DOCKETED			
Docket Number:	07-AFC-06C		
Project Title:	Carlsbad Energy Center - Compliance		
TN #:	242659		
Document Title:	2021 Annual Compliance Report		
Description:	2021 Annual Compliance Report		
Filer:	Anwar Ali		
Organization:	ation: Carlsbad Energy Center LLC		
Submitter Role:	ter Role: Commission Staff		
Submission Date:	4/13/2022 12:00:55 AM		
Docketed Date:	4/13/2022		

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 30, 2022

Anwar Ali, Ph.D. Compliance Project Manager Carlsbad Energy Center Project (07-AFC-06C) California Energy Commission 1516 Ninth Street (MS-2000) Sacramento, CA 95814

RE: CARLSBAD ENERGY CENTER PROJECT, DOCKET NO. 07-AFC-06C CONDITION OF CERTIFICATION, COM-7 ANNUAL COMPLIANCE REPORT, 2021

Dear Dr. Ali:

Carlsbad Energy Center LLC ("Project Owner") submits the 2021 Annual Compliance Report in compliance with the AFC Docket No. 07-AFC-06C, Conditions of Certification (COCs) COM-7 for the amended Carlsbad Energy Center Project (ACECP) located at 4950 Avenida Encinas, Carlsbad, California.

This report includes information that demonstrates the facility met all applicable conditions of certification during this operational period.

If you have any questions or comments, please do not hesitate to contact Timothy Sisk at (760) 930-1507.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached: Carlsbad Energy Center Project (07-AFC-06C), California Energy Commission, Annual Compliance Report, 2021

Cc: File

Carlsbad Energy Center Project (07-AFC-06C)

California Energy Commission Annual Compliance Report

2021

Submitted by: Carlsbad Energy Center LLC Date Submitted: 03-30-2022

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I. Summary

a. Project Annual Compliance Summary

The Carlsbad Energy Center Project (CECP) began commercial operation on December 12, 2018. In compliance with the California Energy Commission (Energy Commission) license, Carlsbad Energy Center LLC submits the information herein demonstrating compliance with condition of certification COM-8 Annual Compliance Report requirements.

This annual report includes data required by COM-7 for 2021.

II. Operational Status

a. CECP is commercially operational. No significant changes to operations occurred in 2021.

III. Post-Certification Changes to license 07-AFC-06C

a. There were no changes to license 07-AFC-06C in 2021.

IV. Submittal Deadlines Missed

a. No submittal deadlines were missed in 2021.

V. List of Files to and Permits Issued by Other Governmental Agencies

a. Filings Submitting:

i. San Diego Air Pollution Control District Application APCD2022-APP-007113 submitted on January 3, 2022 for identical replacement of the Unit 6 high pressure compressor, combustor, and high pressure turbine within the Supercore.

b. Permits issued:

- i. Department of Environmental Health Annual Permit: DEH2018-HUPFP-004698- expires April 30, 2022
- San Diego Air Pollution Control District: Revised Startup Authorization: APCD2014-APP-003480-003486 with modifications to conditions 14, 40, 41 with expiration of January 10, 2021, later extension(s) to May 24, 2021, August 24, 2021, November 24, 2021, February 24, 2022, and May 24, 2022.
- iii. San Diego Air Pollution Control District: Startup Authorization: APCD2022-APP-007113effective on January 26, 2022 with an expiration date of July 26, 2022. Authorizes the identical replacement of the Unit 6 high pressure compressor, combustor, and high pressure turbine within the Supercore

VI. Evaluation of the Site's Contingency Plan

- a. The site's contingency plan was reviewed for potential updates in 2021.
- b. The emergency contact list was reviewed for accuracy and minor updates were applied.
- C. Various changes were made related to emergency supplies, chemicals, and hazardous materials location.

VII. List of Complaints, Notices of Violation, Official Warnings, Citations Received:

a. The following Complaints, Notices of Violation, Official Warnings, Citations were received in 2021:

There were no complaints, Notices of Violation, Official Warnings, or Citations received in 2021

Attachment A BIO-2: Annual Biologist Report



Biological Resources Annual Compliance Report

Carlsbad Energy Center Project (07-AFC-06C), 2021 Reporting Period

March 2022



Prepared for: Carlsbad Energy Center LLC

Signature Page

March 2022

Biological Resources Annual Compliance Report

Nill

Steve Williams, P.G. Partner

Melissa Fowler

Melissa Fowler Designated Biologist/Senior Biologist

Environmental Resources Management 1920 Main Street, Suite 300 Irvine, California 92614

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1: Site Vicinity Map

1. INTRODUCTION

This Annual Compliance Report (ACR) summarizes biological resources monitoring activities and documentation conducted during operations at the Carlsbad Energy Center (CEC; see Figure 1) from 1 January through 31 December 2021, in accordance with the July 2015 Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP) and California Energy Commission Conditions of Certification (COCs) BIO-6.

1.1 CECP Phase I Overview

Tank demolition/removal, site preparation and remediation activities for Phase I of the Amended Carlsbad Energy Center Project (CECP) were completed in November 2015. Phase I berm removal commenced the first week of February 2016 and was completed in mid-May 2016.

1.2 CECP Phase II Overview

The CEC's Compliance Project Manager (CPM) approved the start of construction on 6 June 2016. Phase II of the Amended CECP began in February 2017 and was completed in October 2018 with complete demobilization in January 2019.

The Construction Closure Report was submitted to the California Energy Commission on March 18, 2019 and was approved on August 20, 2019.

1.3 COCs Overview

The following biological COCs covered by this ACR include, but are not limited to:

- BIO-2 Designated Biologist Duties
- BIO-5 Worker Environmental Awareness Program (WEAP);
- BIO-6 Biological Resources Mitigation Implementation and Monitoring Plan;
- BIO-7 Impact Avoidance Mitigation Features; and
- BIO-8 Mitigation Management to Avoid Harassment or Harm.

2. OPERATIONS MONITORING SUMMARY

This section summarizes biological monitoring activities conducted by ERM-West, Inc. (ERM) during the 2021 reporting period. This ACR document site conditions and biological monitoring events for CEC Operations. As previously noted, CECP Phase I and Phase II have been completed.

The frequency and duration of monitoring is dependent upon nesting and migratory seasons and the biological resources located within, as well as transiting through the work area. Biological monitoring will continue on a quarterly basis (one visit per quarter), as well as on-call monitoring, until the Designated Biologist determines that a change is necessary for the protection of sensitive biological resources or an increase in monitoring is warranted because of a lack of biological resources within the site.

The Biological Resources Compliance Monitoring Logs are provided in Appendix A. A list of wildlife species observed during the monitoring events are included in Appendix B. Wildlife Observation Logs (WOFs) are provided in Appendix C.

2.1 **CECP Operations Monitoring Events and Compliance Inspections**

CEC operational activities are monitored on a quarterly basis. Biological monitoring events occurred on 19 February, 4 May, 29 July, and 11 November 2021. The Biological Resources Compliance Monitoring Logs are provided in Appendix A.

Additionally, nine dead trees were removed from the site over four days in 2021: 6 May, 7 May, 10 May, and 11 May 2021. A pre-construction nesting bird survey was performed on 4 May 2021 and biological monitoring was performed during all tree removals. These additional Biological Resource Compliance Monitoring Logs are provided in Appendix A.

2.2 Nesting Birds

On 4 May 2021, an active American bushtit (*Psaltriparus minimus*) nest was observed in the southernmost dead eucalyptus (*Eucalyptus* sp.) tree along the vegetated berm. An Environmentally Sensitive Area (ESA) buffer was established around the active American bushtit nest and the tree was not removed during tree removal activities. An active house finch (*Haemorhous mexicanus*)) nest was located in Trailer #4, which was located in the water trailers at Unit 8. An ESA buffer was established around the active house finch nest.

On 29 July 2021, an active mourning dove (*Zenaida macroura*) nest was observed in a pile of pallets at the northern end of the site, behind the warehouse. An ESA buffer was established around the nest.

No additional active nests were identified within the operating site. The Biological Resources Compliance Monitoring Logs are provided in Appendix B.

2.3 Special-Status Species

Seven special-status avian species were observed within the site vicinity during the biological monitoring events, which included: American peregrine falcon (*Falco peregrinus anatum*; United States Fish and Wildlife Service [USFWS] Birds of Conservation Concern [BCC]; California Department of Fish and Wildlife [CDFW] Fully Protected [FP]; California Department of Forestry [CDF] Sensitive [S]), burrowing owl (*Athene cunicularia*; CDFW Species of Special Concern [SSC]), California brown pelican (*Pelecanus occidentalis californicus*; CDFW FP; United States Forest Service [USFS] S), great blue heron (*Ardea Herodias*; CDF S), great egret (*Ardea alba*; CDF S), osprey (*Pandion haliaetus*; CDFW WL; CDF S), and monarch butterfly (*Danaus plexippus*; Federal Candidate [FC]; USFS S). Buffer zones were not needed for these special-status species because there were no active nests within operating areas. A list of

wildlife species observed during the monitoring event is included in Appendix B. A California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) report was submitted for the burrowing owl observation (Appendix D). No other observations were submitted to CNDDB because birds in transit (fly-overs) or foraging are not recorded according to CNDDB guidelines¹.

2.4 Wildlife Displacement, Injuries, and Mortalities

2.4.1 Migratory Bird Treaty Act Protected Species

On 2 February 2021, predated avian remains were found near the front entrance. No additional injured or dead species protected by the Migratory Bird Treaty Act (MBTA) or California Department of Fish and Game Codes (3503, 3503.5) were observed at the site. A list of avian species observed during the monitoring event is included in Appendix B. A Wildlife Observation Form (WOF) is provided in Appendix C.

2.4.2 Other Species

No injured or dead wildlife species were observed at the site. A list of wildlife species observed during the monitoring event is included in Appendix B.

2.5 Hazardous Material Spills

No hazardous material spills have occurred at the project site during the biological monitoring event.

2.6 Trash

No litter was observed within the project site during the biological monitoring events.

2.7 Non-compliance Report

No formal non-compliance notifications or incident reports were issued.

¹ California Department of Fish and Wildlife (CDFW). 2016. *Submitting Avian Detections to the CNDDB.* Available online at: <u>https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=25731</u>

FIGURE



Figure 1 Site Location Map Carlsbad Energy Center Project San Diego County, California March 2022

www.erm.com

ERM

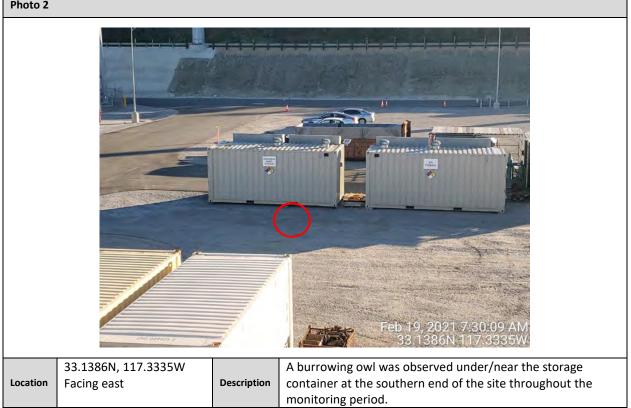
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

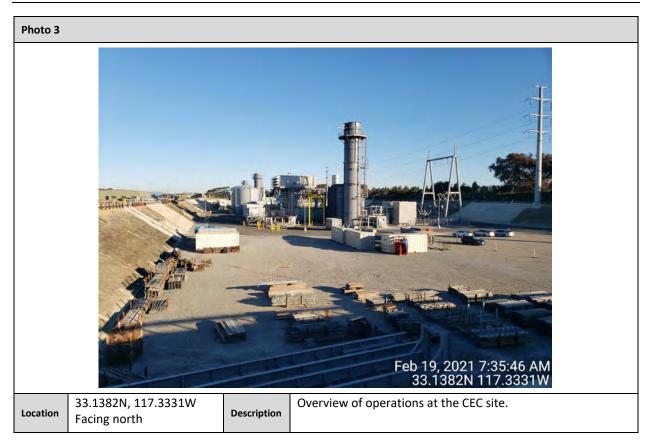
APPENDIX A BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOGS

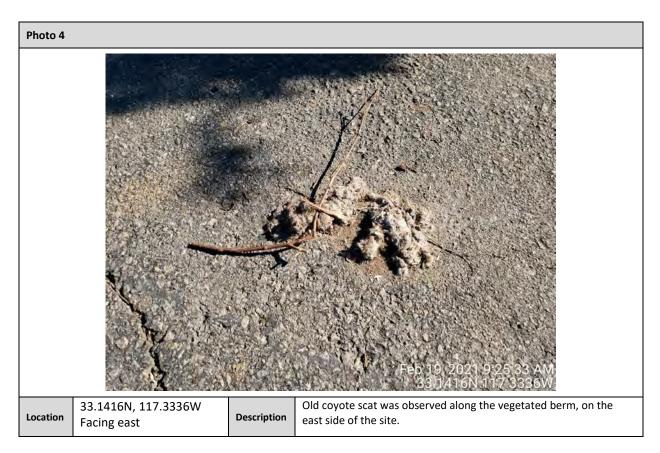
Date			Monitor			Time (Begin-End)		
February 19, 2021Leigh Ann Boswell0705-1225								
Temperature (°F)Humidity (%)Wind (mph)Precipitation (Y/N, amount)VisibilityWeather Comment								
46°F (start), 63°F (end)	36%	5mph	Ν	Clear, no issues	0% cloud cov	ver		
Site Location(s)								
CEC site								
Summary of Biolog	gical Resources	Monitoring O	bservations					
and nesting birds Bird/Nesting Bird	s on the CEC s ds Observatic ive bird nests,	ite. o ns: courtship, o	ical resources monit r nesting behaviors		-	nstraints, special-status species,		
An Am Protect An osp flying c Other Biological Coyote	erican peregr ted [FP]) was rey (<i>Pandion</i> over the site. Resources Ol	ine falcon (Fo observed pe <i>haliaetus</i> ; Ca oservations: s) scat was o	rched on the Encina lifornia Department bserved on-site.	<i>tum</i> ; California Power Station	(EPS) stack. No	f Fish and Wildlife [CDFW] Fully one were observed on-site. Watch List [WL]) was observed		
			noteu.					
• No add	litional observ		noted.					
Items Requiring A	tion/Follow-u	p						
• None.								
Wildlife Species O	bserved:							
-		minimus) A	merican crow (Core	us hrachurhun	chos) America	n kestrel (<i>Falco sparverius</i>),		
American peregr phoebe (Sayornis	ine falcon, Ar s <i>nigricans</i>), b	ina's hummii urrowing ow	ngbird (<i>Calypte anne</i> I, common yellowth	a), black-chinne hroat (<i>Geothlyp</i>	ed hummingbir pis trichas), ho	rd (<i>Archilochus alexandri</i>), black use finch (<i>Haemorhous</i> sparrow (<i>Melospiza lincolnii</i>),		

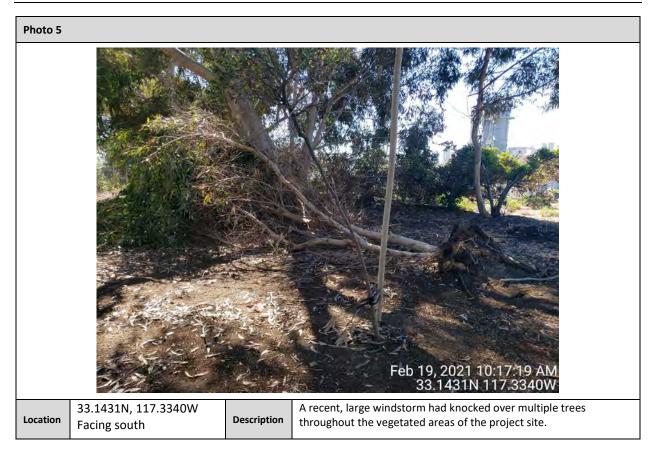
mexicanus), house sparrow (Passer domesticus), lesser goldfinch (Spinus psaltria), Lincoln's sparrow (Melospiza lincolnii), mourning dove (Zenaida macroura), osprey, red-tailed hawk (Buteo jamaicensis), song sparrow (Melospiza melodia), western fence lizard (Sceloporus occidentalis), white-crowned sparrow (Zonotrichia leucophrys), and yellow-rumped warbler (Setophaga coronata).

















Date Monitor Time (Begin-End)						
May 4, 2021	L	Leigh Ann Boswell 0656-1319			0656-1319	
Temperature (°F)	Humidit (%)	ty Wind (mph)	Precipitation (Y/N, amount)	Visibility		Weather Comment
57°F (start), 66°F (end)	84%	8mph	Ν	Clear, no issues	100% cloud c (end)	over (start), 30% cloud cover
Site Location(s)						

CEC site

Summary of Biological Resources Monitoring Observations

The Biological Monitor conducted a biological resources monitoring survey for biological constraints, special-status species, and nesting birds on the CEC site. In addition, the Biological Monitor conducted a pre-activity nesting bird survey of the dead trees along the vegetated berm of the eastern side of the site, and the dead trees in the vegetated area at the northern end of the site.

Bird/Nesting Birds Observations:

- An American bushtit (*Psaltriparus minimus*) nest was observed in the southern-most dead eucalyptus (*Eucalyptus* sp.) tree along the vegetated berm. The nest was active, with adults returning to the nest regularly with insects. NRG was informed and a 25-foot buffer was set up around the nest. The tree will not be removed during the tree removal work scheduled for May 6-10, 2021.
- One active and two inactive house finch (*Haemorhous mexicanus*) nests were observed up under the water trailers in Unit 8. The nests were identified under trailers #1, #2, and #4 (from north to south). NRG was informed and the nests were checked for eggs. Only the nest under trailer #4 had eggs. The other two inactive nests were removed, and the holes covered in duct tape. A 25-foot buffer was set up around the nest under trailer #4.

Special-Status Species Observed:

• No special-status species were observed.

Other Biological Resources Observations:

• No additional observations were noted.

Other Observations/Comments:

• A migrating hive of western honeybees (*Apis mellifera*) were observed in a bush at the northern end of the site. Photos were taken and provided to NRG for safety in case the tree crew removing dead trees needs to work near the hive.

Items Requiring Action/Follow-up

None.

Wildlife Species Observed:

American bushtit, American crow (*Corvus brachyrhynchos*), Anna's hummingbird (*Calypte anna*), black phoebe (*Sayornis nigricans*), California ground squirrel (*Spermophilus beecheyi*), cattle egret (*Bubulcus ibis*), desert cottontail (*Sylvilagus audubonii*), European starling (*Sturnus vulgaris*), hooded oriole (*Icterus cucullatus*), house finch, mourning dove (*Zenaida macroura*), song sparrow (*Melospiza melodia*), Swainson's thrush (*Catharus ustulatus*), western fence lizard (*Sceloporus occidentalis*), western gull (*Larus occidentalis*), western honey bee, Wilson's warbler (*Cardellina pusilla*), and yellow-rumped warbler (*Setophaga coronata*).

Photo 1			
			May 4, 2021 7:00:01 AM 33.1394N 117.3340W
Location	33.1394N, 117.3340W Facing southwest	Description	NRG Encina Power Station (EPS) stack demolition. A pair of American peregrine falcons are nesting near the stack, but were not observed during this monitoring period.

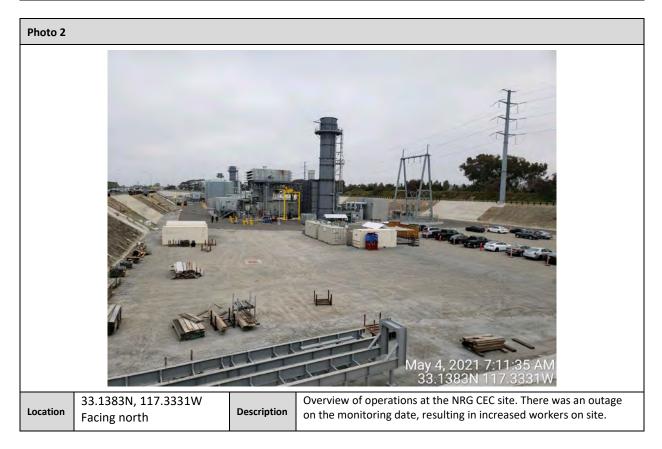


Photo 3			
	904 3322 W		
Location	33.1389N, 117.3322W Facing northwest	Description	An active American bushtit nest was observed in the southern-most dead eucalyptus tree. A 25-foot buffer was established around the nest.



Photo 5			
			May 4, 2021 11:15:06 AM 3:1422N 117:3344W
Location	33.1422N, 117.3344W Facing northwest	Description	Storm drain covers at the project site prevent debris from entering the storm drain system.



Photo 7			
	Ue		Wart 4, 2021 11:59:36 AM 31:402N 117:3332W
Location	33.1402N, 117.3332W Facing southeast	Description	One active and two inactive house finch nests were observed in holes on the undersides these trailers at Unit 8.



May 6, 2021 Emma Worthey 0700-1330 Temperature ('F) Humidity (%) Wind (mph) Precipitation (Y/N, amount) Visibility Weather Comment 61 83 3 N 9 miles 100% cloud cover Site Location(s) EEC site Site Location(s) EEC site EEC site Summary of Biological Resources Monitoring Observations The Biological Monitor conducted a biological resources monitoring survey for biological constraints, special-status species and nesting birds on the CEC site. Bird/Nesting Birds Observations: • • No active bird nests or courtship and nesting behavior was observed. Special-Status Species Observed: • • A great blue heron (Ardea alba; California Department of Forestry [CDF] Sensitive [S]) was observed. • California brown pelicans (Pelecanus accidentalis californicus; California Department of Fish and Wildlife Service [CDFW] Fully Protected [FP]) were observed within the project vicinity. • No additional special-status species were observed. Other Biological Resources Observations: • A hive of migratory bees was discovered on 05/05/2021 on the Northern end of the site. • • A hive of migratory bees was discovered on 05/05/2021 on the Northern end of the site. • An inactive bird nest	Date			Monitor			Time (Begin-End)
(%) (mph) (Y/N, amount) Visibility Weather Comment 61 83 3 N 9 miles 100% cloud cover Gite Location(s) EEC site State Location(s) State Location(s) State Location(s) EEC site Summary of Biological Resources Monitoring Observations Fine Biological Monitor conducted a biological resources monitoring survey for biological constraints, special-status species and nesting birds on the CEC site. Sird/Nesting Birds Observations: • No active bird nests or courtship and nesting behavior was observed. Special-Status Species Observed: • A great blue heron (Ardea herodias; California Department of Forestry [CDF] Sensitive [S]) was observed within the project vicinity. • A great egret (Ardea alba; California Department of Forestry [CDF] Sensitive [S]) was observed. • California brown pelicans (Pelecanus occidentalis californias california Department of Fish and Wildlife Service [CDFW] Fully Protected [FP] were observed within the project vicinity. • No additional special-status species were observed. Other Biological Resources Observations: • • A hive of migratory bees was discovered on 05/05/2021 on the Northern end of the site. • A ninactive bird nest was observed 40 feet north of the second tre	May 6, 202	1		Emma Wort	hey		0700-1330
 CEC site Summary of Biological Resources Monitoring Observations The Biological Monitor conducted a biological resources monitoring survey for biological constraints, special-status species and nesting birds on the CEC site. Sird/Nesting Birds Observations: No active bird nests or courtship and nesting behavior was observed. Special-Status Species Observed: A great blue heron (<i>Ardea herodias</i>; California Department of Forestry [CDF] Sensitive [S]) was observed within the project vicinity. A great egret (<i>Ardea alba</i>; California Department of Forestry [CDF] Sensitive [S]) was observed. California brown pelicans (<i>Pelecanus occidentalis californicus</i>; California Department of Fish and Wildlife Service [CDFW] Fully Protected [FP]) were observed within the project vicinity. No additional special-status species were observed. Other Biological Resources Observations: A hive of migratory bees was discovered on 05/05/2021 on the Northern end of the site. An inactive bird nest was observed 40 feet north of the second tree from the northern-most planned tree remov 	-	-		-	Visibility		Weather Comment
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	 and nesting birds Bird/Nesting Bird No acting A great A great Californ (CDFW) No add Other Biological A hive An inaction 	s on the CEC ds Observat ve bird nest blue heron vicinity. egret (Arda nia brown p] Fully Prote itional spec Resources (of migrator tive bird ne	C site. tions: ts or courtship arved: (Ardea herodi ea alba; Califor belicans (Peleca ected [FP]) wer cial-status spec Observations: y bees was disc est was observe ents:	and nesting behavio as; California Depar mia Department of I nus occidentalis cal e observed within t ies were observed. covered on 05/05/2 ed 40 feet north of t	or was observe tment of Fores Forestry [CDF] <i>ifornicus;</i> Califi he project vicin	d. stry [CDF] Sensi Sensitive [S]) w ornia Departme nity. rthern end of th	tive [S]) was observed within th vas observed. ent of Fish and Wildlife Service ne site.

warbler (*Setophaga coronata*).







Photo 4			
Location	(33.1429391, -117.3340729)	Description	Second tree from the northern-most tree after removal. Photo taken at 9:55 am.

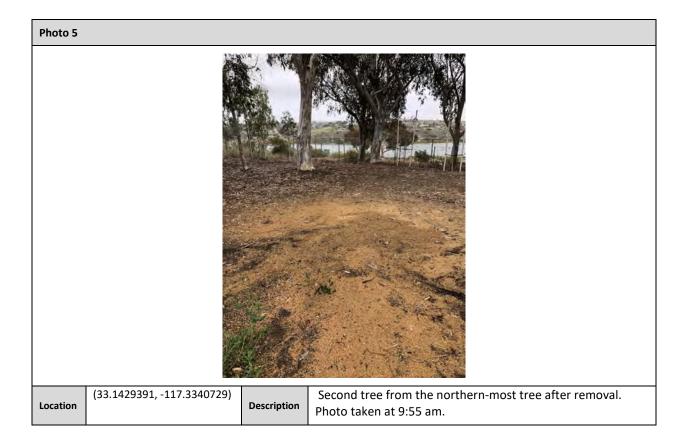






Photo 8			
Location	(33.1408491, -117.3331710)	Description	Third tree from the northern-most tree after removal. Photo taken at 1:20 pm

COMPLIANCE MONITORING LOG - OPERATIONS								
Date		Monitor					Time (Begin-End)	
May 7, 2021				Emma Wort	they		0700-1350	
Temperature (°F)			Wind (mph)	Precipitation (Y/N, amount)	Visibility		Weather Comment	
59 7			3	Ν	10 miles	100% cloud cover		
Site Location(s)								
CEC site								
Summary of Biolog	ical Reso	ources	Monitoring O	bservations				
The Biological Monitor conducted a biological resources monitoring survey for biological constraints, special-status species, and nesting birds on the CEC site.								
 Bird/Nesting Birds Observations: No active bird nests or courtship and nesting behavior was observed. 								
 Special-Status Species Observed: A great egret (<i>Ardea alba</i>; California Department of Forestry [CDF] Sensitive [S]) was observed. An American peregrine falcon (<i>Falco peregrinus anatum</i>; California Department of Fish and Wildlife [CDFW] Fully Protected [FP]) were observed within the project vicinity. No additional special-status species were observed. 								
Other Biological Resources Observations: No additional observations were noted. 								
Other Observations/Comments: No additional observations were noted. 								
Items Requiring Action/Follow-up								
• None.								

Wildlife Species Observed:

Allen's hummingbird (*Selasphorus sasin*), American crow (*Corvus brachyrhynchos*), American peregrine falcon, European starling (*Sturnus vulgaris*), great egret, house finch (*Haemorhous mexicanus*), mourning dove (*Zenaida macroura*), song sparrow (*Melospiza melodia*), western gull (*Larus occidentalis*), white-crowned sparrow (*Zonotrichia leucophrys*), and yellow-rumped warbler (*Setophaga coronata*).







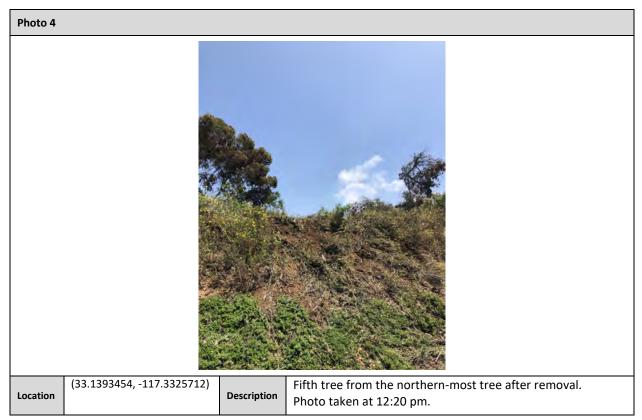


Photo 5					
Location	(33.1391846, -117.3324548)	Description	Sixth tree from the northern-most tree before removal. Photo taken at 12:35 pm.		

Photo 6			
Location	(33.1391846, -117.3324548)	Description	Sixth tree from the northern-most tree after removal. Photo taken at 11:50 pm.

Date		Monitor					Time (Begin-End)		
May 10, 2021		Emma Worthey					0700-1330		
Temperature Humidity (°F) (%)		•	Wind (mph)	Precipitation (Y/N, amount)	Visibility		Weather Comment		
61	73		6	N	10 miles	100% cloud c	over		
Site Location(s)									
CEC site									
Summary of Biolog	ical Reso	urces	Monitoring O	bservations					
The Biological Monitor conducted a biological resources monitoring survey for biological constraints, special-status species, and nesting birds on the CEC site.									
 Bird/Nesting Birds Observations: No active bird nests or courtship and nesting behavior was observed. 									
 Special-Status Species Observed: No special-status species were observed. 									
Other Biological Resources Observations: No additional observations were noted. 									
Other Observations/Comments: No additional observations were noted. 									
Items Requiring Action/Follow-up									
None.									
Wildlife Species Observed:									

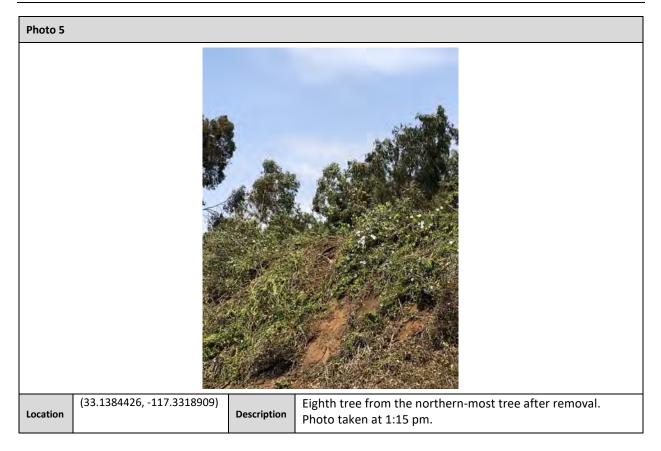
Allen's hummingbird (Selasphorus sasin), American crow (Corvus brachyrhynchos), house finch (Haemorhous mexicanus), mourning dove (Zenaida macroura), song sparrow (Melospiza melodia), western gull (Larus occidentalis), and yellow-rumped warbler (Setophaga coronata).

Photo 1			
Location	(33.1384426, -117.3318909)	Description	Buffer installed around the southernmost tree (ninth tree from the northern most tree) for the bushtit nest. Photo taken at 7:00 am.



Photo 3			
Location	(33.1392952, -117.3324217)	Description	Seventh tree from the northern-most tree after removal. Photo taken at 9:57 am.

Photo 4			
Location	(33.1384426, -117.3318909)	Description	Eighth tree from the northern-most tree before removal. Photo taken at 10 am.



Carlsbad Energy Center (CEC) BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG - OPERATIONS

Date				Monitor			Time (Begin-End)	
May 11 202	1	Emma Worthey 0700-1030					0700-1030	
Temperature (°F)	Humid (%)		Wind (mph)	Precipitation (Y/N, amount)	Visibility	Weather Comment		
59	76		2	Ν	10 miles	100% cloud c	over	
Site Location(s)								
CEC site								
Summary of Biolog	gical Resou	urces l	Monitoring O	bservations				
and nesting birds Bird/Nesting Bird No acti Special-Status Sp	The Biological Monitor conducted a biological resources monitoring survey for biological constraints, special-status species, and nesting birds on the CEC site. Bird/Nesting Birds Observations: • No active bird nests or courtship and nesting behavior was observed. Special-Status Species Observed:							
 No add 	itional sp	pecial	-status spec	ies were observed.				
 No add Other Observation Tree cr 	itional ob ons/Com ews remo	special-status species were observed. ces Observations: observations were noted.						
Items Requiring Ac	tion/Follo	ow-up						
• None.								
Wildlife Species Of	oserved:							

American crow (Corvus brachyrhynchos), Allen's hummingbird (Selasphorus sasin), house finch (Haemorhous mexicanus), song sparrow (Melospiza melodia), western gull (Larus occidentalis), and yellow-rumped warbler (Setophaga coronata).

Photo 1			
Location	(33.1420467, -117.3337379)	Description	The ninth tree before removal. Located between the second and third tree from the northern most tree removed. Photo taken at 7:10 am.

Photo 2			
Location	(33.1420467, -117.3337379)	Description	The ninth tree after removal. Located between the second and third tree from the northern most tree removed. Photo taken at 10:30 am.

Carlsbad Energy Center (CEC) BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG - OPERATIONS

Date				Monitor	Time (Begin-End)			
July 29, 202	1		Leigh Ann Boswell 065		0658-1255			
Temperature (°F)	Humi (%		Wind (mph)	Precipitation (Y/N, amount)	Visibility		Weather Comment	
64°F (start), 72°F (end)	95	%	11mph	Ν	Foggy)% cloud and fog cover (start and end), 6 cloud cover (middle)	
Site Location(s)								
07.0.1								

CEC site

Summary of Biological Resources Monitoring Observations

The Biological Monitor conducted a biological resources monitoring survey for biological constraints, special-status species, and nesting birds on the CEC site.

Bird/Nesting Birds Observations:

- A mourning dove (*Zenaida macroura*) nest was observed in a pile of pallets at the northern end of the site, behind the warehouse. The nest was active. One adult flushed while incubating two eggs when the nest was found, and one adult was perched holding a stick nearby. NRG was informed and a 25-foot buffer was set up around the nest. The pallets will not be removed or disturbed while the buffer is in place.
- One inactive nest of an unknown species was observed in a eucalyptus (*Eucalyptus* sp.) tree at the northern end of the site in the vegetated area behind the last retention pond. No birds were observed entering or leaving the nest.
- One inactive nest of an unknown species was observed in a eucalyptus tree at the north-eastern end of the site in the vegetated area behind the first retention pond. No birds were observed entering or leaving the nest.
- The previously observed American bushtit (*Psaltriparus minimus*) nest in the dead tree along the vegetated berm was observed. The nest is inactive, and no birds were observed entering or leaving the nest.
- Two piles of sticks, likely nesting attempts by American crows (*Corvus brachyrhynchos*), were observed inside the upper portions of the Units #2 and #4 buildings. No birds were observed entering or leaving the nests. NRG was informed and it was recommended that NRG remove the sticks if they can be reached.

Special-Status Species Observed:

• A California brown pelican (*Pelecanus occidentalis californicus*) was observed flying over the site. This species is Federal Endangered Species Act (ESA) Delisted, Bureau of Land Management (BLM) listed as Sensitive, California Department of Fish and Wildlife (CDFW) Fully Protected, and United States Forest Service (USFS) Sensitive.

Other Biological Resources Observations:

• No additional observations were noted.

Other Observations/Comments:

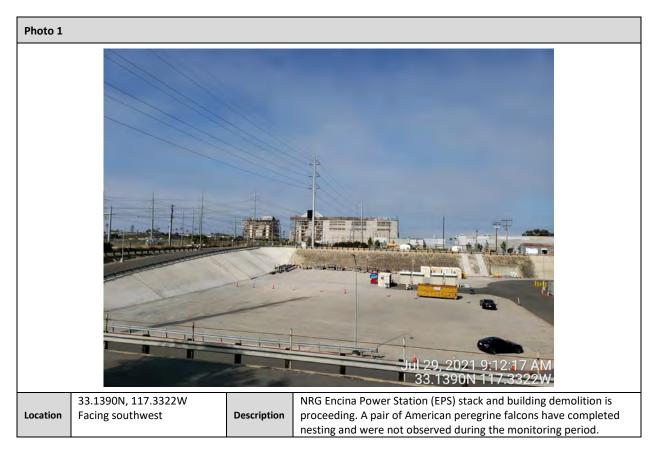
 The northern-most water trailer on site was observed to be leaking. NRG was informed and let the Biological Monitor know they were aware of the leak and working on repairing it.

Items Requiring Action/Follow-up

None.

Wildlife Species Observed:

American crow, Anna's hummingbird (*Calypte anna*), black phoebe (*Sayornis nigricans*), California brown pelican, house finch (*Haemorhous mexicanus*), mourning dove, red-tailed hawk (*Buteo jamaicensis*) - juvenile, gull (*Larus* spp.), song sparrow (*Melospiza melodia*), spinybacked orbweaver spider (*Gasteracantha cancriformis*), and western fence lizard (*Sceloporus occidentalis*),.





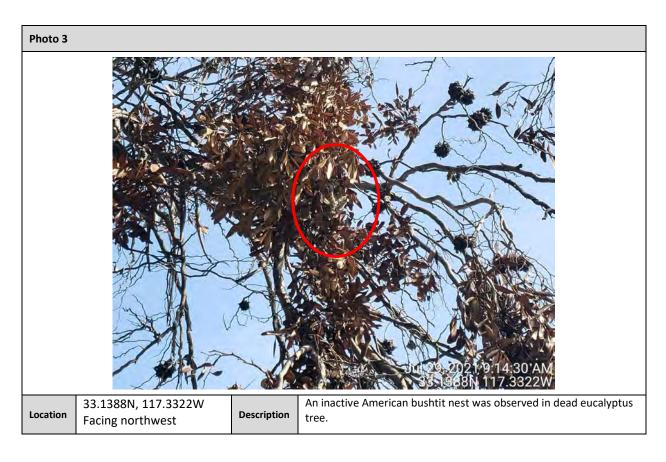






Photo 6			
			Тиг 29, 2021 10:39:40 АМ 23.1431N 117.3349W
Location	33.1431N, 117.3349W Facing west	Description	An active mourning dove nest with two eggs was observed.

















Carlsbad Energy Center (CEC) BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG - OPERATIONS

	Monitor					Time (Begin-End)		
November 19, 2	2021	Leigh Ann Boswell				0654-1205		
Temperature (°F)	Humidity (%)	Wind (mph)	Precipitation (Y/N, amount)	Visibility		Weather Comment		
57°F (start), 61°F (end)	93%	3mph	N	Clear	100% cloud o (end)	cover (start), 10% cloud cover		
Site Location(s)		•						
CEC site								
Summary of Biolog	gical Resources	Monitoring O	bservations					
and nesting birds Bird/Nesting Bir No acti all wer No add Special-Status Sp A moni and Un	s on the CEC s ds Observatic ive nests were e inactive. ditional observ pecies Observ arch butterfly nited States Fc	ite. ons: e observed. A vations were red: (<i>Danaus ple.</i> prest Service	Il active and inactiv noted.	e nests previo ed flying aroun	usly observed in	nstraints, special-status species n Q3 report were examined and species is Federal Candidate (F0		
Depart Watch Other Biological	ment of Fores List.	stry and Fire	Protection (CDF) Se	ver the northe				
Depart Watch Other Biological • No adc Other Observati • No adc	ment of Fores List. Resources Of ditional observ ons/Commen ditional observ	stry and Fire oservations: vations were ots: vations were	Protection (CDF) Se noted.	ver the northe		e site. This species is California nent of Fish and Wildlife (CDFW		
Depart Watch Other Biological • No add Other Observati • No add	ment of Fores List. Resources Of ditional observ ons/Commen ditional observ	stry and Fire oservations: vations were ots: vations were	Protection (CDF) Se noted.	ver the northe				
Depart Watch Other Biological • No add Other Observati • No add	ment of Fores List. Resources Of ditional observ ons/Commen ditional observ	stry and Fire oservations: vations were ots: vations were	Protection (CDF) Se noted.	ver the northe				

(Sturnus vulgaris), house finch (Haemorhous mexicanus), Lincoln's sparrow (Melospiza lincolnii), monarch butterfly, mourning dove (Zenaida macroura), osprey, red-tailed hawk (Buteo jamaicensis), Say's phoebe (Sayornis saya), western fence lizard (Sceloporus occidentalis), white-crowned sparrow (Zonotrichia leucophrys), and yellow-rumped warbler (Setophaga coronata).











APPENDIX B OBSERVED WILDLIFE SPECIES LIST

Common Name	Scientific Name	Status Federal/State/Other*
Birds		
American bushtit	Psaltriparus minimus	//
American kestrel	Falco sparverius	//
American peregrine falcon	Falco peregrinus anatum	BCC/FP/CDF: S
American crow	Corvus brachyrhynchos	//
Allen's hummingbird	Selasphorus sasin	//
Anna's hummingbird	Calypte anna	//
Black-chinned hummingbird	Archilochus alexandri	//
Black phoebe	Sayornis nigricans	//
Burrowing owl	Athene cunicularia	/SSC/
California brown pelican	Pelecanus occidentalis californicus	/FP/USFS: S
Canada goose	Branta canadensis	//
Cattle egret	Bubulcus ibis	//
Common yellowthroat	Geothlypis trichas	//
Cormorant	Phalacrocorax sp.	//
Desert cottontail	Sylvilagus audubonii	//
European starling	Sturnus vulgaris	//
Great blue heron	Ardea herodias	//CDF: S
Great egret	Ardea alba	//CDF: S
Gull	Larus spp.	//
Hooded oriole	Icterus cucullatus	//
House finch	Haemorhous mexicanus	//
House sparrow	Passer domesticus	//
Killdeer	Charadrius vociferous	//
Lincoln's sparrow	Melospiza lincolnii	//
Mourning dove	Zenaida macroura	//
Osprey	Pandion haliaetus	/WL/CDF: S
Red-tailed hawk	Buteo jamaicensis	//
Say's phoebe	Sayornis saya	//
Song sparrow	Melospiza melodia	//
Swainson's thrush	Catharus ustulatus	//
Western gull	Larus occidentalis	//
White-crowned sparrow	Zonotrichia leucophrys	//
Wilson's warbler	Cardellina pusilla	//
Yellow-rumped warbler	Setophaga coronata	//
Invertebrates		
Monarch butterfly	Danaus plexippus	FC//USFS: S
Spinybacked orbweaver spider	Gasteracantha cancriformis	//
Western honeybee	Apis mellifera	//
Mammals		
California ground squirrel	Spermophilus beecheyi	//

Observed Wildlife Species List 2021 Carlsbad Energy Center

Cottontail rabbit	Sylvilagus floridanus	//
Coyote	Canis latrans	//
Desert cottontail	Sylvilagus audubonii	//
Reptiles		
Western fence lizard	Sceloporus occidentalis	//

Source:

California Department of Fish and Wildlife (CDFW). 2022. California Natural Diversity Database. January. Special Animals List. Periodic publication.

Status Codes:

If status codes are not provided, it indicates that the observed species is not a special-status species. **Federal:**

FE = Federally listed Endangered: species in danger of extinction throughout a significant portion of its range FT = Federally listed Threatened: species likely to become endangered within the foreseeable future

FC = Federal Candidate

BCC = Birds of Conservation Concern

State:

SE = State listed as Endangered

ST = State listed as Threatened

FP = Fully Protected

CSC = California Species of Special Concern Species of concern to California Department of Fish and Wildlife (CDFW) because of declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction.

