conditioned with chilled air supported by a mechanical draft wet cooling tower (chiller). Compressed air and natural gas are mixed and combusted in the turbine combustion chamber. Lean pre-mixed air and low-NOx combustors are used to minimize NOx formation during combustion. Exhaust gas from the combustion chamber is expanded through a multi-stage power turbine, which drives both the air compressor and electric power generator. Heat from the exhaust gas is then recovered in the HRSG.

Each HRSG is equipped with a duct burner to provide supplementary firing during high ambient temperatures to maintain constant steam production to the condensing steam turbine generator (STG). A Selective Catalytic Reduction (SCR) system is used to reduce NOx emissions. An Oxidation Catalyst is used to reduce CO and VOC. Steam is produced in each HRSG and flows to the STG. The STG drives an electric generator to produce electricity. STG exhaust steam is condensed in a surface condenser with water from the main cooling tower.

The project site has a 303 bhp emergency diesel-fueled internal combustion engine that drives a water pump for fire suppression and a propane fueled 114 bhp internal combustion engine that drives an emergency electrical power generator.

C. FACILITY PERMITTED EQUIPMENT:

- 1. PERMIT B007953 COMBUSTION TURBINE GENERATOR POWER BLOCK (CT1) consisting of: Natural gas fueled Siemens F Class Model V84.3A(2) Serial No. 800436 combustion turbine generator power block producing approximately 260 MW(e) with a connected heat recovery steam generator and a steam condensing turbine (shared with B007954), maximum turbine heat input of 1776 MMBtu/hr.
- 2. PERMIT B007954 COMBUSTION TURBINE GENERATOR POWER BLOCK (CT2) consisting of: Natural gas fueled Siemens F Class Model V84.3A(2) Serial No. 800437 combustion turbine generator power block producing approximately 260 MW(e) with a connected heat recovery steam generator and a steam condensing turbine (shared with B007953), maximum turbine heat input of 1776 MMBtu/hr.
- 3. PERMIT B007955 DUCT BURNER UNIT 1: Natural gas burner located within the heat recovery steam generator covered by B007953, maximum heat input of 120 MMBtu/hr. Manufacturer is Forney, model # 1002-WPS-C1 and serial #17130.
- 4. PERMIT B007956 DUCT BURNER UNIT 2: Natural gas burner located within the heat recovery steam generator covered by B007954, maximum heat input of 120 MMBtu/hr. Manufacturer is Forney, model # 1002-WPS-C1 and serial #17202.
- 5. PERMIT B007957 A Marathon Model 9B 445TTFN4573AA wet cooling tower with water circulation, treatment and handling equipment and air circulation equipment, including the following:

Capacity	Equipment Name	Order
250.00	Cooling Cell Fan #8, Motor Serial No. MU402450-2/22-02	1
250.00	Cooling Cell Fan #7, Motor Serial No. MU402450-2/22-01	2
250.00	Cooling Cell Fan #6, Motor Serial No. MU402450-2/22-05	3

Capacity	Equipment Name	Order
250.00	Cooling Cell Fan #5, Motor Serial No. MU402450-2/22-03	4
250.00	Cooling Cell Fan #4, Motor Serial No. MU402450-2/22-06	5
250.00	Cooling Cell Fan #3, Motor Serial No. MU402450-2/22-07	6
250.00	Cooling Cell Fan #2, Motor Serial No. MU402450-2/22-04	7
250.00	Cooling Cell Fan #1, Motor Serial No. MU402450-2/22-08	8
1000.00	Circulating Water Pump #12, Johnson Serial No. 01JB1129B	9
1000.00	Circulating Water Pump #11, Johnson Serial No. 01JB1129A	10

6. PERMIT B007958 Water circulation, treatment and handling equipment and air circulation equipment, including units as follows:

Capacity	Equipment Name	Order
250.00	Cooling Cell Fan #12, BAC Model CXV-T08 Serial No. U025323712	1
250.00	Cooling Cell Fan #11, BAC Model CXV-T08 Serial No. U025323711	2
250.00	Cooling Cell Fan #10, BAC Model CXV-T08 Serial No. U025323710	3
250.00	Cooling Cell Fan #9, BAC Model CXV-T08 Serial No. U025323709	4
250.00	Cooling Cell Fan #8, BAC Model CXV-T08 Serial No. U025323708	5
250.00	Cooling Cell Fan #7, BAC Model CXV-T08 Serial No. U025323707	6
250.00	Cooling Cell Fan #6, BAC Model CXV-T08 Serial No. U025323706	7
250.00	Cooling Cell Fan #5, BAC Model CXV-T08 Serial No. U025323705	8
250.00	Cooling Cell Fan #4, BAC Model CXV-T08 Serial No. U025323704	9
250.00	Cooling Cell Fan #3, BAC Model CXV-T08 Serial No. U025323703	10
250.00	Cooling Cell Fan #1, BAC Model CXV-T08 Serial No. U025323701	11
250.00	Cooling Cell Fan #2, BAC Model CXV-T08 Serial No. U025323702	12
750.00	Chiller Recirulating Pump #4, Cascade Serial No. 16061	13
750.00	Chiller Recirulating Pump #3, Cascade Serial No. 16060	14
750.00	Chiller Recirulating Pump #2, Cascade Serial No. 16059	15
750.00	Chiller Recirulating Pump #1, Cascade Serial No. 16058	16

- 7. PERMIT C007959 SCR UNIT 1 consisting of: SELECTIVE CATALYTIC REDUCTION system with a catalyst located within the power train covered by B007953 and an ammonia injection system. Manufacturer is Haldor Topsoe; model H05.331cpsi MODULE.
- 8. PERMIT C007960 SCR UNIT 2 consisting of: SELECTIVE CATALYTIC REDUCTION system with a catalyst located within the power train covered by B007954 and an ammonia injection system. Manufacturer is Haldor Topsoe; model H05.331cpsi MODULE.
- 9. PERMIT C010832 OXIDATION CATALYST UNIT 1 consisting of: Oxidation Catalyst located within the duct burner covered by B007955. Manufacturer is Johnson Matthey; model is Honeycat, serial number 200cpsi.

- 10. PERMIT C010833 OXIDATION CATALYST UNIT 2 consisting of: Oxidation Catalyst located within the duct burner covered by B007956. Manufacturer is Johnson Matthey; model is Honeycat, serial number 200cpsi.
- 11. PERMIT E007961 NON-CERTIFIED DIESEL IC ENGINE, EMERGENCY FIRE PUMP consisting of: Year of Manufacture 2002; USEPA Family Name NA; CARB Executive Order NA; Tier 0, One John Deere, Diesel fired internal combustion engine, Model No. 6081HF001 and Serial No. RG6081H145432, Direct Injected, Turbo Charged, producing 303 bhp with 6 cylinders at 2200 rpm while consuming a maximum of 14 gal/hr. This equipment powers a Pump.
- 12. PERMIT E009492 PROPANE IC ENGINE, EMERGENCY GENERATOR (CHILLER BLDG) consisting of: One Ford, Propane fired internal combustion engine, Model No. WSG106816005E-NA and Serial No. 01-11- 012316, Direct Injected, Inter Cooled, producing 114 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 12 gal/hr. This equipment powers a Generator.

PART II

FACILITYWIDE APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

A. REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:

- 1. A permit is required to operate this facility. [Rule 203 *Permit to Operate*]
- 2. The equipment at this facility shall not be operated contrary to the conditions specified in the District Permit to Operate.

 [Rule 203 Permit to Operate]
- 3. The Air Pollution Control Officer (APCO) may impose written conditions on any permit. [Rule 204 *Permit Conditions*]
- 4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.

 [Rule 204 *Permit Conditions*]
- 5. Posting of the Permit to Operate is required on or near the equipment or as otherwise approved by the APCO/District.

 [Rule 206 Posting of Permit to Operate]
- 6. Owner/Operator shall not willfully deface, alter, forge, or falsify any permit issued under District rules.

 [Rule 207 Altering or Falsifying of Permit]
- 7. Permits are not transferable.
 [Rule 209 *Transfer and Voiding of Permit*;]
- 8. The APCO may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing.

 [Rule 217 Provision for Sampling And Testing Facilities]
- 9. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in Rule 219 and meets the applicable criteria contained in Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.

 [SIP Pending: Rule 219 Equipment Not Requiring a Written Permit]
- 10. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.

[Rule 221 - Federal Operating Permit Requirement]

- 11. Owner/Operator shall pay all applicable MDAQMD permit fees. [Rule 301 *Permit Fees*]
- 12. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees. [Rule 312 Fees for Federal Operating Permits]
- 13. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
 - (a) While any unit is fired on Public Utilities Commission (PUC) grade natural gas, Periodic Monitoring for combustion equipment is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount, and suppliers' certification information.
 - (b) While any unit is fired on diesel fuel, Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit as indicated below:
 - (i). Reciprocating engines equal or greater than 1000 horsepower, firing on only diesel with no restrictions on operation, a visible emissions inspection is required every three (3) months or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3-month time frame.
 - (ii). Diesel Standby and emergency reciprocating engines using California low sulfur fuels require no additional monitoring for opacity.
 - (iii). Diesel/Distillate-Fueled Boilers firing on California low sulfur fuels require a visible emissions inspection after every 1 million gallons diesel combusted, to be counted cumulatively over a 5-year period.
 - (iv). On any of the above, if a visible emissions inspection documents opacity, an U.S. Environmental Protection Agency (EPA) Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3 working day time frame.