S = Sensitive

WL = Watch List

*Other:

Bureau of Land Management (BLM): Sensitive (S)

California Department of Forestry and Fire Protection (CDF) classifies "sensitive species" as those species that warrant special protection during timber operations.

U.S. Forest Service (USFS): Sensitive (S)

APPENDIX C WILDLIFE OBSERVATION FORMS

Carlsbad Energy Center (CEC)
Wildlife Observation Form (WOF)

	to document predation	events. If nesting bird	ad and/or injured wildlife, or other biological resources during daily ds, dead and/or injured wildlife have been identified, please contact n.fowler@gmail.com.
Date	Obser	ver	Observer's Employer
February 2. 2021	Ryan G	oerl	NRG
Location of Observation			
CEC entrance			
Wildlife Species		Condition of Wildli	fe (alive/dead)
Unknown		Dead	
Cause of Injury or Mortal	ity (Don't speculate, If un	known, enter "unkno	own")
Predation – only a wing re	emained.		
Current Location of Anim	al		
The remains were dispose	ed of per site guidelines.		
Is the Biological Resou		Impacted by Proj	ect or Other Site Activities?
Yes No	X N/A		
If Yes, Explain			
Additional Comments			

WILDLIFE OBSERVATION FORM
To Record Animals Found In Amended Carlsbad Energy Center Project
(Amended CECP) Work Areas
To be filled out by personnel who find active nest sites, dens, and dead or injured wildlife, or other biological resources during daily construction activities.
Name of employee: Leigh Ann Boswell
Date: 02/19/2021
Location of observation:
Burrowing owl was observed under and near a storage container at the south
side of the Carlsbad Energy Center Bowl.
Wildlife Species:
Condition of wildlife:
alive X dead
Possible cause of injury or death:
Burrowing owl is not thought to be injured. Instead, it is believed the individual is
overwintering at the site.
Where is the animal currently?
Burrowing owl is located under the storage container at the south end of the Energy Center Bowl.
Is the resource in danger of project (or other) impacts?
No.
Comments:
Comments.
Please contact the Designated Biologist for questions and to report any wildlife, nest, or den in the project
area that could be disturbed. The Designated Biologist will advise personnel on measures required by California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) to
protect fish, wildlife and vegetation from construction impacts.
DESIGNATED BIOLOGIST:
Melissa Fowler; Melissa.Fowler@erm.com; Cell: (714) 768-1173; Office (949) 623-4700
COMPANY: ERM-West, Inc.
ADDRESS: 1920 Main Street, Suite 300, Irvine, CA 92614

APPENDIX D CNDDB FIELD SURVEY FORM REPORT

CNDDB Online Field Survey Form Report



California Natural Diversity Database Department of Fish and Wildlife 1416 9th Street, Suite 1266 Sacramento, CA 95814 Fax: 916.324.0475 <u>cnddb@wildlife.ca.gov</u>



Source code_	BOS21F0001
Quad code	3311723
Occ. no	
EO index no	
Map index no.	

This data has been reported to the CNDDB, but may not have been evaluated by the CNDDB staff

www.dfg.ca.gov/biogeodata/cnddb/

Scientific name: Athene cunicularia

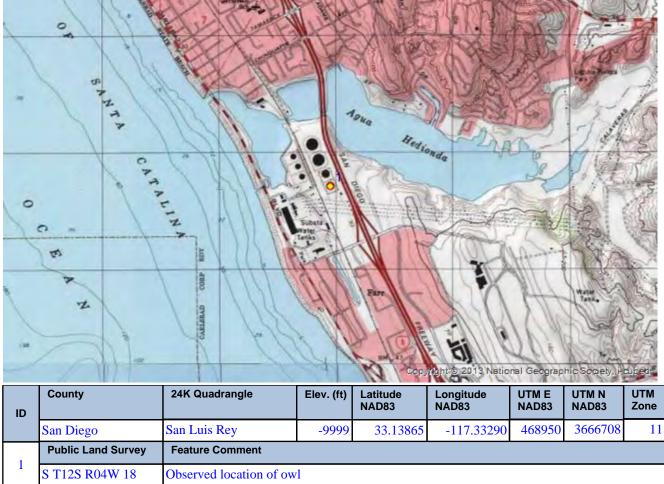
Common name: burrowing owl

Date of field work (mm-dd-yyyy): 02-19-2021

Comment about field work date(s): Was performing quarterly wildlife observations at Carlsbad Energy Center for client (NRG).

Observer: Leigh A. Bos Affiliation: ERM	swell			
Addrosov 1122 Woda St				
Audress: 4125 wade S	treet Apt 3, Los Angel	les, CA 90066		
Email: leighann.boswell	l@erm.com			
Phone: (530) 613-2707				
Other observers:				
DETERMINATION				
Keyed in: National Aud	lubon Society. 1994. H	Field Guide to Birds - Wes	stern Region; Dunn and Ald	lerfer. 2017
Compared w/ specimer	n at:			
Compared w/ image in:	:			
By another person:				
Other:				
Identification explanat	ion:			
Identification confiden	ce: Very confident			
Species found: Yes If	not found, why not?			
Level of survey effort:	Observation was incid	dental during site survey.		
Total number of individ	duals: 1			
Collection? No	Collection number	er:		
	Museum/Herbari	um:		
ANIMAL INFORMATIO	N			
How was the detection	n made? Seen			
Number detected in ea	ich age class:			
1				
adults	juveniles	larvae	egg mass	unknown

Bird site use:
Nesting Rookery Nesting colony Burrow site Lek Non-breeding (over-wintering) Communal roost Other
Site use description: Owl was detected under a storage container during quarterly site visit. Site employees indicated owl had been present on-site for at least a week. Individual left the site prior to 2nd quarter biological site survey.
What was the observed behavior? Individual was crouched in shallow depression under storage container when observed.
Describe any evidence of reproduction: None observed.
SITE INFORMATION
Habitat description: Site is an industrial energy center. Observed location was under a series of storage containers, placed in the middle of a gravel parking area. No vegetation was present.
Slope: 0 degrees Land owner/manager: Private - NRG Carlsbad Energy Center
Aspect: NA
Site condition + population viability:
Immediate & surrounding land use: Site is an active energy facility.
Visible disturbances: Area is active industrial.
Threats:
General comments:
MAP INFORMATION
A Company of the



The mapped feature is accurate within: 5 m

Source of mapped feature: Google Maps internet application

Mapping notes: Owl was observed under storage container located at these coordinates.

Location/directions comments: Located on the Carlsbad Energy Center site at 4950 Avenida Encinas, Carlsbad, CA 92008.

Attachment(s): TimePhoto_20210219_072703.jpg, Owl observed from a distance, slightly under storage container. ; 20210219_115341.jpg, Owl observed through binoculars, under storage container.

Attachment B HAZ-1: Hazardous Materials Business Plan

Carlsbad Energy Center Project (CERSID: 10765651)

Facility Information Submitted Mar 2, 2022

Submitted on 3/2/2022 7:50:44 AM by Timothy Sisk of Carlsbad Energy Center Project (Carlsbad, CA)

Business Activities

Business Owner/Operator Identification

Hazardous Materials Inventory Submitted Mar 2, 2022

Submitted on 3/2/2022 7:50:44 AM by Timothy Sisk of Carlsbad Energy Center Project (Carlsbad, CA)

- Hazardous Material Inventory (35)
- Site Map (Official Use Only)
 - Annotated Site Map (Official Use Only) (Adobe PDF, 619KB)

Emergency Response and Training Plans Submitted Mar 2, 2022

Submitted on 3/2/2022 7:50:44 AM by Timothy Sisk of Carlsbad Energy Center Project (Carlsbad, CA)

- Emergency Response/Contingency Plan

 Emergency Response/Contingency Plan (Adobe PDF, 12102KB)
- Employee Training Plan
 - Employee Training Plan (Adobe PDF, 125KB)

California Environmental Reporting System (CERS)

Site Identification

Carlsbad Energy Center Proj	ect
-----------------------------	-----

Underground Storage Tank(s) (UST)

4950 Avenida Encinas Carlsbad, CA 92008 County San Diego

Submittal Status

Submitted on 3/2/2022 by *Timothy Sisk* of Carlsbad Energy Center Project (Carlsbad, 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
Yes
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?

Does your facility own or operate underground storage tanks?	No
Hazardous Waste	
Is your facility a Hazardous Waste Generator?	Yes
Does your facility treat hazardous waste on-site?	No
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	No
Does your facility consolidate hazardous waste generated at a remote site?	No
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-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 cleanup materials contaminated with RCRA acute hazardous waste.	No
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)?	No
Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in	Yes

aboveground tanks or containers.

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

Additional Information

No additional comments provided.

Business Activities

CERS ID 10765651

EPA ID Number CAR000256545

Facility/Site				
Carlsbad Energy Ce 4950 Avenida Encinas Carlsbad, CA 92008	enter Project			
Submittal Status				
	by Timothy Sisk of Carlsbad	I Energy Center Project (Carls)	oad, CA)	
Identification				
NRG Energy Services			Beginning Date	Ending Date
Operator Phone (760) 710-3950	Business Phone (760) 710-3950	Business Fax	Dun & Bradstreet	SIC Code
Facility/Site Mailing	Address		Primary Emerge	ncy Contact
4950 Avenida Encinas CARLSBAD, CA 92008-43			Control Room Title Control Room Business Phone (760) 710-3950	24-Hour Phone (760) 710-3950
Owner			Secondary Emer	gency Contact
Carlsbad Energy Center (760) 710-3945 4950 Avenida Encinas Carlsbad, CA 92008			Paul Mattesich Title Plant Manager Business Phone (760) 710-3945	24-Hour Phone (805) 616-5836
Billing Contact			Environmental C	Contact
David Brown (760) 710-3952 4950 Avenida Encinas CARLSBAD, CA 92008	david.brown1@nrg.co	m	Paul Mattesich (760) 710-3945 4950 Avenida Enci CARLSBAD, CA 920	
Name of Signer Paul Mattesich Additional Information Ludated to remove Bya	n Goerl and add Paul Matte	Signer Title Plant Manag sich on an interim basis for si		Document Preparer Paul Mattesich
Locally-collected Fiel Some or all of the follov	ds ving fields may be required	by your local regulator(s).		
	5 <i>7</i> 1	,, C (,	_ 1	
Property Owner Carlsbad Energy Cente Phone (760) 710-3950 Mailing Address 4950 Avenida Encinas			Assessor Parcel Nu 210-010-47-00 Number of Employ 18 Facility ID 37-000-004698	

California Environmental Reporting System (CERS)

Business Owner Operator

Primary NAICS

Pager Number

Pager Number

CERS ID 10765651

Printed on 3/2/2022 8:19 AM

4950 Avenida Encinas Carlsbad, CA 92008

		Hazardo	us Materials A	And Waste	s Inventory	y Matrix	Report				
acility Name Carlsbad	Energy Center Project Energy Center Project da Encinas, Carlsbad 92008		Chemical Location						CERS ID 10765651 Facility ID 37-000-004698 Status Submitted on 3/2/2022 7:50 AM		
				Quantities		Annual Waste	Federal Hazard	-	Hazardous Components (For mixture only)	5	
OT Code/Fire Haz. Class OT: 3 - Flammable and ombustible Liquids ombustible Liquid, Class II	Common Name Diesel Fuel, #2 CAS No 68334-30-5	Liquid Type	Max. Daily 600 Storage Container Steel Drum, Can Days on Site: 365	Largest Cont. 500	Avg. Daily 500 Pressue Ambient Temperature Ambient	Amount Waste Code	Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye	Component Name	<u>% Wt</u>	EHS CAS No.	
OT: 3 - Flammable and ombustible Liquids lammable Liquid, Class I-B	Gasoline <u>CAS No</u> 86290-81-5	Liquid Type	200 Storage Container Can Days on Site: 365	5	100 Pressue Ambient Temperature Ambient	" Waste Code	Irritation - Physical Flammable - Health Carcinogenicity - Health Acute Toxicity - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				
OT: 8 - Corrosives (Liquids and olids) corrosive	Lead Acid Batteries	Liquid Type	195 Storage Container Other Days on Site: 365	13	195 Pressue Ambient Temperature Ambient		 Physical Physical Flammable Physical Explosive Health Carcinogenicity Health Acute Toxicity Health Reproducvea Toxicity Health Skin Corrosion Irritation Health Serious Eye Damage Eye Irritation Health Specific Target Organ Toxicity 	Sulfuric Acid Lead	30 %	✓ 7664-93-9 7439-92-1	

CERS Business/Org. Carlsbad Energy Center Project Facility Name Carlsbad Energy Center Project 4950 Avenida Encinas, Carlsbad 92008		Hazardous Materials And Wastes Inventory Matrix Report Chemical Location						CERS ID 10765651 Facility ID 37-000-004698 Status Submitted on 3/2/2022 7:50 AM		
				Quantities		Annual Waste	Federal Hazard		zardous Components (For mixture only)	
OT Code/Fire Haz. Class OT: 2.2 - Nonflammable Gases	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories - Physical Gas	Component Name	% Wt	EHS CAS No.
	Nitrogen	Cu. Feet	18000	304	3600	Wasto Codo	Under Pressure			
	CAS No		orage Container ylinder		Pressue > Ambient	waste Code				
	7727-37-9		yinidei		Temperature					
		Type Pure D	ays on Site: 365		Ambient					
OT: 2.1 - Flammable Gases	Liquefied Petroleum Gas (lpg)	Gallons	30	5	25		- Physical			
			orage Container	5	Pressue	Waste Code	Flammable			
ammable Gas	CAS No 74-98-6		ylinder		> Ambient		- Physical Gas			
	/4-30-0	Туре	-		Temperature		Under Pressure			
			ays on Site: 365		Ambient					
OT: 8 - Corrosives (Liquids and	Corrshield MD4100	Gallons	75	5	55		- Physical	Sodium Nitrite	20 %	7632-00-0
Solids)	CAS No	State St	orage Container		Pressue		Corrosive To			
		Liquid Pl	astic/Non-metali	c Drum	Ambient	Waste Code				
		Туре			Temperature		 Health Carcinogenicity 			
		Mixture D	ays on Site: 365		Ambient		- Health Acute			
							Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health Serious			
							Eye Damage Eye			
							Irritation - Health Specific			
							Target Organ			
							Toxicity			
OT: 9 - Misc. Hazardous	Natural Gas Knockout Tank Oil	Gallons	300	55	200	800	- Health	Benzene	0 %	🖌 71-43-2
laterials	Waste		orage Container	-	Pressue		Carcinogenicity			
			boveground Tank	, Steel Drum,	Ambient	Waste Code				
	CAS No	туре Та	ank Wagon		Temperature					
		Waste			Ambient					
	Simple Green	Gallons	330	330	220			C9-11 Alcohols Ethoxyla	ated 5 %	68439-46-3
	-		orage Container	550	Pressue	Waste Code		Sodium Citrate	5 %	68-04-2
	CAS No		ote Bin		Ambient			Sodium Carbonate	1%	497-19-8
		Туре			Temperature			Citric Acid	1%	77-92-9
			ays on Site: 365		Ambient			Tetrasodium Glutamate	Diacetate 1%	51981-21-

	I	Hazardo	us Materials A	And Waste	s Inventory	y Matrix	Report				
acility Name Carlsb	oad Energy Center Project oad Energy Center Project venida Encinas, Carlsbad 92008	Chemical Location						CERS ID 10765651 Facility ID 37-000-004698 Status Submitted on 3/2/2022 7:50 AM			
OT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Aug Doilu	Annual Waste	Federal Hazard	Hazardous Co (For mixtur Component Name	•	s EHS CAS No.	
DOT: 2.2 - Nonflammable Gases		Cu. Fee State Gas Type	,	143	nt. Avg. Daily 400 Pressue > Ambient Temperature Ambient	Waste Code	Categories - Physical Gas e. Under Pressure	Component Name 76			
	Nytro 11 GBXUS Transformer Oil	State Liquid Type	49000 Storage Container Aboveground Tank Days on Site: 365	9062	49000 Pressue Ambient Temperature Ambient	" Waste Code	- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Hydrotreated Light Naphthenic Disllatea Hydrotreated Middle Naphthenic Disllatea Solvent-dewaxed light paraffinic 2,6-diterary butyl-4-methyſ phenol	60 % 40 % 40 % 0 %	64742-53-6 64742-46-7 64742-56-9 128-37-0	

		Hazardous	Materials	And Waste	s Inventory	y Matrix	Report			
Facility Name Carlsb	ad Energy Center Project ad Energy Center Project enida Encinas, Carlsbad 92008	Chemical Location (8) Electrical Breakers through			nout Facility	CERS ID 10765651 Facility Facility ID 37-000-004698 Status Submitted on 3/2/				
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.
DOT: 2.2 - Nonflammable Ga	Sulfur Hexafluoride <u>CAS No</u> 2551-62-4	Gas Ot Type	2951 prage Container ther ays on Site: 365	575	2951 Pressue > Ambient Temperature > Ambient		- Physical Gas le Under Pressure - Health Simple Asphyxiant			

Hazardous Materials And Wastes Inventory Matrix Report											
Facility Name Carlsbad					Chemical Location Ammonia Tank				CERS ID 10765651 Facility ID 37-000-004698 Status Submitted on 3/2/2022 7:50 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	s EHS CAS No.	
DOT: 2.2 - Nonflammable Gases		Gallons State St Liquid A Type	15000 torage Container boveground Tank	16067	15000 Pressue Ambient Temperature Ambient	Waste Code	- Health Skin	Ammonia	<u>19 %</u>	✓ 7664-41-7	

			Hazardou	us Materials	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org. Facility Name	Carlsbad I	Energy Center Project Energy Center Project a Encinas, Carlsbad 92008			Chemical Loca Fuel Gas (ation Compressor	ſS		CERS ID Facility ID Status	10765651 37-000-004698 Submitted on 3/2/	
DOT Code/Fire Haz. C	Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	lazardous Components (For mixture only) % Wt	EHS CAS No.
		SAE 40 wt Engine Oil - Compressors CAS No	Liquid C Type	275 Storage Container Other Days on Site: 365	55	220 Pressue Ambient Temperature Ambient		 Health Skin Corrosion Irritation Health Respiratory Skin Sensitization Health Serious Eye Damage Eye Irritation 	1-DECENE, HOMOPOLY HYDROGENATED TRIPHENYL PHOSPHAT		68037-01-4 115-86-6

		nazaruu	us Materials			VIVIALITA	кероп			
	Carlsbad Energy Center Project			Chemical Loca		_			10765651	
	Carlsbad Energy Center Project 1950 Avenida Encinas, Carlsbad 92008			Hazardou	s Waste Sto	rage Area	а		37-000-0046	
				Quantities		Annual Waste	Federal Hazard		azardous Compone (For mixture only	
OT Code/Fire Haz. Cla	ss Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% W	t EHS CAS No.
DOT: 9 - Misc. Hazaro Materials	dous USED OIL CAS No	Gallons State Liquid Type Waste	165 Storage Container Steel Drum Days on Site: 365	55	110 Pressue Ambient Temperature Ambient	165 Waste Code 221	- Health Hazard Not Otherwise Classified	Waste Petroleum Hydro	ocarbons	Mixture
OT: 9 - Misc. Hazaro Aaterials	dous WASTE OILY DEBRIS	Solid Type	800 Storage Container Steel Drum Days on Site: 365	150	300 Pressue Ambient Temperature Ambient	252	- Health Hazard Not Otherwise e_Classified			
OOT: 9 - Misc. Hazaro Naterials	dous Used Oil With Benzene	Gallons State Liquid Type Waste	165 Storage Container Steel Drum Days on Site: 365	55	55 Pressue Ambient Temperature Ambient	221	- Health Carcinogenicity - Health Hazard Not Otherwise Classified	Waste Petroleum Hydro Benzene	ocarbons 98 % 2 %	
OOT: 9 - Misc. Hazaro Aaterials	dous Waste Oily Debris with Benzene	Pounds State Solid Type Waste	450 Storage Container Steel Drum Days on Site: 365	150	150 Pressue Ambient Temperature Ambient	1000 Waste Code 181	- Health Carcinogenicity - Health Hazard Not Otherwise Classified	Oil with Benzene	10 %	%
DOT: 3 - Flammable a Combustible Liquids Flammable Liquid, Cl	CAS No	Туре	100 Storage Container Steel Drum Days on Site: 365	100	20 Pressue Ambient Temperature Ambient	253	- Physical Flammable e - Physical Gas Under Pressure - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Aspiration Hazarr	1		
DOT: 9 - Misc. Hazaro Naterials	dous Waste Oil Filters	Pounds State Solid Type Mixture	800 Storage Container Box Days on Site: 90	800	500 Pressue Ambient Temperature Ambient	1500 Waste Code 352	Aspiration Hazard - Health Hazard Not Otherwise Classified			

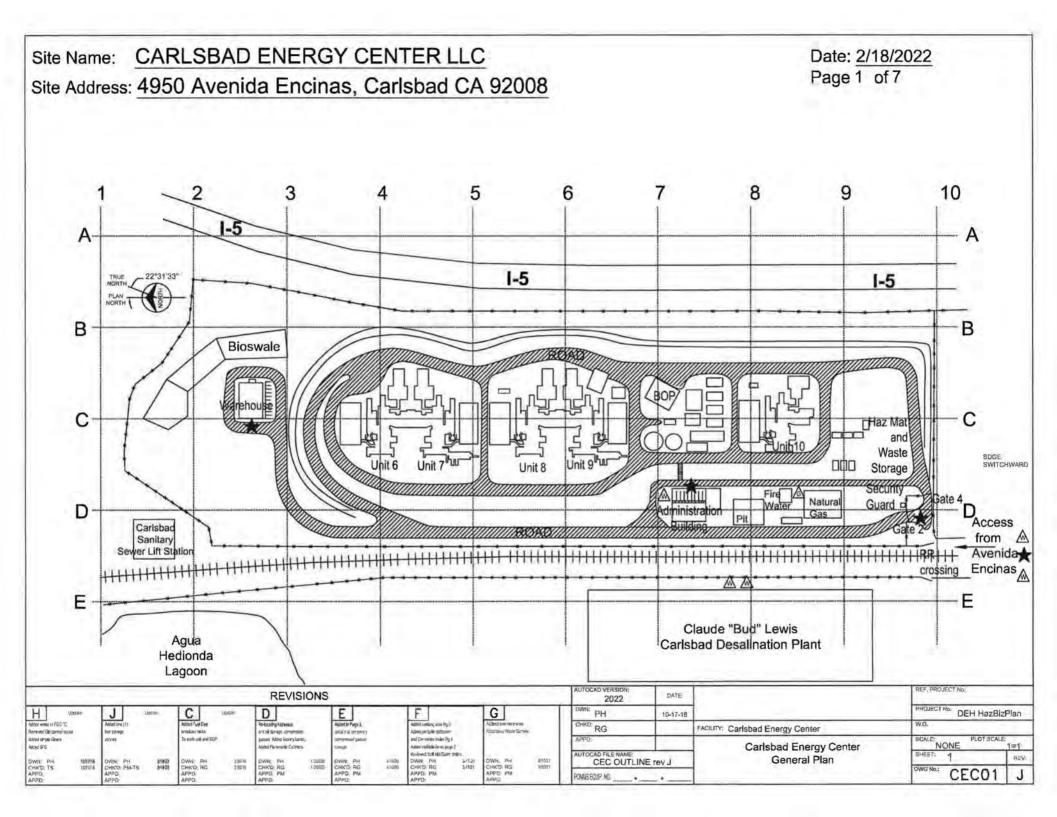
		Hazardous Mater	ials And Waste	s Inventor	y Matrix	Report			
ERS Business/Org.	Carlsbad Energy Center Project		Chemical Loc	ation			CERS ID	10765651	
acility Name	Carlsbad Energy Center Project		Hazardou	is Waste Sto	orage Area	1	Facility I	D 37-000-004698	3
	4950 Avenida Encinas, Carlsbad 92008						Status	Submitted on 3/2	/2022 7:50 AM
			Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	S
OT Code/Fire Haz. C		Unit Max. Da	ily Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
0OT: 9 - Misc. Haza Aaterials	rdous Waste Air Filters	Pounds 500 State Storage Conta Solid Box Type Mixture	iner	500 <u>Pressue</u> Ambient <u>Temperature</u> Ambient	500 Waste Code 352	- Health Hazard Not Otherwise Classified			
DOT: 9 - Misc. Haza Aaterials	rdous Waste Oil Filters with Benzene	Pounds 500 State Storage Conta Solid Box Type Mixture	500	500 Pressue Ambient Temperature Ambient	352	- Health Carcinogenicity - Health Hazard Not Otherwise Classified	Benzene	2 %	71-43-2
	Waste Oily Water	Gallons 330 State Storage Conta Liquid Steel Drum Type Waste Days on Site	iner	55 Pressue Ambient Temperature Ambient	1300 Waste Code 223	- Health Hazard Not Otherwise Classified	Water Oil		
OT: 4.1 - Flammat	CAS No	Pounds 250 State Storage Conta Solid Steel Drum, Type State	250 liner Fiber Drum	100 Pressue Ambient Temperature	331	- Physical Flammable			
	Waste Spent Dessicant	Waste Days on Site Pounds 10 State Storage Conta Solid Plastic/Non- Type Waste Days on Site	10 iner metalic Drum	Ambient 5 Pressue Ambient Temperature Ambient	15 Waste Code	- Health Hazard Not Otherwise Classified			
OT: 3 - Flammable ombustible Liquid lammable Liquid, (S CAS No	Pounds 20 State Storage Conta	20 iner metalic Drum	20 Pressue Ambient Temperature Ambient	20 Waste Code 551	- Physical Flammable			

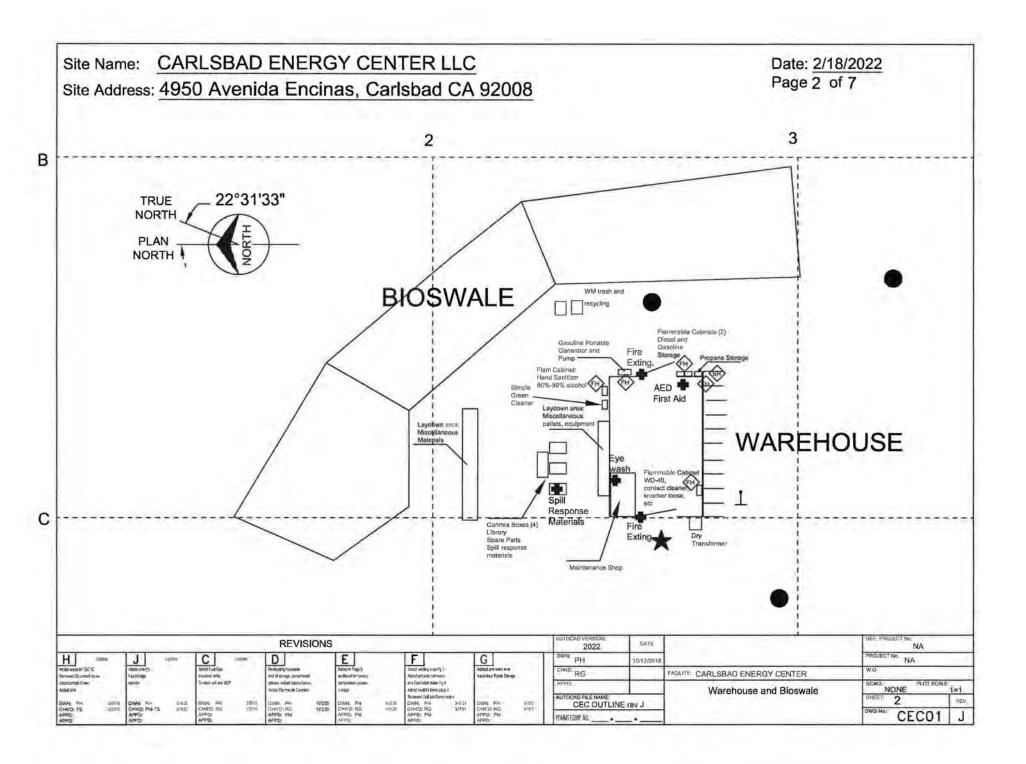
		Hazardoı	us Materials A	And Waste	s Inventory	y Matrix	Report			
acility Name Carls	bad Energy Center Project bad Energy Center Project wenida Encinas, Carlsbad 92008			Chemical Loca In Equipm	tion ent, Oil Sto	orage		CERS ID 10765 Facility ID 37-00 Status Submit	0-00469	8 /2022 7:50 AM
DOT Code/Fire Haz. Class DOT: 3 - Flammable and Combustible Liquids	Common Name Mineral Lube Oil CAS No	Liquid S Type	Max. Daily 48000 Storage Container Steel Drum, Other Days on Site: 365	Quantities Largest Cont. 7400	Avg. Daily 46000 Pressue Ambient Temperature Ambient	Annual Waste Amount Waste Code	Federal Hazard Categories - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation		Componen ture only) % Wt 1 %	EHS CAS No. 128-39-2
combustible Liquid, Class II	Synthetic Lube Oil	Liquid S Type	2000 Storage Container Steel Drum, Tote B Days on Site: 365	300 in, Other	1500 Pressue Ambient Temperature Ambient	Waste Code	- Physical Hazard	N-PHENYL-1-NAPHTHYLAMINE 9,10-ANTHRACENEDIONE, 1,4- DIHYDROXY- ALKYLATED DIPHENYL AMINES TRICRESYL PHOSPHATE	1 % 0 % 5 % 3 %	90-30-2 81-64-1 68411-46-1 1330-78-5
	Hydraulic Lube Oil	Liquid S Type	500 Storage Container Steel Drum, Other Days on Site: 365	55	330 Pressue Ambient Temperature Ambient	Waste Code	- Health	2,6-DI-TERT-BUTYL-P-CRESOL NAPHTHALENESULFONIC ACID, DINONYL-, CALCIUM PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYL	0% 1% 1%	128-37-0 57855-77-3 68442-22-8

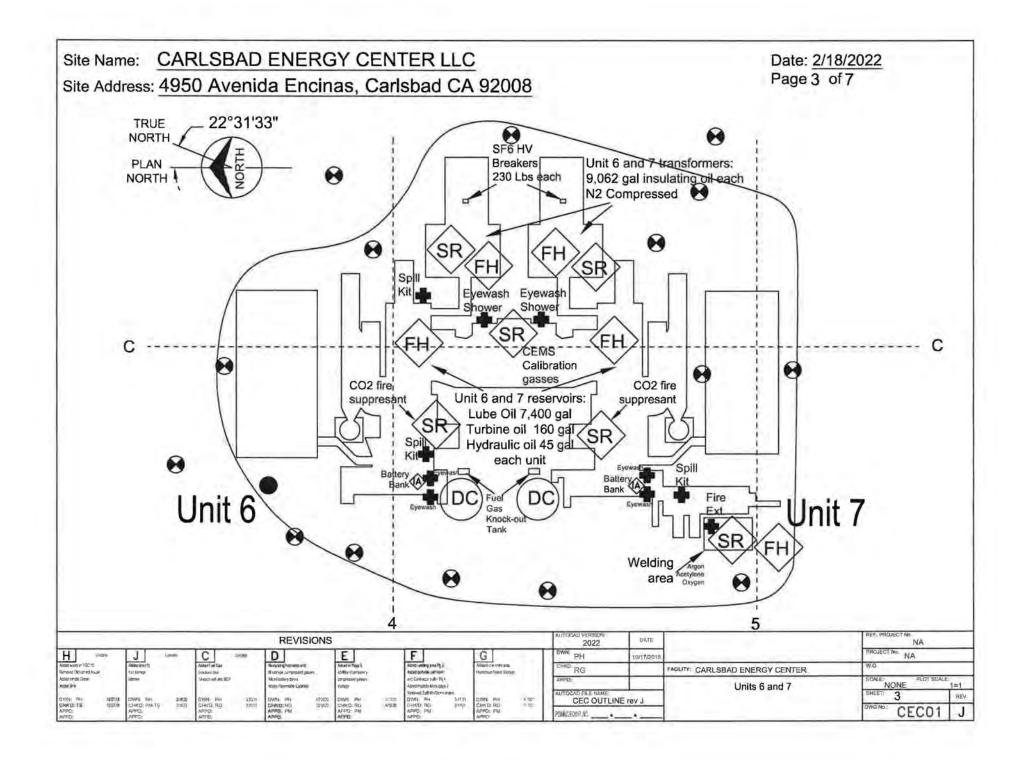
		Hazardous Materi	als And Waste	es Inventory	Matrix F	Report			
ERS Business/Org. acility Name	Carlsbad Energy Center Project Carlsbad Energy Center Project 4950 Avenida Encinas, Carlsbad 92008		Chemical Loo Unit CEN	ation IS, Compress	ed Gas Sto	orage	CERS ID Facility Status	10765651 D 37-000-004698 Submitted on 3/2/	
OT Code/Fire Haz. C	Common Name CEMS GAS, CO CAS No	Unit Max. Dail Cu. Feet 3840 <u>State</u> <u>Storage Contail</u> Gas Cylinder <u>Type</u> Mixture Days on Site:	240	Avg. Daily 1920 Pressue > Ambient Temperature Ambient		Federal Hazard Categories - Physical Flammable - Physical Gas Under Pressure - Health Acute Toxicity - Health Reproducvea Toxicity - Health Specific Target Organ Toxicity - Health Simple Asphyxiant	Component Name Carbon Monoxide Nitrogen Nitric Oxide	Hazardous Components (For mixture only) % Wt 0 % 100 % 0 %	EHS CAS No. 630-08-0 7727-37-9 ✔ 10102-43-9
	CEMS GAS, NO	Cu. Feet3840StateStorage ContailGasCylinderTypeMixtureMixtureDays on Site:		2400 Pressue > Ambient Temperature Ambient	Waste Code	 Physical Gas Under Pressure Physical Oxidizer Health Skin Corrosion Irritation Health Serious Eye Damage Eye Irritation Health Specific Target Organ Toxicity 	Nitrogen Nitric Oxide Carbon Monoxide	100 % 0 % 0 %	7727-37-9 10102-43-9 630-08-0
	CEMS GAS, O2	Cu. Feet3840StateStorage ContainGasCylinderTypeMixtureDays on Site:		2400 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure	Nitrogen Oxygen	80 % 20 %	7727-37-9 7782-44-7

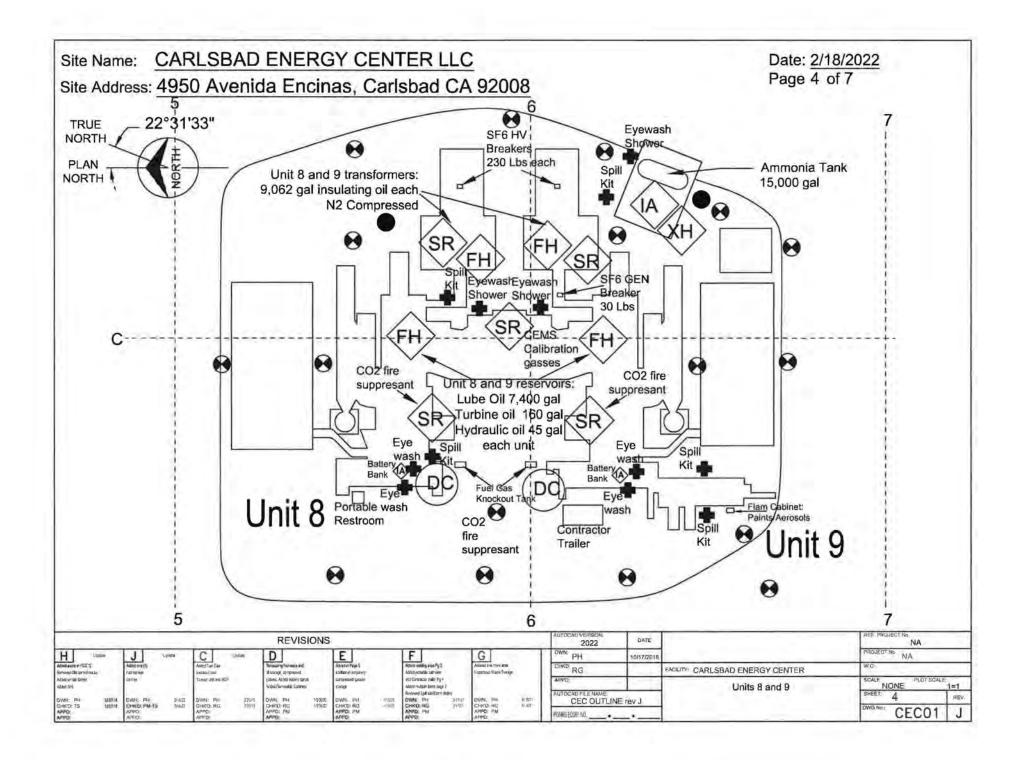
	Hazardous Materials And Wastes Inventory Matrix Report									
Facility Name Carlsbad B	nergy Center Project nergy Center Project a Encinas, Carlsbad 92008			Chemical Loca Water Tar				CERS ID Facility ID Status	10765651 37-000-004698 Submitted on 3/2	
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	I Component Name	Hazardous Component (For mixture only) % Wt	s EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Oxidizing, Class 2	Sodium Hypochlorite 12.5% CAS No 7681-52-9	Gallons State St Liquid To Type	2310 torage Container ote Bin, Other Pays on Site: 365	330	1320 Pressue Ambient Temperature Ambient	Waste Cod	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Sodium Hypochlorite		7681-52-9

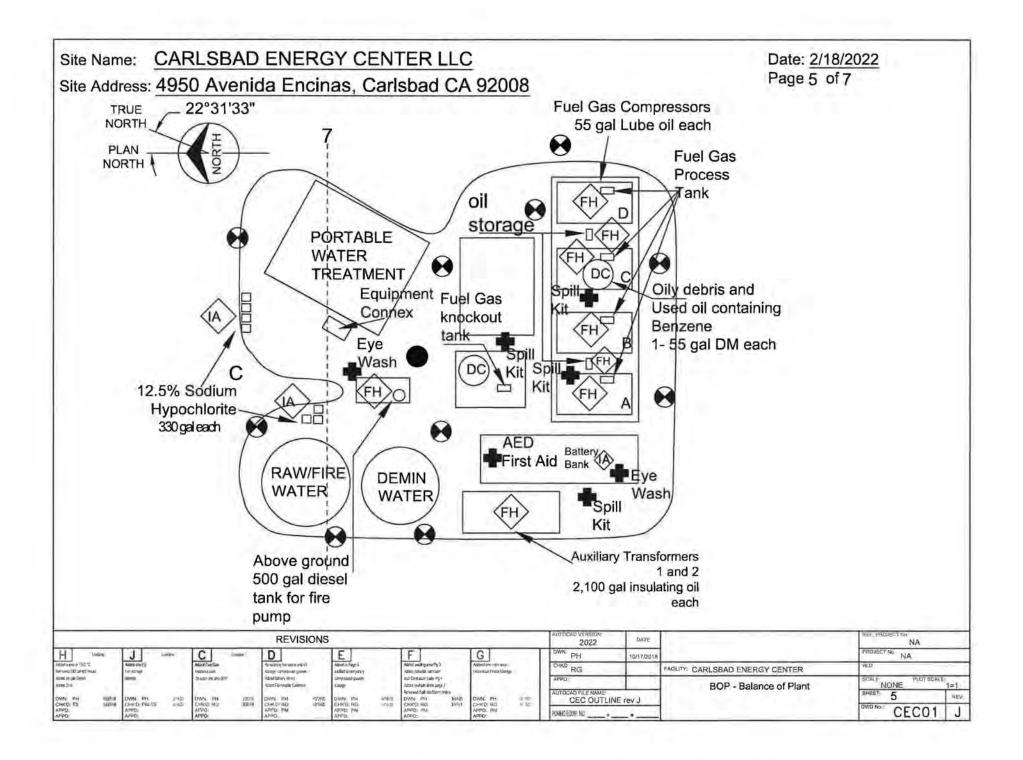
		Hazardous	s Materials	And Waste	s Inventory	y Matrix	Report			
Facility Name Carlsba	d Energy Center Project d Energy Center Project nida Encinas, Carlsbad 92008			Chemical Loca Welding A				CERS ID Facility I Status		
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Componen (For mixture only) % Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gas	Argon Compressed <u>CAS No</u> 7440-37-1	Gas Cy Type	732 orage Container /linder ays on Site: 365	244	244 Pressue > Ambient Temperature Ambient	Waste Cod	- Physical Gas Under Pressure			
DOT: 2.1 - Flammable Gases Jnstable (Reacve), Class 2, Flammable Gas	Acetylene CAS No 74-86-2	Gas Cy Type	435 orage Container /linder ays on Site: 365	145	145 Pressue > Ambient Temperature Ambient	Waste Cod	- Physical Flammable - Physical Gas Under Pressure			
DOT: 2.2 - Nonflammable Gas Dxidizing, Class 2	Oxygen Gas <u>CAS No</u> 7782-44-7	Gas Cy Type	732 orage Container /linder ays on Site: 365	244	244 Pressue > Ambient Temperature Ambient	Waste Cod	- Physical Gas Under Pressure - Physical Oxidize	r		