[Rule 204 - *Permit Conditions*] [Rule 401 - *Visible Emissions*]

14. Owner/Operator is limited to use of the following quality fuels for fuel types specified elsewhere in this permit: PUC quality natural gas fuel - sulfur compounds shall not exceed 800 parts per million (ppm) calculated as hydrogen sulfide at standard conditions; diesel fuel - sulfur content shall not exceed 0.0015 percent by weight. Compliance with Rule 431 fuel sulfur limits is assumed for PUC quality natural gas fuel and CARB certified diesel fuel. Records shall be kept on-site and available for review by District, state, or federal personnel at any time. The sulfur content of non-CARB certified diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) method D 2622-82 or ASTM method D 2880-71, or equivalent.

[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements] [Rule 431 - Sulfur Content of Fuels;]

- 15. Emissions of fugitive dust from any transport, handling, construction, or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility. [Rule 403 *Fugitive Dust*;]
- 16. Owner/Operator shall comply with the applicable requirements of Rule 403.2 unless an "Alternative PM₁₀ Control Plan" (ACP) pursuant to Rule 403.2(G) has been approved. [Rule 403.2 Fugitive Dust Control for the Mojave Desert Planning Area]
- 17. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter (PM) except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).
 - (a) Where the volume discharged is between figures listed in the table the exact concentration permitted to be discharged shall be determined by linear interpolation.
 - (b) This condition shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.
 - (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

[Rule 404 - Particulate Matter Concentration]

- 18. Owner/Operator shall not discharge into the atmosphere from this facility, solid PM including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a).
 - (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
 - (b) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

[Rule 405 - Solid Particulate Matter, Weight]

19. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO₂), greater than or equal to 500 ppm by volume.

[Rule 406 - Specific Contaminants]

- 20. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.
 - (a) The provisions of this condition shall not apply to emissions from internal combustion engines.

[Rule 407 - *Liquid and Gaseous Air Contaminants*]

21. Owner/Operator shall not build, erect, install, or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission that would otherwise constitute a violation

of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.

- (a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.
 [Rule 408 - Circumvention]
- 22. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO₂) at standard conditions averaged over a minimum of 25 consecutive minutes.

 [Rule 409 Combustion Contaminants;]
- 23. APCO, at his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment that has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred and:
 - (a) Any breakdown that results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
 - (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
 - (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
 - (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.
 - (e) If the breakdown occurs outside normal District working hours, the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the APCO.

[Rule 430 - Breakdown Provisions]

- 24. Owner/Operator of this facility shall not discharge into the atmosphere emissions in excess of the following from VOC containing materials or from organic solvents which are not VOCs unless such emissions have been reduced by at least 85%:
 - (a) VOCs from all VOC containing materials, Emissions Units, equipment or processes subject to this rule, in excess of 540 kilograms (1,190 pounds) per month per Facility.
 - (b) a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average.
 - (c) The provisions of this condition shall not apply to:
 - (1) The manufacture of organic solvents, or the transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.

- (2) The emissions of VOCs from VOC-containing materials or equipment which are subject to the rules of Regulation IV or which are exempt from air pollution control requirements by said rules.
- (3) The spraying or other employment of organic solvents as insecticides, pesticides or herbicides.
- (4) The use of equipment or materials for which other requirements are specified in source specific rules of Regulation XI after the compliance dates specified in such source specific rules.
- (5) The use of 1-1-1 Trichloroethane.
- (6) Aerosol products [Rule 442 *Usage of Solvents*]
- Owner/Operator shall not set open outdoor fires unless in compliance with Rule 444. Outdoor fires burned according to an existing District permit are not considered "open outdoor fires" for the purposes of Rule 444 (reference Rule 444(B)(10)). [Rule 444 Open Outdoor Fires]
- Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of Rule 1104 when engaged in wipe cleaning, cold solvent cleaning, and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products. These requirements are listed as follows:
 - (a) All degreasers shall be equipped with a cover, which reduces solvent evaporation and minimizes disturbing the vapor zone.
 - (b) A permanent, conspicuous label summarizing the applicable operating requirements contained in Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where the operators can access the proper operating requirements of this rule.
 - (c) <u>Cold Solvent Degreasers Freeboard Requirements:</u>
 - (i) Cold solvent degreasers using only low volatility solvents, which are not agitated, shall operate with a freeboard height of not less than 6 inches.
 - (ii) Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover, which remains closed during the cleaning operation.
 - (iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50°C (120°F) shall operate with a freeboard ratio equal to or greater than 0.75.
 - (iv) A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than one.
 - (d) Cold Solvent Degreasers Cover Requirements:
 - (i) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type, which is designed to easily open and close without disturbing the vapor zone.
 - (e) Cold Solvent Degreasers Solvent Level Identification:
 - (i) A permanent, conspicuous mark locating the maximum allowable solvent level conforming to the applicable freeboard requirements.

- (f) All Degreasers shall comply with the following operating requirements:
 - (i) Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.
 - (ii) Degreasers shall not be operating with any detectable solvent leaks.
 - (iii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.
 - (iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; **or** a federally or state licensed facility to treat, store or dispose of such waste; **or** the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.
 - (v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.
 - (vi) Solvent carry-out shall be minimized by the following methods:
 - (a) Rack workload arranged to promote complete drainage
 - (b) Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.
 - (c) Retain the workload inside of the vapor zone until condensation ceases.
 - (d) Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.
 - (e) Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)
 - (vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.
 - (viii) Except for sealed chamber degreasers, all solvent agitation shall be by either pump recirculation, a mixer, or ultrasonics.
 - (ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, <u>unless</u>, the spray is conducted in a totally enclosed space, separated from the environment.
 - (x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.
 - (xi) Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.
 - (xii) A degreaser shall be located so as to minimize drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.
 - (xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the

drained solvent is returned to the degreaser or container.

- (g) Rule 442 Applicability: Any solvent using operation or facility which is <u>not</u> subject to the source-specific Rule 1104 shall comply with the provisions of Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the volatile organic compound (VOC) limits, equipment limits or the operational limits of Rule 1104 shall be subject to the applicable provisions of Rule 442.
- (h) <u>Solvent Usage Records:</u> Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, Section (E), shall comply with the following requirements:
 - (1) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance, including the following information separately for each degreaser, as applicable:
 - (i) product name(s) used in the degreaser, and
 - (ii) the mix ratio of solvent compounds mixtures of solvents are used, and
 - (iii) VOC content of solvent or mixture of compounds as used, and
 - (iv) the total volume of the solvent(s) used for the facility, on a monthly basis, and
 - (v) the name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.
 - (2) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data are recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a manner as prescribed by the District.
 - (3) Documentation shall be maintained on site of the disposal or on-site recycling of any waste solvent or residues.
 - (4) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5-year period as required by this Title V / Federal Operating Permit (Reference Rule 1203(D)(1)(d)(ii)).

[Rule 1104 - *Organic Solvent Degreasing Operations*]

Owner/Operator's use of *Architectural Coatings* at this facility shall comply with the applicable requirements of Rule 1113, including the VOC limits specified in Rule 1113, part C, Table of Standards, as listed below:

[Rule 1113 - *Architectural Coatings*]

Coating Category	Limit
Primary Coatings	
Flat Coatings	50
Nonflat Coatings	100
Nonflat-High Gloss Coatings	150
Specialty Coatings	
Aluminum Roof Coatings	400
Basement Specialty Coatings	400
Bituminous Roof Coatings	50
Bituminous Roof Primers	350
Bond Breakers	350
Concrete Curing Compounds	350
Concrete/Masonary Sealers	100
Driveway Sealers	50
Dry Fog Coatings	150
Faux Finishing Coatings	350
Fire Resistive Coatings	350
Floor Coatings	100
Form-Release Compounds	250
Graphic Arts Coatings (Sign Paints)	500
High Temperature Coatings	420
Industrial Maintenance Coatings	250
Low Solids Coatings	120a
Magnesite Cement Coatings	450
Mastic Texture Coatings	100
Metallic Pigmented Coatings	500
Multi-Color Coatings	250
Pre-Treatment Wash Primers	420
Primers, Sealers, and Undercoaters	100
Reactive Penetrating Sealers	350
Recycled Coatings	250
Roof Coatings	50
Rust Preventative Coatings	250
Shellacs:	
Clear	730
Opaque	550
Specialty Primers, Sealers, and Undercoaters	100
Stains	250

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Stone Consolidants	450	,
Swimming Pool Coatings	340	
Traffic Marking Coatings	100	
Tub and Tile Refinish Coatings	420	
Waterproofing Membranes	250	
Wood Coatings	275	
Wood Preservatives	350	
Zinc-Rich Primers	340	

28. Owner/Operator's use of *Wood Products Coatings* at this facility shall comply with the applicable requirements of Rule 1114, including the VOC limits specified in Rule 1114, part C, Table of Standards, as listed below:

(1) <u>VOC Content of Coatings & Adhesives</u>

(a) Any Owners and/or Operators of Wood Products Coating Application Operations shall not apply any Coating or Adhesive to a Wood Product which has a VOC Content, including any VOC-containing material added to the original Coating supplied by the manufacturer, which exceeds the applicable limit specified below, unless emissions to the atmosphere are controlled by air pollution abatement equipment with an Overall Control Efficiency of at least 85 percent. Any Coating subject to this rule that meets either of the two VOC Content limit formats (grams per liter or pounds per gallon [lb/gal]) is in compliance with this subsection.