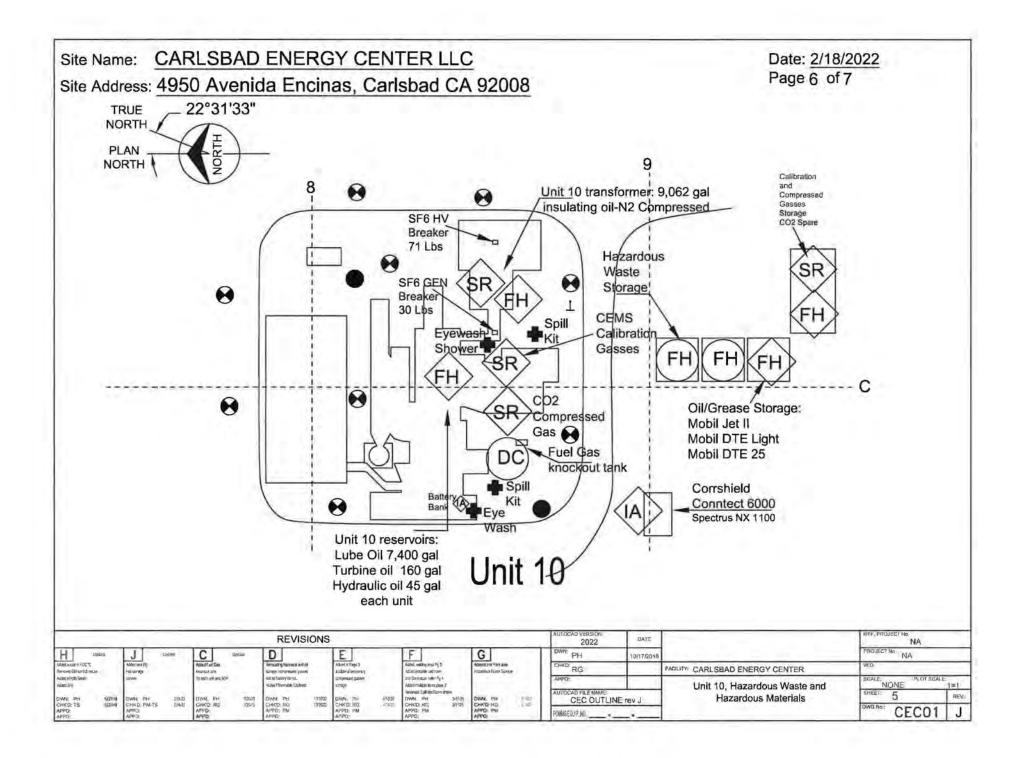


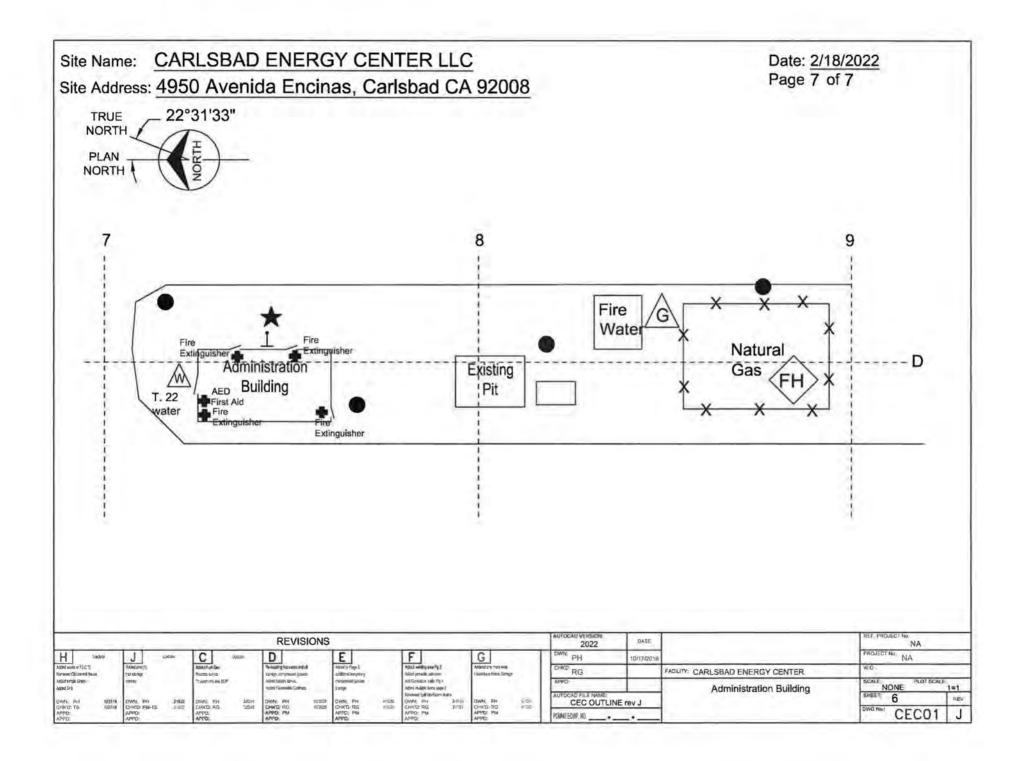












CONSOLID Prior to completing	ATED E		NCY R	ESPONS	SE / C	ONTIN	IGEN		
`	· ·	DENTIFIC							
FACILITY ID #				S ID #	A2.		PLAN PRE	L VV PARATION/REVISION	A3.
BUSINESS NAME (Same as Facility	Name or DBA -	Doing Business A	As)			(MINI/DD/	[]]]		A4.
BUSINESS SITE ADDRESS									A5.
BUSINESS SITE CITY					A6.	0.1	ZIP COD	Έ	A7.
TYPE OF BUSINESS (e.g., Painting	Contractor)		A8.	INCIDENTA	L OPERA	CA TIONS (e.g.,	Fleet Main	tenance)	A9.
THIS PLAN COVERS CHEMICAL	SPILLS, FIRES,	AND EARTHQU	JAKES INV	OLVING (Chec	k all that a	pply):			A10.
1. HAZARDOUS MATERIALS	2. HAZAR	DOUS WASTES							
		B. IN	FERNA	L RESPO	NSE				
INTERNAL FACILITY EMERGEN 1. CALLING PUBLIC EMERGE 2. CALLING HAZARDOUS WA 3. ACTIVATING IN-HOUSE EM	NCY RESPOND STE CONTRAC	ERS (e.g., 9-1-1) TOR	Y (Check al	l that apply):					B1.
C. EMERGEN							NOTI	FICATIONS	
 In the event of an emergency involvin 1. Notify facility personnel and evacu 2. Notify local emergency responders 3. Notify the local Unified Program A 4. Notify the State Warning Center at Facilities that generate, treat, store or is an imminent or actual emergency si of facility and type of release involved 1. Title 22 California Code of Regula 2. Title 22 California Code of Regula 3. Title 40 Code of Federal Regulation 4. Title 22 California Code of Regula 5. Title 20 Colifornia Code of Regula 5. Title 20 California Code of Regula 5. Title 20 California Code of Regula 5. Title 20 California Code of Regula 	ate if necessary in by calling 9-1-1; gency (UPA) at (800) 852-7550. dispose of hazard tuation such as an l: tions §66265.56. tions §66265.196 ns §302.6. Notifi titons §66262.34 onth.	h accordance with the phone number lous waste have a h explosion, fire, o Emergency Proce Response to Lea cation requiremen (d)(2) and Title 4	the Emerge below; and dditional res or release, th edures for ge aks or Spills tts for a relea 0 Code of F	ncy Action Plan ponsibilities to r e Emergency Co nerators of 1,000 and Disposition lse of a hazardou ederal Regulatic	(Title 8 Ca notify and cordinator r 0 kilogram of Leaking 1s substanc ons §262.3	alifornia Cod coordinate wi nust follow tl g or Unfit-for e equal to or 4(d)(5)(ii) fo	ith other res he appropria hazardous v -Use Tank (greater than r generators	ponse agencies. Whenev ate requirements for the c vaste in any calendar mor Systems. 1 the reportable quantity. s of less than 1000 kilog	category nth. grams of
 and the local fire department's hazard Provide for proper storage and disp the facility; and Ensure that no material that is incomprocedures are completed. 	ous materials pro osal of recovered	gram, if necessar l waste, contamin	y, that the fa ated soil or s	cility is in compl surface water, or	liance with any other	requirement material that	s to: results fron	n an explosion, fire, or re	elease at
PHONE NUMBERS: CAL NAT POIS LOC	IFORNIA STAT TONAL RESPO SON CONTROL	E, POLICE AND E WARNING CI NSE CENTER (N CENTER ROGRAM AGEN	ENTER (CS	WC)/CAL OES.				9-1-1 (800) 852-7550 (800) 424-8802 (800) 222-1222	C1. C3.
NEAREST MEDICAL FACILITY / H	IOSPITAL NAM	ſE:					C4.		C5.
AGENCY NOTIFICATION PHONE	NUMBERS:	CALIFORNIA REGIONAL W U.S. ENVIRON CALIFORNIA U.S. COAST G	ATER QUA IMENTAL F DEPT. OF F	LITY CONTRO PROTECTION A ISH AND WILI	L BOARE AGENCY (DLIFE (CI	O (RWQCB). (US EPA) OFW)	····· [(916) 255-3545 (800) 300-2193 (916) 358-2900 (202) 267-2180	C6.

CAL OSHA

OTHER (Specify):

OTHER (Specify):

(916) 263-2800

(916) 323-7390

C9.

C8.

C10.

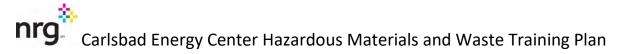
CERS Consolidated Emergency Response / Contingency Plan

INTERNAL FACILITY EMERGENCY CO	OMMUNICATIONS OR ALARM NOT	TIFICATION WILL OCCU	UR BY (Check all that apply):	C11.
1. VERBAL WARNINGS;	□ 2. PUBLIC ADDRESS OR INTEF □ 5. ALARM SYSTEM;	RCOM SYSTEM;	☐ 3. TELEPHONE; ☐ 6. PORTABLE RADIO	
4. PAGERS;		ED BY AN OFF-SITE RE	LEASE WILL OCCUR BY (Check all that apply):	C12.
□ 1. VERBAL WARNINGS;	2. PUBLIC ADDRESS OR INTER		□ 3. TELEPHONE;	
4. PAGERS;	5. ALARM SYSTEM;		6. PORTABLE RADIO	
EMERGENCY COORDINATOR CONTA	CT INFORMATION:			C13.
PRIMARY EMERGENCY COORDINATO	OR NAME:	PHONE NO .:	PHONE NO .:	
ALTERNATE EMERGENCY COORDINA		PHONE NO .:	PHONE NO .:	
Check if additional Emergency Coordin			ng PHONE NO.:	
Note: If more than one alternate emergency	-			
	GENCY CONTAINMEN			
Check the applicable boxes to indicate your	facility's procedures for containing spi	lls and preventing and mit	igating releases, fires and/or explosions.	D1.
□ 1. MONITOR FOR LEAKS, RUPTUR				
2. PROVIDE STRUCTURAL PHYSIC			erms);	
3. PROVIDE ABSORBENT PHYSICA		oill pillows);		
 ☐ 4. COVER OR BLOCK FLOOR AND ☐ 5. LINED TRENCH DRAINS AND/O 	,			
\Box 6. AUTOMATIC FIRE SUPPRESSIO	,			
\Box 7. ELIMINATE SOURCES OF IGNIT				
\square 8. STOP PROCESSES AND/OR OPEN				
\square 9. AUTOMATIC / ELECTRONIC EQ	-			
☐ 10. SHUT OFF WATER, GAS, ELECT				
11. CALL 9-1-1 FOR PUBLIC EMERG		AND/OR MEDICAL AID;		
☐ 12. NOTIFY AND EVACUATE PERSO	ONS IN ALL THREATENED AND/OF	R IMPACTED AREAS;		
☐ 13. ACCOUNT FOR EVACUATED PE	ERSONS IMMEDIATELY AFTER EV.	ACUATION;		
☐ 14. PROVIDE PROTECTIVE EQUIPM	IENT FOR ON-SITE EMERGENCY R	ESPONSE TEAM;		
☐ 15. REMOVE CONTAINERS AND/OF	R ISOLATE AREAS;			
☐ 16. HIRE LICENSED HAZARDOUS V	*			
☐ 17. USE ABSORBENT MATERIAL FO	· · · · · · · · · · · · · · · · · · ·			
□ 18. VACUUM SUCTION USING APPI				
□ 19. DECONTAMINATE PERSONNEL □ 20. PROVIDE SAFE TEMPORARY ST	. AND EQUIPMENT WITHIN DESIGN	NATED AREA AND DISI SENER ATED DURING E	POSE OF WASTEWATER AS HAZARDOUS WA	STE;
\square 21. OTHER (Specify):	TORAGE OF THALARDOOD WASTER	DENERATED DORING E	MERGENCI ACTIONS,	D2.
	E FACILITY	EVACUATION		
THE FOLLOWING ALARM CLONAL (C)				E1
THE FOLLOWING ALARM SIGNAL(S) \Box 1. BELLS;	WILL BE USED TO BEGIN EVACUA	TION OF THE FACILIT	Y (Uneck all that apply):	E1. E2.
\square 2. HORNS/SIRENS;				
□ 3. VERBAL (i.e., Shouting);				
4. OTHER (Specify):				
THE FOLLOWING LOCATION(S) WILL	, BE USED FOR AN EMERGENCY A	SSEMBLY AREA(S) (e.g.	., Parking lot, street corner):	E3.
Note: The Emergency Coordinator must acc				
EVACUATION ROUTE S AND ALTERN	ATE EVACUATION ROUTES ARE I	DESCRIBED AS FOLLOV	VS:	E4.
□ 1. WRITTEN PROCEDURES DESCRI	BING ROUTES, EXITS, AND ASSEN	IBLY AREAS:		
2. EVACUATION MAP(S) DEPICTIN				
3. OTHER (Specify):			E5.	
Note: Evacuation procedures and/or maps s	should be posted in visible facility locati	ons and must be included i	n the Contingency Plan	
	1 2			
F.	ARRANGEMENTS FOR	R EMERGENCY	SERVICES	
ADVANCE ARRANGEMENTS FOR LOO	×	k one of the following):		F1.
□ 1. HAVE BEEN DETERMINED NOT □ 2. THE FOLLOWING ARRANGEME				F2.
Note: Advance arrangements with local fire		and local emergency resp	oonse teams, and/or emergency services	
	2 and ponee departments, nospitals, stat	and room emergency log	onse teams, and or emergency services	

contractors should be made for your facility, if necessary. Large Quantity Generators must describe arrangements in the Contingency Plan.

Check the a	pplicable boxes to list emergency response equipment available	NCY EQUIPMENT at the facility, identify the location(s)	where the equipment is kept. and indicate the
	s capability, if applicable.		
TYPE	EQUIPMENT AVAILABLE G1.	LOCATION G2.	CAPABILITY G
EXAMPLE	CHEMICAL PROTECTIVE GLOVES	SPILL RESPONSE KIT	SINGLE USE, OIL RESISTANT ONLY
Safety	1. CHEMICAL PROTECTIVE SUITS, APRONS,		
ind	AND/OR VESTS 2. CHEMICAL PROTECTIVE GLOVES		
First Aid			
	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.		
	9. PLUMBED EYEWASH FOUNTAIN AND/OR		
	SHOWER 10. PORTABLE EYEWASH KITS AND/OR		
	STATION 11. OTHER		
Fire	12. PORTABLE FIRE EXTINGUISHERS		
Fighting	13. I FIXED FIRE SUPPRESSION SYSTEMS AND/		
	OR SPRINKLERS 14.		
	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		
Communi- cations	29. TELEPHONES (e.g., Cellular)		
and	30. INTERCOM AND/OR PA SYSTEM		
Alarm Systems	31. PORTABLE RADIOS		
	32. AUTOMATIC ALARM CHEMICAL MONITORING EQUIPMENT		
Other	33. OTHER		
	34. 🗌 OTHER		

H. EARTHQUAKE VULNI	ERABILITY
Identify areas of the facility that are vulnerable to hazardous materials releases due to seismic mo	
VULNERABLE AREAS (Check all that apply): HI. 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. The VULNERABLE SYSTEMS AND/OR EQUIPMENT (Check all that apply): H3. 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)	ese systems require immediate isolation and inspection. LOCATIONS: H4.
I. EMPLOYEE TRAI	INING
 Employee training is required for all employees and/or contractors handling hazardous materials Most facilities will need to submit a separate Training Plan. However, your CUPA may accept th 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; 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; 	and/or hazardous wastes during normal and/or emergency operations. his section as the Training Plan for some small facilities. Communication and alarm systems; Personal protective equipment; Use and maintenance of emergency response equipment and supplies (e.g. Fire extinguishers, respirators, spill control materials); Decontamination procedures; Evacuation procedures and evacuation staging locations; Identification of facility areas, equipment, and systems vulnerable to earthquakes and other natural disasters. OTHER (Specify):
Check the applicable boxes below to indicate how the employee training program is administered	4
□ 1. FORMAL CLASSROOM □ 2. VIDEOS □ 3. SAFETY MEETIN □ 5. OTHER (Specify):	
 ☐ 6. NOT APPLICABLE SINCE FACILITY HAS NO EMPLOYEES ☐ 7. CHECK IF A SEPARATE EMPLOYEE TRAINING PLAN IS USED AND UPLOADED ☐ 8. CHECK IF EMPLOYEE TRAINING IS COVERED BY THE ABOVE REFERENCED COMPLEX 	CONTENT AND OTHER DOCUMENTS ONSITE ^{14.}
 EMPLOYEE TRAINING FREQUENCY AND RECORDKEEPING TRAINING MUST BI Provided initially for new employees as soon as possible following the date of hire. New 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 genera 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. 	employees should not work in an unsupervised position that involves
 Large Quantity Generator Training: Large quantity generators (1,000 kg or more) must retain A written description of the type and amount of both initial and ongoing training that will be give waste management and/or emergency response. The name, job title and job description for each position at the facility related to hazardous wa Current employee training records must be retained until closure of the facility and former entermination of employment. 	en to persons filling each job position having responsibility for hazardous uste management.
Small Quantity Generator Training: Small quantity generators (less than 1,000 kg) must is 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 emp may be based on the job position and training records must be made available for a period of at le	
J. LIST OF ATTACHN	MENTS
Check one of the following:	Л.
□ 1. NO ATTACHMENTS ARE REQUIRED; or □ 2. THE FOLLOWING DOCUMENTS ARE ATTACHED:	J2.



1. Staff list and HazMat Role – Personnel Up to Date as of October 2021:

Paul Mattesich – Plant Manager: Manages all staff, assigns Hazardous Materials duties, ensures training occurs per regulations, submits Hazardous Materials Business Plan.

Brian Wood – Operations Manager: Manages Operations and Maintenance Staff, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Anthony Kalis – Engineer: Handles some hazardous materials (IE service oil, sodium hypochlorite totes).

David Brown - Business Manager: No active hazardous materials role

Vacant – Environmental, Health, and Safety Specialist: Manages hazmat programs, signs manifests for shipped wastes, tracks waste, conducts inspections, labeling, remote drums.

Patricia Hurtado – Administrative Assistant: Secondary for hazmat programs, signs manifests for shipped wastes, tracks waste, conducts inspections, labeling, remote drums.

Aaron Siegel – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Matt Kristie – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Craig Lobo – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Greg Munsell – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Rob Burton – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Kyle Campbell – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Shawn Reilly – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Ben Miller – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Hamid Hadidi – Instrumentation, Electrician Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Robert Haman – Instrumentation, Electrician Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Scott Edwards – Total Western Warehouse Contractor: Forklift certified, primary driver for loading drums to shipper, handles hazardous materials (IE service oil, sodium hypochlorite totes), handles hazardous wastes.

2. Provided Training:

2.1 All NRG staff is given the following training.

2.1.1 Annual:

- HMBP Training: All required elements in HMBP rules, HazMat emergency response, fire response, wildlife response, evacuation, elements of SPCC, Satisfies RMP training requirements.
- Emergency Response (Site Specific): Emergency Action Plan, Evacuation, Medical Emergencies, High Winds, Terrorism, Sabotage, system failures, Earthquake.
- Emergency Response (NRG Provided): NRG Provided Online Training
- Site Orientation: General site overview, active shooter, HazMat spill response, emergency contacts, wildlife requirements.
- SPCC Training (Site Specific): Classroom and presentation based.
- Fire Fighting: Online Training and Hands On
- Lead Awareness: NRG Provided Online Training
- Hexavalent Chromium Control: NRG Provided Online Training
- Asbestos Awareness: NRG Provided Online Training
- Ammonia Safety: NRG Provided Online Training
- Job Briefing: NRG Provided Online Training. Includes HazMat analysis/spill potential prior to work.
- Materials of Trade: NRG Provided Online Training
- HAZWOPER Awareness: NRG Provided Online Training
- Incident and Injury Reporting: NRG Provided Online Training
- Hazard Recognition: NRG Provided Online Training.
- General PPE Awareness: NRG Provided Online Training

2.1.2 Every 2 Years

• CPR/First-Aid Certification

2.1.3 Every 3 Years

- Hazardous Resource Management (RCRA): NRG Provided Online Training
- SPCC (NRG Provided): NRG Provided Online Training
- DOT Function Specific (Loading and Unloading of Hazardous Materials): NRG Provided Online Training, includes separate exam.
- DOT Safety: NRG Provided Online Training, includes separate exam.
- DOT General Awareness (Transportation of Hazardous Materials): NRG Provided Online Training, includes separate Exam.
- DOT Security Awareness: NRG Provided Online Training
- Site Specific RMP training: Stand alone done every three years but is covered by "HMBP Training" annually.

2.2 Training for Environmental staff and Plant Specialist:

• Both are HAZWOPPER 40 Hour trained.

2.2.1 Annual:

• Lion Technology Inc. California Hazardous Waste Management Course: online or in person

2.2.2 Every 3 Years:

• Lion Technology Inc. Recurrent Hazmat Ground Shipper Certification (DOT)

October 2021

**	Carlsb	ad Energy Center Project
nrg.	Procedure Number	CECP-1201
	Title	Emergency Action Plan – Site Specific
	Revision Date	October 2021
Approved:	Applicable Signatures:	Date:
O & M Supervisor	Relied	10/25/21
Plant Manager	0-	10/25/21

The purpose of this procedure is to ensure that Carlsbad Energy Center Project (CECP) emergencies are addressed promptly, minimizing exposure to personnel and property and communicating information in an organized manner that will provide accurate reporting to the appropriate parties.

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Emergency Contact List

Carlsbad Energy Center Project

- Facility Name: Carlsbad Energy Center Project Owner: Carlsbad Energy Center LLC •
- •
- Physical Address of the Facility: 4950 Avenida Encinas, Carlsbad, CA 92008 Other Identifying Information: •
- •

Project Name:	Carlsbad Energy Center ("CECP")
Project Address:	4950 Avenida Encinas, Carlsbad, CA 92008
SDG&E SC ID:	SDG3
CAISO Resource Name:	Carlsbad Energy Center
CAISO Resource ID Unit 1:	CARLS1_2_CARCT1
CAISO Resource ID Unit 2:	CARLS2_1_CARCT1
Project Nominal Capacity:	500 MW

Carlsbad Energy Center

Name	Work Phone No.
24-hour Control Room	760.710.3950 Control Room
CECP Business Phone	760.710.3970 Office
Paul Mattesich	760.710.3945 Office
Plant Manager	805.616.5836 Cell
Brian Wood	760.710.3949 Office
Operations and Maintenance Supervisor	805.794.3851 Cell
Paul Mattesich (Interim Basis)	805.616.5836 Cell
Environmental Health and Safety Specialist	
	760.707.6833 Cell
NRG Regional Environmental (Back-Up):	
George Piantka	

NRG-related

Name	Title	Office Phone Number	Mobile Number	Email Address
SDGE Real- Time Desk	Transaction Scheduler	858-650-6160	619-517- 5661	tsched1@semprauti lities.com
Aaron Malady	Corporate Security	713-537-2730		Aaron.malady@nrg. com
Chris Rimel (Primary Spokesman)	Manager, Communications	713-537-5388		Chris.Rimel@nrg. com

Name	Title	Office Phone Number	Mobile Number	Email Address
Michael Newhouse	Energy Services Safety Manager		(814) 525- 8834	Michael.Newhouse
George Piantka	Environmental Director		760-707- 6833 Cell	@nrg.com George.Piantka@nr g.com
Tim Sisk	Regional Environmental Manager	760-710-2129	860-334- 8081	Tim.Sisk@nrg.com
Core Injury Management	All employee injuries			855-723-3674

Emergency Contact Numbers

Agency	When	Phone number
Carlsbad Fire Department	24 Hour emergency	911
	Non-Emergency	858-756-3006
Emergency	24 Hour emergency	911
Police	24 hr. emergency	911
	Non-Emergency	760-931-2197
San Diego County DEHQ	Any significant release or	858-505-6657
(CUPA)	threatened release of a hazardous	
	material requires immediate	
	reporting to CUPA.	
California Office of	Any significant release or	800-852-7550
Emergency Services (O.E.S.)	threatened release of a hazardous	916-845-8911
State Warning Center	material requires immediate	
	reporting to OES.	
National Response Center	Release exceeding reportable	800-424-8802
	quantity (RQ).	
Chemical Safety and Hazard	Depart any releases that result in	202-261-7600 (or
Investigation Board (CSB)	Report any releases that result in fatality, serious injury, or	report@csb.gov)
Investigation board (CSB)	property damage of at least	reporteesb.gov)
	\$1,000,000.	
Division of Occupational	Incident involving serious injury,	626-239-0369
Safety & Health (DOSH)	illness, or death	
Federal Bureau of	Terrorist attack, bomb threat,	310-477-6565
Investigation (FBI)	significant sabotage and active	
	shooter situations	
U.S. Coast Guard	Spill to Waterway (Into Storm	619-278-7033
	Drains)	
San Diego Regional Water	Spill to Waterway (Into Storm	(619) 516-1990
Quality Control Board	Drains)	
San Diego Air Pollution	Emissions Exceedance.	858-586-2650.
Control District (SDAPCD)	If due to equipment breakdown	After hours select
	call within 1 hour of discovery and	option 2 on
	choose option 2	SDAPCD phone
		system

San Diego County Government	Business related	858-694-3900
California Department of Toxic Substance Control	Improper disposal of hazardous substance	800-728-6942
Poison Control Center	Incidents of ingestion of chemical or medications.	800-222-1222
CA Department of Fish and Wildlife	Incidents that threaten endangered species or migratory birds. Not in the event of a spill as they are notified by OES.	800-334-2258
SDGE Operations Desk	When SDGE Realtime Desk is not available	858-650-6196
SDGE Outage Desk	To schedule an outage	858-650-6178
CAISO Gen Desk		916-351-2488 916-351-2489
CAISO RIG Engineer		916-608-5898 916-608-5897
SDGE Day Ahead Scheduler	When substation switching is needed	858-650-6178 (0500-1300 Mon- Fri) 858-650-6160 – 24 Hour
Carlsbad Municipal Water District	Any issues with water supply	760 438 2722 760 603 7352
SDG&E	Natural Gas Related Issues <i>i.e. Leak or Release</i>	1-800-411-7343
California Public Utilities Commission (CPUC)	Natural Gas Pipeline Release Emergency <i>Call SDG&E Gas first</i>	800-235-1076
California Energy Commission	Report Emergencies When it is safe to do so. Anwar Ali Compliance Project Manager	916-654-5020
California Public Utilities Commission	Report Injuries within 24 hours	1-415-355-5503 or Online submittal

Resources

Agency	When	Phone number
American Integrated	24 Hour Spill Clean Up/Removal	888-423-6060
Services		
Cal OES HazMat Section	Assistance deciding how to respond	916-845-8798
	to a spill	
CHEMTREC	24 Hour Chemical information	800-424-9300
National Weather	Weather information	805-988-6610
Service		
Fire Department	Non-Emergency	858-756-3006
Police Department	Non-Emergency	760-931-2197
	Business	760-931-2100

Community Notifications

<u>-</u>		
Company	y Distance / Direct	ion Phone Numbers
West Properties	South of CECP	760-448-4501

COMMUNICATION CENTERS AND EMERGENCY SYSTEMS

I. Emergency Communications Centers

- A. The primary emergency communications center: Control RoomOutside phone (760) 710-3950
- B. Emergency Notification System:

Two-way Radio System

II. Emergency Activity Documentation

All plant activities taken during emergencies will be recorded in chronological order, including equipment problems, personnel injuries, and updates on station status and generation availability.

- III. Emergency Systems
 - A. In an emergency situation, a senior CECP Manager will take the Incident Commander (IC) role to manage the incident.
 - B. If an agency responds to the station, such as fire or police department(s), the agency personnel will take over the IC role from the CECP Manager. The CECP Manager should remain with the agency IC to provide any advice re: the plant equipment or systems.
 - C. All personnel shall cooperate with emergency responders for life flight operations, securing appropriate landing under the direction of the responding agency.
 - D. Windsocks shall be monitored during evacuation periods
 - E. CECP has three designated safe assembly areas. If in case of severe ammonia leak, evacuate to the tertiary assembly area.
 - 1. Primary Assembly Area: Just outside the administration building in the parking lot on the east side of the building. If workers are in the warehouse the assemble area is in the parking lot on the south side of the warehouse building.
 - 2. Secondary Assembly Area: Just outside of the main gate at the south end of the facility.
 - 3. Tertiary Assembly Area: Evacuate all the way to the south end of the SDG&E substation, outside the substation gate on Avenida Encinas.
 - 4. If in case of a severe ammonia-leaking incident occurs when only a few personnel are in the plant, personnel will

close all doors and shut off the Air Conditioning and ventilation to prevent ammonia vapors from entering the Control Room. Call 911 to notify the Fire Department Hazardous Material Team. Workers will then evacuate the site to the offsite muster area.

- F. If applicable, refer to the Business Emergency/Contingency plan (on file with the San Diego County Department of Environmental Health Department Hazmat Division (CUPA). A copy is located in the Control Room.
- G. Emergency evacuation
 - 1. In the event a helicopter is needed, landing area is at the **emergency responder's discretion**. The heliport at Encina Power Station is not available due to demolition activities.
 - 2. The leaders during an evacuation are:

Senior Staff Member.

Visitors – Designated Station Contact.

- H. First Aid supplies are available in the Control Room.
- I. All workers will be awareness trained on CPR, First Aid and AED use. Workers will maintain current certifications as required, pending contractor availability and access.
- J. Incipient fire-fighting training shall be given to station employees. Fire equipment is to be inspected monthly.
- K. Emergency supplies consist of our private potable water system, bottled water, and food rations. The water system should remain intact during a major earthquake and if the power lines are down with no auxiliary power to the station, a three day supply of emergency water and food rations is available. Note: All perishable food on site should be consumed first.

PERSONNEL EVACUATION

Important Contact List	(for more - see En	nergency Contact List)
------------------------	--------------------	------------------------

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady) - for any significant security emergencies	(713) 537-2730	CECP Manager
NRG Spokesman: Communications Manager (Chris Rimel) – for requests from the media about the situation	(713) 537-5388	CECP Manager
California Energy Commission: Anwar Ali	(916) 654-5020	CECP Environmental Manager

I. Activation

When an evacuation is appropriate:

The Operating Authority will activate the emergency notification system via the plant paging system by paging the following message 3 times over the two-way radio system and the PA system. The message can be followed with more detailed information if required.

"ATTENTION ALL PERSONNEL! THIS IS AN EMERGENCY. EVACUATE TO THE (primary, secondary or tertiary) ASSEMBLY AREA"

- A. All personnel who are not operating critical areas of the plant are expected to report to the assembly area. Essential personnel shall be under direction of the Operating Authority and will remain on duty unless it is unsafe to do so.
- B. Control Room will provide emergency information to the Evacuation Leader at the evacuation assembly area.
- C. Evacuation Leader shall provide assistance with escape. The leaders are:
 - 1. Evacuation area Senior Staff Member
 - 2. Control Rooms On duty Operating Authority

- 3. Visitors Designated Station Contact
- D. CECP has three designated safe assembly areas. If in case of severe ammonia leak, evacuate to the tertiary assembly area.
- 1. Primary Assembly Area: Just outside the administration building in the parking lot on the east side of the building. If workers are in the warehouse the assemble area is in the parking lot on the south side of the warehouse building.
- 2. Secondary Assembly Area: Just outside of the main gate at the south end of the facility.
- 3. Tertiary Assembly Area: Evacuate all the way to the south end of the SDG&E substation, outside the substation gate on Avenida Encinas.
 - 4. If in case of a severe ammonia-leaking incident occurs when only a few personnel are in the plant, personnel can stay in the Control Room instead of evacuating to an evacuation area. Ensure to close all doors and shut off the Air Conditioning and ventilation to prevent ammonia vapors from entering the Control Room. Call 911 to notify the Fire Department Hazardous Material Team.
 - E. Evacuation Leaders will determine which assembly area can be safely accessed and direct affected personnel to that safe assembly area. Upon arrival at the safe assembly area, personnel will be accounted for. Employees interacting with visitors, vendors, or contract personnel, at the time of evacuation notice will be required to account for their presence. A list of those not accounted for will be forwarded to the Control Room.
 - F. Site management, as feasible, will initiate search and rescue efforts. Personnel shall remain in safe assembly area until provided further instructions.
 - G. In the event either Control Room is unsafe to occupy, the operator will attempt to trip any running units and report to a safe area communicating via portable radio.
- II. Drills

Conduct a drill on the evacuation process every 12 months.

MEDICAL EMERGENCIES

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
VP, Regional Plant Operations (John Robertson) – for injuries	(302) 381-6332 Cell	CECP Manager
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
NRG Spokesman: Communications Manager (Chris Rimel) – for requests from the media about the situation	(713)537-5388	CECP Manager
Director, Operational Safety (Michael Hagenmayer) - This person will notify Cal/OSHA, if applicable	(315) 349-2329 Office (202) 213-9109 Cell	Safety Specialist
Division of Occupational Safety & Health (Cal/OSHA) – for serious employee injuries or fatalities	(909) 383-4321	Regional Safety Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee 's supervisor, designee or Safety Specialist
California Energy Commission Anwar Ali	(916) 651-2072	Only for worker injuries that require offsite medical attention.
California Public Utilities Commission	(415) 355-5503	Only for worker injuries that require offsite medical attention.

I. Discovery.

The person who discovers an accident/injury shall immediately inform the Control Room with the following information and then ensure that proper basic first aid is provided until help arrives.

A. **Discoverer's name and** location.

- B. Exact location of accident/injury.
- C. Name, approximate age and any known medical conditions of injured person(s).
- D. Nature and severity of accident/injury.
- E. Any apparent conditions or hazards that could increase the level of danger (i.e., chemicals, falling hazards, space confinements) in the area of the accident.
- F. Description of any action being taken or about to be taken.
- II. Notifications.

Upon notification of a medical emergency, the Operating Authority (person receiving the emergency call) shall:

- A. Gather information from the person reporting the emergency. Use Emergency Response Information Form (Addendum 1).
- B. Notify the appropriate outside agencies, call 911. Report the number of injured personnel, severity and type of injuries.
- C. Follow the Safety and Health Incident Notification instructions (Addendum 2).
- D. Notify Core Injury Management
- E. Notify the Safety Specialist and the available CECP Manager.
- F. Notify SDGE Real-Time Desk if operation of the unit(s) is affected.
- III. Assess Plant Status.
 - A. Number of injured (employees and non-employees)
 - B. Nature and severity of injuries (include fatalities)
 - C. Effect on station generation
 - D. Corrective action initiated
 - E. Situation stable or unstable
- IV. Outside Emergency Assistance.

Give specific direction to outside agencies on route to the station (assign someone at the main gate to direct emergency vehicles entering the site.)

- V. Account for all Personnel.
 - A. The Operating Authority will account for all personnel on site.
 - B. If a major disaster occurred and the plant was not evacuated, a senior staff shall account for his personnel and report the results

to the Control Room. Designated Station Contacts shall account for any contractors, visitors, delivery persons, vendors, etc. who are not part of the resident work force.

- Note: If the incident necessitates the evacuation of a building, personnel shall report to the evacuation assembly area shown on the station map. (Addendum 4)
- VI. Determine if Hazardous Chemicals are involved.
 - A. De-contaminate affected person(s) as needed.
 - B. Review the Safety Data Sheets (SDSs) for chemical hazards, i.e. flashpoint, extinguishing agent, health hazard, first aid, etc.
 - C. Furnish outside agencies SDSs. This includes fire department, paramedics and hospital.
- VII. Determine Corrective Action as Needed.
- VIII. First Aid Supplies.

The first aid supplies and AED are located in the Control Room.

- IX. Control Panic and Confusion.
 - A. Remain Calm reassure others
 - B. Update personnel on station status
 - C. Give specific job assignments
 - D. Remove non-essential personnel from the affected area
 - E. If a supervisor is not available, the Operating Authority will assume his responsibilities
 - F. All employees remain on the job unless directed otherwise.
- X. Reassess the Situation (Equipment and Personnel Status). Forward this updated report to the Plant Management or his designee.
- XI. Organize Team to Contain the Situation.

A. Evaluate problems associated with online units and units removed from service.

- B. Identify and Isolate dangerous areas
- C. Secure plant perimeters, direct traffic, document all personnel entering and leaving station and limit access to authorized personnel only.
- D. If capable to do so, repair damaged equipment.
- XII. Call out Additional Personnel As needed.

- XIII. Establish an Emergency Communication Center (if necessary) at the Control Room. Plant activities during an emergency will be recorded in chronological order in the emergency communication center.
- XIV. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant. The media will not be allowed in the plant.

XV. Establish On-Site Teams for Around the Clock Coverage (if-required)

During the crisis, management personnel will supervise and coordinate around-the-clock teams through the unstable and transition periods. This surveillance will continue until conditions stabilize and there is no further danger to personnel and equipment.

FIRE EMERGENCIES

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) - if large fires occurred	(302) 381-6332 Cell	CECP Manager
NRG Spokesman: Communications Manager (Chris Rimel) – for requests from the media about the situation	(713)537-5388 Cell	CECP Manager
California Energy Commission Anwar Ali	(916) 651-2072	CECP Environmental Manager

I. Discovery

The person who discovers a fire shall immediately inform the Control Room with the following information. The person receiving the information should use the Emergency Response Information Form (Addendum 1) for this purpose.

- A. **Discoverer's name and locati**on.
- B. Exact location of the fire.
- C. Size and type of fire (Class A, B or C)
- D. Report number and type of injuries if any.
- E. Any apparent conditions or hazards that could increase the level of danger (i.e., chemicals, flammable liquids or gases) in the area of the fire.
- F. Description of any action being taken or about to be taken. The caller should begin fighting the incipient level fire if trained. (Do not attempt to extinguish the fire alone unless you are sure it can be done safely).
- II. Notification

If the fire is in its incipient stage and is in the process of being extinguished, the Operating Authority (person receiving the emergency call) shall send all available support to the incident location. Fire extinguisher hands-on training shall be provided to applicable station employees annually.

If the fire has progressed beyond the incipient stage or there are hazards near the fire which could quickly elevate the danger, the Control Room shall:

- A. Activate the emergency notification system for fire (two-way radio system and PA).
- B. Notify the appropriate outside agencies including calling 911.
 - 1. Magnitude and type of fire.
 - 2. Type of fuel or chemicals involved.
 - 3. Number of personnel injured.
 - 4. Plant location and accessibility to the affected area.
 - 5. Information on station firefighting equipment.
- C. Notify SDGE Real-Time Desk, if operation of the unit(s) is affected.
- D. Follow the Safety and Health Incident Notification Instructions (Addendum 2)
- E. Notify the Plant Management
- III. Outside Emergency Assistance
 - A. Give specific direction to outside agencies in route to the station.
 - **B.** Assign someone to the main gate to direct emergency vehicles entering the site.
 - C. Provide an update to the fire department personnel of the incident and situation
- IV. Account for all Personnel

The Operating Authority will account for all personnel on site.

If a major disaster occurred and the plant was not evacuated, supervisors shall account for their personnel and report the results to the Control Room. Designated Station Contacts shall account for any contractors, visitors, delivery persons, vendors, etc. who are not part of the resident work force.

Note: If the incident necessitates the evacuation of a building, personnel shall report to their designated evacuation assembly area shown on the station maps (Addendum 4).

V. Determine Corrective Actions

- A. Identify and isolate sources of danger or fuel sources feeding the fire.
- **B.** Evaluate problems associated with online units and off line units.
- C. Shut off fuel sources. Secure pumps, isolation valves, etc.
- **D.** Shut off any potential ignition sources such as motors, electrical circuits, open flames, etc.
- E. De-energize electrical equipment in or near the fire area.
- **F.** If the CO₂ system can extinguish the fire in the area, manually activate CO₂, if it did not take place automatically.

G. Monitor fire's progress.

- H. Check the fire pump status and raw water tank level.
- I. If Hazardous Chemicals are involved, barricade the area and follow the Hazardous Material Spill Procedure.
 - 1. Barricade the affected area.
 - 2. Review the Safety Data Sheets (SDSs) for chemical hazards, i.e. flashpoint, extinguishing agent, health hazard, first aid, etc.
 - 3. Furnish outside agencies SDSs information. This includes fire department, paramedics and hospital.
- VI. Control Panic and Confusion
 - A. Remain calm, reassure others.
 - B. Give specific job assignments.
 - C. Remove non-essential personnel from the affected area.
 - D. If a supervisor is not available, the Operating Authority will assume the responsibilities.
- VII. Assess Plant Status
 - A. Number of personnel injured, if any.
 - B. Nature and severity of injuries (include fatalities)
 - C. Effect on station generation
 - D. Corrective action initiated
 - E. Situation stable or unstable
- VIII. First Aid Supplies

The first aid supplies, burn kit, and AED area located in the Control Room.

- IX. Organize Teams to Contain the Station
 - A. Evaluate problems associated with online units and units removed from service.
 - B. Identify and Isolate dangerous areas
 - C. Secure plant perimeters, direct traffic, document all personnel entering and leaving station and limit access to authorized personnel only.
 - D. Repair the damaged equipment.
- X. Establish an Emergency Communication Center (if necessary) at the Control Room. Plant activities during an emergency will be recorded in chronological order in the emergency communication center.
- XI. Media Reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

HAZARDOUS MATERIAL SPILLS

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person to make call
Medical emergency and ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	626-307-4410	Operating Authority
NRG Spokesman: Manager, Communications (Chris Rimel) – for requests from the media/public about the situation	713-537-5388	Plant Management
San Diego County Department of Environmental Health Hazmat Division (CUPA)	858-505-6657	Environmental Specialist
California Office of Emergency Services (O.E.S.)	800-852-7550	Environmental Specialist
National Response Center	800-424-8802	Environmental Specialist
Chemical Safety and Hazard Investigation Board (CSB)	202-261-7600 (or report@csb.gov)	Environmental Specialist
California Energy Commission Anwar Ali	916-651-2072	Environmental Specialist
Department of Toxic Substances Control	800-728-6942	Environmental Specialist
San Diego Water Quality Control Board	619-516-1990	Environmental Specialist
US Coast Guard	619-278-7033	Environmental Specialist
SDG&E (gas service/leak)	1-800-411-7343	Environmental Specialist
California Public Utilities Commission	800-235-1076	Environmental Specialist
American integrated Services- 24 Hour Spill Clean Up/Removal	888-423-6060	Environmental Specialist
Global Infrastructure Partners – Michael O'Toole	312-835-8527	Environmental Specialist

- 1. This procedure is designed to be used in conjunction with the "Risk Management Plan", "Spill Prevention, Control and Countermeasure Plan", "Hazardous Material Business Plan", Security Plan, and "Waste Management and Minimization Plan."
- II. Discovery

All hazardous material spills are to be reported to the Control Room. The person who discovers a hazardous material release shall immediately inform the Operating Authority through radio or phone and report the following information:

A. Exact location, time, duration, quantity (estimated), all known substances involved

in the Release, level of containment, media into which the release occurred, proximity of storm drains and any other items of significance that can be ascertained in a few seconds.

B. Names of personnel exposed to or potentially injured by hazardous material.

- C. Any apparent conditions or hazard, which could increase the level of danger/exposure in the area of the hazardous material release.
- III. Notification
 - A. The Operating Authority shall assess the severity of the material release, the appropriate responding method for the situation, and shall determine at that point if 911 should be called.
 - **B.** If a health hazard exists, notify station personnel of the incident over the public address system and/or implement the Personnel Evacuation Procedure outlined in this Emergency Action Plan.
 - C. After the situation is assessed and/or emergency notification of 911 is made, then notify the O&M Supervisor. After the O&M Supervisor provides the Plant with necessary operational instructions, the O&M Supervisor will contact the CECP Environmental Specialist who will make any necessary internal and external agency notifications (in accordance with section VI of this procedure) and arrange for clean-up if necessary. CECP EH&S Specialist is unavailable, contact NRG regional environmental support (see emergency contact list) for assistance immediately.

The following information should be relayed: Exact location, time, duration, quantity, all known substances involved in the release, level of containment, media into which the release occurred, proximity of storm drains and any other items of significance that can be ascertained in a few seconds. The O&M Supervisor will also notify the Plant Manager.

D. If in case of a severe ammonia-leaking incident occurs when only a few personnel are in the plant, personnel will close all doors and shut off the Air Conditioning and ventilation to prevent ammonia vapors from entering the Control Room. Workers will call 911 to notify the Fire Department Hazardous Material Team. Worker will evacuate to the offsite muster area.

- IV. Assessment and response to a hazardous material leak
 - A. Types of leaks:
 - For a release from a drum, tote, or tank and if the leak is minor, make an attempt to stop the leak if it can be done safely. If the leak is downstream of a block valve and the valve can be safely shut, shut it off and barricade the leak. Do not attempt to plug or stop any chemical leaking from a tank or line other than attempting to quickly stop it by closing a block valve located upstream of the leak. Barricade a perimeter a safe distance from the leak and stay away. Call 911 to ask for assistance with the leak.
 - 2. Releases of bulk storage chemicals (i.e. ammonia, sulfuric acid, sodium hypochlorite)
 - i. If the release cannot be stopped or is likely to breach the secondary containment, call 911 immediately to report the spill to the Carlsbad Fire Department.
 - If the storage tank has a leak, call in a vacuum or tank truck, as required, to allow the storage tank to be drained and flushed prior to repair. Dispose of all Hazardous Waste to an approved waste disposal site.
 - iii. If the chemical is leaking from the piping system, close the tank discharge valve and stop all feed equipment.
 - iv. For a release during offloading operations immediately shut off the chemical supply from tanker (i.e., close dispenser; isolate supply hose).
 - B. If the hazardous material leaking is ammonia and personnel can smell ammonia, barricade to isolate the area and stay upwind.
 - C. Spill kits for ammonia are located at each power block and the ammonia offloading area. Ammonia spill kits consist of absorbent spill pads (hydrophilic) and a chemical compatible container. DO NOT DILUTE spills. Any ammonia or ammonia cleanup materials must be placed in a waste compatible container and placed in the hazardous waste accumulation area onsite depending disposal.

- D. For all operations that are to be performed, personnel must wear proper personal protective equipment (PPE), including a respirator with appropriate filter cartridges.
- E. Allow only authorized persons wearing appropriate PPE in the affected area.
- F. Review Safety Data Sheets (formerly MSDSs) for the characteristics of the leaking substance. Provide the information to the outside agencies when they are notified.
- G. For oil leaks, follow the SPCC procedure.
- H. If leak is discovered at the Hazardous Waste Accumulation Area, remediate the situation using appropriate oil or chemical spill kit. Notify the Environmental Specialist as soon as possible. (See attached locations of spill clean-up equipment)
- I. Hazardous material spill clean-up is to be done by a contractor except any spill that is of low hazard or that is considered to be small quantity. Small quantity based on only requires one spill kit to cleanup from within containment and is below reportable quantity (RQ).
- J. All spill cleanup wastes must be stored and disposed of in accordance with the facility waste management plan.
- V. Establish a communication center (if required)
 - A. In the event of calling 911, secure the plant perimeter.
 - B. All plant activities will be recorded in chronological order in the CECP Logbook, including but not limited to equipment problems, personnel injuries, environmental impact and notifications and updates on station status and generation availability.
- VI. Regulatory Notifications & Reporting

The Environmental Specialist will make all notifications to regulatory agencies. If unable to reach the Environmental Specialist, the Plant Manager or NRG Regional Environmental Support contact (see Emergency Contacts) will make the following notifications:

Verbal Notifications					
Agency	Circumstances	When to Report	What to Report	Phone	Citation
911	Imminent threat to public health	Immediately	Detailed information about spill and any injuries or safety incidents involved.	911	-

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San Diego County Department of Environmental Health Hazmat Division (CUPA)	Any release of oil, hazardous material or waste (including any reported to the NRC or OES) to the environment.	Immediately	Spill information and any other details 858-505-66 requested.	557 23 CCR 2650-2652; 19 CCR 2701-2705
Agency	Circumstances	When to Report	What to Report Phone	Citation
California Office of Emergency Services (Cal OES)	A significant release or threatened release of oil, hazardous materials or hazardous waste, or sewage including fire or explosions which could threaten human health, or the environment. All releases of 42 gallons or more from a tank. All hazardous liquid pipeline releases.	Immediately	 The exact location of the release or threatened release; The name of the person reporting the release or threatened release; The hazardous materials involved in the release or threatened release; An estimate of the quantity of hazardous materials involved; and If known, the potential hazards presented by the hazardous material involved in the release or threatened release; 	- 2705; 23 CCR 2250-1, 2260; HSC 25501 (o), (p)
National Response Center (NRC)	All releases of oil or hazardous materials equal or exceeding the reportable quantity and any releases of oil or hazardous materials to water (i.e. to our Storm Drains).	Immediately	 The chemical name or identity of any substance involved in the release. An indication of whether the substance is an extremely hazardous substance. An estimate of the quantity of any such substance that was released into the environment. The time and duration of the release. The medium or media into which the release occurred. Any known or anticipated acute or chronic health risks associated with the emergency and, where appropriate, advice regarding medical attention necessary for exposed individuals. Proper precautions to take as a result of the release, including evacuation (unless such information is readily available to the community emergency coordination pursuant to the emergency plan). The names and telephone number of the person or persons to be contacted for further information. 	- 40 CFR 110.6, 302.4, 355.40
Department of Toxic Substances Control (DTSC)	All hazardous waste tank releases and/or containment systems. (release of Fuel Gas Compressor Drain Tank)	Immediately	Spill information and any other details 800-728-60 requested.	66265.56
US Coast Guard	All releases of oil or hazardous materials/hazardous waste to water (storm drains)	Immediately	Spill information and any other details 619-278-70 requested.	033 33 CFR 153.201 - 153.203

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Regional Water Quality Control Board <i>(San Diego)</i>	All releases of oil or hazardous materials/hazardous waste to water (storm drains)	Immediately	Spill information and any other details requested.	619-516-1990	23 CCR 2260 Reporting Requirements
SDG&E Gas	Release of Natural Gas	Immediately	Spill information and any other details requested.	1-800-411- 7343	-
California Public Utilities Commission	For release of Natural Gas (call SDG&EGas 1st)	Immediately	Spill information and any other details requested.	800-235-1076	-
California Energy Commission	Report any incident that requires outside agency reporting or response.	As soon as it is safe to report.	 Health and safety impacts on the surrounding population; Property damage off-site; Response by off-site emergency response agencies; Serious on-site injury; Serious environmental damage; or Emergency reporting to any federal, state, or local agency. 	916-651-2072	CEC License COM-13
Global Infrastructure Partners	Report any environmental emergency.	As soon as it is safe to report	Any Environmental Emergency	Michael O'Toole: 312-835-8527	-

Written Follo	Written Follow-Up Reports				
Agency	Circumstances	When to Report	What to Report	Submit To	Citation
California Office of Emergency Services (Written Report)	A significant release or threatened release of oil, hazardous materials or hazardous waste, or sewage including fire or explosions which could threaten human health, or the environment. All releases of 42 gallons or more from a tank. All hazardous liquid pipeline releases.	As soon as practicable following a release, but no later than 30 days from the date of the release.	Emergency Release Follow-up Notice Reporting Form (See addendum 5).	Chemical Emergency Planning and Response Commission (CEPRC) 3650 Schriever Ave, Mather, CA 95655	19 CCR 2705
EPA Region I X	Any discharge of 1,000 gallons or more of oil; or second discharge of 42 gallons or more of oil over a 12-month period.	Written follow-up within 60 days	See form and instructions in SPCC Plan.	See form and instructions in SPCC Plan.	40 CFR 112.4
California Energy Commission	 Health and safety impacts on the surrounding population; Property damage off- site; Response by off-site emergency response agencies; Serious on-site injury; Serious environmental damage; or Emergency reporting to any federal, state, or local agency. 	Written follow-up within 1 week.	See COM-13	CEC CPM	CEC License COM-13

*NOTE: The timing on verbal notifications is to call "as soon as there is knowledge of any release." The priority is on timeliness. However, a balance must be struck between acting to report and acting to contain and prevent damage. Call in the report as soon as possible and not less than an hour from when the incident occurred.

The report (and any emergency response) cannot be delayed in order to provide the complete information. The report can always be modified at a later date.

VII. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

VIII. Required Training

- A. Spill Prevention Control & Countermeasure (SPCC):
 - 1. Required For: 40 CFR §112.7(f). Oil storage and oil filled equipment. Required and enforced by the EPA. All personnel handling oil or responsible for conducting SPCC inspections must be trained. Appropriate personnel who are responsible for the operation and maintenance of equipment in the effort to prevent oil discharge must also receive training.
 - 2. Frequency: Within 6 months of hire or prior to working with oil or fuel materials unsupervised. Prior to a new assignment or change in operation. Refresher training is required annually.
 - 3. Must Include: Initial training for appropriate personnel covers the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules and regulations; general facility operations; and the contents of this SPCC Plan.

Appropriate personnel also receive annual discharge prevention briefings to assure adequate understanding of this SPCC Plan. Such briefings highlight and describe past reportable discharges or failures, malfunctioning components, and any recently developed precautionary measures

- B. CalARP RMP (Risk Management Plan)
 - Required For: 19 CCR §2755.4. Aqueous Ammonia 19%. Required by the (California Accidental Release Prevention) Program and enforced by the San Diego County Department of Environmental Health Hazardous Materials Department (CUPA). All personnel involved in operating or maintaining the ammonia process must be trained.
 - 2. Frequency: Before an employee is allowed to operate or maintain covered processes and prior to a change in assignments. Refresher training is required every 3 years.
 - 3. Must Include: Safety information, a Hazard review, Operating procedures, Maintenance requirements, Compliance audits and Training requirements.
- C. Hazardous Materials (HMBP) & Hazardous Waste

- 1. Required For: 19 CCR §2732. Hazardous Materials Business Plan. All personnel must be trained.
- 2. Frequency: At the time of hire and prior to new assignments or changes in operation. Refresher training is required annually.
- 3. Must Include: Internal Alarm/Notification, Evacuation/Reentry Procedure and Assembly Point Locations

Emergency incident reporting, External Emergency Response Organization Notification, Locations and Contents of Emergency Response/Contingency Plan, Facility Evacuation Drills, Safe Methods for Handling and Storage of Hazardous Materials, Location and Proper Use of Spill Equipment, Spill Procedures/Emergency Procedures, Hazards of Chemicals Exposed to and Hazardous Waste Management.

IX. Definitions

- A. Personnel training provided: First Responder, Operations Level (FRO). FRO are individuals who respond to releases or potential releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. They are trained to respond in a defensive fashion without trying to stop the release. Their function is to contain the release from a safe distance, keep it from spreading, and prevent exposures.
- B. Hazardous material: Any substance that may result in adverse effects on the health or safety of employees.
- C. Discharge: Includes but not limited to, spilling, leaking, pumping, pouring, emitting, emptying, or dumping of material.
- X. Spill kit locations see Addendum 6 (Map of CECP Emergency Equipment Locations)

AMMONIA RELEASE

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person to make call
Medical emergency and ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk – if operation of the unit(s) is affected.	626-307-4410	Operating Authority
NRG Spokesman: Manager, Communications (Chris Rimel) – for requests from the media/public about the situation	713-537-5388	Plant Management
San Diego County Department of Environmental Health Hazmat Division (CUPA)	858-505-6657	Environmental Specialist
California Office of Emergency Services (O.E.S.)	800-852-7550	Environmental Specialist
National Response Center	800-424-8802	Environmental Specialist
Chemical Safety and Hazard Investigation Board (CSB)	202-261-7600 (or report@csb.gov)	Environmental Specialist
California Energy Commission Anwar Ali	916-651-2072	Environmental Specialist
Department of Toxic Substances Control	800-728-6942	Environmental Specialist
San Diego Water Quality Control Board	619-516-1990	Environmental Specialist
US Coast Guard	619-278-7033	Environmental Specialist
SDG&E (gas service/leak)	1-800-411-7343	Environmental Specialist
California Public Utilities Commission	800-235-1076	Environmental Specialist
American integrated Services- 24 Hour Spill Clean Up/Removal	888-423-6060	Environmental Specialist
Global Infrastructure Partners – Michael O'Toole	312-835-8527	Environmental Specialist

- X. This procedure is designed to be used in conjunction with the "Risk Management Plan", "Spill Prevention, Control and Countermeasure Plan", "Hazardous Material Business Plan", Security Plan, and "Waste Management and Minimization Plan."
- XI. Discovery

All ammonia releases are to be reported to the Control Room. The person who discovers a hazardous material release shall immediately inform the Operating Authority through radio or phone and report the following information:

D. Exact location, time, duration, quantity (estimated), level of containment, media into which the release occurred, proximity of storm drains and any other items of significance that can be ascertained in a few seconds. Wind direction should also be noted.

E. Names of personnel exposed to or potentially injured by hazardous material.

- F. Any apparent conditions or hazard, which could increase the level of danger/exposure in the area of the hazardous material release.
- XII. Notification
 - E. The Operating Authority shall assess the severity of the material release, the appropriate responding method for the situation, and shall determine at that point if 911 should be called.
 - F. If a health hazard exists, notify station personnel of the incident over the public address system and/or implement the Personnel Evacuation Procedure outlined in this Emergency Action Plan.
 - G. After the situation is assessed and/or emergency notification of 911 is made, then notify the O&M Supervisor. After the O&M Supervisor provides the Plant with necessary operational instructions, the O&M Supervisor will contact the CECP Environmental Specialist who will make any necessary internal and external agency notifications (in accordance with section VI of this procedure) and arrange for clean-up if necessary. CECP EH&S Specialist is unavailable, contact NRG regional environmental support (see emergency contact list) for assistance immediately.

The following information should be relayed: Exact location, time, duration, quantity, all known substances involved in the release, level of containment, media into which the release occurred, proximity of storm drains and any other items of significance that can be ascertained in a few seconds. The O&M Supervisor will also notify the Plant Manager.

H. If in case of a severe ammonia-leaking incident occurs when only a few personnel are in the plant, personnel will close all doors and shut off the Air Conditioning and ventilation to prevent ammonia vapors from entering the Control Room. Workers will call 911 to notify the Fire Department Hazardous Material Team. Worker will evacuate to the offsite muster area.

XIII. Assessment and response to a hazardous material leak

- K. Types of leaks:
 - 3. For a release from a line or at a skid, make an attempt to stop the leak if it can be done safely. If the leak is downstream of a block valve and the valve can be safely shut, shut it off and barricade the leak. Do not attempt to plug or stop any chemical leaking from a tank or line other than attempting to quickly stop it by closing a block valve located upstream of the leak. Barricade a perimeter a safe distance from the leak and stay away. Call 911 to ask for assistance with the leak.
 - 4. Releases of bulk storage ammonia
 - i. If the release cannot be stopped or is likely to breach the secondary containment, call 911 immediately to report the spill to the Carlsbad Fire Department.
 - If the storage tank has a leak, call in a vacuum or tank truck, as required, to allow the storage tank to be drained and flushed prior to repair. Dispose of all Hazardous Waste to an approved waste disposal site.
 - iii. If the chemical is leaking from the piping system, close the tank discharge valve and stop all feed equipment.
 - iv. For a release during offloading operations immediately shut off the chemical supply from tanker (i.e., close dispenser; isolate supply hose).
- L. If personnel can smell ammonia, if safe, barricade to isolate the area and stay upwind.
- M. Spill kits for ammonia are located at each power block and the ammonia offloading area. Ammonia spill kits consist of absorbent spill pads (hydrophilic) and a chemical compatible container. DO NOT DILUTE spills. Any ammonia or ammonia cleanup materials must be placed in a waste compatible container and placed in the hazardous waste accumulation area onsite depending disposal.
- N. For all operations that are to be performed, personnel must wear proper personal protective equipment (PPE), including a respirator with appropriate filter cartridges.
- O. Allow only authorized persons wearing appropriate PPE in the affected area.

- P. Review Safety Data Sheets (formerly MSDSs) for the characteristics of the leaking substance. Provide the information to the outside agencies when they are notified.
- XIV. Establish a communication center (if required)
 - A. In the event of calling 911, secure the plant perimeter.
 - C. All plant activities will be recorded in chronological order in the CECP Logbook, including but not limited to equipment problems, personnel injuries, environmental impact and notifications and updates on station status and generation availability.
- XV. Operations under state of emergency from ammonia spill
 - a. Corrective Actions
 - i. The Operating Authority is to have an Operator(s) to assess the incident scene to determine the situation.
 - ii. Communicate the findings with the Control Room.
 - iii. Execute internal corrective measures that have been directed by the Operating Authority such as:
 - iv. De-energization of electrical systems
 - v. Shutting down process systems
 - 1. Including isolating ammonia piping using isolation valves.
 - vi. Removing equipment/system from service
 - vii. Adjusting station/unit/equipment loading based on the incident
 - b. Ammonia Event Review
 - i. All station safety systems must be identified, and a plan developed to restore them to service.
 - ii. Environmental impact must be determined.
 - iii. Applicable agencies must be notified.
 - iv. Fire/Rescue/HazMat equipment must be inventoried and returned to service.
 - v. Post incident critique must be conducted.
 - vi. Submit the post review report of the CSF to applicable station and corporate personnel.
 - c. Starting up after an emergency
 - i. If the ammonia is system is taken out of service either for the entire plant or one unit is isolated, there are procedural steps

that must be followed before the element/system can be put back into service.

- 1. The system must be determined to be in normal working condition.
- 2. Corporate environmental must be involved in the decision.
- 3. If requested or determined necessary, regulatory agencies will be involved in the change of operational status.

XVI. Regulatory Notifications & Reporting

The Environmental Specialist will make all notifications to regulatory agencies. These notifications are detailed in the Hazardous Materials Spills section VI.

XVII. Media reporting

To ensure consistency in the release of information, a single NRG spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

XVIII.Required Training

The required training is the same as detailed in Hazardous Materials Spills section VIII.

EARTHQUAKE

(Major where damage is suspect)

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
NRG Spokesman: Manager, Communications (Chris Rimel) – for requests from the media/public about the situation	713-537-5388	CECP Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee
California Energy Commission Anwar Ali	(916) 651-2072	CECP Environmental Manager

I. Steps to Follow During an Earthquake

A. If you are Indoors: "DROP, COVER and HOLD ON"

- 1. Stay there **don't rush outside.**
- 2. Remain calm take cover under a sturdy table or desk or move against an interior wall and protect your head with your arms. Do not stand in a doorway.
- 3. Stay away from tall fixtures, windows and exterior walls.
- 4.
- B. If you are Outdoors:
 - 1. Stay away from fallen electrical wires.
 - 2. Move away from high structures, lamp posts, and chemical containers.

- II. Assess Plant Status
 - A. Determine if earthquake was large enough to require emergency response.
 - B. Notify the Plant Manager or his designee and NRG Energy representatives.
 - C. Inspect the plant areas and equipment with emphasis given to critical equipment.
 - D. Furnish an assessment of plant damage and personnel status to the Plant Manager and NRG Energy representatives. (This report will be updated following a more thorough investigation.)
- III. Determine Corrective Action (If required)
 - A. Identify problems where assistance is required from outside agencies
 - B. Identify and isolate potential sources of danger; i.e. natural gas, chemical tanks, high voltage lines, etc.

Note: Due to widespread devastation, outside assistance may not be readily available. Therefore, the station could be required to be self-sufficient for a period of time. In such case follow the Personnel Required to Stay On-site during an Evacuation Procedure in this Emergency Action Plan.

IV. Account for all Personnel

If the plant was a not evacuated, all personnel shall be account for and report the results to the Control Room. Designated Station Contacts shall account for any contractors, visitors, delivery persons, gas company employees, vendors, etc. who are not part of the resident work force.

Note: If the earthquake necessitates the evacuation of a building, personnel shall report to their designated evacuation assembly area shown on the station map.

- V. Assemble the Injured at a Central Location
 - A. Administer immediate first aid to injured personnel until the paramedics are at the plant.
 - B. If capable of being moved, transfer the injured to a safer area.
- VI. First Aid Supplies

The first aid supplies, burn kit, and AED area located in the Control Room.

VII. Control Panic and Confusion

- A. Remain Calm reassure others
- B. Give specific job assignments
- C. If a supervisor is not available, the Operating Authority will assume his responsibilities
- D. All employees remain on the job unless their supervisor releases them from duty.
- VIII. Reassess the Situation (Equipment and Personnel Status)

Effective use and condition of personnel should be reviewed. All structures and equipment shall be inspected for possible damage. This includes but is not limited to:

- A. Injured Personnel
- B. Transformer casings, bushings and foundations
- C. Fuel gas lines and connections
- D. Chemical and water tanks
- E. Turbine and Generator structures and foundation supports
- F. Forward this updated report to the Plant Manager or his representative and others necessary persons.
- IX. Determine if Hazardous Chemicals are Involved
 - A. Barricade the affected area
 - B. Review the Safety Data Sheets (SDSs) for chemical hazards, i.e. flashpoint, extinguishing agent, health hazard, first aid, etc.
 - C. Furnish outside agencies SDSs. This includes fire department, paramedics and hospital.
- X. Organize Team to Contain the Situation
 - A. Evaluate problems associated with online units and units removed from service.
 - B. Identify and isolate dangerous areas.
 - C. Provide personnel, engineering and materials to repair damaged equipment.
- XI. Call out Additional Personnel as Required
- XII. Assess Damage for Media Reporting Purposes

To ensure consistency in the release of information, a single qualified spokesman will handle interface with news media. For CECP Energy Station, the spokesman will be Senior Director of Wholesale Public Relations and Media Relations. Any telephone calls or inquiries relating to the incident will be directed to this person.

- XIII. Establish an Emergency Communication Center at the Control Room, if necessary.
 - A. Plant activities during an emergency will be recorded in chronological order in the emergency communication center.
- XIV. Secure Plant Perimeter
 - A. Operations will be responsible in performing this function
 - B. Only authorized persons will be allowed on site.
 - C. Secure plant perimeters, direct traffic, document all personnel entering and leaving station and limit access to authorized personnel only.
 - D. Contact the family members of the injured who were transported to hospitals.
- XVI. Establish On-Site Teams for Around the Clock Coverage (if- required)

During the crisis, management personnel will supervise and coordinate around-the-clock teams through the unstable and transition periods. This surveillance will continue until conditions stabilize and there is no further danger to personnel and equipment.

HIGH WIND CONDITIONS

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
NRG Spokesman: Manager, Communications (Chris Rimel) – for requests from the media/public about the situation	713-537-5388	CECP Manager

Note: Plant structures are designed to withstand high wind but considerable plant damage could occur with winds of lesser magnitude.

- I. Assess Plant Status
 - A. If high winds occur, notify the persons on the Contact List above to alert them of potential plant problems and update them on weather conditions in the area.
 - B. Notify the persons if the station sustains major damage, is disabled, or placed on restricted load due to the wind.
 - C. In the event of high winds:
 - 1. Check and monitor condition of all structures, especially those constructed of fiberglass or metal. Inspections should be conducted from the upwind side of any structure if possible.
 - 2. Close all doors tightly to prevent damage to mechanical and electrical apparatus from blowing particles.
 - 3. Call out operating and maintenance personnel as required for assistance.
 - D. Precautions
 - 1. Wear close fitting safety glasses
 - 2. Avoid high areas
 - 3. **Don't use the overhead crane**

4. Exercise caution when driving vehicles. Blowing particles can create poor visibility.

BOMB THREAT

Important Contact List	(for more – see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency, Ambulance and Police	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady)	(713) 537-2730	CECP Manager
NRG Spokesman: Manager, Communications (Chris Rimel) – for requests from the media/public about the situation	713-537-5388	CECP Manager
California Energy Commission Anwar Ali	(916) 651-2072	CECP Environmental Manager
Federal Bureau of Investigation (FBI)	(310)477-6565	Operating Authority or CECP Manager

Note: Bomb threats may be received by telephone, mail, e-mail, or other means.

I. Discovery

- A. For bomb threats received by telephone, the person who receives the threat shall:
 - 1. Remain calm and try to keep the caller talking.
 - 2. Record all information and exact comments made by the caller accurately. Fill out the Bomb Threat Checklist AS COMPLETELY AS POSSIBLE!
 - 3. Do not transfer the bomb threat call to another employee.
 - 4. Do not hang up first.
- B. For bomb threats received by mail, report it to the management.
- C. If a suspicious item has been sent to the facility by mail or delivery service, relocate it to a nearby segregated area. Since the item has already been handled by many people, it should be safe for relocating.
- II. Notification

- A. Report the threat to the CECP Management IMMEDIATELY.
- B. Call 911 to report the threat to the local law enforcement.
- C. Notify the dispatcher, if the unit operation is affected.
- D. Contact the Corporate Security Manager.
- III. Assessment CECP management will evaluate the available information and make appropriate responding procedures whether:
 - A. To have the employees to move to the areas where they typically receive daily work assignments for check-in and for further instructions.
 - B. To activate the plant Emergency Notification System to evacuate the plant.
 - C. The personnel are to return to their workstations when the plant management determines it is safety to do so.
- III. Response
 - A. Employees/contractors shall follow directions issued by two-way radio system or by supervision in charge.
 - B. Visitors/vendors are the responsibility of the personnel they are visiting (Station Contact).
 - C. Assign personnel to monitor/control automotive and pedestrian traffic in and out of the facility.
 - IV. CECP management is to decide if the personnel would need to search the plant to look for a suspicious package that may contain an explosive material. Refer to section 5.1 Bomb Threat Policy in the Operations Security Plan and the NRG Corporate Policy for Bomb Threat Response (SEC-2911) for the threat evaluation procedures.
- V. Establish an Emergency Communication Center (if necessary) at the Control Room. Station activities during an emergency will be recorded in chronological order in the emergency communication center.
- VI. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

TERRORIST ACTIVITY

Where to call	Phone number	Person making the call
Emergency. Ambulance and Police	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady)	(713) 537-2730	CECP Manager
NRG Spokesman: Manager, Communications (Chris Rimel) – for requests from the media/public about the situation	713-537-5388	CECP Manager
California Energy Commission Anwar Ali	(916) 651-2072	CECP Environmental Manager
Federal Bureau of Investigation (FBI)	(310)477-6565	Operating Authority or CECP Manager

Note: It is the CECP **Management's** objective to provide maximum protection to station personnel, consistent with providing electrical service to our customers during periods of disturbance. It is expected that in such instances, law enforcement agencies will establish boundaries delineating the trouble area(s) and will set forth rules for limited access. CECP uses a three-level system of security, which should be adhered to in time of uncertainty.

I. Discovery

The person who discovers a terrorist activity shall immediately inform the Control Room with the following information:

A. Discoverer's name and location.

- B. Exact location of terrorist activity.
- C. Any apparent conditions or hazards that could increase the level of danger.
- II. Levels of system of security
- Level 3 When there is an increased possibility of a terrorist act, but the nature and extent of the act is unpredictable.

- A. Ensure ability to identify all on site personnel.
- B. Check the identification of all visitors and contractors. Do not grant access unless you are absolutely sure the person has legitimate identification.
- C. Increase spot checks of vehicles, people, mail, packages, briefcases, etc. entering and leaving the site.
- D. Report suspicious activity (e.g., people, vehicles, packages, etc.) to the supervisor.
- E. Frequently check areas where hazardous substances are stored and ensure storage-tank valves are protected. Check containment systems around storage facilities.
- F. Check and repair, as necessary, fences, gates and lighting.
- G. Use a minimum number of access points and close and lock the points not used.
- H. Contact firms that provide guard services to your site and ask what steps they are taking to furnish guards on short notice.
- I. Contact emergency agencies and furnish a list with phone numbers of critical site personnel.
- J. Ensure emergency agencies serving your location have directions to your site.
- K. Request periodic patrol checks from the police agency serving your facility.
- L. Look ahead to requirements associated with Levels 1 and 2.
- Level 2 When the threat of a terrorist act is more predictable, or terrorist activity exists.
 - A. Review requirements associated with Level 3.
 - B. Communicate information to employees and encourage community security awareness of suspicious activity.
 - C. Evaluate assigning security guards to sites, especially during nondaylight hours, weekends and holidays, and ensure guards have specific direction on their duties.
 - D. Check, to the extent possible, all vehicles, people, mail, packages, briefcases, etc. entering and leaving the site and placard visiting vehicles indicating they have been checked by security.

- E. Assign areas of the site to employees/guards and require periodic inspections of the areas for suspicious items and activity.
- F. Advise all personnel to inspect deliveries, packages, mail, etc. and notify the supervisor if there is any concern.
- G. Report trespassers.
- H. Develop steps that need to be taken to seal off an area, if prudent (i.e. collision barriers, heavy equipment, etc.).
- I. Prohibit non-company vehicle parking within 30 yards of critical equipment.
- J. Practice emergency action plans.
- K. Increase communication with the police agency serving your facility and request more frequent patrol checks.
- L. Review requirements associated with Level 1.
- Level 1 When a terrorist act is imminent or has occurred.
 - A. Review requirements associated with Levels 2 and 3.
 - B. Refuse access if people do not have positive identification or do not have a legitimate need to enter the site.
 - C. Reduce site ingress and egress points to an absolute minimum.
 - D. Check all vehicles (including inside, outside and undercarriage), people, mail, packages, briefcases, etc. entering and leaving the site and placard vehicles indicating they have been checked by security. If possible, **offload all vehicles outside the site's** perimeter fence and move the deliveries inside the fence using company vehicles and personnel.
 - E. Use security guards round-the-clock.
 - F. Guards should continually check the perimeter fence and critical facilities while staying in communication with site personnel via two-way radio.
 - G. Install collision barriers around critical facilities, if prudent.
 - H. Request consistent patrol checks from the police agency serving your facility.
- III. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

INTRUSION

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency & Police	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady)	(713) 537-2730	CECP Manager

Note: Intrusion is defined as an act of an unauthorized person or persons entering station property.

- I. Notification
 - A. Station employees should monitor the intruder's movements in the plant area but do not attempt to physically restrain the individual(s).
 - B. Call the persons on the above list, including 911 regarding the **intruder's movements, location, activities and physical attributes** such as carrying a weapon or handbag.
 - C. The location of anything dropped or left behind by the intruder should be documented and left for local authorities to inspect and remove.

Note: Avoid confrontation at all cost.

SABOTAGE REPORTING

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	(302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady)	(713) 537-2730	CECP Manager
NRG Spokesman: Manager, Communications (Chris Rimel) – for requests from the media/public about the situation	713-537-5388	CECP Manager
California Energy Commission Anwar Ali	(916) 651-2072	CECP Environmental Manager
Federal Bureau of Investigation (FBI)	(310) 477-6565	Operating Authority or CECP Manager

Important Contact List (for more – see Emergency Contact List)

Note: Sabotage is an intentional obstruction of an activity, or willful and malicious destruction of other's property. It is aimed at weakening a government or corporation through subversion, obstruction, disruption, or destruction. One who engages in sabotage typically tries to conceal their identities because of the consequences of their actions.

- I. When there is an increased possibility of a sabotage act, but the nature and extent of the act is unpredictable:
 - A. Identify all plant personnel.
 - B. Check the identification of all visitors and contractors. Do not grant access to the plant unless the person has legitimate identification.
 - C. Increase spot checks of vehicles, people, mail, packages, briefcases, etc. entering and leaving the site.
 - D. Report suspicious activity (e.g., people, vehicles, packages, etc.) to the station management.
 - E. Frequently check areas where hazardous substances are stored and ensure storage-tank valves are protected. Check containment systems around storage facilities.

- F. Check and repair, as necessary, fences, gates and lighting.
- G. Use a minimum number of access points and close the points not used.
- H. The emergency responders are those who trained in the Hazardous Waste Operations, First Responder Level (HAZWOPER).
- I. Contact emergency agencies and furnish a list with phone numbers of critical plant personnel.
- J. Ensure emergency agencies serving the station location have directions to the station.
- K. Request periodic patrol checks from the police agency serving CECP area.
- L. Be cautious how information pertaining to security is communicated to employees and the media.
- M. Look ahead to requirements associated with Security Levels 1 and 2 (see the Terrorist Activity procedure).
- II. When a sabotage event is imminent or has occurred.
 - A. Refuse access if people do not have positive identification or do not have a legitimate need to enter the station.
 - B. Reduce station ingress and egress points to an absolute minimum.
 - C. Check all vehicles (including inside, outside and undercarriage), people, mail, packages, briefcases, etc. entering and leaving the station and placard vehicles indicating they have been checked. If possible, offload all vehicles outside the **station'**s perimeter fence and move the deliveries inside the fence using company vehicles and personnel.
 - D. If can be arranged, use security guards round-the-clock.
 - E. Guards should continually check the perimeter fence and critical equipment while staying in communication with station personnel via two-way radio.
 - F. Request consistent patrol checks from the police agency serving CECP.
- III. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant.

FALL RESCUE PLAN

Important Contact List	(for more - see En	nergency Contact List)
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Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant injuries	(302) 381-6332 Cell	CECP Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee
Director, Operational Safety (Michael Hagenmayer) - This person will notify Cal/OSHA, if applicable	(315) 349-2329 Office (202) 213-9109 Cell	Safety Specialist
California Energy Commission Anwar Ali	(916) 651-2072	CECP Environmental Manager
Division of Occupational Safety & Health (Cal/OSHA) - Serious employee injury or fatality	(909) 383-4321	Regional Safety Manager

- I. In the event a person falls while wearing a fall arresting device and is trapped in their harness above ground level, the following should be implemented:
 - A. Notify the Control Room. Give as much information as you can, i.e. location, person involved, injury status, level of consciousness, etc.
 - B. The Operating Authority is to call 911. Place an operator at the main gate to direct the rescue vehicles.
 - C. If any contractors have the rescue equipment and trained rescuer on-site, attempt the rescue. While waiting for the fire department personnel to arrive, attempt to rescue the person without exposing additional personnel to hazards by providing ladder, man lift, forklift, etc. to help the victim to support himself.
 - D. Administer first aid as needed.
- II. Time is critical.

Depending on the person, loss of consciousness, serious injury and/or death can occur in less than 20 minutes. Rescue of an unconscious person is much more difficult, therefore call 911 immediately and provide relevant information about the incident so that the fire department can bring appropriate equipment to the station.

WATER RESCUE

Important Contact List	(for more - se	e Emergency	Contact List)

Where to call	Phone number	Person making the call
Emergency & Ambulance	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee
Director, Operational Safety (Michael Hagenmayer) - This person will notify Cal/OSHA, if applicable	(315) 349-2329 Office (202) 213-9109 Cell	Safety Specialist
Division of Occupational Safety & Health (Cal/OSHA) - Serious employee injury or fatality	(909) 383-4321	Regional Safety Manager

- I. In the event a person falls into water (Pit/Vault/Tank) and needs to be rescued:
 - A. Notify the Control Room. Give as much information as you can, i.e. location, person involved, injury status, level of consciousness, etc.
 - B. Call 911. Place an operator at the main gate to direct the rescue vehicles.
 - C. Do NOT enter the water to assist. If the person in the water is frantic, he/she may drown the rescuer.
 - D. Assist him/her out of the water.
 - E. Administer first aid as needed.

ACTI VE SHOOTER

Important Contact List (for more - see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency and Police	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant damages	((302) 381-6332 Cell	CECP Manager
Corporate Security (Aaron Malady)	(713) 537-2730	CECP Manager
NRG Spokesman: Manager, Communications (Chris Rimel) – for requests from the media/public about the situation	713-537-5388	CECP Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee
California Energy Commission Anwar Ali	(916) 651-2072	CECP Environmental Manager
Federal Bureau of Investigation (FBI)	(310) 477-6565	Operating Authority or CECP Manager

Note: Active shooter incidents are often over in 10 -15 minutes before law enforcement arrives. Typically, law enforcement is dispatched for final resolution of the event.

The following steps are actions to be taken if an active shooter is identified onsite. Also refer to the Operations Security Plan for steps to report, evacuate, and respond to an active shooter.

- I. Immediate actions to take:
 - A. If any employee observes an armed person or active shooter within the plant, notify the Unit Control Room immediately, if possible and safe to do so.
 - B. The Operating Authority receiving the notification of the active shooter is to immediately call 911 to report:
 - 1. Location of the active shooter.
 - 2. Number of shooters.
 - 3. Physical description of shooters.

- 4. Number and type of weapons held by shooters.
- 5. Number of potential victims at the location.
- C. Notify and warn on-site personnel immediately using the twoway radio system (while the Operating Authority is calling 911, another person should make this notification if he/she is available):
 - 1. Notify an armed person/active shooter has been observed.
 - 2. The specific location of the active shooter in the plant and his/her description.
 - 3. Determine a location where personnel can safely evacuate to and notify the personnel without alerting the active shooter of the location.
- D. Report the situation to the plant management, if safe to do so.
- II. Responding actions to the active shooter
 - A. If possible, evacuate the area and get to safety:
 - 1. Remain calm.
 - 2. Take immediate action.
 - 3. Evacuate staff and personnel via an evacuation route to a safe area.
 - 4. Leave your belongings behind.
 - 5. No matter the circumstances, if you decide to evacuate, DO NOT attempt to stop and monitor any equipment while exiting.
 - B. Shelter in place, if unable to evacuate:
 - 1. Hide in area out of the shooter's view.
 - 2. Block/barricade entry to your hiding place and lock all doors.
 - 3. Silence your cell phone while hiding.
 - 4. In the event that an Operating Authority determines that an active shooter is attempting to or has entered the Control Room, the Operating Authority is authorized to:
 - a. Barricade in place if this is determined to be the best option, or
 - b. Shut down any operating units (Trip) and seek a safe location or evacuate the plant.
 - C. Act against the shooter only in a last resort:
 - 1. Only when your life is in immediate danger.

- 2. Attempt to incapacitate the shooter and act with physical aggression.
- III. Make notifications to the persons on the above Contact List, if possible and safe to do so.
- IV. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant. The media will not be allowed in the plant.

- V. Incident after-action
 - A. Account for all personnel at a designated assembly area.
 - B. Notification of families of personnel affected by the incident.
 - C. Refer visibly shaken personnel to EAP providers.
 - D. Identify and fill any operational gaps left by the incident.
 - E. Prepare lessons learned report.

PERSONNEL REQUIRED TO STAY ON-SITE DURING AN EVACUATION

Important Contact List (for more – see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee

I. Purpose

This procedure is for the personnel who are required to stay in the plant during an emergency evacuation to be self-sufficient.

II. Condition

Because damages to the building and equipment can occur during an emergency situation, employees shall only be required to stay in the plant when it is safe to do so.

III. The number of personnel to stay

If possible, more than one personnel are to be in the plant at a given time during an emergency and they are to communicate to be updated of each other's safety.

IV. Sleep

Find a location where the building structure is safe to use as a shelter. Take turns to sleep to ensure at least one person is monitoring the surrounding.

- V. Emergency food and water are kept in the warehouse.
- VI. Emergency kits located in the warehouse include the following:
 - A. Batteries more in the library at the front of the admin building
 - B. Radio
 - C. Dust masks
 - D. Sleeping bags
 - E. Garbage bags
 - F. Toiletries
 - G. Raincoats

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- H. Writing tablets and pens
- I. Flashlights in the charging area in the Control Room
- J. Medical supplies in the first aid kits in the Control Room and Warehouse Building.

CONFINED SPACE EMERGENCY RESCUE

Where to call	Phone number	Person making the call
Emergency	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
Director, Operational Safety (Michael Hagenmayer) - If anyone is injured. This person will notify Cal/OSHA, if applicable	(315) 349-2329 Office (202) 213-9109 Cell	Safety Specialist
California Energy Commission Anwar Ali	(916) 651-2072	CECP Environmental Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee

Note:

- 1. Under any circumstances, no station personnel shall enter a Permit-Required Confined Space (PRCS).
- 2. All contractors and station personnel must comply with NRG Confined Space and LOTO procedures when entering in any confined space.
- 3. Try various methods to make a PRSC safer to enter as a Non-Permit Required Space or as an Alternative Entry Procedure.
- 4. Any entries into PRCS are to be done by trained contractors.
- 5. Prior to entering PRCS, a detailed rescue plan is required.
- 6. Trained and qualified rescuers with rescue equipment are required to be at the PRCS prior to anyone entering it.

I. Discovery

The person who discovers an emergency in a confined space shall immediately inform the Control Room with the following information.

A. Discoverer's name and location.

- B. Exact location of the confined space needing a rescue.
- D. Type of emergency or injuries if any.
- E. Any apparent conditions or hazards that could increase the level of danger (i.e., chemicals, flammable liquids or gases).
- F. Description of any action being taken or about to be taken.

- II. Notification
 - A. The Operating Authority is to:
 - Gather information from the person reporting the emergency. Use the Emergency Response Information Form (addendum 1).
 - 2. Notify 911, if necessary.
 - 3. Notify the station management.
- III. Confined Space Rescue
 - A. Rescuers
 - 1. Unless the contractor has a written rescue plan and trained rescuers onsite, no one is allowed to enter a PRCS.
 - 2. When anyone is entering a Permit Require Confined Space (PRCS), trained rescuers (contractors) are required to be at that confined space ready to provide a rescue. Only trained and qualified rescuers are to perform any rescue activities.
 - 3. For a non-Permit Required Confined Space, the qualified rescuers (contractors) are to perform the rescue, if they are available in the station. If not, the CO is to call 911 to request the fire department personnel to handle the rescue.
 - B. Rescue procedure:
 - 1. Barricade the affected area.
 - 2. The CO, Confined Space Entry Supervisor, and rescuers are to evaluate the hazards in the confined space before attempting a rescue.
 - 3. The CO and the Entry Supervisor are to verify the rescue procedure.
 - 4. Rescuers are to attempt a non-entry rescue using a tripod with retrieval system (harness, lanyards and winch) before entering the confined space.
 - 5. If the rescuer(s) must enter the confined space, the Entry Supervisor and CO must authorize the entry.
 - 6. Pre-entry job briefing shall be conducted by the Entry Supervisor and discuss about the hazards in the confined space.
 - 7. Before the entering a PRCS, hazards in the confined space need to be controlled, including atmospheric hazards. Verify by testing oxygen, combustible gases and vapors, and then for toxic gases and vapors.

- 8. The rescuers must wear applicable PPE, including respirators and follow the confined space entry procedure.
- 9. Once the injured person is removed from the space, provide applicable first aid and CPR until Emergency Medical Service arrives.
- IV. Establish an Emergency Communication Center (if necessary) at the Control Room. Plant activities during an emergency will be recorded in chronological order in the emergency communication center.
- V. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant. The media will not be allowed in the plant.

CATASTROPHIC SYSTEM FAILURE RESPONSE

Important Contact List (for more - see Emergency Contact List)

Where to call	Phone number	Person making the call
Emergency	911	Operating Authority
CECP Management	See the Emergency Contact List	Operating Authority
SDGE Real-Time Desk - if operation of the unit(s) is affected.	(858) 650-6160	Operating Authority
VP, Regional Plant Operations (John Robertson) – for significant failures	(302) 381-6332 Cell	CECP Manager
NRG Spokesman: Manager, Communications (Chris Rimel) – for requests from the media/public about the situation	713-537-5388	CECP Manager
Energy Services Safety Manager – Michael Newhouse	(814) 525-8834 Cell	Safety Specialist
Global Infrastructure Partners - Michael O'Toole	(312) 835-8527 Cell	CECP Environmental Manager
California Energy Commission Anwar Ali	(916) 651-2072	CECP Environmental Manager
Core Injury Management - All employee injuries	(855) 723-3674	Injured employee's supervisor or designee

Note:

- 1) Catastrophic System Failure (CSF) is a **failure of any power plant system's** integrity, which would result in the sudden and uncontrollable release, water, fuel, air, chemicals, etc. The failure may or may not have displayed any warning signs and may have begun as a fire or explosion related incident that escalated into a catastrophic system failure. This type of failure places all personnel in the station at risk.
- 2) Refer to applicable emergency procedures in this Emergency Action Plan that are applicable during a CSF incident.