LIMITS
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

		On and After 7/1/97		On and After 7/1/2005
Coating	Current Limit g/L (lb/gal)	Column I or g/L (lb/gal)	Column II g/L (lb/gal)	g/L (lb/gal)
Clear Sealers	680 (5.7)	550 (4.6)	680 (5.7)	275 (2.3)
Clear Topcoat	680 (5.7)	550 (4.6)	275 (2.3)	275 (2.3)
Pigmented Primers, Sealers and Undercoats	600 (5.0)	550 (4.6)	600 (5.0)	275 (2.3)
Pigmented Topcoats	600 (5.0)	550 (4.6)	275 (2.3)	275 (2.3)

(i) Effective July 1, 1997, a person or facility shall use Coatings on Wood Products that comply with either all VOC Content limits in Column I or all VOC Content limits in Column II. A person or facility that applies a Pigmented Primer, Sealer or Undercoat, but not a Clear Topcoat or Pigmented Topcoat, to a Wood Product shall be subject to column I for that product.

(ii) Notwithstanding the requirements of subsection (C)(1)(a)(i), a person or facility that applies a topcoat and a primer, sealer or undercoat to a Shutter may, until July 1, 2005, choose to comply with the VOC Content limits specified below for that Shutter:

(b) LIMITS
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Ecos Water and Ecos Entering	t Compounds (v OC Content)
Coating	g/L (lb/gal)
Clear Sealers	275 (2.3)
Clear Topcoat	680 (5.7)
Pigmented Primers, Sealers & Undercoats	275 (2.3)
Pigmented Topcoats	600 (5.0)

(c) LIMITS
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

		On and After 7/1/97	On and After 7/1/2005
Coating	Current Limit g/L (lb/gal)	g/L (lb/gal)	g/L (lb/gal)
Fillers	500 (4.2)	500 (4.2)	275 (2.3)
High-Solid Stains	700 (5.8)	550 (4.6)	350 (2.9)
Inks	500 (4.2)	500 (4.2)	500 (4.2)
Mold-Seal Coatings	750 (6.3)	750 (6.3)	750 (6.3)
Multi-Colored Coatings	685 (5.7)	685 (5.7)	275 (2.3)
Low-Solids Stains, Toners and Washcoats	800 (6.7)	480 (4.0)	120 (1.0)
Adhesives	250 (2.1)	250 (2.1)	250 (2.1)

[Rule 1114 - Wood Products Coating Operations]

29. Owner/Operator's use of *Metal Parts and Products Coatings* at this facility shall comply with the applicable requirements of Rule 1115, including the VOC limits specified in Rule 1115, as listed below:

Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which

contain VOC in excess of the limits specified below <u>unless</u> emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 85 percent:

<u>LIMITS</u>
(Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds)

Coating	Air Dried		Baked	
	g/L	(lb/gal)	g/L	(lb/gal)
General	420	(3.5)	360	(3.0)
Military Specification	420	(3.5)	360	(3.0)
Etching Filler	420	(3.5)	420	(3.5)
Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)
High-Gloss	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural				
Component	420	(3.5)	275	(2.3)
Touch Up	420	(3.5)	360	(3.0)
Repair	420	(3.5)	360	(3.0)
Silicone-Release	420	(3.5)	420	(3.5)
High Performance				
Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	420	(3.5)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)
Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan-Backing	420	(3.5)	420	(3.5)
Pretreatment Wash Primer	420	(3.5)	420	(3.5)
Clear Coating	520	(4.3)	520	(4.3)

[Rule 1115 - Metal Parts and Products Coating Operations]

- Owner/Operator shall comply with all requirements of the District's Title V Program,
 MDAQMD Rules 1200 through 1210.
 [Regulation XII Federal Operating Permits]
- 31. Owner/Operator shall comply with all applicable requirements of 40 CFR Part 68; Risk Management Program.

 [40 CFR 68]

B. <u>FACILITY-WIDE MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS:</u>

- 1. Any data and records generated and/or kept pursuant to the requirements in this federal operating permit (Title V Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data, or logs shall be supplied to District, state, or federal personnel upon request.

 [40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
- 2. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's <u>Compliance Test</u>

 <u>Procedural Manual.</u> Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's <u>Compliance Test Procedural Manual.</u> All emission determinations shall be made as stipulated in the <u>Written Test Protocol</u> accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved <u>Written Test Protocol</u> may be used with District concurrence.

 [Rule 204 Permit Conditions]
- 3. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, state, and federal required Emission Inventories shall monitor and record the following for each unit:
 - (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
 - (b) Fuel suppliers' fuel analysis certification/guarantee including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel fuel shall be determined by use of ASTM method D2622-82, or (ASTM method D 2880-71, or equivalent). Vendor data meeting this requirement are sufficient.

[40 CFR 70.6(a)(3)(B) – Periodic Monitoring Requirements]
[Rule 204 - Permit Conditions]
[Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a) and in California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]

4. (a) Owner/Operator shall submit Compliance Certifications as prescribed by Rule 1203(F)(1) and Rule 1208, in a format approved by MDAQMD. Compliance Certifications by a Responsible Official shall certify the truth, accuracy and completeness of the document submitted and contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry; the statements and information in the document are true, accurate, and complete.

[40 CFR 70.6(c)(5)(i); Rule 1208; Rule 1203(D)(1)(vii-x)]

(b) Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.

[40 CFR 70.6(c)(5)(ii); Rule 1203(D)(1)(g)(viii)]

(c) Owner/Operator shall comply with any additional certification requirements as specified in 42 United States Code (U.S.C.) §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder.

[Rule 1203 (D)(1)(g)(x)]

(d) On an <u>annual</u> basis, of any given year, Owner/Operator shall submit a Compliance Certification Report to the APCO/District pursuant to District Rule 1203 on the following schedule:

Report covering June 5 – June 4	Due by July 5
	J J -

Each report shall be certified to be true, accurate, and complete by "The Responsible Official" and a copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator. Compliance Certification Form/Format shall be obtained from MDAQMD Compliance Section.

[40 CFR 72.90.a and Rule 1203 (D)(1)(g)(v - x)]

5. Owner/Operator shall submit, on a semi-annual basis, a *Monitoring Report* to the Air Pollution Control Officer (APCO) / District. Each *Monitoring Report* shall be submitted each semi-annual compliance period on the following schedule:

Report covering June 5 – December 5	Due by January 5
Report covering December 4 – June 4	Due by July 5

This *Monitoring Report* shall be certified to be true, accurate, and complete by "The Responsible Official" and shall include the following information and/or data:

- (a) Summary of deviations from any federally enforceable requirement in this permit.
- (b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally enforceable requirement.
- (c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally enforceable requirement that does not directly require such monitoring.

An alternate Monitoring Report format may be used upon prior approval by MDAQMD. [Rule 1203(D)(1)(e)(i)]

6. Owner/Operator shall promptly report all deviations from Federal Operating Permit

requirements including, but not limited to, any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation. [Rule 1203(D)(1)(e)(ii) and Rule 430(C)]

Prompt reporting shall be determined as follows:

- (a) For deviations involving emissions of air contaminants in excess of permit conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or within one hour of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District. [SIP Pending: Rule 430 Breakdown Provisions as amended 12/21/94 and submitted 2/24/95]
- (b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with any required monitoring reports at least every six (6) months. [Rule 1203(D)(1)(e)(i)]
- 7. If any facility unit(s) should be determined not to be in compliance with any federally-enforceable requirement during the 5-year permit term, then Owner/Operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 518). In addition, Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:
 - (a) A narrative description of how the facility will achieve compliance with such requirements; and
 - (b) A Schedule of Compliance which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of Progress Reports at least every six (6) months. The Schedule of Compliance shall include any judicial order, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and
 - (c) Progress Reports submitted under the provisions of a Schedule of Compliance shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule

of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance. [Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

C. <u>FACILITY-WIDE COMPLIANCE CONDITIONS:</u>

- 1. Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice. [40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(i)]
- 2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.

 [40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(ii)]
- 3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.

 [40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(iii)]
- 4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement. [40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(iv)]
- 5. Owner/Operator shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.

 [1203 (D)(1)(f)(ii)]
- 6. Owner/Operator shall comply in a timely manner with all applicable requirements / federally enforceable requirements that become effective during the term of this permit. [Rule 1201 (I)(2); Rule 1203(D)(1)(g)(v)]
- 7. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, subpart A, *General Provisions*, and subpart M, *Asbestos*. [40 CFR 61, subparts A and M]. Note: Blythe Energy, Inc. Power Plant is an asbestosfree facility and will remain so.
- 8. Owner/Operator shall comply with all applicable requirements of 40 CFR 98, the

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Mandatory Greenhouse Gas Reporting rule. [40 CFR 98]

PART III

EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

EQUIPMENT DESCRIPTIONS:

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

A. PERMIT B007953 COMBUSTION TURBINE GENERATOR POWER BLOCK

(CT1) consisting of: Natural gas fueled Siemens F Class Model V84.3A(2) Serial No. 800436 combustion turbine generator power block producing approximately 260 MW(e) with a connected heat recovery steam generator and a steam condensing turbine (shared with B007954), maximum turbine heat input of 1776 MMBtu/hr.

B. PERMIT B007954 COMBUSTION TURBINE GENERATOR POWER BLOCK

(CT2) consisting of: Natural gas fueled Siemens F Class Model V84.3A(2) Serial No. 800437 combustion turbine generator power block producing approximately 260 MW(e) with a connected heat recovery steam generator and a steam condensing turbine (shared with B007953), maximum turbine heat input of 1776 MMBtu/hr.

- 1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment shall be exclusively fueled with pipeline quality natural gas with a sulfur content not exceeding 0.5 grains per 100 dscf on a twenty-four hour basis and not exceeding 0.25 grains per 100 dscf on a rolling twelve month average basis, and shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
- 3. This equipment is subject to the federal NSPS codified at 40 CFR Part 60, Subparts A (General Provisions) and GG (Standards of Performance for Stationary Gas Turbines). This equipment is also subject to the Prevention of Significant Deterioration (40 CFR 51.166) and Federal Acid Rain (Title IV) programs. Compliance with all applicable provisions of these regulations is required.
- 4. Emissions from this equipment (including its associated duct burner) shall not exceed the following emission limits at any firing rate, except for CO, NOx, and VOC during

periods of startup, shutdown and malfunction:

- a. Hourly rate, computed every 15 minutes, verified by CEMS and annual compliance tests:
 - i. NOx as NO2 the most stringent of 19.80 lb/hr or 2.5 ppmvd corrected to 15% oxygen and averaged over one hour
 - ii. NOx as NO2 effective May 7, 2016, 2.0 ppmvd corrected to 15% oxygen and averaged over a rolling 12 month period.
 - iii. CO the most stringent of 17.5 lb/hr or 4.0 ppmvd corrected to 15% oxygen and averaged over three hours
 - iv. CO 10 lb/hr averaged over a rolling 12-month period
- b. Hourly rates, verified by annual compliance tests or other compliance methods in the case of SOx:
 - i. VOC as CH4 2.9 lb/hr (based on 1 ppmvd corrected to 15% oxygen)
 - ii. SOx as SO2 2.7 lb/hr (based on 0.5 grains/100 dscf fuel sulfur)
 - iii. PM10 6.2 lb/hr
- 5. Emissions of CO and NOx from this equipment shall only exceed the limits contained in Condition 4 during startup and shutdown periods as follows:
 - a. Startup is defined as the period beginning with ignition and lasting until either the equipment complies with all Condition 4 operating permit limits for two consecutive 15-minute averaging periods or four hours after ignition, whichever occurs first. Shutdown is defined as the period beginning with the lowering of equipment from base load and lasting until fuel flow is completely off and combustion has ceased.
 - b. The emissions from each startup or shutdown event shall not exceed the following, verified by CEMS:
 - i. NOx 376 lb
 - ii. CO 3600 lb
 - c. Effective May 7, 2016, the CO emissions from all startup and shutdown events at both power blocks, averaged over a rolling 12-month period, shall not exceed 750 lb/event, verified by CEMS.
- 6. Aggregate emissions from B007953 and B007954, including the associated duct burners, shall not exceed the following emission limits, based on a calendar day summary:
 - a. NOx 5762 lb/day, verified by CEMS
 - b. CO 8004 lb/day, verified by CEMS
 - c. VOC as CH4 239 lb/day, verified by compliance tests and hours of operation in steady-state, pre-mix mode.
 - d. SOx as SO2 130 lb/day, verified by fuel sulfur content and fuel use data
 - e. PM10 298.5 lb/day, verified by compliance tests and hours of operation
- 7. Emissions from all Blythe Energy Project I permit units at this facility (as listed in Part I.A.1 of this Permit), including the cooling towers, shall not exceed the following emission limits, based on a rolling 12 month summary:
 - a. NOx 97 tons/year, verified by CEMS
 - b. CO 175 tons/year, verified by CEMS

- c. VOC as CH4 24 tons/year, verified by compliance tests and hours of operation in steady-state, pre-mix mode
- d. SOx as SO2 12 tons/year, verified by fuel sulfur content and fuel use data
- e. PM10 56.9 tons/year, verified by compliance tests and hours of operation These limits shall apply to all emissions from all Blythe Energy Project permit units at this facility (as listed in Part I.A.1, of the Federal Operating Permit), and shall include emissions during all modes of operation, including startup, shutdown and malfunction.
- 8. Particulate emissions from this equipment shall not exceed opacity equal to or greater than twenty percent (20%) for a period aggregating more than three (3) minutes in any one (1) hour, excluding uncombined water vapor.
- 9. This equipment shall exhaust through a stack at a minimum height of 130 feet.
- 10. *For Permit B007953 only:* The owner/operator (o/o) shall not operate this equipment after the initial commissioning period without the selective catalytic NOx reduction system with valid District permit C007959, as well as the oxidation catalyst with valid District permit C010832 installed and fully functional.
- 10. *For Permit B007954 only:* The owner/operator (o/o) shall not operate this equipment after the initial commissioning period without the selective catalytic NOx reduction system with valid District permit C007960 as well as the oxidation catalyst with valid District permit C010833 installed and fully functional.
- 11. The o/o shall provide stack sampling ports and platforms necessary to perform source tests required to verify compliance with District rules, regulations and permit conditions. The location of these ports and platforms shall be subject to District approval.
- Emissions of NOx, CO, oxygen and ammonia slip shall be monitored using a Continuous Emissions Monitoring System (CEMS). Each CEMS shall be operational whenever the associated combustion turbine generator is in operation, including during periods of startup, shutdown and malfunction. Turbine fuel consumption shall be monitored using a continuous monitoring system. Stack gas flow rate shall be monitored using either a Continuous Emission Rate Monitoring System (CERMS) meeting the requirements of 40 CFR Part 75 Appendix A or a stack flow rate calculation method. The o/o shall install, calibrate, maintain, and operate these monitoring systems according to a District-approved monitoring plan and MDAQMD Rule 218, and they shall be installed prior to initial equipment startup. Six (6) months prior to installation the operator shall submit a monitoring plan for District review and approval.
- 13. The o/o shall conduct all required compliance/certification tests in accordance with a District-approved test plan. Thirty (30) days prior to the compliance/certification tests the o/o shall provide a written test plan for District review and approval. Written notice of the compliance/certification test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such compliance/certification tests shall be submitted to the District within forty-five (45) days

after testing.

- 14. The o/o shall perform the following annual compliance tests in accordance with the MDAQMD Compliance Test Procedural Manual. The test report shall be submitted to the District no later than six weeks prior to the expiration date of this permit. The following compliance tests are required:
 - a. NOx as NO2 in ppmvd at 15% oxygen and lb/hr (measured per USEPA Reference Methods 19, 20, or 7E). If testing is performed at 90%-100% of rated capacity, then the annual calibration RATA associated with the NOx CEMS in use on these units may be used in lieu of the required annual EPA Reference Method 20, as long as all of the requirements of prior test notification, proper test result submittal, etc., are followed.
 - b. VOC as CH4 in ppmvd at 15% oxygen and lb/hr (measured per USEPA Reference Methods 25A and 18).
 - c. SOx as SO2 in ppmvd at 15% oxygen and lb/hr.
 - d. CO in ppmvd at 15% oxygen and lb/hr (measured per USEPA Reference Method 10).
 - e. PM10 in mg/m3 at 15% oxygen and lb/hr (measured per USEPA Reference Methods 5 and 202 or CARB Method 5)
 - f. Flue gas flow rate in dscfm.
 - g. Opacity (measured per USEPA Reference Method 9).
 - h. Ammonia slip in ppmvd at 15% oxygen.
- 15. VOC emissions during startup and shutdown periods will be calculated by the CEMS using the following emissions factors:

For Permit B007953 CTG1 only:

- a. startup events: 0.0048 lb/mmBtu
- b. shutdown events: 0.0220 lb/mmBtu

For Permit B007954 CTG2 only:

- a. startup events: 0.0056 lb/mmBtu
- Continuous monitoring systems shall be installed, calibrated, certified, maintained, and operated in accordance with the following:meet the following acceptability testing requirements from 40 CFR 60 Appendix B:
 - a. For NOx and oxygen, 40 CFR 75 appendices A and B Performance Specification 2.
 - b. For oxygen, Performance Specification 3.
 - c. For CO, 40 CFR 60 Appendix B Performance Specification 4 and 40 CFR 60 Appendix F except that:
 - i. The CGA frequency will follow 40 CFR 75 Appendix B Sections 2.2.1 and 2.2.4. Specifically, a CGA will be required at least once during each QA operating quarter, not to exceed four calendar quarters, plus a 168-unit operating hour grace period will apply following the expiration of a required CGA. CGAs will be conducted no less than 30 days apart, to the extent practicable.
 - ii. Analyzer ranges less than or equal to 30 ppm (i.e. CO low range) will be exempt from CGA requirements.
 - iii. All RATA testing shall be conducted at least once every four QA operating quarters but no less frequently than once every eight calendar quarters as provided in 40 CFR 75 App. B, §2.3.1.1. If RATA testing is not completed within this timeframe, a 720 unit operating hour grace period may be used, as provided in 40 CFR 75 App. B, §2.3.3.b. All RATA testing shall be conducted at the normal load level(s) as determined in accordance with 40 CFR 75 Appendix A Section 2.3.1.3(a).
 - d. For stack gas flow rate, Performance Specification 6 (if CERMS is installed).
 - e. For ammonia, a District approved procedure that is to be submitted by the o/o.