WARNING: A CSF would require an immediate implementation of the Station Emergency Action Plan and all if not most of the emergency support documents contained within.

Q. Discovery

The person who discovers a catastrophic system failure (CSF) shall immediately inform the Control Room with the following information. Use 3-way communication to verify the information between the persons reporting and receiving the report.

- A. **Discoverer's name and** location.
- B. Exact location or system involved with the CSF.
- C. Name or the equipment/system involved with CSF, symptoms or characteristics of a CSF witnessed and events that could lead to a CSF.
- D. Type of injuries, if any.
- II. Notification The Operating Authority is to immediately:
 - A. Notify CECP Management
 - B. Notify 911.
 - 1. Types(s) of incident(s).
 - 2. Number of injured persons
 - 3. Natures of injuries
 - 4. Specific request (HAZMAT, heavy rescue, fire, ambulance, etc.)

Note: Assign someone to the main gate to direct emergency vehicles entering the site.

C. Notify station personnel by making an announcement via the plant paging system of the following. Repeat it 3 times:

ATTENTION ALL PERSONNEL!

THERE IS A (emergency situation detail) AT (location).

STAY AWAY FROM THIS LOCATION

- D. If personnel evacuation is necessary, follow the Personnel Evacuation procedure in this Emergency Action Plan.
- E. Notify SDGE Real-Time Desk of possible issues with the load or operation of the unit(s).
- III. Determine Corrective Actions
 - A. The Operating Authority is to have an Operator(s) to assess the incident scene to determine the situation.
 - B. Communicate the findings with the Control Room.
 - C. Execute internal corrective measures that have been directed by the Operating Authority such as:

- 1. De-energization of electrical systems
- 2. Shutting down process systems
- 3. Removing equipment/system from service
- 4. Adjusting station/unit/equipment loading based on the incident
- D. Implement emergency actions based on assessment of circumstances
- IV. Establish an Emergency Communication Center (if necessary) at the Control Room.
 All plant activities will be recorded in chronological order, including equipment problems, personnel injuries, calls, actions taken, updates on station status and generation availability.
- IV. Post Catastrophic System Failure Action
 - A. Re-Assess Plant Status
 - B. Notify the Control Room when the incident is secured or over.
 - C. If necessary, the Operating Authority is to conduct a visual inspection of the CSF scene to verify the status.
 - D. The Operating Authority is to notify station management of the status.
 - E. Notify personnel of the status by stating the following 3 times: ATTENTION ALL PERSONNEL!

THE (emergency situation) IS SECURED

- IV. Post Catastrophic System Failure Review
 - A. If necessary, CECP Management is to conduct a visual inspection of the CSF scene.
 - B. All station safety systems must be identified, and a plan developed to restore them to service.
 - C. Environmental impact must be determined.
 - D. Applicable agencies must be notified.
 - E. Fire/Rescue equipment must be inventoried and returned to service.
 - F. Post incident critique must be conducted.
 - G. Submit the post review report of the CSF to applicable station and corporate personnel.

- V. Drill An annual drill is to be conducted with a scenario relating to CSF.
- VI. Media reporting

To ensure consistency in the release of information, a single NRG corporate spokesperson will handle interface with news media. Any inquiries relating to the incident will be directed to this person. The media will not be allowed in the plant. The media will not be allowed in the plant.

Emergency Response Information Form

Type of		Time R	eported:			$AM \square PM$	
Emergency:			•				
Specific Location Of							
Emergency:							
Person Reporting:			Reporting	From:			
Injuries (Nature/Exter	nt/Number I	(njured):					
Actions Being Taken	:						
Assistance Needed:							
Weather Conditions (circle): R	ainy	Sunny	Cloudy	Foggy	Windy	
Wind Direction			Speed mph				
Alarms Sounded(circ		ire	Bomb (Release	Evacuation	
Supervision Contacte				Time:		$AM \square PM$	[🗌
Outside Agencies Co	ntacted:						
General Comments:							
Written By:							

Safety & Health Incident Notification Instructions - California

Emergency

This includes, but may not be limited to a work related fatality or hospitalization of an employee or contractor for treatment other than observation, fire/explosion/rescue requiring offsite response, spill/release requiring community evacuation or shelter-in-place and any event that results in media presence or adverse attention:

1. Once the scene has been stabilized and medical treatment provided as necessary, the Plant Manager or designee will immediately (within the hour) verbally contact the Vice President responsible for the affected facility, plant or office and provide the following information:

- Names of injured individuals, company if contractor, nature of injuries and treatment
- Brief description of the incident, including plant status at the time
- Description of any off-site impact and actions taken
- Apparent cause(s) of the incident if obvious; do not speculate
- Immediate corrective actions
- Additional response/follow up within the next 24 hours
- Need for additional resources (communications, crisis management, etc.) or assistance as required
- Media and/or agency presence

2. The Vice President responsible for the affected facility, plant or office shall determine the need for additional upward notification.

3. Within 8 hours, Plant Manager/designee is responsible for creating the NRG Energy Event Notification Form and distributing electronically.

4. If a work related incident involving an employee results any one of the following Cal/OSHA must be contacted verbally within 8 hours: death, hospitalization with treatment for more than 24 hours, loss of any member of the body (loss of bone) or permanent disfigurement (tissue damage). The Regional Safety Director is responsible for notifying Cal/OSHA.

5. If a work related on-site incident involving a contract employee or contractor results any one of the following, the contract/contractor company must notify Cal/OSHA verbally within 8 hours: death, hospitalization with treatment for more than 24 hours, loss of any member of the body (loss of bone) or permanent disfigurement (tissue damage). NRG safety will ensure that each company involved contacts OSHA accordingly.

6. If the event results in personal injury to an employee, employee's supervision will notify Core Injury Management (855-723-3674) immediately. If off-site treatment is provided, Supervision or Local Safety must notify Worker's Comp according to site specific procedures as soon as practical.

Serious Event Notification

This includes, but is not limited to, an injury or illness that is likely to be an OSHA recordable, fire/explosion or spill response by on-site emergency response personnel, off-site personal injury due to automobile collision or other events while on company business, property damage >\$10,000 due to employee actions, OSHA or other agency inspections and near misses with potentially severe consequences (could reasonably have resulted in a fatality, injury or illness requiring surgery or hospitalization, fractures, amputation, etc.)

1. An event involving acute personal injury to an employee requires immediate notification to Core Injury Management (855-723-3674) by the employee's supervision. Supervision must also notify Worker's Comp according to site specific procedures as soon as practical if offsite treatment is provided.

2. Within eight (8) hours of a serous notification event, Plant Manager/designee will notify the Vice President responsible for the affected facility, plant or office and provide the following information:

- Names of injured individuals, company name if contractor, nature of injuries and on-site treatment provided
- Brief description of the incident
- Description of any off-site impact and actions taken
- Apparent cause(s) of the incident if obvious; do not speculate
- Immediate corrective actions
- Additional response/follow up within the next 24 hours if required
- Need for additional resources or assistance as required

• Media and/or agency presence

3. Within 24 hours, Plant Manager/designee is responsible for creating the NRG Energy Event Notification Form and distributing electronically. Within this same 24 hour period Plant Manager/designee will ensure an incident analysis is initiated, including the creation and distribution of an initial incident report.

Minor Incidents

This includes, but is not limited to, small cuts, scratches or bruises and near misses with minor severity potential. Employees must report these events as soon as practical but no later than the end of the work shift. If a NRG employee is injured, employee's supervision will contact Core Injury Management (855-723-3674) upon learning of the incident.

If at any time in the notification process the individual you are contacting is unavailable, move up to the next contact person in the process.

CECP

Emergency Evacuation Roster

Name	Signature

Plant Map and Evacuation Assembly Area

(To be completed by the Environmental Specialist or a designee)

EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

A		BUSINESS NAME FACILITY EMERGENCY CONTACT & PHONE NUMBER () -
В		INCIDENT MO DAY YR TIME OES DATE I I I I IIII (use 24 hr time) OES
С		INCIDENT ADDRESS LOCATION CITY/COMMUNITY COUNTY ZIP
		CHEMICAL OR TRADE NAME (print or type) CAS Number
D		CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A CHECK IF RELEASE REQUIRES NOTIFI - CATION UNDER 42 U.S.C. Section 9603 (a)
		PHYSICAL STATE CONTAINED PHYSICAL STATE RELEASED QUANTITY RELEASED SOLID LIQUID GAS SOLID LIQUID GAS
		ENVIRONMENTAL CONTAMINATION TIME OF RELEASE DURATION OF RELEASE AIR WATER GROUND OTHER DURATION DURATION OF RELEASE
		ACTIONS TAKEN
	-	
E		
	-	
		KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information)
		ACUTE OR IMMEDIATE (explain)
F		CHRONIC OR DELAYED (explain)
		NOTKNOWN (explain)
		ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS
G	-	
		COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)
Н		
		CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information
1		submitted and believe the submitted information is true, accurate, and complete. REPORTING FACILITY REPRESENTATIVE (print or type)
		SIGNATURE OF REPORTING FACILITY REPRESENTATIVE DATE:

Instructions for Emergency Release Follow-Up Notice Reporting Form

GENERAL INFORMATION:

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

BASIC INSTRUCTIONS:

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

SPECIFIC INSTRUCTIONS:

Block A: Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

Block B: Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

Block C: Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

Block D: Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

Block E: Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

Block F: Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

Block G: Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

Block H: List any additional pertinent information.

Block I: Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

MAIL THE COMPLETED REPORT TO: Chemical Emergency Planning and Response Commission (CEPRC) / Local Emergency Planning Committee (LEPC) Attn: Section 304 Reports, 3650 Schriever Avenue, Mather, CA 95655

Emergency Equipment Locations

(See attachment at end of document)

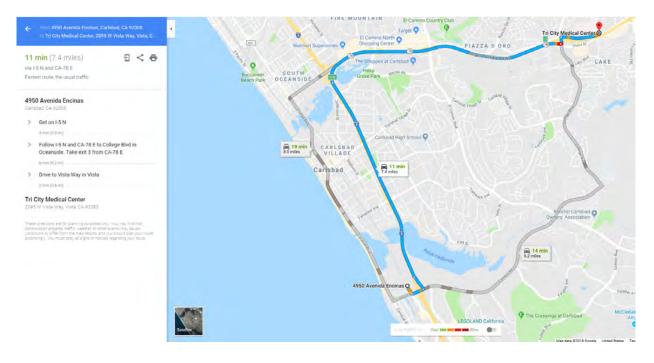
October 2021

ADDENDUM 7

Map to the Nearest Hospital

Tri-City Medical Center 2095 W. Vista Way Vista, CA 92083 (760) 724-8411

Driving direction from the CECP:



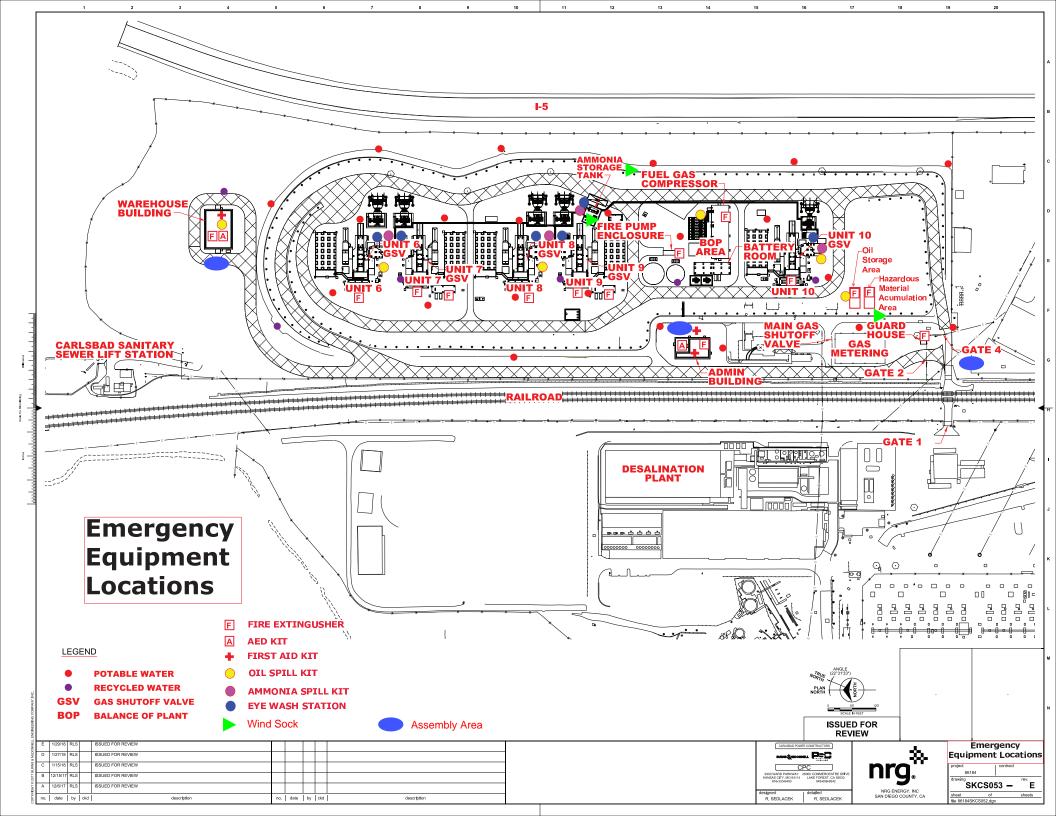
Revisions History

Date	Person made revision	Reason
3/27/2018	Paul Mattesich	Initial Draft
6/26/2018	Scott Seipel	Revisions based on CEC Review
10/15/2020	Ryan Goerl	Revisions to notifications in several sections. Updates to contact numbers, PA system updates, communication clarifications, Encina demolition activities
8/13/2021	Ryan Goerl	Added Ammonia release section. Changed media reporting language. Updated contact numbers.
10/11/21	Paul Mattesich	Replaced Ryan Goerl with Paul Mattesich on interim basis during job vacancy

Locations of Hardcopies of the Emergency Action Plan

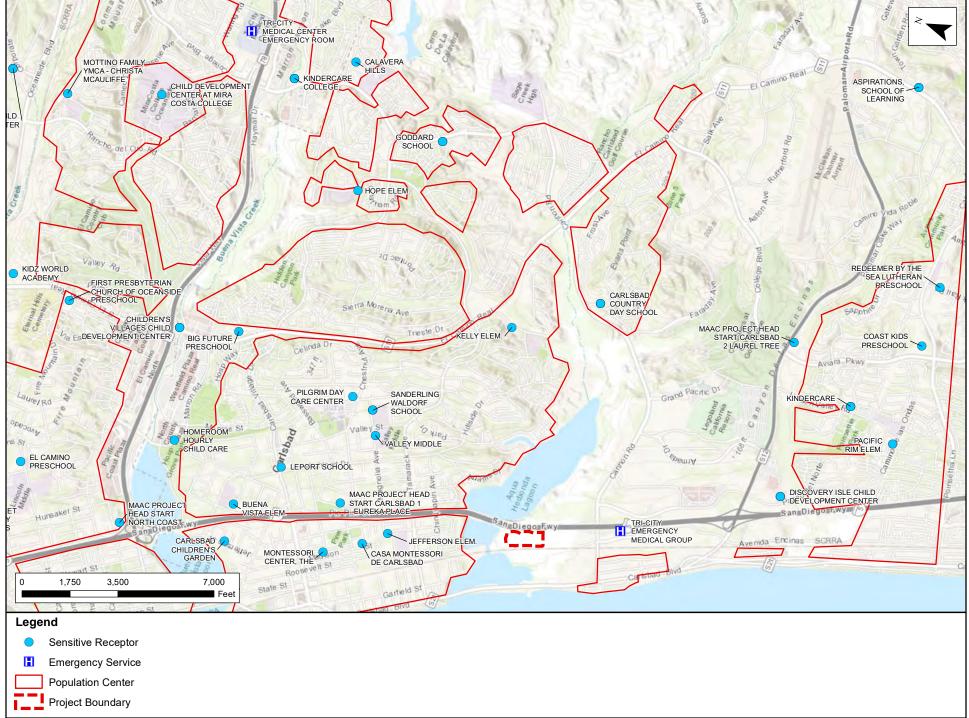
- Control Room under the phone
- Control Room bookcase
- Plant Manager's Office
- O&M Supervisor's Office
- Environmental Specialist's Office
- Local Fire Department

Carlsbad Energy Center Project Emergency Equipment Location Map

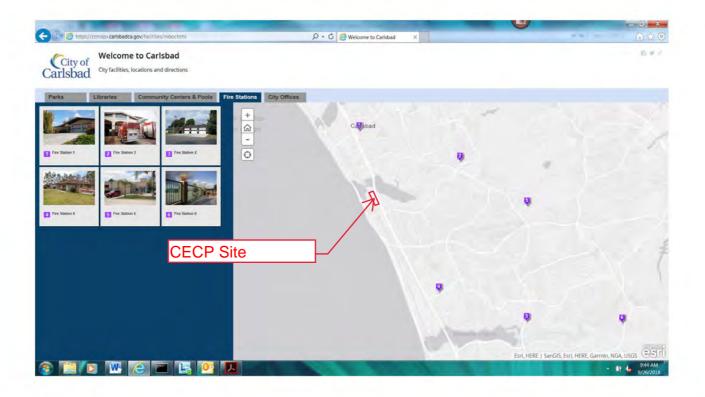


Carlsbad California Population Centers Map & City of Carlsbad Fire Department Fire Station Locations Map

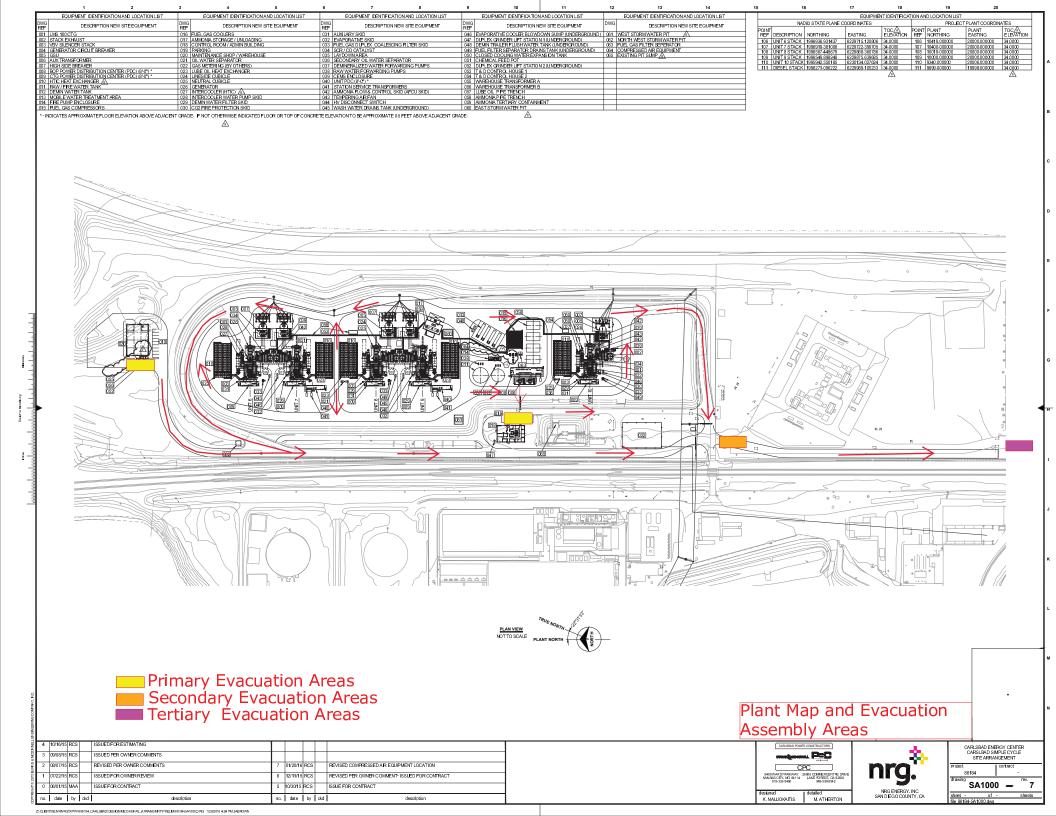
Created by ERM

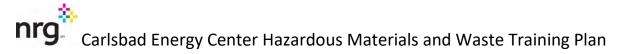


Source: Esri - World Imagery; NAD 1983 StatePlane California VI FIPS 0406 Feet



Carlsbad Energy Center Project City of Carlsbad Fire Department Fire Station Locations Carlsbad Energy Center Project Plant Map and Evacuation Assembly Areas





1. Staff list and HazMat Role – Personnel Up to Date as of October 2021:

Paul Mattesich – Plant Manager: Manages all staff, assigns Hazardous Materials duties, ensures training occurs per regulations, submits Hazardous Materials Business Plan.

Brian Wood – Operations Manager: Manages Operations and Maintenance Staff, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Anthony Kalis – Engineer: Handles some hazardous materials (IE service oil, sodium hypochlorite totes).

David Brown - Business Manager: No active hazardous materials role

Vacant – Environmental, Health, and Safety Specialist: Manages hazmat programs, signs manifests for shipped wastes, tracks waste, conducts inspections, labeling, remote drums.

Patricia Hurtado – Administrative Assistant: Secondary for hazmat programs, signs manifests for shipped wastes, tracks waste, conducts inspections, labeling, remote drums.

Aaron Siegel – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Matt Kristie – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Craig Lobo – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Greg Munsell – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Rob Burton – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Kyle Campbell – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Shawn Reilly – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Ben Miller – Operations/Maintenance Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Hamid Hadidi – Instrumentation, Electrician Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Robert Haman – Instrumentation, Electrician Technician: Forklift certified, handles hazardous materials (IE service oil, sodium hypochlorite totes).

Scott Edwards – Total Western Warehouse Contractor: Forklift certified, primary driver for loading drums to shipper, handles hazardous materials (IE service oil, sodium hypochlorite totes), handles hazardous wastes.

2. Provided Training:

2.1 All NRG staff is given the following training.

2.1.1 Annual:

- HMBP Training: All required elements in HMBP rules, HazMat emergency response, fire response, wildlife response, evacuation, elements of SPCC, Satisfies RMP training requirements.
- Emergency Response (Site Specific): Emergency Action Plan, Evacuation, Medical Emergencies, High Winds, Terrorism, Sabotage, system failures, Earthquake.
- Emergency Response (NRG Provided): NRG Provided Online Training
- Site Orientation: General site overview, active shooter, HazMat spill response, emergency contacts, wildlife requirements.
- SPCC Training (Site Specific): Classroom and presentation based.
- Fire Fighting: Online Training and Hands On
- Lead Awareness: NRG Provided Online Training
- Hexavalent Chromium Control: NRG Provided Online Training
- Asbestos Awareness: NRG Provided Online Training
- Ammonia Safety: NRG Provided Online Training
- Job Briefing: NRG Provided Online Training. Includes HazMat analysis/spill potential prior to work.
- Materials of Trade: NRG Provided Online Training
- HAZWOPER Awareness: NRG Provided Online Training
- Incident and Injury Reporting: NRG Provided Online Training
- Hazard Recognition: NRG Provided Online Training.
- General PPE Awareness: NRG Provided Online Training

2.1.2 Every 2 Years

• CPR/First-Aid Certification

2.1.3 Every 3 Years

- Hazardous Resource Management (RCRA): NRG Provided Online Training
- SPCC (NRG Provided): NRG Provided Online Training
- DOT Function Specific (Loading and Unloading of Hazardous Materials): NRG Provided Online Training, includes separate exam.
- DOT Safety: NRG Provided Online Training, includes separate exam.
- DOT General Awareness (Transportation of Hazardous Materials): NRG Provided Online Training, includes separate Exam.
- DOT Security Awareness: NRG Provided Online Training
- Site Specific RMP training: Stand alone done every three years but is covered by "HMBP Training" annually.

2.2 Training for Environmental staff and Plant Specialist:

• Both are HAZWOPPER 40 Hour trained.

2.2.1 Annual:

• Lion Technology Inc. California Hazardous Waste Management Course: online or in person

2.2.2 Every 3 Years:

• Lion Technology Inc. Recurrent Hazmat Ground Shipper Certification (DOT)

Attachment C HAZ-8: Contractor Verification Statement

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 30, 2022

Subject: <u>CARLSBAD ENERGY CENTER COM-8 REPORT – HAZ-8: Contractor Verification Statement</u>

The Carlsbad Energy Center Project takes the following actions to maintain compliance with the requirements in HAZ-8:

- All NRG employees at CECP undergo a background check in the onboarding process.
- Contractors are vetted by the NRG and Clearway procurement through the Coupa Supplier Information Management (SIM) portal for vendor registration and screening process. Vendors must complete and maintain current Coupa SIM status before the contractor is allowed to conduct work at CECP.

Attachment DSOIL&WATER-4: EPS Water Reports
EPS NPDES Permit No. CA0001350 was terminated in
December 2021 – Last day of Discharge was June 30, 2021

CABRILLO POWER I LLC - MONTHLY REPORT, Appendix

Encina Power Station		
R9-2020-0005	Signed e-signed	
Monthly		
January, 2021	Collected By:	Operations personnel
March 1, 2021	Analyzed By:	Operations personnel
EFF-001, Low Volume Was	ste- 001-B & 001-H, and Tunnel Dewatering	
	R9-2020-0005 Monthly January, 2021 March 1, 2021	R9-2020-0005Signede-signedMonthlyJanuary, 2021Collected By:

PARAMETER: Flow Rate

UNITS: Million Gallons per Day (MGD)

UNITS: N	Illion Gallons per D	ay (MGD)		
DATE	EFF-001 DISCHARGE	LVW 001-B DISCHARGE	LVW 001-H DISCHARGE	TUNNEL DEWATERING DISCHARGE
1/1/2021	0.012	0.011	0.002	0.000
1/2/2021	0.011	0.009	0.002	0.000
1/3/2021	0.010	0.008	0.001	0.000
1/4/2021	0.010	0.008	0.001	0.000
1/5/2021	0.007	0.006	0.001	0.000
1/6/2021	0.002	0.002	0.000	0.000
1/7/2021	0.016	0.013	0.002	0.000
1/8/2021	0.008	0.007	0.001	0.000
1/9/2021	0.008	0.007	0.001	0.000
1/10/2021	0.008	0.007	0.001	0.000
1/11/2021	0.008	0.007	0.001	0.000
1/12/2021	0.000	0.000	0.000	0.000
1/13/2021	0.015	0.000	0.000	0.015
1/14/2021	0.150	0.000	0.000	0.150
1/15/2021	0.006	0.000	0.000	0.006
1/16/2021	0.000	0.000	0.000	0.000
1/17/2021	0.000	0.000	0.000	0.000
1/18/2021	0.069	0.000	0.000	0.069
1/19/2021	0.002	0.000	0.000	0.002
1/20/2021	0.000	0.000	0.000	0.000
1/21/2021	0.000	0.000	0.000	0.000
1/22/2021	0.060	0.000	0.000	0.060
1/23/2021	0.000	0.000	0.000	0.000
1/24/2021	0.000	0.000	0.000	0.000
1/25/2021	0.062	0.000	0.000	0.062
1/26/2021	0.015	0.000	0.000	0.015
1/27/2021	0.000	0.000	0.000	0.000
1/28/2021	0.027	0.000	0.000	0.027
1/29/2021	0.027	0.000	0.000	0.027
1/30/2021	0.000	0.000	0.000	0.000
1/31/2021	0.050	0.042	0.007	0.000
DISCHARGE DA' AVERAGE:	YS 0.018	0.004	0.001	0.014
DAILY MAXIMU	M 0.150	0.042	0.007	0.150
REQUIREMENTS	2.2			

CABRILLO POWER I LLC - MONTHLY REPORT, Appendix

Facility Name:	Encina Power Station		
Order No:	R9-2020-0005	Signed e-signed	
Report Freq:	Monthly		
Report For:	February, 2021	Collected By:	Operations personnel
Report Due:	April 1, 2021	Analyzed By:	Operations personnel
Wastestream:	EFF-001, Low Volume Waste	- 001-B & 001-H, and Tunnel Dewatering	

PARAMETER: Flow Rate

UNITS: Million Gallons per Day (MGD)

DATE	EFF-001 DISCHARGE	LVW 001-B DISCHARGE	LVW 001-H DISCHARGE	TUNNEL DEWATERING DISCHARGE
2/1/2021	0.012	0.010	0.002	0.000
2/2/2021	0.000	0.000	0.000	0.000
2/3/2021	0.068	0.000	0.000	0.068
2/4/2021	0.052	0.000	0.000	0.052
2/5/2021	0.022	0.000	0.000	0.022
2/6/2021	0.023	0.000	0.000	0.023
2/7/2021	0.017	0.000	0.000	0.017
2/8/2021	0.022	0.019	0.003	0.000
2/9/2021	0.023	0.020	0.004	0.000
2/10/2021	0.078	0.000	0.000	0.078
2/11/2021	0.042	0.000	0.000	0.042
2/12/2021	0.000	0.000	0.000	0.000
2/13/2021	0.000	0.000	0.000	0.000
2/14/2021	0.000	0.000	0.000	0.000
2/15/2021	0.036	0.030	0.005	0.000
2/16/2021	0.030	0.025	0.004	0.000
2/17/2021	0.032	0.027	0.005	0.000
2/18/2021	0.011	0.009	0.002	0.000
2/19/2021	0.010	0.008	0.001	0.000
2/20/2021	0.010	0.009	0.002	0.000
2/21/2021	0.011	0.009	0.002	0.000
2/22/2021	0.007	0.006	0.001	0.000
2/23/2021	0.045	0.038	0.007	0.000
2/24/2021	0.016	0.014	0.002	0.000
2/25/2021	0.008	0.007	0.001	0.000
2/26/2021	0.000	0.000	0.000	0.000
2/27/2021	0.000	0.000	0.000	0.000
2/28/2021	0.000	0.000	0.000	0.000

DISCHARGE DAYS AVERAGE:	0.021	0.008	0.001	0.011
DAILY MAXIMUM	0.078	0.038	0.007	0.078
REQUIREMENTS:	2.2			

CABRILLO POWER I LLC - MONTHLY REPORT, Appendix

Facility Name:	Encina Power Station		
Order No:	R9-2020-0005	Signed e-signed	
Report Freq:	Monthly		
Report For:	March, 2021	Collected By:	Operations personnel
Report Due:	May 1, 2021	Analyzed By:	Operations personnel
Wastestream:	EFF-001, Low Volume Waste- 001-I	3 & 001-H, and Tunnel Dewatering	

PARAMETER: Flow Rate

UNITS: Million Gallons per Day (MGD)

UNITS: 1	Million Gallons per Day (MGD)				
DATE	EFF-001 DISCHARGE	LVW 001-B DISCHARGE	LVW 001-H DISCHARGE	TUNNEL DEWATERING DISCHARGE	
3/1/2021	0.026	0.022	0.004	0.000	
3/2/2021	0.035	0.030	0.005	0.000	
3/3/2021	0.046	0.039	0.007	0.000	
3/4/2021	0.025	0.022	0.004	0.000	
3/5/2021	0.009	0.007	0.001	0.000	
3/6/2021	0.000	0.000	0.000	0.000	
3/7/2021	0.000	0.000	0.000	0.000	
3/8/2021	0.000	0.000	0.000	0.000	
3/9/2021	0.000	0.000	0.000	0.000	
3/10/2021	0.048	0.041	0.007	0.000	
3/11/2021	0.069	0.059	0.010	0.000	
3/12/2021	0.022	0.019	0.003	0.000	
3/13/2021	0.010	0.009	0.002	0.000	
3/14/2021	0.000	0.000	0.000	0.000	
3/15/2021	0.040	0.034	0.006	0.000	
3/16/2021	0.038	0.032	0.006	0.000	
3/17/2021	0.006	0.005	0.001	0.000	
3/18/2021	0.009	0.008	0.001	0.000	
3/19/2021	0.000	0.000	0.000	0.000	
3/20/2021	0.043	0.037	0.006	0.000	
3/21/2021	0.028	0.024	0.004	0.000	
3/22/2021	0.029	0.024	0.004	0.000	
3/23/2021	0.017	0.015	0.003	0.000	
3/24/2021	0.017	0.014	0.003	0.000	
3/25/2021	0.016	0.014	0.002	0.000	
3/26/2021	0.013	0.011	0.002	0.000	
3/27/2021	0.011	0.009	0.002	0.000	
3/28/2021	0.010	0.009	0.002	0.000	
3/29/2021	0.013	0.011	0.002	0.000	
3/30/2021	0.000	0.000	0.000	0.000	
3/31/2021	0.000	0.000	0.000	0.000	
DISCHARGE DA					
AVERAGE:	0.019	0.016	0.003	0.000	
DAILY MAXIMU	JM 0.069	0.059	0.010	0.000	
REQUIREMENTS	S: 2.2				

CABRILLO POWER I LLC - MONTHLY REPORT, Appendix

Facility Name:	Encina Power Station		
Order No:	R9-2020-0005	Signed e-signed	
Report Freq:	Monthly		
Report For:	April, 2021	Collected By:	Operations personnel
Report Due:	June 1, 2021	Analyzed By:	Operations personnel
Wastestream:	EFF-001, Low Volume Waste- 001-	B & 001-H, and Tunnel Dewatering	

PARAMETER: Flow Rate

UNITS: Million Gallons per Day (MGD)

DATE	EFF-001 DISCHARGE	LVW 001-B DISCHARGE	LVW 001-H DISCHARGE	TUNNEL DEWATERING DISCHARGE
4/1/2021	0.0011	0.0009	0.0002	0.000
4/2/2021	0.0000	0.0000	0.0000	0.000
4/3/2021	0.0000	0.0000	0.0000	0.000
4/4/2021	0.0000	0.0000	0.0000	0.000
4/5/2021	0.0000	0.0000	0.0000	0.000
4/6/2021	0.0000	0.0000	0.0000	0.000
4/7/2021	0.0000	0.0000	0.0000	0.000
4/8/2021	0.0000	0.0000	0.0000	0.000
4/9/2021	0.0000	0.0000	0.0000	0.000
4/10/2021	0.0000	0.0000	0.0000	0.000
4/11/2021	0.0000	0.0000	0.0000	0.000
4/12/2021	0.0000	0.0000	0.0000	0.000
4/13/2021	0.0000	0.0000	0.0000	0.000
4/14/2021	0.0000	0.0000	0.0000	0.000
4/15/2021	0.0000	0.0000	0.0000	0.000
4/16/2021	0.0000	0.0000	0.0000	0.000
4/17/2021	0.0000	0.0000	0.0000	0.000
4/18/2021	0.0000	0.0000	0.0000	0.000
4/19/2021	0.0000	0.0000	0.0000	0.000
4/20/2021	0.0000	0.0000	0.0000	0.000
4/21/2021	0.0000	0.0000	0.0000	0.000
4/22/2021	0.0000	0.0000	0.0000	0.000
4/23/2021	0.0000	0.0000	0.0000	0.000
4/24/2021	0.0000	0.0000	0.0000	0.000
4/25/2021	0.0000	0.0000	0.0000	0.000
4/26/2021	0.0018	0.0015	0.0003	0.000
4/27/2021	0.0021	0.0018	0.0003	0.000
4/28/2021	0.0017	0.0014	0.0003	0.000
4/29/2021	0.0018	0.0016	0.0003	0.000
4/30/2021	0.0020	0.0017	0.0003	0.000

DISCHARGE DAYS AVERAGE:	0.0004	0.0003	0.0001	0.000
DAILY MAXIMUM	0.0021	0.0018	0.0003	0.000
REQUIREMENTS:	2.2			

CABRILLO POWER I LLC - MONTHLY REPORT, Appendix

Facility Name: Order No:	Encina Power Station R9-2020-0005	Signed e-signed	
Report Freq:	Monthly		
Report For:	May, 2021	Collected By:	Operations personnel
Report Due:	July 1, 2021	Analyzed By:	Operations personnel
Wastestream:	EFF-001, Low Volume Waste- 001-B & 00	11-H, and Tunnel Dewatering	

PARAMETER: Flow Rate

UNITS: Million Gallons per Day (MGD)

UNITS:	Million Gallons per Da	ay (MOD)		
DATE	EFF-001 DISCHARGE	LVW 001-B DISCHARGE	LVW 001-H DISCHARGE	TUNNEL DEWATERING DISCHARGE
5/1/2021	0.002	0.0017	0.0003	0.000
5/2/2021	0.002	0.0018	0.0003	0.000
5/3/2021	0.002	0.0016	0.0003	0.000
5/4/2021	0.002	0.0014	0.0003	0.000
5/5/2021	0.001	0.0012	0.0002	0.000
5/6/2021	0.001	0.0012	0.0002	0.000
5/7/2021	0.001	0.0012	0.0002	0.000
5/8/2021	0.001	0.0012	0.0002	0.000
5/9/2021	0.001	0.0012	0.0002	0.000
5/10/2021	0.001	0.0012	0.0002	0.000
5/11/2021	0.001	0.0012	0.0002	0.000
5/12/2021	0.001	0.0012	0.0002	0.000
5/13/2021	0.001	0.0012	0.0002	0.000
5/14/2021	0.002	0.0013	0.0002	0.000
5/15/2021	0.002	0.0014	0.0002	0.000
5/16/2021	0.001	0.0012	0.0002	0.000
5/17/2021	0.001	0.0012	0.0002	0.000
5/18/2021	0.001	0.0012	0.0002	0.000
5/19/2021	0.001	0.0012	0.0002	0.000
5/20/2021	0.001	0.0013	0.0002	0.000
5/21/2021	0.001	0.0011	0.0002	0.000
5/22/2021	0.001	0.0011	0.0002	0.000
5/23/2021	0.001	0.0011	0.0002	0.000
5/24/2021	0.001	0.0009	0.0002	0.000
5/25/2021	0.000	0.0000	0.0000	0.000
5/26/2021	0.000	0.0000	0.0000	0.000
5/27/2021	0.000	0.0000	0.0000	0.000
5/28/2021	0.000	0.0000	0.0000	0.000
5/29/2021	0.000	0.0000	0.0000	0.000
5/30/2021	0.000	0.0000	0.0000	0.000
5/31/2021	0.000	0.0000	0.0000	0.000
DISCHARGE DA	AYS			
AVERAGE:	0.001	0.001	0.0002	0.000
DAILY MAXIM	UM 0.002	0.002	0.0003	0.000
REQUIREMENT	S: 2.2			

CABRILLO POWER I LLC - MONTHLY REPORT, Appendix

Facility Name:	Encina Power Station		
Order No:	R9-2020-0005	Signede-signed	
Report Freq:	Monthly		
Report For:	June, 2021	Collected By:	Operations personnel
Report Due:	August 1, 2021	Analyzed By:	Operations personnel
Wastestream:	EFF-001, Low Volume Waste- 001-B &	001-H, and Tunnel Dewatering	

PARAMETER: Flow Rate

==

____ **REQUIREMENTS:**

2.2

UNITS: Million Gallons per Day (MGD)

UNITS: Million Gallons per Day (MGD)				
DATE	EFF-001 DISCHARGE	LVW 001-B DISCHARGE	LVW 001-H DISCHARGE	TUNNEL DEWATERING DISCHARGE
6/1/2021	0.0001	0.0001	0.0000	0.000
6/2/2021	0.0026	0.0022	0.0004	0.000
6/3/2021	0.0021	0.0018	0.0003	0.000
6/4/2021	0.0000	0.0000	0.0000	0.000
6/5/2021	0.0000	0.0000	0.0000	0.000
6/6/2021	0.0000	0.0000	0.0000	0.000
6/7/2021	0.0000	0.0000	0.0000	0.000
6/8/2021	0.0002	0.0002	0.0000	0.000
6/9/2021	0.0016	0.0014	0.0002	0.000
6/10/2021	0.0073	0.0062	0.0011	0.000
6/11/2021	0.0000	0.0000	0.0000	0.000
6/12/2021	0.0000	0.0000	0.0000	0.000
6/13/2021	0.0000	0.0000	0.0000	0.000
6/14/2021	0.0025	0.0022	0.0004	0.000
6/15/2021	0.0000	0.0000	0.0000	0.000
6/16/2021	0.0031	0.0026	0.0005	0.000
6/17/2021	0.0121	0.0103	0.0018	0.000
6/18/2021	0.0067	0.0057	0.0010	0.000
6/19/2021	0.0000	0.0000	0.0000	0.000
6/20/2021	0.0000	0.0000	0.0000	0.000
6/21/2021	0.0000	0.0000	0.0000	0.000
6/22/2021	0.0000	0.0000	0.0000	0.000
6/23/2021	0.0000	0.0000	0.0000	0.000
6/24/2021	0.0000	0.0000	0.0000	0.000
6/25/2021	0.0000	0.0000	0.0000	0.000
6/26/2021	0.0000	0.0000	0.0000	0.000
6/27/2021	0.0000	0.0000	0.0000	0.000
6/28/2021	0.0066	0.0056	0.0010	0.000
6/29/2021	0.0000	0.0000	0.0000	0.000
6/30/2021	0.0009	0.0008	0.0001	0.000
DISCHARGE DA AVERAGE:	YS 0.002	0.001	0.0002	0.000
DAILY MAXIMU	M 0.012	0.010	0.0018	0.000

Attachment E SOIL&WATER-5: Potable Water Statement

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 30, 2022

Subject: <u>CARLSBAD ENERGY CENTER COM-8 REPORT – SOIL&WATER-5: Potable Water</u> <u>Statement</u>

To date, the City of Carlsbad has not required or requested any water quality monitoring reports related to the potable water system.

Attachment F SOIL&WATER-6: Water Use Report

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 30, 2022

Subject: CARLSBAD ENERGY CENTER COM-8 REPORT – SOIL&WATER-6: Potable Water Use

Attached is a report of Carlsbad Energy Center's Title 22 and potable water use for 2021. Due to the level of details given on the monthly potable water bills, only daily averages are able to be given in this report.

2021 Water Usage By Type

Emergency Water Use:					
Month	Gallons	Acre-Feet			
Jan-21	0	0			
Feb-21	0	0			
Mar-21	0	0			
Apr-21	0	0			
May-21	0	0			
Jun-21	0	0			
Jul-21	0	0			
Aug-21	0	0			
Sep-21	0	0			
Oct-21	0	0			
Nov-21	0	0			
Dec-21	0	0			

Title 22 Water Use (includes Encina Demolition uses)					
Month	Total (gal)	Daily Average (gal)	Daily Max (gal)	Total (Acre-Feet)	
Jan-21	598,400.00	19,303.23	135,177.39	1.84	
Feb-21	1,189,320.00	42,475.71	253,097.26	3.65	
Mar-21	1,069,640.00	34,504.52	202,116.75	3.28	
Apr-21	1,545,368.00	51,512.27	237,279.51	4.74	
May-21	1,208,768.00	38,992.52	225,259.15	3.71	
Jun-21	1,820,632.00	60,687.73	213,177.98	5.59	
Jul-21	2,241,756.00	72,314.71	255,306.37	6.88	
Aug-21	2,071,960.00	66,837.42	310,953.63	6.36	
Sep-21	1,282,072.00	42,735.73	272,237.89	3.93	
Oct-21	1,490,764.00	48,089.16	253,365.39	4.57	
Nov-21	1,553,596.00	51,786.53	215,481.12	4.77	
Dec-21	1,341,164.00	43,263.35	287,612.11	4.12	
Total	17,413,440.00			53.44	

Potable Wate	r Use:(includes Er	ncina Demolition uses		
			Total (gal) Encina	
Month	Total (gal)	Daily Average (gal)	Demolition	Total (Acre-Feet)
Jan-21	17,204.00	554.97	21,168.00	0.12
Feb-21	14,960.00	534.29	11,681.00	0.08
Mar-21	14,960.00	482.58	35,386.50	0.15
Apr-21	16,456.00	548.53	46,885.13	0.19
May-21	29,172.00	941.03	48,826.13	0.24
Jun-21	23,188.00	772.93	45,478.50	0.21
Jul-21	21,692.00	699.74	40,719.75	0.19
Aug-21	21,692.00	699.74	39,836.25	0.19
Sep-21	24,684.00	822.80	40,362.75	0.20
Oct-21	17,204.00	554.97	42,886.13	0.18
Nov-21	14,212.00	473.73	37,134.00	0.16
Dec-21	17,204.00	554.97	23,799.75	0.13

Fire Water Lines						
		Monthly Average				
Meter	Total (gal)	(gal)	Daily Average (gal)	Total (Acre-Feet)		
2"	1,496.00	124.67	4.10	0.00		
8"	13,464.00	1,122.00	36.89	0.04		

Total 2021 Potab		
	CECP	Encina Demoiltion
Gallons:	247,588.00	434,163.88
Acre-Feet:	0.76	1.33

Attachment G SOIL&WATER-7: Wastewater Quality Monitoring Reports

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, FIRST QUARTER OF 2021 WASTE WATER SAMPLES

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the results for the required samples for the First Quarter of 2021 (1Q2021). This report is submitted in compliance with the table in condition 2 of permit number 2405. The samples were taken on January 11, 2021. The following table summarizes the results:

			Res	ults	
Constituent	Limit	Units	Sample Point	Sample Point 2	Notes
Arsenic, Total	1.5	mg/L	ND	ND	
Cadmium, Total	0.77	mg/L	ND	ND	
Chromium, Total	3.5	mg/L	0.0038	ND	
Copper, Total	11	mg/L	0.024	0.14	
Lead, Total	5.1	mg/L	ND	ND	
Mercury, Total	0.27	mg/L	ND	ND	
Molybdenum, Total	4.1	mg/L	0.14	0.036	
Nickel, Total	15	mg/L	0.049	0.0079	
Selenium, Total	2.5	mg/L	ND	ND	7
Silver, Total	4.2	mg/L	ND	ND	
Zinc, Total	29	mg/L	0.84	0.66	
Oil and Grease (HEM)	400	mg/L	ND	2.7	
BOD	500	lb/day	0.121	0.075	Flow - SP1: 481 gal, SP2: 2440 gal
BOD	N/A	mg/L	30	3.7	Sample Results for Calc
TDS	N/A	mg/L	1700	1200	
TSS	500	lb/day	0.037	0.081	Flow - SP1: 481 gal, SP2: 2440 gal
TSS	N/A	mg/L	9.1	4	Sample Results for Calc
pН	5.5- 12		7.71	7.28	
рН	5.5- 12		7.72	7.31	
рН	5.5- 12		7.70	7.29	
рН	5.5- 12		7.61	7.09	

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970 If you have any questions or comments, please do not hesitate to contact Ryan Goerl at (760) 573-3802.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached: TestAmerica Lab Report for Waste Water Samples – January 21, 2021 EWA Report Certification dated February 5, 2021

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORT CERTIFICATION

INDUSTRIAL USER INFORMATION: T. Carlsbad Energy Center LLC Industrial User Name 4950 Avenida Encinas Carlsbad 92008 760-710-3943 Facility Address City Zip Code (Area Code) Phone Carlsbad Energy Center LLC

Owner Paul Mattesich		Plant Manager
IU Contact		Title
City of Carlsbad	2405	
Member Agency	Permit #	

II. **CERTIFICATION STATEMENT:**

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

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

CARUSBAD

PRESIDENT/VP/GENERAL MGR/CEO (Print and sign name)

CITY OR COUNTY

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

Laboratory Job ID: 440-277284-1 Client Project/Site: EWA Waste Water Permit

For:

Carlsbad Energy Center 4950 Avenida Encinas Carlsbad, California 92008

Attn: Anthony Kalis

Authorized for release by: 1/21/2021 11:47:53 AM

Rossina Tomova, Project Manager I (949)260-3276 Rossina.Tomova@Eurofinset.com

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

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

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

Review your project results through

LINKS



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Sample Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

o Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
)-277284-1	Sample Point #1-Composite	Water	01/11/21 18:59	01/12/21 19:45	
)-277284-2	Sample Point #1-First Grab	Water	01/11/21 05:55	01/12/21 19:45	
)-277284-3	Sample Point #1-Second Grab	Water	01/11/21 09:43	01/12/21 19:45	
)-277284-4	Sample Point #1-Third Grab	Water	01/11/21 13:41	01/12/21 19:45	
)-277284-5	Sample Point #1-Fourth Grab	Water	01/11/21 17:55	01/12/21 19:45	
)-277284-6	Sample Point #1-1664 Composite	Water	01/11/21 17:55	01/12/21 19:45	
)-277284-7	Sample Point #2-Composite	Water	01/11/21 18:44	01/12/21 19:45	
-277284-8	Sample Point #2-First Grab	Water	01/11/21 06:03	01/12/21 19:45	
)-277284-9	Sample Point #2-Second Grab	Water	01/11/21 09:49	01/12/21 19:45	
)-277284-10	Sample Point #2-Third Grab	Water	01/11/21 13:46	01/12/21 19:45	
)-277284-11	Sample Point #2-Fourth Grab	Water	01/11/21 18:04	01/12/21 19:45	
-277284-12	Sample Point #2-1664 Composite	Water	01/11/21 18:04	01/12/21 19:45	

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative 440-277284-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 1/12/2021 7:45 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.5° C and 0.6° C.

Metals

Method 200.7 Rev 4.4: The initial calibration verification (ICV) result for batch 440-636276 was above the upper control limit for Silver. Sample results were non-detects, and have been reported as qualified data.(ICV 440-636276/8)

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

Field Service / Mobile Lab

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.

Organic Prep

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

Lab Admin

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

RL

0.010

0.0050

0.0050

0.010

0.0050

0.020

0.010

0.010

MDL Unit

0.0089 mg/L

0.0025 mg/L

0.0025 mg/L

0.0050 mg/L

0.0038 mg/L

0.010 mg/L

0.0050 mg/L

0.0087 mg/L

D

Prepared

Analyte

Arsenic

Cadmium

Copper

Lead

Nickel

Selenium

Chromium

Molybdenum

Client Sample ID: Sample Point #1-Composite Date Collected: 01/11/21 18:59 Date Received: 01/12/21 19:45

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Result Qualifier

ND

ND

0.0038 J

ND

0.14

ND

0.049

0.024

Lab Sample ID: 440-277284-1 **Matrix: Water**

Analyzed

01/15/21 10:00 01/15/21 21:38

01/15/21 10:00 01/15/21 21:38

01/15/21 10:00 01/15/21 21:38

01/15/21 10:00 01/15/21 21:38

01/15/21 10:00 01/15/21 21:38

01/15/21 10:00 01/15/21 21:38

01/15/21 10:00 01/15/21 21:38

01/15/21 10:00 01/15/21 21:38

5

Dil Fac

1

1

1

1

1

1

1

1

					···· //		01/15/01 10:00		
Silver	ND	^1+	0.010	0.0050	mg/∟		01/15/21 10.00	01/15/21 21:38	1
Zinc	0.84		0.020	0.012	mg/L		01/15/21 10:00	01/15/21 21:38	1
Method: 245.1 - Mercury (CVA)	A)								
Analyte	· · ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		01/20/21 11:25	01/20/21 16:46	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		20	10	mg/L			01/18/21 09:28	1
Total Suspended Solids	9.1		2.9	1.4	mg/L			01/18/21 14:59	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	30		12	12	mg/L			01/13/21 10:02	1
Client Sample ID: Sample Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45								watrix	Water
Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45 Method: Field Sampling - Field	· · ·								
Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte	Result	Qualifier	NONE	NONE		<u>D</u>	Prepared	Analyzed	Dil Fac
Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte Field pH	Result 7.71	Qualifier	NONE	NONE	SU	<u>D</u>	Prepared	Analyzed 01/11/21 05:55	Dil Fac
Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte	Result	Qualifier	NONE	NONE		<u>D</u>	Prepared	Analyzed	Dil Fac
Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte Field pH	Result 7.71 19.60			NONE	SU			Analyzed 01/11/21 05:55	Dil Fac
Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte Field pH Field Temperature	Result 7.71 19.60			NONE	SU			Analyzed 01/11/21 05:55 01/11/21 05:55 ID: 440-277	Dil Fac
Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte Field pH Field Temperature Client Sample ID: Sample Date Collected: 01/11/21 09:43 Date Received: 01/12/21 19:45 Method: Field Sampling - Field	Result 7.71 19.60 Point #1-3	Second G	rab		SU Celsius	La	b Sample	Analyzed 01/11/21 05:55 01/11/21 05:55 ID: 440-277 Matrix:	Dil Fac 1 284-3 : Water
Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte Field pH Field Temperature Client Sample ID: Sample Date Collected: 01/11/21 09:43 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte	Result 7.71 19.60 Point #1-			NONE	SU Celsius Unit			Analyzed 01/11/21 05:55 01/11/21 05:55 ID: 440-277 Matrix: Analyzed	Dil Fac 1 284-3 : Water Dil Fac
Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte Field pH Field Temperature Client Sample ID: Sample Date Collected: 01/11/21 09:43 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte Field pH	Result 7.71 19.60 Point #1-5 d Sampling Result 7.72	Second G	rab		SU Celsius Unit SU	La	b Sample	Analyzed 01/11/21 05:55 01/11/21 05:55 ID: 440-277 Matrix: Analyzed 01/11/21 09:43	Dil Fac 1 284-3 Water Dil Fac 1
Date Collected: 01/11/21 05:55 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte Field pH Field Temperature Client Sample ID: Sample Date Collected: 01/11/21 09:43 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Analyte	Result 7.71 19.60 Point #1-	Second G	rab		SU Celsius Unit	La	b Sample	Analyzed 01/11/21 05:55 01/11/21 05:55 ID: 440-277 Matrix: Analyzed	Dil Fac 1 284-3 Water Dil Fac

Method: Field Sampling - Field Sampling									
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.70				SU			01/11/21 13:41	1
Field Temperature	21.10				Celsius			01/11/21 13:41	1

Client Sample Results

Client: Carlsbad Energy Center

Job ID: 440-277284-1

Field pH 7.61 SU 01/11/21 17:55 Field remperature 20.20 Celsius 01/11/21 17:55 Client Sample ID: Sample Point #1-1664 Composite Lab Sample ID: 440-27728/ Matrix: Wa Date Collected: 01/11/21 17:55 Matrix: Wa Analyte Result Qualifier ND D Analyte Result Qualifier NONE NONE D Composite - Sample Compositing NONE NONE D Prepared Analyzed Composited Yes NONE NONE D Prepared Analyzed Dil Composited Yes NONE NONE NONE D Prepared Analyzed Dil Composited Yes NONE NONE Unit D Prepared Analyzed Dil Analyte Result Qualifier NONE MONE Unit D Prepared Analyzed Dil Analyte Result Qualifier NO MONE UnitS21 10:00 01/15/21 21:45 Dil	Client Sample ID: Sample Date Collected: 01/11/21 17:55 Date Received: 01/12/21 19:45	5	Fourth G	rab			La	ib Sample	ID: 440-277 Matrix	
Field pH 7.61 SU 01/11/21 17:55 Field Temperature 20.20 Celsius 01/11/21 17:55 Client Sample ID: Sample Point #1-1664 Composite Lab Sample ID: 440-27728/ Matrix: Wa Multical 17:55 Cate Collected: 01/11/21 17:55 Lab Sample ID: 440-27728/ Matrix: Wa Multical 17:55 General Chemistry Analyte Result Qualifier ND 5.2 1.5 mg/L D Prepared Analyzed DI Method: Composite - Sample Compositing Analyte Result Qualifier ND NDNE DNNE D Prepared Analyzed DI Composited Yes NONE NONE NONE D Prepared Analyzed DI Analyte Result Qualifier ND 0.008 mg/L 01/15/21 10:00 01/15/21 21:45 Client Sample ID: Sample Point #2-Composite Lab Sample ID: 440-27728/ Matrix: Wa Matrix: Wa Date Received: 01/11/21 18:45 ND 0.008 mg/L 01/15/21 10:00 01/15/21 21:45 Commum ND 0.0050 0.0025 Mol 0.0115/21 10:00 <th></th>										
Field Temperature 20.20 Celisius 01/11/21 17:55 Client Sample ID: Sample Point #1-1664 Composite Date Collected: 01/11/21 17:55 Lab Sample ID: 440-277286 Matrix: Wa Date Received: 01/12/21 19:45 General Chemistry Analyto Result Qualifier RL MDL Unit D Prepared 01/14/21 07:17 Analyzed 01/14/21 07:17 DII Method: Composite - Sample Compositing Analyto Result Qualifier NONE NONE D Prepared Analyzed 01/14/21 08:38 DII Composite discussion Yes NONE NONE D Prepared Analyzed 01/14/21 08:38 DII Cate Collected: 01/11/21 18:44 Yes NONE Unit D Prepared Analyzed 01/15/21 10:00 01/15/21 21:45 Matrix: Wa Assenic ND 0.0050 0.0025 mg/L 01/15/21 10:00 01/15/21 21:45 Matrix: Wa Composite 0.14 0.010 0.0055 mg/L 01/15/21 10:00 01/15/21 21:45 Collected: 01/12/21 21:45 DII Composite 0.011 0.0055 mg/L 01/15/21 10	-		Qualifier	NONE	NONE		D	Prepared		Dil Fac
Date Collected: 01/11/21 17:55 Matrix: Wa General Chemistry Analyte Result Qualifier RL MD Unit D Prepared Analyzed Dil HEM ND 5.2 1.5 mg/L 01/14/21 07:17 01/14/21 07:17 Dil Method: Composite - Sample Compositing Analyte NoNE NONE Dit D Prepared Analyzed Dil Composited Yes NONE NONE Unit D Prepared Analyzed Dil Composited Yes NONE NONE Unit D Prepared Analyzed Dil Composited Yes NO 0.016 0.001 0.015/21 0.00 0.011/52/21 0.00										1
Analyte Result Qualifier RL MDL Unit p Prepared Analyzed DI HEM ND 5.2 1.5 mg/L 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 07:17 01/14/21 08:38 01 01/14/21 08:38 01 01/14/21 08:38 01 01/14/21 08:38 01 01/14/21 08:38 01 01/14/21 08:38 01 01/15/21 12/14 01/15/21 12/1	Date Collected: 01/11/21 17:55	5	1664 Con	nposite			La	ıb Sample		
HEM ND 5.2 1.5 mgL 01/14/21 07:17 01/14/21 07:17 Method: Composite - Sample Compositing Analyte Result Qualifier NONE NONE DII D Prepared Analyzed DII Composited Yes NONE NONE Unit D Prepared Analyzed DII Composited Yes NONE NONE Unit D Prepared Analyzed DII Composited Yes NONE Unit D Prepared Analyzed DII Cate Collected: 01/11/21 18:44 Matrix: Wa Matrix: Wa Atterno: ND 0.010 0.0099 mgL 01/15/21 10:00 01/15/21 21:45 Commum ND 0.0050 0.0025 mgL 01/15/21 10:00 01/15/21 21:45 Commum ND 0.0050 0.0025 mgL 01/15/21 10:00 01/15/21 21:45 Commum ND 0.0050 0.020 0.010 mgL 01/15/21 10:00 01/15/21 21:45 <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-									
Method: Composite - Sample Compositing Analyte Result Qualifier NONE NONE D Prepared 01/14/21 08:38 Dill 01/14/21 08:38 Composited Yes NONE NONE D Prepared 01/14/21 08:38 Dill 01/14/21 08:38 Composited Yes NONE Lab Sample ID: 440-277284 Matrix: Wa Jate Received: 01/12/21 19:45 Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL D Prepared Analyzed Dill 01/15/21 10:00 O1/15/21 21:45 Dill 01/15/21 10:00 Dill 01/15/21 10:00 Dill 01/15/21 10:00 Dill 01/			Qualifier				D			Dil Fac
Analyte Result Qualifier NONE NONE Unit D Prepared Analyzed Dil Composited Yes NONE NONE Unit D Prepared Analyzed Dil Client Sample ID: Sample Point #2-Composite tate Collected: 01/11/2/1 18:44 Lab Sample ID: 440-277284 Matrix: Wa Analyte Result Qualifier RL 0.0008 mg/L Dil/15/21 10:00 01/15/21 21:45 Dil Analyte Result Qualifier RL 0.0008 mg/L 01/15/21 10:00 01/15/21 21:45 Dil Cadmium ND 0.0050 0.0025 mg/L 01/15/21 10:00 01/15/21 21:45 Dil Copper 0.14 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Dil Molybdenum 0.036 0.020 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Selenium ND 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Silver ND	HEM	ND		5.2	1.5	mg/L		01/14/21 07:17	01/14/21 07:17	1
Composited Yes NONE 01/14/21 08:38 Client Sample ID: Sample Point #2-Composite bate Collected: 01/11/2/1 18:44 Lab Sample ID: 440-277284 Matrix: Wa State Received: 01/12/21 19:45 Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable Analyte Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable Analyte Multical analyte Multical analyte Prepared 01/15/21 10:00 Analyzed 01/15/21 10:00 Dill 01/15/21 10:00 Analyzed 01/15/21 10:00 Dill 01/15/21 10:00 Analyzed 01/15/21 10:00 Dill 01/15/21 10:00 Dill 01/15/21 10:00 Analyzed 01/15/21 10:00 Dill 01/15/21 10:00			-	NONE	NONE	Unit	р	Prepared	Analyzed	Dil Fac
Date Collected: 01/11/21 18:44 Matrix: Water Anatyce Result Qualifier RL MDL Unit D Prepared Analyzed Dill Ansenic ND 0.010 0.0089 mg/L 01/15/21 Dill Dill 01/15/21 Dill Dill 01/15/21 Dill	-		Quanner		NONE			Tepareu	-	1
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Arsenic ND 0.010 0.0085 mg/L 01/15/21 10:00 01/15/21 10:00 01/15/21 10:00 01/15/21 10:00 01/15/21 10:00 01/15/21 21:45 Chromium ND 0.0050 0.0025 mg/L 01/15/21 10:00 01/15/21 21:45 Copper 0.14 0.010 0.0050 0.0025 mg/L 01/15/21 10:00 01/15/21 21:45 ND 0.0050 0.0036 0.010 0.017/15/21 10:00 01/15/21 21:45 ND ND 0.0050 0.0036 0.010 01/15/21 10:00 01/15/21 21:45 ND ND ND 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 ND ND ND ND 0.0010 0.0087 mg/L 01/15/21 10:00 01/15/21 21:45 ND ND </td <td>Date Collected: 01/11/21 18:44 Date Received: 01/12/21 19:45</td> <td>4 5</td> <td></td> <td></td> <td></td> <td></td> <td>La</td> <td>ib Sample</td> <td></td> <td></td>	Date Collected: 01/11/21 18:44 Date Received: 01/12/21 19:45	4 5					La	ib Sample		
Arsenic ND 0.010 0.0089 mg/L 01/15/21 <td></td> <td></td> <td></td> <td></td> <td>MDL</td> <td>Unit</td> <td>D</td> <td>Prepared</td> <td>Analvzed</td> <td>Dil Fa</td>					MDL	Unit	D	Prepared	Analvzed	Dil Fa
Cadmium ND 0.0050 0.0025 mg/L 01/15/21 10:00 01/15/21 21:45 Chromium ND 0.0050 0.0025 mg/L 01/15/21 10:00 01/15/21 21:45 Copper 0.14 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Lead ND 0.0056 0.0038 mg/L 01/15/21 10:00 01/15/21 21:45 Molybdenum 0.036 0.020 0.010 mg/L 01/15/21 10:00 01/15/21 21:45 Nickel 0.0079 J 0.010 0.0087 mg/L 01/15/21 10:00 01/15/21 21:45 Selenium ND 0.010 0.0087 mg/L 01/15/21 10:00 01/15/21 21:45 Silver ND 11+ 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Method: 245.1 - Mercury (CVAA) Manalyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Total Suspended Solids 1200 10 5.0	-	ND		0.010	0.0089	mg/L		•		
Copper 0.14 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Lead ND 0.0050 0.0038 mg/L 01/15/21 10:00 01/15/21 21:45 Molybdenum 0.036 0.020 0.010 mg/L 01/15/21 10:00 01/15/21 21:45 Nickel 0.0079 J 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Selenium ND 0.010 0.0067 mg/L 01/15/21 10:00 01/15/21 21:45 Silver ND 0.101 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Zinc 0.66 0.020 0.012 mg/L 01/15/21 10:00 01/15/21 21:45 Method: 245.1 - Mercury (CVAA) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Method: 245.1 - Mercury (CVAA) ND 0.00020 0.00010 mg/L 01/15/21 11:25 01/20/21 11:25 01/20/21 11:25 01/20/21 11:25 01/20/21 11:25 01/20/21 11:25	Cadmium	ND		0.0050		-		01/15/21 10:00	01/15/21 21:45	
Copper 0.14 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Lead ND 0.0050 0.0038 mg/L 01/15/21 10:00 01/15/21 21:45 Molybdenum 0.036 0.020 0.010 mg/L 01/15/21 10:00 01/15/21 21:45 Nickel 0.0079 J 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Selenium ND 0.010 0.0067 mg/L 01/15/21 10:00 01/15/21 21:45 Silver ND 0.101 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Zinc 0.66 0.020 0.012 mg/L 01/15/21 10:00 01/15/21 21:45 Method: 245.1 - Mercury (CVAA) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Method: 245.1 - Mercury (CVAA) ND 0.00020 0.0010 mg/L 01/15/21 11:25 01/20/21 11:25 01/20/21 11:25 01/20/21 11:25 01/20/21 11:25 01/20/21 11:25	Chromium	ND		0.0050	0.0025	mg/L		01/15/21 10:00	01/15/21 21:45	
Lead ND 0.0050 0.0038 mg/L 01/15/21 10:00 01/15/21 21:45 Molybdenum 0.036 0.020 0.010 mg/L 01/15/21 10:00 01/15/21 21:45 Nickel 0.0079 J 0.010 0.0087 mg/L 01/15/21 10:00 01/15/21 21:45 Selenium ND 0.010 0.0087 mg/L 01/15/21 10:00 01/15/21 21:45 Silver ND ^14+ 0.010 0.0087 mg/L 01/15/21 10:00 01/15/21 21:45 Zinc 0.66 0.020 0.012 mg/L 01/15/21 10:00 01/15/21 21:45 Method: 245.1 - Mercury (CVAA) Result Qualifier RL MDL Unit D Prepared Analyzed Dil Mercury ND Qualifier RL MDL Unit D Prepared Analyzed Dil Total Dissolved Solids 1200 10 5.0 mg/L D Prepared Analyzed Dil Biochemical Oxygen Demand <t< td=""><td>Copper</td><td>0.14</td><td></td><td>0.010</td><td>0.0050</td><td>mg/L</td><td></td><td>01/15/21 10:00</td><td>01/15/21 21:45</td><td></td></t<>	Copper	0.14		0.010	0.0050	mg/L		01/15/21 10:00	01/15/21 21:45	
Nickel 0.0079 J 0.010 0.0050 mg/L 01/15/21 01/15/21 21:45 Selenium ND 0.010 0.0087 mg/L 01/15/21 01/15/21 21:45 Silver ND ^1+ 0.010 0.0050 mg/L 01/15/21 01/15/21 21:45 Method: 245.1 Mercury (CVAA) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Mercury ND ND 0.0020 0.0010 mg/L D Prepared Analyzed Dil Mercury ND Qualifier RL MDL Unit D Prepared Analyzed Dil General Chemistry Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Total Dissolved Solids 4.0 1.0 0.50 mg/L D Prepared Analyzed Dil Biochemical		ND		0.0050	0.0038	mg/L		01/15/21 10:00	01/15/21 21:45	
Nickel 0.0079 J 0.010 0.0050 mg/L 01/15/21 01/15/21 21:00 01/15/21 21:45 Selenium ND ND 0.010 0.0087 mg/L 01/15/21 01/15/21 21:45 Silver ND ^1+ 0.010 0.0050 mg/L 01/15/21 01/15/21 21:45 Zinc 0.66 0.020 0.012 mg/L 01/15/21 01/15/21 21:45 Method: 245.1 - Mercury (CVAA) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Mercury ND 0.00020 0.00010 mg/L D Prepared Analyzed Dil General Chemistry ND 1200 10 5.0 mg/L D Prepared Analyzed Dil Total Dissolved Solids 4.0 1.0 0.50 mg/L D Prepared Analyzed Dil Analyte Result Q	Molybdenum	0.036		0.020	0.010	mg/L		01/15/21 10:00	01/15/21 21:45	
Silver ND ^+1+ 0.010 0.0050 mg/L 01/15/21 10:00 01/15/21 21:45 Zinc 0.66 0.020 0.012 mg/L 01/15/21 10:00 01/15/21 21:45 Method: 245.1 - Mercury (CVAA) Result Qualifier RL MDL Unit D Prepared Analyzed Dil Metroury ND Qualifier RL MDL Unit D Prepared Analyzed Dil General Chemistry ND Qualifier RL MDL Unit D Prepared Analyzed Dil Total Dissolved Solids 1200 10 5.0 mg/L D Prepared Analyzed Dil Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil 01/18/21 10:02 10 5.0 mg/L 0 Prepared Analyzed Dil Total Dissolved Solids 4.0 1.0 0.50 mg/L <th< td=""><td></td><td>0.0079</td><td>J</td><td>0.010</td><td>0.0050</td><td>mg/L</td><td></td><td>01/15/21 10:00</td><td>01/15/21 21:45</td><td></td></th<>		0.0079	J	0.010	0.0050	mg/L		01/15/21 10:00	01/15/21 21:45	
Zinc0.660.0200.012mg/L01/15/21 10:0001/15/21 21:45Method: 245.1 - Mercury (CVAA) AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDilMercuryND0.000200.00010mg/LDPreparedAnalyzedDilGeneral Chemistry AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDilTotal Dissolved Solids1200105.0mg/LDO1/120/21 11:25DilO1/18/21 09:28DilTotal Suspended Solids4.01.00.50mg/LDPreparedAnalyzedDilAnalyteResultQualifierRLRLUnitDPreparedAnalyzedDilBiochemical Oxygen Demand3.72.02.0mg/LDPreparedAnalyzedDilClient Sample ID: Sample Point #2-First Grab rate Collected: 01/11/21 19:45Lab Sample ID: 440-277284 Matrix: WaMatrix: WaMethod: Field Sampling - Field Sampling AnalyteResultQualifierNONENONEUnitDPreparedAnalyzedDil	Selenium	ND		0.010	0.0087	mg/L		01/15/21 10:00	01/15/21 21:45	
Method: 245.1 - Mercury (CVAA) Result Qualifier RL MDL Unit D Prepared Analyzed Dil Mercury ND 0.00020 0.00010 mg/L D Prepared Analyzed Dil General Chemistry Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Total Dissolved Solids 1200 10 5.0 mg/L D Prepared Analyzed Dil Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Total Suspended Solids 4.0 1.0 0.50 mg/L 01/18/21 09:28 01/18/21 14:59 Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Biochemical Oxygen Demand 3.7 2.0 2.0 mg/L D Prepared Analyzed Matrix: Wa Vate Collected: 01/11/21 06:03 Matrix: Wa Matrix: Wa Matrix: Wa Matrix: Wa	Silver	ND	^1+	0.010	0.0050	mg/L		01/15/21 10:00	01/15/21 21:45	
AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDilMercuryND0.000200.00010mg/L0//20/21 11:250//20/21 11:250//20/21 16:52DilGeneral Chemistry AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDilTotal Dissolved Solids1200105.0mg/LDPreparedAnalyzedDilTotal Suspended Solids4.01.00.50mg/LDPreparedAnalyzedDilAnalyteResultQualifierRLRLUnitDPreparedAnalyzedDilBiochemical Oxygen Demand3.72.02.02.0mg/LDPreparedAnalyzedDilClient Sample ID: Sample Point #2-First GrabLab Sample ID: 440-277284 Matrix: WaMatrix: WaMatrix: WaMethod: Field Sampling - Field Sampling AnalyteResult QualifierNONENONEUnitDPreparedAnalyzedDil	Zinc	0.66		0.020	0.012	mg/L		01/15/21 10:00	01/15/21 21:45	
Mercury ND 0.00020 0.00010 mg/L 01/20/21 11:25 01/20/21 16:52 General Chemistry Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Total Dissolved Solids 1200 10 5.0 mg/L 01/20/21 11:25 01/20/21 16:52 Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Total Dissolved Solids 4.0 1.0 0.50 mg/L 01/18/21 09:28 01/18/21 09:28 01/18/21 09:28 01/18/21 14:59 01/18/21 14:59 01/18/21 10:02 01/18/21 10:02 01/18/21 10:02 01/18/21 10:02 01/13/			Qualifier	Ы	MDI	Unit	D	Branarad	Analyzad	
General Chemistry Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Total Dissolved Solids 1200 10 5.0 mg/L 01/18/21 09:28 01/18/21 09:28 01/18/21 14:59 Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Biochemical Oxygen Demand 3.7 2.0 2.0 mg/L D Prepared Analyzed Dil Client Sample ID: Sample Point #2-First Grab Lab Sample ID: 440-277284 Matrix: Wa Mate Received: 01/11/21 06:03 Matrix: Wa Matrix: Wa Method: Field Sampling - Field Sampling NONE NONE NONE D Prepared Analyzed Dil			Quaimer							DIIFa
AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDilTotal Dissolved Solids1200105.0mg/L001/18/21 09:2801/18/21 09:2801/18/21 09:2801/18/21 14:59Total Suspended Solids4.01.00.50mg/L001/18/21 14:5901/18/21 14:5901/18/21 14:59AnalyteResultQualifierRLRLVIIIDPreparedAnalyzedDilBiochemical Oxygen Demand3.72.02.02.0mg/LDPreparedAnalyzedDilClient Sample ID: Sample Point #2-First GrabLab Sample ID: 440-277284Vate Collected: 01/11/21 06:03Matrix: WaMatrix: WaMethod: Field Sampling - Field SamplingResultQualifierNONENONEUnitDPreparedAnalyzedDilMatrix: WaResultQualifierNONENONEUnitDPreparedAnalyzedDil	wier cur y	ND		0.00020	0.00010	ilig/L		01/20/21 11.25	01/20/21 10.52	
Total Dissolved Solids1200105.0mg/L01/18/21 09:28Total Suspended Solids4.01.00.50mg/L01/18/21 14:59AnalyteResultQualifierRLRLRLUnitDPreparedAnalyzedDilBiochemical Oxygen Demand3.72.02.02.0mg/LDAnalyzedDilClient Sample ID: Sample Point #2-First GrabLab Sample ID: 440-277284Vate Collected: 01/11/21 06:03Matrix: WaMatrix: WaVate Received: 01/12/21 19:45ResultQualifierNONENONEUnitDPreparedAnalyzedDilMethod: Field Sampling AnalyteResultQualifierNONENONEUnitDPreparedAnalyzedDil						Unit	-	Prepared	Analyzed	Dil Fa
Total Suspended Solids 4.0 1.0 0.50 mg/L 01/18/21 14:59 Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Biochemical Oxygen Demand 3.7 2.0 2.0 2.0 mg/L D Prepared Analyzed Dil Client Sample ID: Sample Point #2-First Grab Lab Sample ID: 440-277284 State Collected: 01/12/21 19:45 Matrix: Wa Method: Field Sampling - Field Sampling Result Qualifier NONE NONE Unit D Prepared Analyzed Dil		Result	Qualifier	RL	MDL		U			
Biochemical Oxygen Demand 3.7 2.0 2.0 mg/L 01/13/21 10:02 Client Sample ID: Sample Point #2-First Grab Lab Sample ID: 440-277284 Date Collected: 01/11/21 06:03 Matrix: Wa Date Received: 01/12/21 19:45 Matrix: Wa Method: Field Sampling - Field Sampling NONE NONE Unit D Prepared Analyzed Dil	Analyte		Qualifier						01/18/21 09:28	
Client Sample ID: Sample Point #2-First Grab Lab Sample ID: 440-277284 Date Collected: 01/11/21 06:03 Matrix: Wa Date Received: 01/12/21 19:45 Matrix: Wa Method: Field Sampling - Field Sampling Result Qualifier NONE NONE D Prepared Analyzed Dil	Analyte Total Dissolved Solids	1200	Qualifier	10	5.0	mg/L				
Date Collected: 01/11/21 06:03 Date Received: 01/12/21 19:45 Method: Field Sampling - Field Sampling Analyte Result Qualifier NONE NONE Unit D Prepared Analyzed Dil	Analyte Total Dissolved Solids Total Suspended Solids Analyte	1200 4.0 Result		10 1.0 RL	5.0 0.50 RL	mg/L mg/L Unit		<u>.</u>	01/18/21 14:59 Analyzed	Dil Fac
Analyte Result Qualifier NONE NONE Unit D Prepared Analyzed Dil	Analyte Total Dissolved Solids Total Suspended Solids Analyte	1200 4.0 Result		10 1.0 RL	5.0 0.50 RL	mg/L mg/L Unit		<u>.</u>	01/18/21 14:59 Analyzed	Dil Fa
	Analyte Total Dissolved Solids Total Suspended Solids Analyte Biochemical Oxygen Demand Client Sample ID: Sample Pate Collected: 01/11/21 06:03	1200 4.0 Result 3.7 e Point #2-	Qualifier	10 1.0 RL 2.0	5.0 0.50 RL	mg/L mg/L Unit	D	Prepared	01/18/21 14:59 Analyzed 01/13/21 10:02 ID: 440-277	Dil Fa
Field pH 7.28 SU 01/11/21 06:03	Analyte Total Dissolved Solids Total Suspended Solids Analyte Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 01/11/21 06:03 Date Received: 01/12/21 19:45	1200 4.0 Result 3.7 e Point #2-	Qualifier	10 1.0 RL 2.0	5.0 0.50 RL	mg/L mg/L Unit	D	Prepared	01/18/21 14:59 Analyzed 01/13/21 10:02 ID: 440-277	Dil Fa
	Analyte Total Dissolved Solids Total Suspended Solids Analyte Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 01/11/21 06:03 Date Received: 01/12/21 19:45 Method: Field Sampling - Fie Analyte	1200 4.0 Result 3.7 e Point #2- 3 5 eld Sampling Result	Qualifier First Gral	10 1.0 RL 2.0	5.0 0.50 RL 2.0	mg/L mg/L Unit mg/L	D D La	Prepared	01/18/21 14:59 Analyzed 01/13/21 10:02 ID: 440-277 Matrix	Dil Fac

Client Sample Results

			ampic	i (CSui	13				
Client: Carlsbad Energy Center Project/Site: EWA Waste Water Per	mit						·	Job ID: 440-27	7284-1
Client Sample ID: Sample P Date Collected: 01/11/21 09:49 Date Received: 01/12/21 19:45	oint #2-	Second Gr	ab			La	ib Sample	ID: 440-277 Matrix	7284-9 : Water
Method: Field Sampling - Field S Analyte	· · ·	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.31				SU			01/11/21 09:49	1
Field Temperature	19.70				Celsius			01/11/21 09:49	1
Client Sample ID: Sample P Date Collected: 01/11/21 13:46 Date Received: 01/12/21 19:45	oint #2-	Third Grab				Lat	Sample II	D: 440-2772 Matrix	284-10 : Water
Method: Field Sampling - Field S	· · ·	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.29		NONE	NONE	SU		Flepaleu	01/11/21 13:46	
Field Temperature	21.00				Celsius			01/11/21 13:46	1
Client Sample ID: Sample P Date Collected: 01/11/21 18:04 Date Received: 01/12/21 19:45	oint #2-	Fourth Gra	b			Lat	o Sample I	D: 440-2772 Matrix	284-11 : Water
Method: Field Sampling - Field Sampling - Field S	• •	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.09				SU			01/11/21 18:04	1
Field Temperature	20.20				Celsius			01/11/21 18:04	1
Client Sample ID: Sample P Date Collected: 01/11/21 18:04 Date Received: 01/12/21 19:45	oint #2-	1664 Comp	osite			Lab	Sample II	D: 440-2772 Matrix	284-12 : Water
General Chemistry						_			
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND		5.2	1.4	mg/L		01/14/21 07:17	01/14/21 07:17	1
Method: Composite - Sample Co	ompositir	ıg							
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE	_		01/14/21 08:39	1

Method Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Job ID: 440-277284-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL IRV
245.1	Mercury (CVAA)	EPA	TAL IRV
1664A	HEM and SGT-HEM	1664A	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL IRV
SM5210B	BOD, 5 Day	SM	TAL IRV
Field Sampling	Field Sampling	EPA	TAL IRV
Composite	Sample Compositing	None	TAL IRV
1664A	HEM and SGT-HEM (SPE)	1664A	TAL IRV
200.2	Preparation, Total Recoverable Metals	EPA	TAL IRV
245.1	Preparation, Mercury	EPA	TAL IRV
Protocol Refe	erences:		
1664A = E	PA-821-98-002		
EPA = US	Environmental Protection Agency		

None = None

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

Laboratory References:

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Initial

Amount

25 mL

20 mL

50 mL

350 mL

50 mL

Batch

Number

636127

636276

636566

636631

636297

636296

635971

Final

Amount

25 mL

20 mL

100 mL

1000 mL

300 mL

Dil

1

1

1

1

1

Factor

Run

Batch

Туре

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total Recoverable

Total Recoverable

Client Sample ID: Sample Point #1-Composite Date Collected: 01/11/21 18:59 Date Received: 01/12/21 19:45

Batch

200.2

245.1

245.1

SM 2540C

SM 2540D

SM5210B

Method

200.7 Rev 4.4

Lab

TAL IRV

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 440-277284-1 Matrix: Water

Prepared

or Analyzed Analyst

01/15/21 10:00 VYQ5

01/15/21 21:38 K1UV

01/20/21 11:25 MA6V

01/20/21 16:46 MA6V

01/18/21 09:28 XL

01/18/21 14:59 XL

01/13/21 10:02 XL

Lab Sample ID: 440-277284-2

Lab Sample ID: 440-277284-3

Lab Sample ID: 440-277284-4

Lab Sample ID: 440-277284-5

Lab Sample ID: 440-277284-6

Client Sample ID: Sample Point #1-First Grab Date Collected: 01/11/21 05:55

Date Received: 01/12/21 19:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analvst	Lab
Total/NA	Analysis	Field Sampling		1	<u>, anount</u>		636029	01/11/21 05:55	P1R	TAL IRV

Client Sample ID: Sample Point #1-Second Grab Date Collected: 01/11/21 09:43 Date Received: 01/12/21 19:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			636029	01/11/21 09:43	P1R	TAL IRV

Client Sample ID: Sample Point #1-Third Grab Date Collected: 01/11/21 13:41 Date Received: 01/12/21 19:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			636029	01/11/21 13:41	P1R	TAL IRV

Client Sample ID: Sample Point #1-Fourth Grab Date Collected: 01/11/21 17:55 Date Received: 01/12/21 19:45

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			636029	01/11/21 17:55	P1R	TAL IRV

Client Sample ID: Sample Point #1-1664 Composite Date Collected: 01/11/21 17:55 Date Received: 01/12/21 19:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			955 mL	1000 mL	636062	01/14/21 07:17	GT1R	TAL IRV
Total/NA	Analysis	1664A		1			636064	01/14/21 07:17	GT1R	TAL IRV
Total/NA	Analysis	Composite		1			636070	01/14/21 08:38	GT1R	TAL IRV

Initial

Amount

25 mL

20 mL

100 mL

1000 mL

300 mL

Batch

Number

636127

636276

636566

636631

636297

636296

635971

Final

Amount

25 mL

20 mL

100 mL

1000 mL

300 mL

Dil

1

1

1

1

1

Factor

Run

Batch

Type

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Client Sample ID: Sample Point #2-Composite Date Collected: 01/11/21 18:44 Date Received: 01/12/21 19:45

Batch

200.2

245.1

245.1

SM 2540C

SM 2540D

SM5210B

Method

200.7 Rev 4.4

Lab

TAL IRV

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 440-277284-7 Matrix: Water

Analyst

Prepared

or Analyzed

01/15/21 10:00 VYQ5

01/15/21 21:45 K1UV

01/20/21 11:25 MA6V

01/20/21 16:52 MA6V

01/18/21 09:28 XL

01/18/21 14:59 XL

01/13/21 10:02 XL

Lab Sample ID: 440-277284-8

Lab Sample ID: 440-277284-9

Lab Sample ID: 440-277284-10

Lab Sample ID: 440-277284-11

Lab Sample ID: 440-277284-12

Client Sample ID: Sample Point #2-First Grab Date Collected: 01/11/21 06:03

Date Received: 01/12/21 19:45

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total Recoverable

Total Recoverable

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			636029	01/11/21 06:03	P1R	TAL IRV

Client Sample ID: Sample Point #2-Second Grab Date Collected: 01/11/21 09:49 Date Received: 01/12/21 19:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1		-	636029	01/11/21 09:49	P1R	TAL IRV

Client Sample ID: Sample Point #2-Third Grab Date Collected: 01/11/21 13:46 Date Received: 01/12/21 19:45

Client Sample ID: Sample Point #2-Fourth Grab Date Collected: 01/11/21 18:04 Date Received: 01/12/21 19:45

Dil Batch Batch Initial Final Batch Prepared Method Prep Type Туре Amount Amount Number or Analyzed Run Factor Analyst Lab Total/NA Analysis Field Sampling 636029 01/11/21 18:04 P1R TAL IRV

Client Sample ID: Sample Point #2-1664 Composite Date Collected: 01/11/21 18:04 Date Received: 01/12/21 19:45

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			970 mL	1000 mL	636062	01/14/21 07:17	GT1R	TAL IRV
Total/NA	Analysis	1664A		1			636064	01/14/21 07:17	GT1R	TAL IRV
Total/NA	Analysis	Composite		1			636070	01/14/21 08:39	GT1R	TAL IRV

Lab Chronicle

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Laboratory References:

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 440-636127/1-A Matrix: Water Analysis Batch: 636276

	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		01/15/21 10:00	01/15/21 21:34	1
Cadmium	ND		0.0050	0.0025	mg/L		01/15/21 10:00	01/15/21 21:34	1
Chromium	ND		0.0050	0.0025	mg/L		01/15/21 10:00	01/15/21 21:34	1
Copper	ND		0.010	0.0050	mg/L		01/15/21 10:00	01/15/21 21:34	1
Lead	ND		0.0050	0.0038	mg/L		01/15/21 10:00	01/15/21 21:34	1
Molybdenum	ND		0.020	0.010	mg/L		01/15/21 10:00	01/15/21 21:34	1
Nickel	ND		0.010	0.0050	mg/L		01/15/21 10:00	01/15/21 21:34	1
Selenium	ND		0.010	0.0087	mg/L		01/15/21 10:00	01/15/21 21:34	1
Silver	ND	^1+	0.010	0.0050	mg/L		01/15/21 10:00	01/15/21 21:34	1
Zinc	ND		0.020	0.012	mg/L		01/15/21 10:00	01/15/21 21:34	1