- 17. The o/o shall submit to the Air Pollution Control Officer (APCO) and USEPA Region IX the following information for the preceding calendar quarter by January 30, April 30, July 30 and October 30 of each year this permit is in effect. Each January 30 submittal shall include a summary of the reported information for the previous year. This information shall be maintained on site for a minimum of five (5) years and shall be provided to District personnel on request:
 - a. Operating parameters of emission control equipment, including but not limited to ammonia injection rate, NOx emission rate and ammonia slip.
 - b. Total plant operation time (hours), number of startups, hours in startup, and hours in shutdown period.
 - c. Date and time of the beginning and end of each startup and shutdown period.
 - d. Average plant operation schedule (hours per day, days per week, weeks per year).
 - e. All continuous emissions data reduced and reported in accordance with the District-approved CEMS protocol.
 - f. Maximum hourly, maximum daily, total quarterly, and total calendar year emissions of NOx, CO, PM10, VOC and SOx (including calculation protocol).
 - g. Total monthly and rolling 12-month emissions of NOx, CO and PM10 from all permit units.
 - h. Total monthly and rolling 12-month fuel use in the gas turbines and duct burners.
 - i. Average NOx concentration and average CO mass emission rate, for all operating periods except during startup, shutdown and malfunction, for each gas turbine and associated duct burner, calculated on a rolling 12-month basis.
 - j. Average CO emissions from all startups and shutdowns of the gas turbines, on a per event basis, calculated on a rolling 12-month basis.
 - k. Fuel sulfur content (monthly laboratory analyses, monthly natural gas sulfur content reports from the natural gas supplier(s), or the results of a custom fuel monitoring schedule approved by USEPA for compliance with the fuel monitoring provisions of 40 CFR 60 Subpart GG).
 - 1. A log of all excess emissions, including the information regarding malfunctions/breakdowns required by Rule 430.
 - m. Any permanent changes made in the plant process or production, which would affect air pollutant emissions, and indicate when changes were made.
 - n. Any maintenance to any air pollutant control system (recorded on an as-performed basis).
 - 18. Effective May 7, 2016, total fuel use in the two gas turbines and two duct burners (Permit #B007953 COMBUSTION TURBINE GENERATOR POWER BLOCK (CT1), Permit #B007954 COMBUSTION TURBINE GENERATOR POWER BLOCK (CT2), Permit #B007955 DUCT BURNER UNIT 1 and Permit #B007956 DUCT BURNER UNIT 2) shall not exceed 31,852,800 MMBtu in any rolling 12-month period.
 - C. <u>PERMIT B007955 DUCT BURNER UNIT 1:</u> Natural gas burner located within the heat recovery steam generator covered by B007953, maximum heat input of 120 MMBtu/hr. Manufacturer is Forney, model # 1002-WPS-C1 and serial #17130.

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless

otherwise noted below.

- 2. This equipment shall be exclusively fueled with natural gas and shall be operated and maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.
- 3. This duct burner shall not be operated unless the combustion turbine generator with valid District permit B007953, selective catalytic reduction system with valid District permit C007959, and oxidation catalyst C010832 are in operation.
- 4. Fuel use by this equipment shall be recorded and maintained on site for a maintained on site for a minimum of five (5) years and shall be provided to District, State or Federal personnel on request.
- **D.** PERMIT B007956 DUCT BURNER UNIT 2: Natural gas burner located within the heat recovery steam generator covered by B007954, maximum heat input of 120 MMBtu/hr. Manufacturer Forney, model # 1002-WPS-C1 and serial #17202.

PERMIT CONDITIONS:

- 1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment shall be exclusively fueled with natural gas and shall be operated and maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.
- 3. This duct burner shall not be operated unless the combustion turbine generator with valid District permit B007954, selective catalytic reduction system with valid District permit C007960, and oxidation catalyst C010833 are in operation.
- 4. Fuel use by this equipment shall be recorded and maintained on site for a minimum of five (5) years and shall be provided to District, State or Federal personnel on request.
- **E. PERMIT C007959 SCR UNIT 1** consisting of: Selective Catalytic Reduction system with a catalyst located within the power train covered by B007953 and an ammonia injection system. Manufacturer is Haldor Topsoe; model HO5.331cpsi.

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

- 2. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
- 3. This equipment shall be operated concurrently with the combustion turbine generator with valid MDAQMD permit B007953.
- 4. Ammonia shall be injected whenever the selective catalytic reduction system has reached or exceeded 550 deg Fahrenheit. Except during periods of startup and shutdown, ammonia slip shall not exceed 10 ppmvd (corrected to 15% oxygen), averaged over three hours.
- 5. Ammonia injection by this equipment in pounds per hour shall be recorded and maintained on site for a minimum of five (5) years and shall be provided to District, State or Federal personnel on request.
- F. PERMIT C007960 SCR UNIT 2 consisting of: SELECTIVE CATALYTIC REDUCTION system with a catalyst located within the power train covered by B007954 and an ammonia injection system. Manufacturer is Haldor Topsoe; model HO5.331cpsi

- 1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
- 3. This equipment shall be operated concurrently with the combustion turbine generator with valid MDAQMD permit B007954.
- 4. Ammonia shall be injected whenever the selective catalytic reduction system has reached or exceeded 550 deg Fahrenheit. Except during periods of startup and shutdown, ammonia slip shall not exceed 10 ppmvd (corrected to 15% oxygen), averaged over three hours.
- 5. Ammonia injection by this equipment in pounds per hour shall be recorded and maintained on site for a minimum of five (5) years and shall be provided to District, State or Federal personnel on request.
- G. PERMIT C010832 OXIDATION CATALYST, UNIT 1 consisting of:
 Oxidation Catalyst System with a catalyst located within the power train covered by B007953. Johnson Matthey, Honeycat, serial number 200cpsi.

- 1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
- 3. This equipment shall be operated concurrently with the combustion turbine generator with valid District permit B007953.
- H. <u>PERMIT C010833 OXIDATION CATALYST, UNIT 2</u> consisting of: Oxidation Catalyst System with a catalyst located within the power train covered by B007954. Johnson Matthey, Honeycat, serial number 200cpsi.
- 1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
 - 3. This equipment shall be operated concurrently with the combustion turbine generator with valid District permit B007954.
- **PERMIT B007957 (Main Cooling Tower)** consisting of: A Marathon Model 9B 445TTFN4573AA wet cooling tower with water circulation, treatment and handling equipment and air circulation equipment, including the following:

Capacity	Equipment Name	Order
250.00	Cooling Cell Fan #8, Motor Serial No. MU402450-2/22-02	1
250.00	Cooling Cell Fan #7, Motor Serial No. MU402450-2/22-01	2
250.00	Cooling Cell Fan #6, Motor Serial No. MU402450-2/22-05	3
250.00	Cooling Cell Fan #5, Motor Serial No. MU402450-2/22-03	4

Capacity	Equipment Name	Order
250.00	Cooling Cell Fan #4, Motor Serial No. MU402450-2/22-06	5
250.00	Cooling Cell Fan #3, Motor Serial No. MU402450-2/22-07	6
250.00	Cooling Cell Fan #2, Motor Serial No. MU402450-2/22-04	7
250.00	Cooling Cell Fan #1, Motor Serial No. MU402450-2/22-08	8
1000.00	Circulating Water Pump #12, Johnson Serial No. 01JB1129B	9
1000.00	Circulating Water Pump #11, Johnson Serial No. 01JB1129A	10

- 1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
- 3. The drift rate shall not exceed 0.0006 percent with a maximum circulation rate of 146,000 gallons per minute for the Main Cooling Tower. The maximum hourly PM10 emission rate shall not exceed 0.546 pounds per hour from both the Main and the Chiller Cooling Towers, as calculated per the written District-approved protocol.
- 4. Whenever the power plant is in operation, the operator shall perform tests of the blow-down water quality once in every seven day period at a minimum; to clarify, if at any time during that same seven day period the power plant has run, then the owner operator shall perform blow-down water quality tests. The operator shall maintain a log, which contains the date and result of each blow-down water quality test, and the resulting mass emission rate. This log shall be maintained on site for a minimum of five (5) years and shall be provided to District, State or Federal personnel on request.
- 5. The operator shall conduct all required cooling tower water quality tests in accordance with a District-approved test and emissions calculation protocol.
- 6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure shall be submitted to the District for approval at least thirty (30) days prior to construction and shall be kept on-site and available to District personnel on request.

J. PERMIT B007958 (Chiller Cooling Tower) consisting of: A Water circulation, treatment and handling equipment and air circulation equipment, including units as follows:

Capacity	Equipment Name	Order
250.00	Cooling Cell Fan #12, BAC Model CXV-T08 Serial No. U025323712	1
250.00	Cooling Cell Fan #11, BAC Model CXV-T08 Serial No. U025323711	2
250.00	Cooling Cell Fan #10, BAC Model CXV-T08 Serial No. U025323710	3
250.00	Cooling Cell Fan #9, BAC Model CXV-T08 Serial No. U025323709	4
250.00	Cooling Cell Fan #8, BAC Model CXV-T08 Serial No. U025323708	5
250.00	Cooling Cell Fan #7, BAC Model CXV-T08 Serial No. U025323707	6
250.00	Cooling Cell Fan #6, BAC Model CXV-T08 Serial No. U025323706	7
250.00	Cooling Cell Fan #5, BAC Model CXV-T08 Serial No. U025323705	8
250.00	Cooling Cell Fan #4, BAC Model CXV-T08 Serial No. U025323704	9
250.00	Cooling Cell Fan #3, BAC Model CXV-T08 Serial No. U025323703	10
250.00	Cooling Cell Fan #1, BAC Model CXV-T08 Serial No. U025323701	11
250.00	Cooling Cell Fan #2, BAC Model CXV-T08 Serial No. U025323702	12
750.00	Chiller Recirulating Pump #4, Cascade Serial No. 16061	13
750.00	Chiller Recirulating Pump #3, Cascade Serial No. 16060	14
750.00	Chiller Recirulating Pump #2, Cascade Serial No. 16059	15
750.00	Chiller Recirulating Pump #1, Cascade Serial No. 16058	16

- 1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.

- 3. The drift rate shall not exceed 0.0006 percent with a maximum circulation rate of 22,000 gallons per minute for the Chiller Cooling Tower. The maximum hourly PM10 emission rate shall not exceed 0.546 pounds per hour from both the Main and the Chiller Cooling Towers, as calculated per the written District-approved protocol.
- 4. Whenever the power plant is in operation, the operator shall perform weekly tests of the blow-down water quality. The operator shall maintain a log, which contains the date and result of each blow-down water quality test, and the resulting mass emission rate. This log shall be maintained on site for a minimum of five (5) years and shall be provided to District, State or Federal personnel on request.
- 5. The operator shall conduct all required cooling tower water quality tests in accordance with a District-approved test and emissions calculation protocol. Thirty (30) days prior to the first such test the operator shall provide a written test and emissions calculation protocol for District review and approval.
- 6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure shall be submitted to the District for approval at least thirty (30) days prior to construction and shall be kept on-site and available to District personnel on request.

K. PERMIT E007961 NON-CERTIFIED DIESEL IC ENGINE, EMERGENCY FIRE PUMP consisting of: Year of Manufacture 2002; USEPA Family Name NA; CARB Executive Order NA; Tier 0, One John Deere, Diesel fired internal combustion engine, Model No. 6081HF001 and Serial No. RG6081H145432, Direct Injected, Turbo Charged, producing 303 bhp with 6 cylinders at 2200 rpm while consuming a maximum of 14 gal/hr. This equipment powers a Pump.

- 1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

 [40 CFR Part 63, Subpart ZZZZ]
- 2. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements.

 [Title 17 CCR 93115]
- 3. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.

[Title 17 CCR 93115; 40 CFR §63.6625(f)]

- 4. This unit shall be limited to use for emergency power, defined as in response to a fire or due to low fire water pressure. In addition, this unit shall be operated no more than 20 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour per year limit. [Title 17 CCR 93115.6]
- 5. The requirements of section 93115.6, the hour limits indicated above, do not apply to inuse emergency fire pump assemblies that are driven directly by stationary diesel-fueled CI engines and only operated the number of hours necessary to comply with the testing requirements of National Fire Protection Association (NFPA) 25 "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 2002 edition, which is incorporated herein by reference.

 [Title 17 CCR 93115.3]
- 6. The owner/operator (o/o) shall maintain an operations log for this unit current and onsite, either at the engine location or at an on-site location, for a minimum of five (5) years, and provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
 - a. Date of each use and duration of each use (in hours), using the engines hour meter;
 - b. Reason for use (testing & maintenance, emergency, required emission testing);
 - c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and total hours;
 - d. Monthly and rolling 12-month total CO, NOx and PM₁₀ emissions, calculated based on monthly fuel use and District-approved emission factors;
 - e. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

[40 CFR §63.6655(f); Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

- 7. The owner/operator shall conduct inspections in accord with the following schedule. All inspections must occur at least annually regardless of operating hours.
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first, or use an oil change analysis program to extend oil change frequencies per the requirements in 40 CFR 63.6625(i);
 - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[40 CFR Part 63.6630(a); Table 2d.4.; Subpart ZZZZ]

8. The owner/operator shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of

the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)].

9. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines Title 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ (RICE NESHAPs). In the event of conflict between conditions and the referenced regulatory citations, the more stringent requirements shall govern. [Title 17 CCR 93115; 40 CFR 63, Subpart ZZZZ]

L. PERMIT E009492 PROPANE IC ENGINE, EMERGENCY GENERATOR (CHILLER BLDG) consisting of: One Ford, Propane fired internal combustion engine, Model No. WSG106816005E-NA and Serial No. 01-11- 012316, Direct Injected, Inter Cooled, producing 114 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 12 gal/hr. This equipment powers a Generator.

- 1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

 [40 CFR Part 63, Subpart ZZZZ]
- 2. This ICE shall only be fired on propane (LPG). [District Rule 1302]
- 3. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time. [40 CFR §63.6625(f)]
- 4. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 100 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 100 hour per year limit.

 [40 CFR Part 63, Subpart ZZZZ]
- 5. The o/o shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
 - a. Date of each use and duration of each use (in hours);
 - b. Reason for use (testing & maintenance, emergency, required emission testing);
 - c. Monthly and calendar year operation in terms of fuel consumption (in gallons)

and total hours;

d. Monthly and rolling 12-month total CO, NOx and PM₁₀ emissions, calculated based on monthly fuel use and District-approved emission factors.
 [40 CFR §63.6655(f)]

- 6. The owner/operator shall conduct inspections in accord with the following schedule. All inspections must occur at least annually regardless of operating hours.
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first; or use an oil change analysis program to extend oil change frequencies per the requirements in 40 CFR 63.6625(i);
 - b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first;
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[40 CFR Part 63.6640; Table 2d.5, Subpart ZZZZ]

- 7. The owner/operator shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

 [40 CFR 63.6625(h)]
- 8. This unit is subject to the requirements of 40 CFR 63 Subpart ZZZZ (RICE NESHAPs). In the event of conflict between conditions and the referenced regulatory citation, the more stringent requirements shall govern.

 [40 CFR 63, Subpart ZZZZ]

PART IV STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.

[40 CFR 70.6(a)(5); Rule 1203(D)(1)(f)(i)]

2. Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.

[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]

3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).

[40 CFR 70.6(a)(6)(ii); Rule 1203(D)(1)(f)(iii)]

4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.

[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(iv)]

5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.

[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(v)]

6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.

[40 CFR 70.6(a)(6)(iv); Rule 1203(D)(1)(f)(vi)]

7. Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing. [40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]

8. Owner/Operator shall furnish to District, state or federal personnel, upon request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.

[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(viii)]

9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.

[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

- 10. Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312. [40 CFR 70.6(a)(7); Rule 1203(D)(1)(f)(ix)]
- Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.

 [40 CFR 70.6(a)(8); Rule 1203(D)(1)(f)(x)]
- 12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s). The District clarifies that "only" Applicable Requirements listed & identified elsewhere in this Title V Permit are covered by this Permit Shield and does not extend to any unlisted/unidentified conditions pursuant to the requirements of 40 CFR 70.6(f)(1)(i).

 [40 CFR 70.6(f)(1)(i); Rule 1203(G)(1)]
- 13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603. [40 CFR 70.6(f)(3)(i); Rule 1203(G)(3)(a)]
- The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations, which occurred prior to the issuance of this Federal Operating Permit.
 [40 CFR 70.6(f)(3)(ii); Rule 1203(G)(3)(b)]
- 15. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter any Applicable Requirement Contained in the Acid Rain Program.

 [40 CFR 70.6(f)(3)(iii); Rule 1203(G)(3)(c)]
- 16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414. [40 CFR 70.6(f)(3)(iv); Rule 1203(G)(3)(d)]
- 17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State

Implementation Plan. [40 CFR 70.4(b)(12)(ii)(B); Rule 1203(G)(3)(e)]

- 18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit. [40 CFR 70.4(b)(14)(iii); Rule 1203(G)(3)(f)]
- 19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit.

 [40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); Rule 1203 (G)(3)(g)]
- 20. If Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.

 [40 CFR Part 82, Subpart F]
- 21. If Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit. [40 CFR Part 82, Subpart B]
- 22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.

 [Section 113(a) of the Clean Air Act]
- Owner/operator desiring to renew this Federal Operating Permit shall submit an application for renewal at least six (6) months, but no earlier than eighteen (18) months, prior to the expiration date of this Federal Operating Permit.