Lab Sample ID: LCS 440-636127/2-A Matrix: Water Analysis Batch: 636276

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 636127

Client Sample ID: Sample Point #1-Composite

Prep Type: Total Recoverable

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	0.500	0.502		mg/L		100	85 - 115
Cadmium	0.500	0.515		mg/L		103	85 - 115
Chromium	0.500	0.526		mg/L		105	85 - 115
Copper	0.500	0.512		mg/L		102	85 - 115
Lead	0.500	0.510		mg/L		102	85 - 115
Molybdenum	0.500	0.465		mg/L		93	85 - 115
Nickel	0.500	0.519		mg/L		104	85 - 115
Selenium	0.500	0.511		mg/L		102	85 - 115
Silver	0.250	0.253	^1+	mg/L		101	85 - 115
Zinc	0.500	0.533		mg/L		107	85 - 115

Lab Sample ID: 440-277284-1 MS Matrix: Water

Analysis Batch: 636276 Prep Batch: 636127 Spike MS MS %Rec. Sample Sample Analyte **Result Qualifier** Added **Result Qualifier** Unit D %Rec Limits Arsenic ND 0.500 0.548 mg/L 110 70 - 130 Cadmium ND 0.500 0.510 mg/L 102 70 - 130 Chromium 0.0038 0.500 0.540 mg/L 107 70 - 130 J 0.024 0.500 0.605 70-130 Copper mg/L 116 Lead ND 0.500 0.509 mg/L 102 70 - 130 0.500 106 0.14 0.672 mg/L 70 - 130 Molybdenum 103 70 - 130 Nickel 0.049 0.500 0.563 mg/L Selenium ND 0.500 0.540 mg/L 108 70 - 130 Silver ND ^1+ 0.250 0.270 ^1+ mg/L 108 70 - 130 Zinc 0.500 mg/L 112 70 - 130 0.84 1.40

Lab Sample ID: 440-277284-1 MSD **Client Sample ID: Sample Point #1-Composite Matrix: Water** Prep Type: Total Recoverable Analysis Batch: 636276 Prep Batch: 636127 MSD MSD Sample Sample Spike %Rec. RPD Analyte **Result Qualifier** Added Result Qualifier Limits RPD Limit Unit D %Rec ND 0.500 0.545 Arsenic 109 70 - 130 20 mg/L 0

Eurofins Calscience Irvine

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 636127

Page	12	of	22	

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

Lab Sample ID: 440-277284-1 MSD Client Sample ID: Sample Point #1-Composite **Matrix: Water Prep Type: Total Recoverable** Analysis Batch: 636276 Prep Batch: 636127 MSD MSD %Rec. RPD Sample Sample Spike Analyte **Result Qualifier** Added **Result Qualifier** Unit D %Rec Limits RPD Limit Cadmium ND 0.500 0.512 mg/L 102 70 - 130 0 20 0.0038 Chromium J 0.500 0.540 mg/L 107 70 - 130 0 20 0.024 0.500 0.592 70 - 130 20 Copper mg/L 114 2 Lead ND 0.500 0.514 mg/L 103 70 - 130 1 20 Molybdenum 0.14 0.500 0.660 mg/L 104 70 - 130 2 20 20 Nickel 0.049 0.500 0.568 mg/L 104 70 - 130 1 Selenium ND 0.500 0.541 mg/L 108 70 - 130 0 20 Silver ^1+ 0.250 0.265 ^1+ mg/L 106 2 20 ND 70 - 130 Zinc 0.84 0.500 1.41 115 70 - 130 20 mg/L 1

Method: 245.1 - Mercury (CVAA)

HEM

Lab Sample ID: MB 440-636 Matrix: Water Analysis Batch: 636631	566/1-A								C	lie	ent Samp	ole ID: M Prep Ty Prep B	vpe: To	tal/NA
	I	MB MB												
Analyte	Res	sult Qualifi	er	RL			Unit		D	P	repared	Analy	zed	Dil Fac
Mercury		ND	0.0	0020	0.00	010	mg/L		0	1/2	0/21 11:25	01/20/21	16:41	1
Lab Sample ID: LCS 440-63 Matrix: Water Analysis Batch: 636631	6566/2-A		Spike		LCS	LCS		Cli	ent S	Sar	nple ID:	Lab Cor Prep Ty Prep B %Rec.	vpe: To	tal/NA
Analyte			Added		Result			Unit		D	%Rec	Limits		
Mercury			0.00400		0.00416			mg/L		_	104	85 - 115		
Lab Sample ID: 440-277284 Matrix: Water Analysis Batch: 636631	-1 MS Sample	Sample	Spike		MS	MS	Clier	nt Sam	ple I	D:	Sample	Point # Prep Ty Prep B %Rec.	vpe: To	tal/NA
Analyte	•	Qualifier	Added		Result		lifier	Unit		D	%Rec	Limits		
Mercury	ND		0.00400		0.00416			mg/L		-	104	75 - 125		
Lab Sample ID: 440-277284 Matrix: Water Analysis Batch: 636631	-1 MSD						Clier	nt Sam	ple l	D:	Sample	Point # Prep Ty Prep B	vpe: To	tal/NA
· · · · · · · · · · · · · · · · · · ·	Sample	Sample	Spike		MSD	MSE)					%Rec.		RPD
Analyte	Result	Qualifier	Added		Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
Mercury	ND		0.00400	C	0.00411			mg/L		_	103	75 - 125	1	20
Method: 1664A - HEM ar	nd SGT-H	EM												
Lab Sample ID: MB 440-636 Matrix: Water Analysis Batch: 636064		МВ МВ							C	lie	ent Samp	ole ID: N Prep Ty Prep B	vpe: To	tal/NA
Analyte	-	MB MB sult Qualifi	or	RL		мпі	Unit		D	Þ	repared	Analy	zed	Dil Fac
Analyte	Res		ei		I		onit		<u> </u>		repareu	Analy	zeu	DIFac

01/14/21 07:17 01/14/21 07:17

5.0

1.4 mg/L

ND

1

Job ID: 440-277284-1

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 440-63	36062/2-A					Clie	ent Sa	nple ID:	Lab Cor	trol S	ample
Matrix: Water									Prep Ty		
Analysis Batch: 636064									Prep Ba	•	
Analysis Datch. 050004			Spike	1.09	LCS				%Rec.		50002
Analyta			Added	_	Qualifier	Unit	D	%Rec	Limits		
Analyte					Quaimer		<u>D</u>				
HEM			40.0	37.70		mg/L		94	78 - 114		
Lab Sample ID: LCSD 440-	636062/3-A				C	Client S	ample	ID: Lab	Control		
Matrix: Water									Prep Ty	-	
Analysis Batch: 636064			• •						Prep Ba	atcn: 6	
			Spike		LCSD		_		%Rec.		RPI
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
HEM			40.0	39.60		mg/L		99	78 - 114	5	1
Lab Sample ID: 440-277284	4-6 MS			C	lient Sa	mple ID	: Sam	ole Poin	t #1-1664	1 Com	posite
Matrix: Water									Prep Ty		
Analysis Batch: 636064									Prep Ba		
Analysis Batch. 000004	Sample	Sample	Spike	MS	MS				%Rec.		0000
Analyte	•	Qualifier	Added	_	Qualifier	Unit	D	%Rec	Limits		
HEM	ND		41.9	36.96	Quaimer		Ľ	88	78 - 114		
	ND		41.9	30.90		mg/L		00	70-114		
Lab Sample ID: 440-277284 Matrix: Water	4-6 MSD			C	Client Sa	mple ID	: Sam	ple Poin			
									Prep Ty		
Analysis Batch: 636064									Prep Ba	atch: 6	
									%Rec.		RP
	Sample	•	Spike	-	MSD						
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Analyte HEM	•	•	•	-	-	Unit mg/L	<u>D</u>	%Rec		RPD 3	Lim
Analyte HEM Aethod: SM 2540C - So	Result ND	Qualifier	Added 41.9	Result 35.92	-		<u> </u>		Limits		Lim
HEM Iethod: SM 2540C - So Lab Sample ID: MB 440-630	Result ND	Qualifier	Added 41.9	Result 35.92	-			86	Limits 78 - 114	3 ethod	Lim 1 Blan
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water	Result ND	Qualifier	Added 41.9	Result 35.92	-			86	Limits 78 - 114	3 ethod	Lim 1 Blan
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water	Result ND	Qualifier	Added 41.9	Result 35.92	-			86	Limits 78 - 114	3 ethod	Lim 1 Blan
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297	Result ND lids, Tota 6297/1	Qualifier	Added 41.9 ed (TDS	Result 35.92	Qualifier		Clie	ent Sam	Limits 78 - 114 ple ID: M Prep Ty	ethod pe: To	Lim 1 Blan tal/N
HEM Iethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte	Result ND lids, Tota 6297/1	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92	Qualifier MDL Unit	mg/L	Clie	86	Limits 78 - 114 ple ID: M Prep Ty Analy:	3 ethod pe: To zed	Lim 1 Blan tal/N
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte	Result ND lids, Tota 6297/1	Qualifier	Added 41.9 ed (TDS	Result 35.92	Qualifier	mg/L	Clie	ent Sam	Limits 78 - 114 ple ID: M Prep Ty	3 ethod pe: To zed	Lim 1 Blan tal/N/ Dil Fa
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids	Result ND Iids, Tota 6297/1 Re	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92	Qualifier MDL Unit	mg/L	Clie	ent Sam	Limits 78 - 114 ple ID: M Prep Ty 01/18/21	3 ethod pe: To zed 09:28	Lim 1 Blan tal/N
HEM Iethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63	Result ND Iids, Tota 6297/1 Re	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92	Qualifier MDL Unit	mg/L	Clie	ent Sam	Limits 78 - 114 ple ID: M Prep Ty - Analy: 01/18/21 Lab Cor	ethod pe: To zed 09:28	Lim 1 Blan tal/N Dil Fa
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63 Matrix: Water	Result ND Iids, Tota 6297/1 Re	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92	Qualifier MDL Unit	mg/L	Clie	ent Sam	Limits 78 - 114 ple ID: M Prep Ty 01/18/21	ethod pe: To zed 09:28	Lim 1 Blan tal/N/ Dil Fa
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63	Result ND Iids, Tota 6297/1 Re	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92) RL 10	Qualifier MDL Unit 5.0 mg/L	mg/L	Clie	ent Sam	Limits 78 - 114 Ple ID: M Prep Ty <u>Analy:</u> 01/18/21 Lab Cor Prep Ty	ethod pe: To zed 09:28	Lim 1 Blan tal/N/ Dil Fa
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63 Matrix: Water Analysis Batch: 636297	Result ND Iids, Tota 6297/1 Re	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92)	Qualifier MDL Unit 5.0 mg/L	mg/L Clie	Clie	repared	Limits 78 - 114 Ple ID: M Prep Ty 01/18/21 Lab Cor Prep Ty %Rec.	ethod pe: To zed 09:28	Lim 1 Blank tal/N/ Dil Fa
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63 Matrix: Water Analysis Batch: 636297 Analyte	Result ND lids, Tota 6297/1 Re	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92 () () () () () () () () () () () () ()	Qualifier MDL Unit 5.0 mg/L	mg/L Clie	Clie	ent Sam repared mple ID: %Rec	Limits 78 - 114 Ple ID: M Prep Ty 01/18/21 Lab Cor Prep Ty %Rec. Limits	ethod pe: To zed 09:28	Lim 1 Blan tal/N Dil Fa
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63 Matrix: Water Analysis Batch: 636297 Analyte	Result ND lids, Tota 6297/1 Re	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92)	Qualifier MDL Unit 5.0 mg/L	mg/L Clie	Clie	repared	Limits 78 - 114 Ple ID: M Prep Ty 01/18/21 Lab Cor Prep Ty %Rec.	ethod pe: To zed 09:28	Lim 1 Blan tal/N/ Dil Fa
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids	Result ND lids, Tota 6297/1 Re 36297/2	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92 () () () () () () () () () () () () ()	Qualifier MDL Unit 5.0 mg/L LCS Qualifier	Clie Unit mg/L	Clie	ent Sam repared mple ID: <u>%Rec</u> 97	Limits 78 - 114 Ple ID: M Prep Ty 01/18/21 Lab Cor Prep Ty %Rec. Limits 90 - 110	3 ethod pe: To 2ed 09:28 ntrol S pe: To	Lim 1 Blan tal/N/ Dil Fa ample tal/N/
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: 440-277284	Result ND lids, Tota 6297/1 Re 36297/2	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92 () () () () () () () () () () () () ()	Qualifier MDL Unit 5.0 mg/L LCS Qualifier	Clie Unit mg/L	Clie	ent Sam repared mple ID: <u>%Rec</u> 97	Limits 78 - 114 Ple ID: M Prep Ty 01/18/21 Lab Cor Prep Ty %Rec. Limits 90 - 110 Point #1	a ethod pe: To 2ed 09:28 htrol S pe: To	Lim 1 Blan tal/N/ Dil Fa ampli tal/N/
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: 440-277284 Matrix: Water	Result ND lids, Tota 6297/1 Re 36297/2	Qualifier I Dissolv MB MB esult Qualifie	Added 41.9 ed (TDS	Result 35.92 () () () () () () () () () () () () ()	Qualifier MDL Unit 5.0 mg/L LCS Qualifier	Clie Unit mg/L	Clie	ent Sam repared mple ID: <u>%Rec</u> 97	Limits 78 - 114 Ple ID: M Prep Ty 01/18/21 Lab Cor Prep Ty %Rec. Limits 90 - 110	a ethod pe: To 2ed 09:28 htrol S pe: To	Lim 1 Blan tal/N/ Dil Fa ample tal/N/
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63 Matrix: Water Analysis Batch: 636297 Analyte	Result ND lids, Tota 6297/1 Re 36297/2 4-1 DU	Qualifier	Added 41.9 ed (TDS	Result 35.92	Qualifier MDL Unit 5.0 mg/L LCS Qualifier Clie	Clie Unit mg/L	Clie	ent Sam repared mple ID: <u>%Rec</u> 97	Limits 78 - 114 Ple ID: M Prep Ty 01/18/21 Lab Cor Prep Ty %Rec. Limits 90 - 110 Point #1	a ethod pe: To 2ed 09:28 htrol S pe: To	Limi 1: Blanl tal/N/ Dil Fa ample tal/N/
HEM Aethod: SM 2540C - So Lab Sample ID: MB 440-630 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-63 Matrix: Water Analysis Batch: 636297 Analyte Total Dissolved Solids Lab Sample ID: 440-277284 Matrix: Water	Result ND Iids, Tota 6297/1 Re 36297/2 4-1 DU Sample	Qualifier	Added 41.9 ed (TDS	Result 35.92) RL 10 LCS Result 972 DU	Qualifier MDL Unit 5.0 mg/L LCS Qualifier	Clie Unit mg/L	Clie	ent Sam repared mple ID: <u>%Rec</u> 97	Limits 78 - 114 Ple ID: M Prep Ty 01/18/21 Lab Cor Prep Ty %Rec. Limits 90 - 110 Point #1	a ethod pe: To 2ed 09:28 htrol S pe: To	Limi 18 Blank tal/NA Dil Fac ample tal/NA

QC Sample Results

Job ID: 440-277284-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 440-63 Matrix: Water	36296/1							CI	ient San	nple ID: Mo Prep Ty		
Analysis Batch: 636296												
-	r	MB MB										
Analyte		ult Qualifier	•	RL	MDL			D	Prepared	Analyz	ed	Dil Fac
Total Suspended Solids	1	ND		1.0	0.50	mg/L				01/18/21	14:59	1
Lab Sample ID: LCS 440-6 Matrix: Water	636296/2						Cli	ent Sa	ample IC): Lab Con Prep Tyj		
Analysis Batch: 636296			Oniba		S LCS					0/ D = =		
Analyta			Spike Added		s LCS It Qual	fior	Unit	-) %Rec	%Rec. Limits		
Analyte Total Suspended Solids			1000	99					100	85 - 115		
			1000	95	1		mg/L		100	00-110		
Lab Sample ID: 440-27728 Matrix: Water	84-1 DU				(Clien	t Sam	ple ID	: Sampl	le Point #1 Prep Ty		
Analysis Batch: 636296												
	Sample S	Sample		D	U DU							RPD
Analyte	Result (Qualifier		Resu	It Qual	ifier	Unit)		RPD	Limit
Total Suspended Solids	9.1			9.1	4		mg/L				0	10
Method: SM5210B - BC Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971								CI	ient San	nple ID: Mo Prep Ty		
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte	635971/1 U: 	SB USB ult Qualifier		<u>RL</u>		Unit			<mark>ient San</mark> Prepared	Prep Typ Analyz	pe: To	tal/NA Dil Fac
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971	635971/1 U: 			RL 2.0		Unit mg/L				Prep Ty	pe: To	tal/NA
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water	635971/1 U: Res	ult Qualifier					Cli	<u>D</u>	Prepared	Prep Typ Analyz	ed 10:01	tal/NA Dil Fac 1 ample
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6	635971/1 U: Res	ult Qualifier		2.0	2.0		Cli	<u>D</u>	Prepared	Prep Tyj Analyz 01/13/21 D: Lab Con Prep Tyj	ed 10:01	tal/NA Dil Fac 1 ample
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971	635971/1 U: Res	ult Qualifier	Spike	2.0	2.0 S LCS	mg/L		D	Prepared ample IC	Analyz 01/13/21 0: Lab Con Prep Tyl %Rec.	ed 10:01	Dil Fac
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte	635971/1 U: Res	ult Qualifier		2.0	2.0 S LCS It Qual	ifier	Unit	<u>D</u>	Prepared	Prep Tyj Analyz 01/13/21 D: Lab Con Prep Tyj	ed 10:01	tal/NA Dil Fac 1 ample
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand	635971/1 U: Res 535971/5	ult Qualifier	Spike Added	2.0 LC Resu	2.0 S LCS It Qual	mg/L	Unit mg/L	Dent Sa	Prepared ample IC 0 <u>%Rec</u> 101	Analyz 01/13/21 0: Lab Con Prep Tyl %Rec. Limits 85 - 115	eet 10:01 10:01 - htrol Sa pe: To	tal/NA Dil Fac 1 ample tal/NA
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440	635971/1 U: Res 535971/5	ult Qualifier	Spike Added	2.0 LC Resu	2.0 S LCS It Qual	mg/L	Unit mg/L	Dent Sa	Prepared ample IC 0 <u>%Rec</u> 101	Analyz 01/13/21 0: Lab Con Prep Tyl %Rec. Limits 85 - 115 b Control \$	red 10:01 htrol Sape: To Sampl	tal/NA Dil Fac 1 ample tal/NA
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water	635971/1 U: Res 535971/5	ult Qualifier	Spike Added	2.0 LC Resu	2.0 S LCS It Qual	mg/L	Unit mg/L	Dent Sa	Prepared ample IC 0 <u>%Rec</u> 101	Analyz 01/13/21 0: Lab Con Prep Tyl %Rec. Limits 85 - 115	red 10:01 htrol Sape: To Sampl	tal/NA Dil Fac 1 ample tal/NA
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440	635971/1 U: Res 535971/5	ult Qualifier	Spike Added 199	2.0 LC Resu 20	2.0 S LCS It Qual	ifier C	Unit mg/L	Dent Sa	Prepared ample IC 0 <u>%Rec</u> 101	Prep Tyr Analyz 01/13/21 D: Lab Con Prep Tyr %Rec. Limits 85 - 115 b Control S Prep Tyr	red 10:01 htrol Sape: To Sampl	Dil Fac 1 ample tal/NA e Dup tal/NA
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water Analysis Batch: 635971	635971/1 U: Res 535971/5	ult Qualifier	Spike Added 199 Spike	2.0 LC Resu 20	2.0 S LCS It Qual	ifier C	Unit mg/L	D ent Sa 	Prepared ample IE 2 <u>%Rec</u> 101 e ID: Lal	Analyz 01/13/21 0: Lab Con Prep Tyl %Rec. Limits 85 - 115 b Control S Prep Tyl %Rec.	eed 10:01 trol Sape: To Sampl pe: To	tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water Analysis Batch: 635971 Analyte	635971/1 U: Res 535971/5	ult Qualifier	Spike Added 199 Spike Added	2.0 LC Resu 20 LCS Resu	2.0 S LCS It Qual	ifier Cl D	Unit mg/L lient S	Dent Sa	Prepared ample IE 2 <u>%Rec</u> 101 e ID: Lal	Prep Tyj Analyz 01/13/21 D: Lab Con Prep Tyj %Rec. Limits 85 - 115 b Control S Prep Tyj %Rec. Limits	eed 10:01 10:0	tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water Analysis Batch: 635971	635971/1 U: Res 535971/5	ult Qualifier	Spike Added 199 Spike	2.0 LC Resu 20	2.0 S LCS It Qual	ifier Cl D	Unit mg/L	D ent Sa 	Prepared ample IE 2 <u>%Rec</u> 101 e ID: Lal	Analyz 01/13/21 0: Lab Con Prep Tyl %Rec. Limits 85 - 115 b Control S Prep Tyl %Rec.	eed 10:01 trol Sape: To Sampl pe: To	tal/NA Dil Fac 1 ample tal/NA
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water	635971/1 U: Res 535971/5	ult Qualifier	Spike Added 199 Spike Added	2.0 LC Resu 20 LCS Resu	2.0 S LCS It Qual	ifier Cl D ifier	Unit mg/L lient S Unit mg/L	D ent Sa C Sample	Prepared ample IC 0 %Rec 101 e ID: Lal 0 %Rec 102	Prep Tyj Analyz 01/13/21 D: Lab Con Prep Tyj %Rec. Limits 85 - 115 b Control S Prep Tyj %Rec. Limits	red 10:01 atrol Sape: To Sampl pe: To	tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 20 e Dup
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440	635971/1 U: Res 535971/5	ult Qualifier	Spike Added 199 Spike Added 199	2.0 LC Resu 20 LCS Resu 20	2.0 S LCS It Qual D LCSI It Qual	ifier C D ifier	Unit mg/L lient S Unit mg/L	D ent Sa C Sample	Prepared ample IC 0 %Rec 101 e ID: Lal 0 %Rec 102	Prep Ty Analyz 01/13/21 D: Lab Con Prep Ty %Rec. Limits 85 - 115 b Control S Prep Ty %Rec. Limits 85 - 115 b Control S 85 - 115 b Control S Prep Ty	red 10:01 atrol Sape: To Sampl pe: To	tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 20 e Dup tal/NA
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water Analysis Batch: 635971	635971/1 U: Res 535971/5	ult Qualifier	Spike Added 199 Spike Added 199 Spike	2.0 LC Resu 20 LCS Resu 20 LCS	2.0 S LCS It Qual 1 Qual 2 Qual 2 D LCSI	ifier C D ifier C	Unit mg/L lient S Unit mg/L lient S	D ent Sa [Sample Sample	Prepared ample IE	Prep Tyj Analyz 01/13/21 D: Lab Com Prep Tyj %Rec. Limits 85 - 115 b Control S Prep Tyj %Rec. Limits 85 - 115 b Control S Prep Tyj %Rec.	e: Tor atrol Sape: Tor Sampl pe: Tor RPD 0 Sampl pe: Tor Sampl pe: Tor	tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 20 e Dup tal/NA
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-6 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water Analysis Batch: 635971 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440 Matrix: Water	635971/1 U: Res 535971/5	ult Qualifier	Spike Added 199 Spike Added 199	2.0 LC Resu 20 LCS Resu 20 LCS	2.0 S LCS It Qual 1 Qual 2 Qual 2 LCSI 1 Qual	ifier Cl ifier Cl ifier D ifier	Unit mg/L lient S Unit mg/L	D ent Sa C Sample	Prepared ample IE 2 <u>%Rec</u> 101 e ID: Lal 2 <u>%Rec</u> 102 e ID: Lal	Prep Ty Analyz 01/13/21 D: Lab Con Prep Ty %Rec. Limits 85 - 115 b Control S Prep Ty %Rec. Limits 85 - 115 b Control S 85 - 115 b Control S Prep Ty	red 10:01 atrol Sape: To Sampl pe: To	tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 20 e Dup tal/NA

Method: SM5210B - BOD, 5 Day (Continued)

Lab Sample ID: 440-277284-1 DU Matrix: Water Analysis Batch: 635971				Clie	Client Sample ID: Sample Point #1-Composite Prep Type: Total/NA				
	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Biochemical Oxygen Demand	30		 29.9		mg/L			0.2	20

Client Sample ID

Lab Control Sample

Client Sample ID

Lab Control Sample

Method Blank

Method Blank

Sample Point #1-Composite

Sample Point #2-Composite

Sample Point #1-Composite

Sample Point #1-Composite

Sample Point #1-Composite

Sample Point #2-Composite

Sample Point #1-Composite

Sample Point #1-Composite

Metals

Prep Batch: 636127

Lab Sample ID

440-277284-1

440-277284-7

MB 440-636127/1-A

LCS 440-636127/2-A

440-277284-1 MS

440-277284-1 MSD

Lab Sample ID

440-277284-1

440-277284-7

MB 440-636127/1-A

LCS 440-636127/2-A

440-277284-1 MS

Analysis Batch: 636276

QC Association Summary

Prep Type

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Prep Type

Matrix

Water

Water

Water

Water

Water

Water

Matrix

Water

Water

Water

Water

Water

Water

Job ID: 440-277284-1

Prep Batch

Prep Batch

Method

200.2

200.2

200.2

200.2

200.2

200.2

Method

200.7 Rev 4.4

636127	9
636127	
636127	10
636127	
636127	44
636127	
	12

440-277284-1 MSD Prep Batch: 636566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-277284-1	Sample Point #1-Composite	Total/NA	Water	245.1	
440-277284-7	Sample Point #2-Composite	Total/NA	Water	245.1	
MB 440-636566/1-A	Method Blank	Total/NA	Water	245.1	
LCS 440-636566/2-A	Lab Control Sample	Total/NA	Water	245.1	
440-277284-1 MS	Sample Point #1-Composite	Total/NA	Water	245.1	
440-277284-1 MSD	Sample Point #1-Composite	Total/NA	Water	245.1	

Analysis Batch: 636631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-277284-1	Sample Point #1-Composite	Total/NA	Water	245.1	636566
440-277284-7	Sample Point #2-Composite	Total/NA	Water	245.1	636566
MB 440-636566/1-A	Method Blank	Total/NA	Water	245.1	636566
LCS 440-636566/2-A	Lab Control Sample	Total/NA	Water	245.1	636566
440-277284-1 MS	Sample Point #1-Composite	Total/NA	Water	245.1	636566
440-277284-1 MSD	Sample Point #1-Composite	Total/NA	Water	245.1	636566

General Chemistry

Analysis Batch: 635971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-277284-1	Sample Point #1-Composite	Total/NA	Water	SM5210B	
440-277284-7	Sample Point #2-Composite	Total/NA	Water	SM5210B	
USB 440-635971/1	Method Blank	Total/NA	Water	SM5210B	
LCS 440-635971/5	Lab Control Sample	Total/NA	Water	SM5210B	
LCSD 440-635971/6	Lab Control Sample Dup	Total/NA	Water	SM5210B	
LCSD 440-635971/7	Lab Control Sample Dup	Total/NA	Water	SM5210B	
440-277284-1 DU	Sample Point #1-Composite	Total/NA	Water	SM5210B	

Prep Batch: 636062

Lab Sample ID 440-277284-6	Client Sample ID Sample Point #1-1664 Composite	Prep Type Total/NA	Matrix Water	Method 1664A	Prep Batch
440-277284-12	Sample Point #2-1664 Composite	Total/NA	Water	1664A	
MB 440-636062/1-A	Method Blank	Total/NA	Water	1664A	

QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

General Chemistry (Continued)

Prep Batch: 636062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-636062/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 440-636062/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
440-277284-6 MS	Sample Point #1-1664 Composite	Total/NA	Water	1664A	
440-277284-6 MSD	Sample Point #1-1664 Composite	Total/NA	Water	1664A	

Analysis Batch: 636064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-277284-6	Sample Point #1-1664 Composite	Total/NA	Water	1664A	636062
440-277284-12	Sample Point #2-1664 Composite	Total/NA	Water	1664A	636062
MB 440-636062/1-A	Method Blank	Total/NA	Water	1664A	636062
LCS 440-636062/2-A	Lab Control Sample	Total/NA	Water	1664A	636062
LCSD 440-636062/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	636062
440-277284-6 MS	Sample Point #1-1664 Composite	Total/NA	Water	1664A	636062
440-277284-6 MSD	Sample Point #1-1664 Composite	Total/NA	Water	1664A	636062

Analysis Batch: 636296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-277284-1	Sample Point #1-Composite	Total/NA	Water	SM 2540D	
440-277284-7	Sample Point #2-Composite	Total/NA	Water	SM 2540D	
MB 440-636296/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 440-636296/2	Lab Control Sample	Total/NA	Water	SM 2540D	
440-277284-1 DU	Sample Point #1-Composite	Total/NA	Water	SM 2540D	

Analysis Batch: 636297

Lab Sample ID 440-277284-1	Client Sample ID Sample Point #1-Composite	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
440-277284-7	Sample Point #2-Composite	Total/NA	Water	SM 2540C	
MB 440-636297/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-636297/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-277284-1 DU	Sample Point #1-Composite	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 636029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-277284-2	Sample Point #1-First Grab	Total/NA	Water	Field Sampling	
440-277284-3	Sample Point #1-Second Grab	Total/NA	Water	Field Sampling	
440-277284-4	Sample Point #1-Third Grab	Total/NA	Water	Field Sampling	
440-277284-5	Sample Point #1-Fourth Grab	Total/NA	Water	Field Sampling	
440-277284-8	Sample Point #2-First Grab	Total/NA	Water	Field Sampling	
440-277284-9	Sample Point #2-Second Grab	Total/NA	Water	Field Sampling	
440-277284-10	Sample Point #2-Third Grab	Total/NA	Water	Field Sampling	
440-277284-11	Sample Point #2-Fourth Grab	Total/NA	Water	Field Sampling	

Organic Prep

Analysis Batch: 636070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-277284-6	Sample Point #1-1664 Composite	Total/NA	Water	Composite	
440-277284-12	Sample Point #2-1664 Composite	Total/NA	Water	Composite	
440-277284-6 MS	Sample Point #1-1664 Composite	Total/NA	Water	Composite	
440-277284-6 MSD	Sample Point #1-1664 Composite	Total/NA	Water	Composite	

Eurofins Calscience Irvine

Qualifiers

Metals Qualifier	Qualifier Description	
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	5
Glossary		6
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	7
%R	Percent Recovery	
CFL	Contains Free Liquid	0

Glossary

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

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

5

11

Laboratory: Eurofins Calscience Irvine Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Program **Identification Number Expiration Date** California State 2706 06-30-21 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte 1664A 1664A Water HEM Composite Water Composited Field Sampling Water Field pH Field Temperature **Field Sampling** Water SM 2540C Water **Total Dissolved Solids** SM 2540D **Total Suspended Solids** Water SM5210B Water **Biochemical Oxygen Demand**

17461 Derian Avenue Suite 100 Irvine, CA 92614-5843 phone 949.261.1022 fax 949.260.3299 Client Contact Carlsbad Energy Center 4950 Avenida Encinas Carlsbad, CA 92008	Project Mana Email: anthon Tel/Fax: 760 An	ager: Anth y.kalis@nrg -427-2382 nalysis Tu	J.com		NPDE	:s 1		RCRA		⊡ Ot	her:								Enviror ment Testir g TestAmerica
phone 949.261.1022 fax 949.260.3299 Client Contact Carlsbad Energy Center 4950 Avenida Encinas	Project Mana Email: anthon Tel/Fax: 760 An	ager: Anth y.kalis@nrg -427-2382 nalysis Tu	ony Kalis J.com		NPDE	s 1		RCRA		🗸 Ot	her:					T			
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Carlsbad Energy Center 4950 Avenida Encinas	Tel/Fax: 760	427-2382 nalysis Tu				-													COC No:
4950 Avenida Encinas	AI	nalysis Tu	/ Fax #: No			Si	te Co	ontac	t: Anth	ony P	Calis	•			10/	21/202	0		1 of1 COCs
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Carlebad CA 92008		DAVC	rnaround T					a											Sampler: Anthony Kalis
Cansuau, CA 92000	TAT	DAYS	V WOF	RKING DA	YS							1 - 1	.I	,, I ,	. l	1 +1	1. 1	I	For Lab Use Only:
Phone: (760) 427-2382		if different from	m Below						ay		(yľ								ו Client:
FAX - None		2 we					î		Calc-BOD, 5 Day		Grease (HEM Only)								mpling:
Project Name: EWA Quarterly Sampling		1 we				1~	_	K P	8		Ē								
Site: Carlsbad Energy Center		2 da	-			Z	Ľ	6	ц В С		se (DG No.:
PO # : Use Credit Card	 ✓ 	1 da	y			_2	S I		Cal	S	reas		440-27	7284 (Chain of	Custo	dv		
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample	IΕ	L; L; 2.00.7 - (111-00) C	2540D - TSS; SM5210B_BOD	2540C_Calcd-TDS	1664A - Oil & G	Ŧ							Sample Specific Notes:
Sample Point # Point # 1 - composite	1/11/2020	18:49	C	H20	8				X - 4			 	++				+		
Sample Point # 1 - First Grab	1/11/2020	5:55	G	H2O	3	T			1		x	X	++						Composite the 4 Oil & Grease
	1/11/2020	9:43	G	H2O	3	1					x		++						samples of each Sump into one
Sample Point # 1 - Second Grab						+							+-+			+	+	-+-	composite sample. Analyse the
Sample Point # 1 - Third Grab	1/11/2020	13:41	G	H2O	3	+					X	+ +					+ $+$	_	
Sample Point # 1 - Fourth Grab	1/11/2020	17:55	G	H2O	3	+					X	Х					+		composite only.
Sample Point # 2 - composite	1/11/2020	18:44	С	H2O	4	N	Ν	X	X - 2	х			_				+		
Sample Point # 2 - First Grab	1/11/2020	6:03	G	H2O	3						X	Х							Composite the 4 Oil & Grease
Sample Point # 2 - Second Grab	1/11/2020	9:49	G	H2O	3						X	Х							samples of each Sump into one
Sample Point # 2 -Third Grab	1/11/2020	13:46	G	H2O	3						x	X							composite sample. Analyse the
Sample Point # 2 - Fourth Grab	1/11/2020	18:04	G	H2O	3						x	X							composite only.
															Samp	ole Poir	nt # 1/	Time	Sample Point # 2/ time
				1		╈							Field	pH 1	7.71	pH/19.6	8°C @	0555	7.28 pH/19.4°C @ 0603
				+		+						+		pH 2		pH/20.4		·	7.31 pH/19.7°C @ 0949
						╉─	+					+			H 3 7.70 pH/21.1°C @ 1341				
				 		-							-	·				7.29 pH/21.0°C @ 1346	
													Field	pH 4			1755	7.09 pH/20.2°C @ 1804	
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=I	HNO3; 5=NaOH	l; 6= Othe	l					1/4	1	and the set	1/2	A Reader water of		A.			1		
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? the Comments Section if the lab is to dispose of the sa Image: Non-Hazard Flammable Skin Irrit		ny EPA Wa	ste Codes 1		ample	in			Uispos urn to Cli		. fee	may		sposal b			Archiv		longer than 1 month)
Custody Seals Intact: Ves No	Custody Sea	I No '								Cool	er Te	emp	(°C): O	os'd		Corr	'd:	-	Therm ID No.:
Relinquished by: Authiny Kalis And	Company	VRU		Date/T	ime: 21 C	42	Re		i þy: I G m)er			Compa EC				Date/Time: 1/12/21 /142
Relinguished by:	Company: EC-I		. /	Date/T	ime:	~		ceivee	t by:	/	,				Compa E	any:			Date/Time:
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Relinquished by:	Company:			Date/T	ime:		Re	ceive	f in Lat	orato	ry by	y :			Compa	any:			Date/Time:
		07	:/0.6		5-1	• /	4	5	#	R	2						Form	No. C	CA-C-WI-002, Rev. 4.25, dated 7/8/2019 1/21/2021

0.7 0.6, 0 page 29 of 22 #8	0.7:/0.6,	Page 27 of 22	#8
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Client: Carlsbad Energy Center

Login Number: 277284 List Number: 1 Creator: Escalante, Maria I

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 440-277284-1

List Source: Eurofins Irvine

Eurofins TestAmerica, Irvine 17461 Derian Avenue Suite 100 Irvine, CA 92614-5843	Chain of Custody Record									eurofins Environment Testory TestAmerica											
phone 949.261 1022 fax 949.260.3299	Regu	latory Pro	ogram:	DW	NPDE	S		RCRA)ther:						Tes	stAm	erica La	boratories, Inc. d/b/a E	urofins TestAmeri
	Project Manager: Anthony Kalis																			COC No:	
Client Contact	Email: anthor	y.kalis@nrg	a.com		Site Contact: Anthony Kalis											21/20	20		_1 of1	COCs	
Carlsbad Energy Center									Ross					Ca	rrier:	Eurof	ins			TALS Project #:	
4950 Avenida Encinas	Analysis Turnaround Time										1	T	11						TT	Sampler:	Anthony Kalis
Carlsbad, CA 92008	CALENDAR DAYS					1														For Lab Use Only:	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100
Phone: (760) 427-2382	TAT	TAT if different from Below							A		A									Walk-in Client:	
FAX - None		2 weeks							2 0		6									Lab Sampling:	1000
Project Name: EWA Quarterly Sampling	2	1 we	ek				Z	22	'oo		EM										
Site: Carlsbad Energy Center		2 da	ys			(N/X	E		ä		e (F									Job / SDG No.:	
PO # : Use Credit Card	2	1 da	у			Σ	MSD (Y/N)		Cato	S	Grease (HEM Only)									1	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Samp	Perform MS /	L; 245.1 - Hn	2640D - TSS; SM5210B_BOD Calc-BOD, 5 Day	2540C_Calcd-TDS	1664A - Oil &	Field pH								Sample Spe	cific Notes:
Sample Point # Point # 1 - composite	1/11/2020	18:49	C	H20	8	N	Y	X - 2	X - 4	X - 2	-	-		-		-		-	++	Compania alteration	1018 0
Sample Point # 1 - First Grab	1/11/2020	5:55	G	H2O	3	\square	-		1		X	X		-		-		+	+ +	Composite the	
Sample Point # 1 - Second Grab	1/11/2020	9:43	G	H2O	3		1.				X	X						1		samples of each	Sump into one
Sample Point # 1 - Third Grab	1/11/2020	13:41	G	H2O	3					1	X	X								composite sam	ole. Analyse the
Sample Point # 1 - Fourth Grab	1/11/2020	17:55	G	H2O	3						X	X		1						compos	ite only.
Sample Point # 2 - composite	1/11/2020	18:44	С	H2O	4	N	N	x	X - 2	х											
Sample Point # 2 - First Grab	1/11/2020	6:03	G	H20	3	П					X	X		1	-					Composite the	4 Oil & Grease
Sample Point # 2 - Second Grab	1/11/2020	9:49	G	H2O	3			(-)	ГT (X	X		1100					11	samples of each	Sump into one
Sample Point # 2 -Third Grab	1/11/2020	13:46	G	H2O	3	П					X	X		1						composite sam	ole. Analyse the
Sample Point # 2 - Fourth Grab	1/11/2020	18:04	G	H2O	3	Π		-			X	X								compos	ite only.
		1.0.0				П								_		Samp	le Poi	int#	1/ Time	Sample Poi	nt # 2/ time
						П					1	1	F	ield pl	11	7 71 pH/19.6°C @ 0555		5 7.28 pH/19	4°C @ 0603		
						F						F	ield pl	12	7.72 p	H/20.	4°C	@ 094	3 7.31 pH/19.	7°C @ 0949	
	-					H				-			F	ield pl	13	7.70 p	H/21	1*C	@ 134	1 7.29 pH/21	0°C @ 1346
		1	-	1		H			1		1	-	F	ield pl	44	7.61	DH/20	2C (D 1755	7.09 pH/20.	2°C @ 1804
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=	-UNO2: 5-NaOU: 6- Othor							1/4	1	1	1/2								TT		
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste' the Comments Section if the lab is to dispose of the sa Non-Hazard Flammable Skin Irri	? Please List an ample.				ample i			nple D		al (A	A DOWN	-		Dispo					tained	Nonger than 1 month)
	Custody Sea	No.:					_		= 1	Cool	ler Te	emp.		: Obs'	d:		_ Cor	r'd:		Therm ID No.:	_
Relinquished by: Relinquished by: Relinquished by:	Company:	vRb		Date/T	<u>u e∥</u> ime:	12	Rece	/illi eived	by:	1	2:0	ler	a				- 17 ny:	ev.	_	Date/Time: 1/12/21 / Date/Time:	142
	Company: Date/ Company: Date/				10.00	Received by: Compar Received in Laboratory by Compar										20		Date/Time:			

Project: EWA Sampling

Meter: HACH HQ 40d

Date: |-||-2|

Start Time: 0515

°C

18.0

	pH S	tandards			
MFR	Exp. Date	Lot No.	pH	Tempera	ature
Hach	2/21	A0044	10.01	21,9	°C
Hach	2/22	A0058	7.00	21.9	°C
Hach	2/24	A0062	4.01	21.9	°C
5 mv/pH	/ mv/pH	reading / 59 mv/p	H = 98	% slop	е
.7		1.1.1.1.1.1.1			
	Hach Hach Hach	MFRExp. DateHach $2/21$ Hach $2/22$ Hach $2/24$	MFRExp. DateLot No.Hach $2/21$ $A0044$ Hach $2/22$ $A0058$ Hach $2/24$ $A0062$	Hach $2/21$ $A0044$ 10.01 Hach $2/22$ $A0058$ 7.00 Hach $2/24$ $A0062$ 4.01	MFR Exp. Date Lot No. pH Temperative Hach $2/21$ $A0044$ 10.01 21.9 Hach $2/22$ $A0058$ 7.00 21.9 Hach $2/24$ $A0062$ 4.01 21.9

11 Otom danda

Potable Water pH

Sampling and Analysis

Sample Point	Time	pH	Temper	ature
Sample Point #1	0555	7.71	19.6	°C
Sample Point #2	0603	7.28	19.4	°C
Sample Point #2	0603	1.20	19.4	

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temperature
Potable Water	0613	7.55	16.2 °C
pH 7.0	0616	7.05	15.7 °C

Comments:

End Time: 0616 Sampling and Analyses by:

Approved by: Anthony Kalis

7.56

Project: EWA Sampling

Meter: HACH HQ 40d

22.8

7.37

Date: /-11-21

Start Time: 0930

°C

pН	Sta	and	ar	ds

	MFR	Exp. Date	Lot No.	pН	Temper	ature
10 Buffer	Hach	2/21	A0044	10.01	19.4	°C
7 Buffer	Hach	2/22	AD0 38	7.00	19.8	°C
4 Buffer	Hach	2/24	A0062	4.01	21.1	°C
Slope = 58.2	mv/pH	mv/pł	reading / 59 mv/p	H= 98	% slop	be
off set mv = 10.7	7					