 [40 CFR 70, Rule 1202(B)(3)(b)]

PART V OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO(S):

B. OFF PERMIT CHANGES:

- I. Permitee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:
 - A. Permitee has applied for and obtained all permits and approvals required by MDAQMD Regulation II and Regulation XII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of Rule 219; and
 - 1. The proposed change is not:
 - a. Subject to any requirements under Title IV of the Federal Clean Air Act; or $[See\ 1203(E)(1)(c)(i)d]$
 - b. A modification under Title I of the Federal Clean Air Act; or
 - c. A modification subject to Regulation XIII; and [See 1203(E)(1)(c)(i) d]
 - d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and [See 1203(E)(1)(c)(i)c]
 - e. The change does not result in the exceedance of the emissions allowable under this permit (whether expressed as an emissions rate or in terms of total emissions). [See 1203(E)(1)(c)(i)e]

II. Procedure for "Off Permit" Changes

- A. If a proposed "Off Permit Change" qualifies under Part V, Section (B)(I)(A)(1) above, permitee shall implement the change as follows:
 - 1. Permitee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. [See 1203(E)(1)(c)(i)b]
 - 2. In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:
 - a. A notification that this application is also an application for an "Off Permit" Change pursuant to this condition; and [See 1203(E)(1)(c)(i)b]
 - b. A list of any new Applicable Requirements which would apply as a result of the change; and $[See\ 1203(E)(1)(c)(i)b.]$
 - c. A list of any existing Applicable Requirements, which would cease to apply as a result of the change. [See 1203(E)(1)(c)(i)c]
 - 3. Permitee shall forward a copy of the application and notification to USEPA upon submitting it to the District. [See 1203(E)(1)(c)(i)a]
- B. Permitee may make the proposed change upon receipt from the District of the Authority to Construct Permit or thirty (30) days after forwarding the copy of the notice and application to USEPA whichever occurs later. [See 1203(E)(1)(c)(i)a

and g]

- C. Permitee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate, which evidences the Off Permit Change to this Title V permit. [See 1203(E)(1)(c)(i)f]
- D. Permitee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). [See 1203(E)(1)(c)(i)f]

III. Other Requirements:

- A. The provisions of Rule 1205 Modifications do not apply to an Off Permit Change made pursuant to this condition.
- B. The provisions of Rule 1203(G) Permit Shield do not apply to an Off Permit Change made pursuant to this condition. [See 40 CFR 70.4(b)(i)(B)] [Rule 1203(E)(1)(c)]

PART VI Title IV Acid Rain Permit

Effective Dates: December 5, 2016 to December 5, 2021

Issued to: BLYTHE ENERGY, INC.

Plant Site Location: 385 N. Buck Blvd.

Blythe, CA 92225

Type of Facility: Combined Cycle Generation Facility

SIC Code: 4911 – Electric Power Generation

ORIS Code: 55295

DESIGNATED REPRESENTATIVE

Name: Jason Allen

Title: Vice President of Operations - Power

FACILITY CONTACT PERSONS

Name: Bill Cotton

Title: Plant General Manager

Name: Ramon Campos

Title: Compliance Manager

ACID RAIN PERMIT CONTENTS

1) PERMIT APPLICATION - see page VI-46

The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application submitted for this source.

2) Applicable Requirements

a. SO2 allowance allocated under this permit and NOx requirements for each affected unit:

	12/5/16-12/5/21
SO2 allowances	None
under Table 2 of 40	
CFR Part 73	
NOx limit, 40 CFR Part	none
76	

b. Standard Requirements

Citation	Requirement
40 CFR 72	Owner/Operator of Blythe Energy Project shall
Rule 1210	comply with all applicable provisions of 40 CFR 72, Permits Regulation (Title IV) and their Title
	IV permit application as indicated in this
	combined, Federal Operating Permit / Title IV
	Acid Rain Permit, Part VIII.
40 CFR 72	Owner / Operator shall comply with all listed
Rule 1210	compliance conditions contained within this Title
	IV Acid Rain Permit and associated Title V
	Permit.
40 CFR 70.6(a)(1)(ii)	Where an applicable requirement of the Act is
	more stringent than an applicable requirement
	of Title IV regulations, both provisions shall be
	incorporated into the permit and is enforceable by the Administrator.
Monitoring, 40 CFR Part 72, Section 72.9(b)	1) The owners and operators and, to the extent
interning, to efficient (2, section (2))	applicable, designated representative of each
	affected source and each affected unit at the
	source shall comply with the monitoring
	requirements as provided in part 75 of this
	chapter.
	(2) The emissions massymments accorded and
	(2) The emissions measurements recorded and reported in accordance with part 75 of this
	chapter shall be used to determine compliance
	by the source or unit, as appropriate, with the
	Acid Rain emissions limitations and emissions
	reduction requirements for sulfur dioxide and
	nitrogen oxides under the Acid Rain Program.
	(3) The requirements of part 75 of this chapter
	shall not affect the responsibility of the owners
	and operators to monitor emissions of other

	pollutants or other emissions characteristics at
	the unit under other applicable requirements of
	the Act and other provisions of the operating permit for the source.
Reporting, 40 CFR Part 72, Section 72.9(f)(2)	
Reporting, 40 CFR Part 72, Section 72.9(1)(2)	The designated representative of an affected source and each affected unit at the source
	shall submit the reports and compliance
	certifications required under the Acid Rain
	Program, including those under subpart I of
	this part and part 75 of this chapter.
Recordkeeping, 40 CFR Part 72, Section	(1) Unless otherwise provided, the owners and
72.9(f)(1)	operators of the source and each affected unit
	at the source shall keep on site at the source
	each of the following documents for a period
	of 5 years from the date the document is
	created. This period may be extended for
	cause, at any time prior to the end of 5 years, in
	writing by the Administrator or permitting
	authority.
	(i) The certificate of representation for
	the designated representative for the
	source and each affected unit at the
	source and all documents that
	demonstrate the truth of the statements
	in the certificate of representation, in
	accordance with §72.24; provided that
	the certificate and documents shall be
	retained on site at the source beyond
	such 5-year period until such
	documents are superseded because of
	the submission of a new certificate of
	representation changing the designated
	representative.
	(ii) All emissions monitoring
	information, in accordance with part 75
	of this chapter; provided that to the
	extent that part 75 provides for a 3-year
	period for recordkeeping, the 3-year
	period shall apply.
	(iii) Coming of all remarks accounting to
	(iii) Copies of all reports, compliance certifications, and other submissions
	and all records made or required under
	the Acid Rain Program.
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	(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
Section 113(a) of the Clean Air Act	Notwithstanding the testing requirements contained elsewhere in this combined Title IV / V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.

3) Statement of Basis

The Mojave Desert Air Quality Management District issues this permit pursuant to Regulation XII, Rule 1210 and Titles IV and V of the Clean Air Act. Questions or comments regarding this permit should be addressed to:

Brad Poiriez, Executive Director Mojave Desert Air Quality Management District 14306 Park Avenue Victorville, CA 92392 760-245-1661 760-245-2022 (fax)

This Acid Rain Permit applies to the following units:

MDAQMD	DESCRIPTION	BASIS
PERMIT		
NUMBER		
B007953	COMBUSTION TURBINE	40 CFR Part 72.6(a)(3)(i)
B007956	GENERATOR POWER	
	BLOCK (CT1)	
	DUCT BURNER UNIT 1	
B007954	COMBUSTION TURBINE	40 CFR Part 72.6(a)(3)(i)
B007956	GENERATOR POWER	
	BLOCK (CT2)	
	DUCT BURNER UNIT 2	

Comments, notes and justifications regarding this Acid Rain Program permit

- Pursuant to 40 CFR Part 72.6(a)(3)(i), the affected units specified above meet the 72.2 definition for a new utility unit and are subject to the acid rain permit requirements of 72.9(a). The affected units do not qualify for a new unit exemption pursuant to 40 CFR 72.7(b)(1) since each serves a generator with a nameplate capacity greater than 25 MW.
- The affected units specified above are not listed in table-2 of 40 CFR Part 73, therefore, the operator is not required to obtain SO2 allowances under the Acid Rain Program.
- This unit is not subject to the NOx requirements from 40 CFR Part 76 as this unit is not capable of firing on coal



United States Environmental Protection Agency Acid Rain Program

OMB No. 2060-0258 Approval expires 12/31/2021

Acid Rain Permit Application

or more information,	see instructions	and 40 CFR	72.30 and 72.31.

This submission is:	new	revised	✓ for ARP permit renewal
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STEP 1

Identify the facility name, State, and plant (ORIS) code.

Blythe Energy	CA 55295		
Facility (Source) Name	State	Plant Code	

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
1	Yes
2	Yes
	Yes

Blythe Energy

Facility (Source) Name (from STEP 1)

STEP 3

Permit Requirements

Read the standard requirements.

(1) The designated representative of each affected source and each affected unit at the source shall: Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR

part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the

Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and

(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

- (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Blythe Energy

Facility (Source) Name (from STEP 1)

STEP 3, Cont'd. Excess Emissions Requirements

- (1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
 - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
 - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
 - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Blythe Energy Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Andreas Mehlich	
Signature AMARICA	Date 06/02/2021



Instructions for the Acid Rain Program Permit Application

The Acid Rain Program requires the designated representative to submit an Acid Rain permit application for each source with an affected unit. A complete Certificate of Representation must be received by EPA before the permit application is submitted to the Title V permitting authority. A complete Acid Rain permit application, once submitted, is binding on the owners and operators of the affected source and is enforceable in the absence of a permit until the Title V permitting authority either issues a permit to the source or disapproves the application.

Please type or print. If assistance is needed, contact the Title V permitting authority.

- STEP 1 A Plant Code is a 4 or 5 digit number assigned by the Department of Energy's (DOE) Energy Information Administration (EIA) to facilities that generate electricity. For older facilities, "Plant Code" is synonymous with "ORISPL" and "Facility" codes. If the facility generates electricity but no Plant Code has been assigned, or if there is uncertainty regarding what the Plant Code is, send an email to the EIA. The email address is EIA-860@eia.gov.
- STEP 2 In column "a," identify each unit at the facility by providing the appropriate unit identification number, consistent with the identifiers used in the Certificate of Representation and with submissions made to DOE and/or EIA. Do not list duct burners. For new units without identification numbers, owners and operators must assign identifiers consistent with EIA and DOE requirements. Each Acid Rain Program submission that includes the unit identification number(s) (e.g., Acid Rain permit applications, monitoring plans, quarterly reports, etc.) should reference those unit identification numbers in exactly the same way that they are referenced on the Certificate of Representation.

Submission Deadlines

For new units, an initial Acid Rain permit application must be submitted to the Title V permitting authority 24 months before the date the unit commences operation. Acid Rain permit renewal applications must be submitted at least 6 months in advance of the expiration of the acid rain portion of a Title V permit, or such longer time as provided for under the Title V permitting authority's operating permits regulation.

Submission Instructions

Submit this form to the appropriate Title V permitting authority. If you have questions regarding this form, contact your local, State, or EPA Regional Acid Rain contact, or call EPA's Clean Air Markets Hotline at (202) 343-9620.

Paperwork Burden Estimate

The public reporting and record keeping burden for this collection of information is estimated to average 8 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. **Do not send the completed form to this address.**

PART VII CONVENTIONS, ABREVIATIONS, DEFINITIONS

A. <u>CONVENTIONS:</u>

The following referencing conventions are used in this federal operating permit:

40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS)

40 CFR Part 60, Appendix F, Quality Assurance Procedures

40 CFR Part 61, <u>National Emission Standards for Hazardous Air Pollutants</u> (NESHAPS)

40 CFR Part 61, Subpart M, National Emission Standards for Asbestos

40 CFR Part 63--National Emission Standards For Hazardous Air Pollutants For

Affected Source Categories

40 CFR Part 72, Permits Regulation (Acid Rain Program)

40 CFR Part 73, Sulfur Dioxide Allowance System

40 CFR Part 75, Continuous Emission Monitoring

40 CFR Part 75, Subpart D, Missing Data Substitution Procedures

40 CFR Part 75, Appendix B, Quality Assurance and Quality Control Procedures

40 CFR Part 75, Appendix C, Missing Data Estimating Procedures

40 CFR Part 75, Appendix D, Optional SO₂ Emissions Data Protocol

40 CFR Part 75, Appendix F, Conversion Procedures

40 CFR Part 75, Appendix G, Determination of CO₂ Emissions

B. OTHER CONVENTIONS:

- 1. Unless otherwise noted, a "day" shall be considered a 24-hour period from midnight to midnight (i.e., calendar day).
- 2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. ABBREVIATIONS

Abbreviations used in this permit are as follows:

CFR Code of Federal Regulations APCO Air Pollution Control Officer

bhp brake horsepower
Btu British thermal units

CCR California Code of Regulations

CEMS continuous emissions monitoring system

CO carbon monoxide CO₂ carbon dioxide

District Mojave Desert Air Quality Management District (formed July 1993)
MDAQMD Mojave Desert Air Quality Management District (formed July 1993)

BLYTHE ENERGY, INC.

November 18, 2017

MD Mojave Desert Air Quality Management District (formed July 1993)
SB San Bernardino County APCD (1975 to formation of MDAQMD)

gr/dscf grains per dry standard cubic foot

gpm gallons per minute gph gallons per hour hp horse power

H&SC California Health and Safety Code

lb pounds

lb / hr pounds per hour

lb / MM Btu pounds per million British thermal units

MM Btu million British thermal units

MM Btu/hr million British thermal units per hour

MW Megawatt electrical power MW(e) net net Megawatt electrical power

NH₃ ammonia

NMOC non-methane organic compounds

NO_x oxides of nitrogen NO₂ nitrogen dioxide

O₂ oxygen

pH (acidity measure of solution)

PM₁₀ particulate matter less than 10 microns aerodynamic diameter

ppmv parts per million by volume

psig pounds per square inch gauge pressure

QA quality assurance rpm revolutions per minute RVP Reid vapor pressure

SCAQMD South Coast Air Quality Management District

scfm standard cubic feet per minute scfh standard cubic feet per hour SIC Standard Industrial Classification

SIP State of California Implementation Plan

SO_x oxides of sulfur SO₂ sulfur dioxide tpy tons per year

TVP true vapor pressure

D. MDAQMD RULE SIP HISTORY

SIP Rule Citations for Mojave Desert Air Quality Management District Rules

District Rule Number	District Rule Title	SIP Rule Version	SIP Citation	Federally Enforceable
203	Permit to Operate	1/7/77	Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)	Y
204	Permit Conditions	1/9/76	Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)	Y
206	Posting of Permit to Operate	1/9/76	Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)	Y
207	Altering or Falsifying of Permit	1/9/76	Approved 11/09/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C)	Y
209	Transfer and Voiding of Permit	1/9/76	Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)	Y
217	Provision for Sampling And Testing Facilities	1/9/76	Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)	Y
218	Stack Monitoring	7/25/79	Approved 9/28/81, 46 FR 47451,40 CFR 52.220(c)(65)(ii)	Y

219	Equipment Not Requiring a Written Permit	6/6/77	Approved 11/9/78, 43 FR, 52237, 40 CFR 52.220(c)(31)(vi)(C), 40 CFR 52.220(c)(32)(iv)(C), and 40 CFR 52.220(c)(39)(ii)(B)	Y
221	Federal Operating Permit Requirement	12/21/94	Approved 2/5/96, 61 FR 4217, 40 CFR 52.220(c)(216)(i)(A)(2)	Y
301	Permit Fees	Not in SIP	Applicable Version = Most current amendment, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y
312	Fees for Federal Operating Permits	Not in SIP	Applicable Version = Amended: 12/21/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y
401	Visible Emissions	7/25/1977	Approved 9/8/78, 43 FR 4001, 40 CFR 52.220(c)(39)(ii)(C)	Y
403	Fugitive Dust	7/25/1977	Approved 9/8/78, 43 FR 4001, 40 CFR 52.220(c)(39)(ii)(B)	Y

				10, 2017
403.2	Fugitive Dust Control for the Mojave Desert Planning Area	9/22/96	Approved 12/9/98, 63 FR 67784, 40 CFR 52.220(c)(194)(i)(H)(1)	Y
404	Particulate Matter Concentratio n	7/25/77	Approved 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A)	Y
405	Solid Particulate Matter, Weight	7/25/77	Approved 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A) ; Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)	Y
406	Specific Contaminants	7/25/1977 (sub divis ion (a))	Approved, 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A)	Y
407	Liquid and Gaseous Air Contaminants	5/7/76	Approved 9/8/78, 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C)	Y
408	Circumvention	5/7/76	Approved 9/8/78, 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)	Y
409	Combustion Contaminants	5/7/76	Approved 9/8/78; 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)	Y

430	Breakdown Provisions	Not in SIP	Applicable Version = Amended: 12/21/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y
431	Sulfur Content of Fuels	10/8/1976	Approved 9/8/1978, 43 FR 40011, 40 CFR 52.220(c)(37)(i)(B) and 40 CFR 52.220(c)(39)(ii)(B)	Y
442	Usage of Solvents	2/27/06	Approved 09/17/2007, 72 FR 52791, 40 CFR 52.220(c)(347)(i)(C)(1)	Y
900	Standards of Performance for New Stationary Sources	2/28/11	Delegated by USEPA	Y
1000	National Emissions Standards from Hazardous Air Pollutants	2/28/11	Delegated by USEPA	Y
1104	Organic Solvent Degreasing Operations	9/28/94	Approved: 4/30/96, 61 FR 18962, 40 CFR 52.220(c)(207)(I)(D)(2)	Y
1113	Architectural Coatings	4/23/12	Approved: 1/03/14, 79 FR 364, 40 CFR 52.220(c)(428)(i)(C)	Y

1115	Metal Parts and Products Coating Operations	4/22/96	Approved 12/23/97, 62 FR 67002, 40 CFR 52.220(c)(239)(i)(A)(2)	Y
1161	Cement Kilns	3/25/02	Approved 1/2/02, 67 FR 19, 40 CFR 52.220(c)(287)(i)(A)(1)	Y
1302	NSR - Procedure	3/25/96	Approved 11/13/1996, 61 FR 58133, 40 CFR 52.220(c)(239)(i)(A)(1)	Y
Regulation XII	Federal Operating Permits	1201- 1210 : 9/26/ 05 1200 & 1211 : 2/28/ 11	SIP: Not SIP. Final Title V Program Approval 11/21/03 68 FR 65637; Partial Withdrawal of approval 10/15/02 67 FR 63551; Notice of Deficiency 05/22/02 67 FR 35990; Approval 12/17/01 66 FR 63503; Interim Approval 02/05/96 61 FR 4217	

Appendix B Public Notice

Noticing Methods include the following, per District Rule 1207 (A)(1)(a) and District Rule 1302(D)(2) and (3):

- Published in newspapers of general circulation *Riverside Press Enterprise* (Riverside County) and the *Daily Press* (San Bernardino County).
- Mailed and/or emailed to MDAQMD contact list of persons requesting notice of actions (see the contact list following the Public Notice in this Appendix.
- Posted on the MDAQMD Website at the following link: https://www.mdaqmd.ca.gov/permitting/public-notices-advisories/public-notices-permitting