Potable Water pH

Sampling and Analysis

Sample Point	Time	pH	Temperature
Sample Point #1	0943	7.72	20.4 °c
Sample Point #2	0949	7,31	19.7 °c
		_	

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temperature
Potable Water	0955	7.45	22./ °C
pH 7.0	OAS7	7.01	19.9 °C

Comments:

End Time: 0958 Sampling and Analyses by: 1th Approved by:

Project: EWA Sampling

Meter: HACH HQ 40d

Date: 1/11/21

Start Time: 1328

°C

20.0

	_	pH S	standards			
	MFR	Exp. Date	Lot No.	рН	Tempera	ature
10 Buffer	Hach	2/21	A0044	10.01	20.9	°C
7 Buffer	Hach	2/22	ADSB	7.0	21.2	°C
4 Buffer	Hach	2/24	A0062	4.21	215	°C
Slope = 57.82	mv/pH	mv/pH	reading / 59 mv	/pH = 98	% slop	е
Slope = 57.82 off set mv = 10.0		mv/pH	reading / 59 mv	/pH = <i>98</i>		% slop

Potable Water pH

Sampling and Analysis

Time	pH	Temper	rature
(341	7.70	21.1	°C
1346	7.29	21.0	°C
1010			
	Time (341 1346	1341 7.70	1341 7.70 21.1

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temperature
Potable Water	1352	7.38	21.5 °C
pH 7.0	1354	7.03	21.2 °C

Comments:

End Time: 1355 Sampling and Analyses by: on 1 Approved by:

7.34

Project: EWA Sampling

Meter: HACH HQ 40d

25.1

Date: 1/11/21

Start Time: 173/

°C

pН	Sta	nda	Irds
----	-----	-----	------

the second second second	MFR	Exp. Date	Lot No.	рН	Temper	ature
10 Buffer	Hach	2/21	A0044	10.01	23.1	°C
7 Buffer	Hach	2/22	A0058	7,00	23.7	°C
4 Buffer	Hach	2/24	A0062	4.01	23,9	°C
Slope = -57.	92 mv/pH	mv/pH	reading / 59 mv	/pH = 98	% slop	e
off set mv = 9.4	1					

Potable Water pH

Sampling	and	Analysis	

Sample Point	Time	pH	Temperature
Sample Point #1	1755	7.61	20,2 °C
Sample Point #2	1804	7.09	20.2 °c

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temperature		
Potable Water	1814	7,40	25.0	°C	
pH 7.0	1815	7.03	23.3	°C	

Comments:

End Time: 1815 Sampling and Analyses by: Approved by:

7.48

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, SECOND QUARTER OF 2021 WASTE WATER SAMPLES

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the results for the required samples for the Second Quarter of 2021 (2Q2021). This report is submitted in compliance with the table in condition 2 of permit number 2405. The samples were taken on April 20, 2021. The following table summarizes the results:

			Res	ults	
Constituent	Limit	Units	Sample Point 1	Sample Point 2	Notes
Arsenic, Total	1.5	mg/L	ND	ND	
Cadmium, Total	0.77	mg/L	ND	ND	
Chromium, Total	3.5	mg/L	ND	ND	
Copper, Total	11	mg/L	0.0097	0.21	
Lead, Total	5.1	mg/L	ND	ND	
Mercury, Total	0.27	mg/L	ND	ND	
Molybdenum, Total	4.1	mg/L	0.014	0.063	
Nickel, Total	15	mg/L	0.0055	ND	
Selenium, Total	2.5	mg/L	ND	ND	
Silver, Total	4.2	mg/L	ND	ND	
Zinc, Total	29	mg/L	0.68	0.13	
Oil and Grease (HEM)	400	mg/L	3.6	1.5	
BOD	500	lb/day	0.073	0.007	Flow - SP1: 671 gal, SP2: 218 gal
BOD	N/A	mg/L	13	3.7	Sample Results for Calc
TDS	N/A	mg/L	240	1500	
TSS	500	lb/day	0.073	0.011	Flow - SP1: 671 gal, SP2: 218 gal
TSS	N/A	mg/L	13	6.2	Sample Results for Calc
рН	5.5- 12		6.64	7.27	
рН	5.5- 12		6.63	7.29	
рН	5.5- 12		6.64	7.28	
рН	5.5- 12		6.73	7.28	

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970 If you have any questions or comments, please do not hesitate to contact Ryan Goerl at (760) 573-3802.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached: TestAmerica Lab Report for Waste Water Samples – April 29, 2021 EWA Report Certification dated May 6, 2021

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL: (760)438-3941 FAX: (760)476-9852

REPORT CERTIFICATION

I. INDUSTRIAL USER INFORMATION:

Carlsbad Energy Center LLC

Industrial User Name 4950 Avenida Encinas	Carlsbad	92008	760-710-3943
Facility Address Carlsbad Energy Center LLC	City	Zip Code	(Area Code) Phone
Owner Paul Mattesich		Plant Manager	
IU Contact City of Carlsbad	2405	Title	
Member Agency	Permit #		

II. CERTIFICATION STATEMENT:

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

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

171 ARUSBAD PRESIDENT/VP/GENERAL MGR/CEO CITY OR COUNTY

(Print and sign name)

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

Laboratory Job ID: 440-282280-1 Client Project/Site: EWA Quarterly Sampling

For: Carlsbad

Carlsbad Energy Center 4950 Avenida Encinas Carlsbad, California 92008

Attn: Anthony Kalis

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

Authorized for release by: 4/29/2021 11:55:27 AM

Rossina Tomova, Project Manager I (949)260-3276 Rossina.Tomova@Eurofinset.com

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

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

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

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QC Association Summary	18
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Chain of Custody	23
Receipt Checklists	26

Sample Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

ab Sample ID.	Client Sample ID	Matrix	Collected	Received	Ass
40-282280-1	Sample Point # - Composite	Water	04/20/21 18:35	04/21/21 12:30	
40-282280-2	Sample Point #1 - First Grab	Water	04/20/21 07:15	04/21/21 12:30	
40-282280-3	Sample Point #1 - Second Grab	Water	04/20/21 09:45	04/21/21 12:30	
40-282280-4	Sample Point #1 - Third Grab	Water	04/20/21 13:45	04/21/21 12:30	
40-282280-5	Sample Point #1 - Fourth Grab	Water	04/20/21 18:12	04/21/21 12:30	
40-282280-6	Sample Point #1 - 1664 Composite	Water	04/20/21 18:12	04/21/21 12:30	
40-282280-7	Sample Point #2 - Composite	Water	04/20/21 18:42	04/21/21 12:30	
40-282280-8	Sample Point #2 - First Grab	Water	04/20/21 07:30	04/21/21 12:30	
40-282280-9	Sample Point #2 - Second Grab	Water	04/20/21 09:55	04/21/21 12:30	
40-282280-10	Sample Point #2 - Third Grab	Water	04/20/21 13:50	04/21/21 12:30	
40-282280-11	Sample Point #2 - Fourth Grab	Water	04/20/21 18:18	04/21/21 12:30	
40-282280-12	Sample Point #2 - 1664 Composite	Water	04/20/21 18:18	04/21/21 12:30	

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative 440-282280-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 4/21/2021 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8° C and 1.0° C.

GC Semi VOA

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

Metals

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

Field Service / Mobile Lab

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.

Organic Prep

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

RL

0.010

0.0050

0.0050

0.010

0.0050

0.020

0.010

0.010

0.010

0.020

RL

0.00020

MDL Unit

0.0089 mg/L

0.0025 mg/L

0.0025 mg/L

0.0050 mg/L

0.0038 mg/L

0.010 mg/L

0.0050 mg/L

0.0087 mg/L

0.0050 mg/L

0.012 mg/L

MDL Unit

0.00010 mg/L

D

D

Prepared

Prepared

Analyte

Arsenic

Cadmium

Chromium

Molybdenum

Copper

Lead

Nickel

Silver

Zinc

Analyte

Mercury

Selenium

Client Sample ID: Sample Point # - Composite Date Collected: 04/20/21 18:35 Date Received: 04/21/21 12:30

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Result Qualifier

ND

ND

ND

0.0097 J

ND

0.014 J

ND

ND

0.68

ND

.1

Result Qualifier

0.0055

Lab Sample ID: 440-282280-1 **Matrix: Water**

04/22/21 09:34 04/22/21 16:55

04/22/21 09:34 04/22/21 16:55

04/22/21 09:34 04/22/21 16:55

04/22/21 09:34 04/22/21 16:55

04/22/21 09:34 04/22/21 16:55

04/22/21 09:34 04/22/21 16:55

04/22/21 09:34 04/22/21 16:55

04/22/21 09:34 04/22/21 16:55

04/22/21 09:34 04/22/21 16:55

04/22/21 09:34 04/22/21 16:55

04/22/21 09:58 04/22/21 15:56

Analyzed

Analyzed

5

Dil Fac

1

1

1

1

1

1

1

1

1

1

1

Dil Fac

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	240		10	5.0	mg/L			04/21/21 14:09	1
Total Suspended Solids	13		2.5	1.3	mg/L			04/21/21 14:02	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	13		5.0	5.0	mg/L			04/22/21 13:06	1

Client Sample ID: Sample Point #1 - First Grab

Date Collected: 04/20/21 07:15

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: 440-282280-2 Matrix: Water

Date Received: 04/21/21 12:30

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.64				SU			04/20/21 07:15	1
Field Temperature	21.40				Celsius			04/20/21 07:15	1
- Method: Composite - San	nple Compositin	g							
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Composited	yes				NONE			04/22/21 12:39	1
Client Sample ID: Sam	ple Point #1 ·	Second	Grab			La	b Sample	ID: 440-282	280-3
Date Collected: 04/20/21 09	9:45							Matrix	Water
	2:30								

iona oampning								
Result Qu	ualifier N	IONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
6.63				SU			04/20/21 09:45	1
22.40				Celsius			04/20/21 09:45	1
ole Compositing								
	ualifier N	IONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
ves				NONE			04/22/21 12:39	1
	6.63 22.40 Die Compositing Result Qu	Result Qualifier N 6.63 22.40 Die Compositing Result Qualifier N	Result Qualifier NONE 6.63 22.40 Ole Compositing Result Qualifier NONE	Result Qualifier NONE NONE 6.63 22.40 ple Compositing Result Qualifier NONE NONE	Result Qualifier NONE NONE Unit 6.63 22.40 Celsius 0le Compositing Result Qualifier NONE NONE	Result Qualifier NONE NONE Unit D 6.63 22.40 Celsius 0le Compositing Result Qualifier NONE NONE Unit D D	Result Qualifier NONE NONE Unit D Prepared 6.63 22.40 Celsius Celsius D Prepared Dele Compositing Result Qualifier NONE NONE Unit D Prepared	Result Qualifier NONE NONE Unit D Prepared Analyzed 6.63 22.40 Celsius 04/20/21 09:45 04/20/21 09:45 ole Compositing Result Qualifier NONE NONE Unit D Prepared Analyzed 04/20/21 09:45 04/20/21 09:45 04/20/21 09:45 04/20/21 09:45 04/20/21 09:45

Client Sample Results

Olionati Coulobool Enound Countr									52280-
Client: Carlsbad Energy Cente Project/Site: EWA Quarterly S								Job ID: 440-28	
Client Sample ID: Samp	le Point #1 -	Third Gr	rah			la	h Samnlo	ID: 440-282	280-4
Date Collected: 04/20/21 13:			ab			La	o Gampie	Matrix	
ate Received: 04/21/21 12:								matrix	· mate
-									
Method: Field Sampling - F									
Analyte		Qualifier	NONE	NONE		D	Prepared	Analyzed	Dil Fa
Field pH	6.64				SU			04/20/21 13:45	
Field Temperature	22.70				Celsius			04/20/21 13:45	
Method: Composite - Sam	ple Compositin	a							
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fa
Composited	yes				NONE			04/22/21 12:39	
lient Sample ID: Samp	le Point #1 -	Fourth (Irah			1 2	h Sample	ID: 440-282	280-
ate Collected: 04/20/21 18:		i ourtii c	Siab			La	b Sample		
Date Received: 04/20/21 12:								Matrix	. wale
Method: Field Sampling - F	Field Sampling								
Analyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fa
Field pH	6.73				SU			04/20/21 18:12	
Field Temperature	22.00				Celsius			04/20/21 18:12	
Method: Composite - Samp	ple Compositing	g							
								Analyzad	
Analyte	Result	Qualifier	NONE	NONE		<u>D</u>	Prepared	Analyzed	DIIFa
Analyte Composited Client Sample ID: Samp Date Collected: 04/20/21 18:	<u>yes</u> Die Point #1 - 12			NONE	Unit NONE			04/22/21 12:39 ID: 440-282 Matrix	2280-
Analyte Composited Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12:	<u>yes</u> Die Point #1 - 12			NONE				04/22/21 12:39	2280-0
Analyte Composited Client Sample ID: Samp pate Collected: 04/20/21 18: pate Received: 04/21/21 12: General Chemistry	yes ble Point #1 - 12 30			MDL	NONE			04/22/21 12:39	2280-(: Wate
Analyte Composited Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12: General Chemistry Analyte	yes ble Point #1 - 12 30	1664 Co	mposite	MDL	NONE	La	b Sample Prepared	04/22/21 12:39 ID: 440-282 Matrix	
Analyte Composited Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12: General Chemistry Analyte HEM: Oil and Grease	yes ble Point #1 - 12 30 Result 3.6	1664 Co Qualifier	mposite 	MDL	NONE	La	b Sample Prepared 04/22/21 09:30	04/22/21 12:39 ID: 440-282 Matrix Analyzed 04/22/21 15:33	2280-0 : Wate
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Analyte Composited Client Sample ID: Samp Pate Collected: 04/20/21 18: Pate Received: 04/21/21 12: General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Samp Pate Collected: 04/20/21 18:	yes ple Point #1 - 12 30 Result 3.6 ple Point #2 - 42	1664 Co Qualifier	mposite 	MDL	NONE	La	b Sample Prepared 04/22/21 09:30	04/22/21 12:39 ID: 440-282 Matrix Analyzed 04/22/21 15:33	2280- : Wate
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Analyte Composited Composited Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12: General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12: Method: 200.7 Rev 4.4 - Me Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Silver	yes ble Point #1 - 12 30 Result 3.6 ble Point #2 - 42 30 etals (ICP) - Tota Result ND ND ND ND 0.21 ND ND ND ND ND ND ND ND ND ND	1664 Co Qualifier Compos	RL 1.1 site able RL 0.010 0.0050 0.0050 0.010 0.0050 0.010 0.0050 0.010 0.0050 0.010 0.0050 0.010 0.0050 0.010 0.020 0.010	MDL 0.55 0.055 0.0089 0.0025 0.0025 0.0050 0.0038 0.010 0.0050 0.0087 0.0050	NONE	D	Prepared 04/22/21 09:30 b Sample 04/22/21 09:30 b Sample 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34	Analyzed 04/22/21 12:39 ID: 440-282 Matrix Analyzed 04/22/21 15:33 ID: 440-282 Matrix Analyzed 04/22/21 17:03 O4/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01	2280- : Wate Dil Fa 2280- : Wate
Analyte Composited Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12: General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12: Method: 200.7 Rev 4.4 - Me Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Silver	yes ble Point #1 - 12 30 Result 3.6 ble Point #2 - 42 30 etals (ICP) - Tota Result ND ND ND ND 0.21 ND ND ND ND ND ND ND ND ND ND	1664 Co Qualifier Compos	RL 1.1 5ite able RL 0.010 0.0050 0.010 0.0050 0.010 0.0050 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	MDL 0.55 0.055 0.0025 0.0025 0.0025 0.0050 0.0038 0.010 0.0050 0.0087	NONE	D	Prepared 04/22/21 09:30 b Sample 04/22/21 09:30 b Sample 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34	O4/22/21 12:39 O4/22/21 12:39 ID: 440-282 Matrix Analyzed O4/22/21 15:33 ID: 440-282 Matrix Analyzed O4/22/21 15:33 ID: 440-282 Matrix Analyzed O4/22/21 17:01 O4/22/21 17:01	2280- : Wate Dil Fa 2280- : Wate
Analyte Composited Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12: General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12: Method: 200.7 Rev 4.4 - Me Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Silver Zinc Method: 245.1 - Mercury (C	yes ble Point #1 - 12 30 Result 3.6 ble Point #2 - 42 30 btals (ICP) - Tota Result ND ND ND 0.21 ND 0.063 ND ND ND ND ND ND ND ND ND ND	1664 Co Qualifier Compos al Recover Qualifier	RL 1.1 5ite able RL 0.010 0.0050 0.010 0.0050 0.010 0.020 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.020	MDL 0.55 0.055 0.0089 0.0025 0.0025 0.0050 0.0038 0.010 0.0050 0.0087 0.0050 0.0050 0.0050 0.0012	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	D	Prepared 04/22/21 09:30 b Sample 04/22/21 09:30 b Sample 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34 04/22/21 09:34	O4/22/21 12:39 O4/22/21 12:39 ID: 440-282 Matrix Analyzed 04/22/21 15:33 ID: 440-282 Matrix Analyzed 04/22/21 17:03 ID: 440-282 Matrix Analyzed 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01 04/22/21 17:01	2280- Wate
Analyte Composited Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12: General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Samp Date Collected: 04/20/21 18: Date Received: 04/21/21 12: Method: 200.7 Rev 4.4 - Method: 200.7 Rev 4.4 - Method: Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Silver	yes ble Point #1 - 12 30 Result 3.6 ble Point #2 - 42 30 btals (ICP) - Tota Result ND ND ND 0.21 ND 0.063 ND ND ND ND ND ND ND ND ND ND	1664 Co Qualifier Compos	RL 1.1 5ite able RL 0.010 0.0050 0.010 0.0050 0.010 0.0050 0.010 0.020 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	MDL 0.55 0.055 0.0089 0.0025 0.0025 0.0050 0.0038 0.010 0.0050 0.0087 0.0050 0.0050 0.0050 0.0012	VONE	D	Prepared 04/22/21 09:30 b Sample 04/22/21 09:30 b Sample 04/22/21 09:34	O4/22/21 12:39 O4/22/21 12:39 ID: 440-282 Matrix Analyzed O4/22/21 15:33 ID: 440-282 Matrix Analyzed O4/22/21 15:33 ID: 440-282 Matrix Analyzed O4/22/21 17:01 O4/22/21 17:01	2280- : Wate Dil Fa 2280- : Wate

General Chemistry						_	_		
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		20	10	mg/L			04/21/21 14:09	1

Client Sample Results

							Job ID: 440-28	82280-1
Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sam	pling							
Client Sample ID: Sample Date Collected: 04/20/21 18:42 Date Received: 04/21/21 12:30	Point #2 - Compos	site			Lal	b Sample	D: 440-282 Matrix	2280-7 : Water
General Chemistry (Continued		RL	MDL	Unit	D	Broporod	Applyzod	
Analyte Total Suspended Solids	Result Qualifier	KL		mg/L	<u> </u>	Prepared	Analyzed 04/21/21 14:02	Dil Fac
Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	3.7	2.0		mg/L			04/21/21 18:30	1
Client Sample ID: Sample Date Collected: 04/20/21 07:30 Date Received: 04/21/21 12:30	Point #2 - First Gra	ab			Lal	b Sample	D: 440-282 Matrix	
Method: Field Sampling - Field					_	_		
Analyte Field pH	Result Qualifier	NONE	NONE	Unit SU	<u>D</u>	Prepared	Analyzed 04/20/21 07:30	
Field Temperature	21.80			SU Celsius			04/20/21 07:30	1
Method: Composite - Sample	• •		NOVE	11	-	December	A	
Analyte Composited	Result Qualifier	NONE	NONE	NONE	D	Prepared	Analyzed 04/22/21 12:39	Dil Fac
Client Sample ID: Sample							ID: 440-282	
						-	Matrix	: Wate
Date Received: 04/21/21 12:30 - Method: Field Sampling - Field		NONE	NONE					
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte	Result Qualifier	NONE	NONE		<u>D</u>	Prepared	Analyzed	Dil Fac
Date Received: 04/21/21 12:30 Method: Field Sampling - Field		NONE	NONE	Unit SU Celsius	D	Prepared		Dil Fac
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH	ResultQualifier7.2921.80	NONE	NONE	SU	D	Prepared	Analyzed 04/20/21 09:55	Dil Fac
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte	Result Qualifier 7.29 21.80 Compositing Qualifier Result Qualifier	NONE	NONE	SU Celsius Unit	D	Prepared	Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed	Dil Fac 1 1
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited	Result Qualifier 7.29 21.80 Compositing Result Qualifier yes	NONE		SU Celsius	D	Prepared	Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed 04/22/21 12:39	Dil Fac 1 1 Dil Fac 1
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 13:50	Result Qualifier 7.29 21.80 Compositing Result Qualifier yes	NONE		SU Celsius Unit	D	Prepared	Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed 04/22/21 12:39 D: 440-2822	Dil Fac
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 13:50 Date Received: 04/21/21 12:30 Method: Field Sampling - Field	Result Qualifier 7.29 21.80 Compositing Result Qualifier yes Qualifier Point #2 - Third Gr d Sampling	NONE	NONE	SU Celsius Unit NONE	D	Prepared Sample	Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed 04/22/21 12:39 D: 440-2822 Matrix	Dil Fac
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 13:50 Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte	Result Qualifier 7.29 21.80 Compositing Result Qualifier yes 9 Point #2 - Third Gr d Sampling Result Qualifier	NONE		SU Celsius Unit NONE	D	Prepared	Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed 04/22/21 12:39 D: 440-2822	Dil Fac 1 1 280-10 280-10 : Water
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 13:50 Date Received: 04/21/21 12:30 Method: Field Sampling - Field	Result Qualifier 7.29 21.80 Compositing Result Qualifier yes Qualifier Point #2 - Third Gr d Sampling	NONE	NONE	SU Celsius Unit NONE	D	Prepared Sample	Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed 04/22/21 12:39 D: 440-2822 Matrix Analyzed	Dil Fac
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 13:50 Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample	Result Qualifier 7.29 21.80 Compositing Result Qualifier yes 9 Point #2 - Third Gr d Sampling Qualifier Result Qualifier 7.28 22.60 Compositing 1	NONE	NONE	SU Celsius Unit NONE Unit SU Celsius	D	Prepared Sample	Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed 04/22/21 12:39 ID: 440-2822 Matrix Analyzed 04/20/21 13:50 04/20/21 13:50	Dil Fac 1 1 280-10 : Water Dil Fac 1 1
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 13:50 Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field pH Field Temperature	Result Qualifier 7.29 21.80 Compositing Result Qualifier yes 9 Point #2 - Third Gr d Sampling Qualifier 7.28 22.60	NONE	NONE	SU Celsius Unit NONE Unit SU Celsius	D	Prepared Sample	 Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed 04/22/21 12:39 440-2822 Matrix Analyzed 04/20/21 13:50 	Dil Fac 1 1 280-10 : Water Dil Fac 1 1
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 13:50 Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 18:18	Result Qualifier 7.29 21.80 Compositing Result Qualifier yes 9 Point #2 - Third Gr d Sampling Qualifier Result Qualifier 7.28 22.60 Compositing Qualifier yes 1	NONE	NONE	SU Celsius Unit NONE Unit SU Celsius Unit	D	Prepared Prepared Prepared Prepared	Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed 04/22/21 12:39 D: 440-2822 Matrix Analyzed 04/20/21 13:50 04/20/21 13:50 04/20/21 13:50 12: 440-2822	Dil Fac 1 1 280-10 : Water 1 1 1 Dil Fac 1 280-11
Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 13:50 Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 18:18 Date Received: 04/21/21 12:30 Method: Field Sampling - Field	Result Qualifier 7.29 21.80 Compositing Qualifier yes Qualifier yes Qualifier yes Qualifier yes Qualifier yes Qualifier d Sampling Qualifier 7.28 Qualifier 22.60 Qualifier yes Qualifier yes Qualifier d Sampling Qualifier ges Qualifier d Sampling Qualifier d Sampling Qualifier	NONE ab NONE	NONE	SU Celsius Unit NONE Unit SU Celsius Unit NONE	D 	Prepared Sample Prepared Prepared Sample	Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed 04/22/21 12:39 D: 440-2822 Matrix Analyzed 04/20/21 13:50 04/20/21 13:50 04/20/21 13:50 04/20/21 12:39 D: 440-2822 Matrix	Dil Fac 1 280-10 : Water Dil Fac 1 1 280-11 1 280-11 : Water
Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 13:50 Date Received: 04/21/21 12:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 04/20/21 18:18 Date Collected: 04/20/21 18:18 Date Received: 04/21/21 12:30	Result Qualifier 7.29 21.80 Compositing Qualifier yes Qualifier Point #2 - Third Gr d Sampling Qualifier 7.28 22.60 Compositing Qualifier 7.28 22.60 Compositing Qualifier yes Point #2 - Fourth C	NONE	NONE	SU Celsius Unit NONE Unit SU Celsius Unit NONE	D	Prepared Prepared Prepared Prepared	Analyzed 04/20/21 09:55 04/20/21 09:55 Analyzed 04/22/21 12:39 D: 440-2822 Matrix Analyzed 04/20/21 13:50 04/20/21 13:50 04/20/21 13:50 12: 440-2822	Dil Fac 1 280-10 Water Dil Fac 1 1 Dil Fac 1 280-11

Client Sample Results

Client: Carlsbad Energy Center
Project/Site: EWA Quarterly Sampling

Job ID: 440-282280-1

Client Sample ID: Sam Date Collected: 04/20/21 18 Date Received: 04/21/21 12	:18		Lab Sample ID: 440-282280-11 Matrix: Water						
	ple Compositin	g							
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Composited	yes				NONE			04/22/21 12:39	1
Client Sample ID: Sam	ple Point #2 -	1664 Co	mposite			Lab	Sample II	D: 440-2822	280-12
Date Collected: 04/20/21 18	•							Matrix	: Water
Date Received: 04/21/21 12	:30								
_ General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	1.5		1.1	0.55	mg/L		04/22/21 09:30	04/22/21 15:33	1

Method Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Job ID: 440-282280-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL IRV
245.1	Mercury (CVAA)	EPA	TAL IRV
1664A	HEM and SGT-HEM	1664A	ECL 1
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL IRV
SM5210B	BOD, 5 Day	SM	TAL IRV
Field Sampling	Field Sampling	EPA	TAL IRV
Composite	Sample Compositing	None	ECL 1
1664A	HEM and SGT-HEM (Aqueous)	1664A	ECL 1
200.2	Preparation, Total Recoverable Metals	EPA	TAL IRV
245.1	Preparation, Mercury	EPA	TAL IRV

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Initial

Amount

Final

Amount

Batch

Туре

Client Sample ID: Sample Point # - Composite Date Collected: 04/20/21 18:35 Date Received: 04/21/21 12:30

Batch

Method

		Ма	trix:
Batch	Prepared		
Number	or Analyzed	Analyst	Lab
644665	04/22/21 00.34	1777	

Total Recoverable	Prep	200.2		25 mL	25 mL	644665	04/22/21 09:34	LZY7	TAL IRV
Total Recoverable	Analysis	200.7 Rev 4.4	1			644730	04/22/21 16:55	VZ0K	TAL IRV
Total/NA	Prep	245.1		20 mL	30 mL	644670	04/22/21 09:58	MA6V	TAL IRV
Total/NA	Analysis	245.1	1			644739	04/22/21 15:56	C0YH	TAL IRV
Total/NA	Analysis	SM 2540C	1	100 mL	100 mL	644597	04/21/21 14:09	VY3D	TAL IRV
Total/NA	Analysis	SM 2540D	1	400 mL	1000 mL	644596	04/21/21 14:02	ZL7L	TAL IRV
Total/NA	Analysis	SM5210B	1	120 mL	300 mL	644705	04/22/21 13:06	W0EF	TAL IRV

Dil

Factor

Run

Client Sample ID: Sample Point #1 - First Grab Date Collected: 04/20/21 07:15

Date Received: 04/21/21 12:30

Prep Type

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	Field Sampling		1			644627	04/20/21 07:15	P1R	TAL IRV	4
Total/NA	Analysis	Composite		1			145200	04/22/21 12:39	C4LT	ECL 1	

Client Sample ID: Sample Point #1 - Second Grab Date Collected: 04/20/21 09:45 Date Received: 04/21/21 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			644627	04/20/21 09:45	P1R	TAL IRV
Total/NA	Analysis	Composite		1			145200	04/22/21 12:39	C4LT	ECL 1

Client Sample ID: Sample Point #1 - Third Grab Date Collected: 04/20/21 13:45 Date Received: 04/21/21 12:30

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis Field Sampling 644627 04/20/21 13:45 P1R TAL IRV 1 Total/NA 04/22/21 12:39 C4LT Analysis Composite 145200 ECL 1 1

Client Sample ID: Sample Point #1 - Fourth Grab Date Collected: 04/20/21 18:12 Date Received: 04/21/21 12:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			644627	04/20/21 18:12	P1R	TAL IRV
Total/NA	Analysis	Composite		1			145200	04/22/21 12:39	C4LT	ECL 1

Job ID: 440-282280-1

Lab Sample ID: 440-282280-1 Matrix: Water

Lab Sample ID: 440-282280-3 Matrix: Water

Lab Sample ID: 440-282280-4

Lab Sample ID: 440-282280-5

Matrix: Water

Matrix: Water

Client Sample ID: Sample Point #1 - 1664 Composite Date Collected: 04/20/21 18:12 Date Received: 04/21/21 12:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			922 mL	1000 mL	145117	04/22/21 09:30	UWEZ	ECL 1
Total/NA	Analysis	1664A		1			145265	04/22/21 15:33	F7UI	ECL 1

Client Sample ID: Sample Point #2 - Composite Date Collected: 04/20/21 18:42 Date Received: 04/21/21 12:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.2			25 mL	25 mL	644665	04/22/21 09:34	LZY7	TAL IRV
Total Recoverable	Analysis	200.7 Rev 4.4		1			644730	04/22/21 17:01	VZ0K	TAL IRV
Total/NA	Prep	245.1			20 mL	30 mL	644670	04/22/21 09:58	MA6V	TAL IRV
Total/NA	Analysis	245.1		1			644739	04/22/21 16:02	C0YH	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	644597	04/21/21 14:09	VY3D	TAL IRV
Total/NA	Analysis	SM 2540D		1	950 mL	1000 mL	644596	04/21/21 14:02	ZL7L	TAL IRV
Total/NA	Analysis	SM5210B		1	300 mL	300 mL	644562	04/21/21 18:30	VY3D	TAL IRV

Client Sample ID: Sample Point #2 - First Grab Date Collected: 04/20/21 07:30 Date Received: 04/21/21 12:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			644627	04/20/21 07:30	P1R	TAL IRV
Total/NA	Analysis	Composite		1			145200	04/22/21 12:39	C4LT	ECL 1

Client Sample ID: Sample Point #2 - Second Grab Date Collected: 04/20/21 09:55 Date Received: 04/21/21 12:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			644627	04/20/21 09:55	P1R	TAL IRV
Total/NA	Analysis	Composite		1			145200	04/22/21 12:39	C4LT	ECL 1

Client Sample ID: Sample Point #2 - Third Grab Date Collected: 04/20/21 13:50 Date Received: 04/21/21 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analvst	Lab
Total/NA	Analysis	Field Sampling		1	Amount	Amount	644627	04/20/21 13:50		TAL IRV
Total/NA	Analysis	Composite		1			145200	04/22/21 12:39	C4LT	ECL 1

Lab Sample ID: 440-282280-6 Matrix: Water

Lab Sample ID: 440-282280-7

Matrix: Water

Lab Sample ID: 440-282280-8 Matrix: Water

Lab Sample ID: 440-282280-9

Lab Sample ID: 440-282280-10

Matrix: Water

Matrix: Water

Client Sample ID: Sample Point #2 - Fourth Grab Date Collected: 04/20/21 18:18 Date Received: 04/21/21 12:30

_	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type Total/NA	Type Analysis	Method Field Sampling	Run	Factor	Amount	Amount	Number 644627	or Analyzed 04/20/21 18:18	Analyst P1R	TAL IRV
Total/NA	Analysis	Composite		1			145200	04/22/21 12:39	C4LT	ECL 1

Client Sample ID: Sample Point #2 - 1664 Composite Date Collected: 04/20/21 18:18 Date Received: 04/21/21 12:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			922 mL	1000 mL	145117	04/22/21 09:30	UWEZ	ECL 1
Total/NA	Analysis	1664A		1			145265	04/22/21 15:33	F7UI	ECL 1

Laboratory References:

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

Matrix: Water

Lab Sample ID: 440-282280-11

Lab Sample ID: 440-282280-12

2 3 4 5 6 7 8 9 10 11 12

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 440-644665/1-A Matrix: Water Analysis Batch: 644730

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		04/22/21 09:34	04/22/21 16:50	1
Cadmium	ND		0.0050	0.0025	mg/L		04/22/21 09:34	04/22/21 16:50	1
Chromium	ND		0.0050	0.0025	mg/L		04/22/21 09:34	04/22/21 16:50	1
Copper	ND		0.010	0.0050	mg/L		04/22/21 09:34	04/22/21 16:50	1
Lead	ND		0.0050	0.0038	mg/L		04/22/21 09:34	04/22/21 16:50	1
Molybdenum	ND		0.020	0.010	mg/L		04/22/21 09:34	04/22/21 16:50	1
Nickel	ND		0.010	0.0050	mg/L		04/22/21 09:34	04/22/21 16:50	1
Selenium	ND		0.010	0.0087	mg/L		04/22/21 09:34	04/22/21 16:50	1
Silver	ND		0.010	0.0050	mg/L		04/22/21 09:34	04/22/21 16:50	1
Zinc	ND		0.020	0.012	mg/L		04/22/21 09:34	04/22/21 16:50	1

Lab Sample ID: LCS 440-644665/2-A Matrix: Water Analysis Batch: 644730

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 644665

Client Sample ID: Sample Point # - Composite

Prep Type: Total Recoverable

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	0.500	0.497		mg/L		99	85 - 115
Cadmium	0.500	0.498		mg/L		100	85 - 115
Chromium	0.500	0.498		mg/L		100	85 - 115
Copper	0.500	0.492		mg/L		98	85 - 115
Lead	0.500	0.496		mg/L		99	85 - 115
Molybdenum	0.500	0.482		mg/L		96	85 - 115
Nickel	0.500	0.499		mg/L		100	85 - 115
Selenium	0.500	0.493		mg/L		99	85 - 115
Silver	0.250	0.229		mg/L		92	85 - 115
Zinc	0.500	0.497		mg/L		99	85 - 115

Lab Sample ID: 440-282280-1 MS Matrix: Water

Analysis Batch: 644730 Prep Batch: 644665 MS MS Sample Sample Spike %Rec. Analyte **Result Qualifier** Added **Result Qualifier** Unit D %Rec Limits 70 - 130 Arsenic ND 0.500 0.505 mg/L 101 Cadmium ND 0.500 0.491 mg/L 98 70 - 130 Chromium ND 0.500 0.501 mg/L 100 70 - 130 0.0097 0.500 0.523 103 70-130 Copper J mg/L Lead ND 0.500 0.493 99 70 - 130 mg/L 0.500 0.506 mg/L 98 70 - 130 Molybdenum 0.014 J Nickel 0.0055 J 0.500 0.497 mg/L 98 70 - 130 Selenium ND 0.500 0.492 mg/L 98 70 - 130 Silver ND 0.250 0.232 mg/L 93 70 - 130 Zinc 0.68 0.500 1.17 mg/L 99 70 - 130

Lab Sample ID: 440-282280-1 MSD Client Sample ID: Sample Point # - Composite **Matrix: Water** Prep Type: Total Recoverable Analysis Batch: 644730 Prep Batch: 644665 MSD MSD Sample Sample Spike %Rec. RPD RPD **Result Qualifier** Added **Result Qualifier** Limits Limit Analyte Unit D %Rec ND 0.500 0.506 Arsenic 70 - 130 20 mg/L 101 0

Eurofins Calscience Irvine

Prep Batch: 644665

Client Sample ID: Method Blank

Prep Type: Total Recoverable

1(1)

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

Lab Sample ID: 440-282280-1 MSD Client Sample ID: Sample Point # - Composite Matrix: Water **Prep Type: Total Recoverable** Analysis Batch: 644730 Prep Batch: 644665 Sample Sample MSD MSD %Rec. RPD Spike Analyte **Result Qualifier** Added **Result Qualifier** Unit D %Rec Limits RPD Limit Cadmium ND 0.500 0.492 mg/L 98 70 - 130 0 20 Chromium ND 0.500 0.503 mg/L 101 70 - 130 0 20 0.0097 0.500 0.524 70 - 130 20 Copper mg/L 103 0 J Lead ND 0.500 0.491 mg/L 98 70 - 130 0 20 Molybdenum 0.500 0.508 mg/L 99 70 - 130 20 0.014 J 1 20 Nickel 0.0055 J 0.500 0.499 mg/L 99 70 - 130 0 Selenium ND 0.500 0.488 mg/L 98 70 - 130 20 1 Silver ND 0.232 93 20 0.250 mg/L 70 - 130 0 Zinc 0.68 0.500 1.18 101 70 - 130 20 mg/L 1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 440-644	4670/1-A									Clie	nt Sam	ole ID: M	ethod	Blank
Matrix: Water												Prep Ty	pe: Tot	al/NA
Analysis Batch: 644739												Prep Ba	atch: 6	44670
		MB	MB											
Analyte	Re	sult	Qualifier	F	RL	MDL	Unit		D	Pr	repared	Analyz	zed	Dil Fac
Mercury		ND		0.000	20 0.0	00010	mg/L			04/2	2/21 09:58	04/22/21	15:51	1
Lab Sample ID: LCS 440-64	4670/2-A							CI	ient	Sar	nple ID:	Lab Cor	ntrol Sa	ample
Matrix: Water												Prep Ty	pe: Tot	al/NA
Analysis Batch: 644739												Prep Ba	atch: 6	44670
				Spike	LCS	LCS	;					%Rec.		
Analyte				Added	Resul	t Qua	lifier	Unit		D	%Rec	Limits		
Mercury				0.00600	0.00605	5		mg/L		_	101	85 - 115		
_ Lab Sample ID: 440-282280	-1 MS						Clien	t Sam	ple	ID: S	Sample	Point #	- Comr	osite
Matrix: Water												Prep Ty		
Analysis Batch: 644739												Prep Ba		
· · · · · , · · · · · · · · · · · · · · · · · · ·	Sample	Sam	ple	Spike	MS	S MS						%Rec.		
Analyte	Result	Qua	lifier	Added	Resul	t Qua	lifier	Unit		D	%Rec	Limits		
Mercury	ND			0.00600	0.00567	7		mg/L			95	75 - 125		
Lab Sample ID: 440-282280	-1 MSD						Clien	t Sam	ple	ID: S	Sample	Point #	- Com	osite
Matrix: Water												Prep Ty		
Analysis Batch: 644739												Prep Ba		
	Sample	Sam	ple	Spike	MSE	MSE)					%Rec.		RPD
Analyte	Result	Qua	lifier	Added	Resul	t Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
Mercury	ND			0.00600	0.00557	7		mg/L		_	93	75 - 125	2	20
Method: 1664A - HEM a	nd SGT-ł	HEN	1											
_ Lab Sample ID: MB 570-14	147/4 A										nt Same	ole ID: M	othod	Plank
Matrix: Water) <i> </i> -A									Cile	an Saili	Prep Ty		
Analysis Batch: 145265												Prep Ba	-	
Analysis Daton. 140200		мв	MR									пер Ве	aton. I	

Job ID: 440-282280-1

Job ID: 440-282280-1

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 570-14	5117/2-A					Clie	ent Sar	nple ID	: Lab Cor		
Matrix: Water									Prep Ty		
Analysis Batch: 145265									Prep Ba	atch: 1	45117
			Spike		LCS				%Rec.		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
HEM: Oil and Grease			40.0	37.50		mg/L		94	78 - 114		
Lab Sample ID: LCSD 570-	145117/3-A	L			c	lient S	ample	ID: Lab	Control	Samp	le Dur
Matrix: Water									Prep Ty	pe: To	tal/NA
Analysis Batch: 145265									Prep Ba	atch: 1	4511
			Spike	LCSD	LCSD				%Rec.		RPI
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
HEM: Oil and Grease			40.0	37.80		mg/L		94	78 - 114	1	1
Lab Sample ID: 440-282280	-6 MS			CI	ient Sam	ple ID:	Samp	e Point	t #1 - 1664	1 Com	posite
Matrix: Water									Prep Ty		-
Analysis Batch: 145265									Prep Ba		
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
HEM: Oil and Grease	3.6		43.4	43.82		mg/L		93	78 - 114		
Lab Sample ID: 440-282280				C	iont Sam		Sampl	o Point	t #1 - 166 4	1 Com	nosit
Matrix: Water	U MOD					pic ib.	oump		Prep Ty		
Analysis Batch: 145265									Prep Ba	-	
Analysis Datch. 145205	Sample	Sample	Spike	MSD	MSD				%Rec.	aten. i	RPI
Analyte		Qualifier	Added	-	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
HEM: Oil and Grease	3.6		43.5	44.02		mg/L		93	78 - 114		
			10.0			g/ =		00			
Nethod: SM 2540C - So	lids, Tota	I Dissolv									
Lab Sample ID: MB 440-644		I Dissolv					Clie		nple ID: M		Blanl
Lab Sample ID: MB 440-644 Matrix: Water		Il Dissolv					Clie				Blan
Lab Sample ID: MB 440-644 Matrix: Water							Clie		nple ID: M		Blan
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597	1597/1	MB MB	ed (TDS	5)	MDI Unit			ent Sam	nple ID: M Prep Ty	pe: To	Blanl tal/N/
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597	1597/1	MB MB esult Qualifie	ed (TDS	5)	MDL Unit				nple ID: M	pe: To zed	Blank tal/NA Dil Fa
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte	1597/1	MB MB	ed (TDS	5)	MDL Unit 5.0 mg/L		D P	ent Sam	nple ID: M Prep Ty — Analy: 	pe: To zed 14:08	Blanl tal/N/ Dil Fa
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-64	1597/1 Re	MB MB esult Qualifie	ed (TDS	5)			D P	ent Sam	nple ID: M Prep Ty 	pe: To zed 14:08	Blanl tal/N/ Dil Fa
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-64	1597/1 Re	MB MB esult Qualifie	ed (TDS	5)			D P	ent Sam	nple ID: M Prep Ty — Analy: 	pe: To zed 14:08	Blanl tal/N/ Dil Fa
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids	1597/1 Re	MB MB esult Qualifie	ed (TDS	5)			D P	ent Sam	nple ID: M Prep Ty 	pe: To zed 14:08	Blanl tal/N/ Dil Fa
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-64 Matrix: Water	1597/1 Re	MB MB esult Qualifie	ed (TDS	8) <u>RL</u> 10			D P	ent Sam	nple ID: M Prep Ty 	pe: To zed 14:08	Blani tal/NA Dil Fa
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644597	1597/1 Re	MB MB esult Qualifie	ed (TDS	RL 10 LCS	5.0 mg/L		D P	ent Sam	Prep Ty Prep Ty <u>Analy:</u> 04/21/21 : Lab Cor Prep Ty	pe: To zed 14:08	Blanl tal/N/ Dil Fa
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644597 Analyte	1597/1 Re	MB MB esult Qualifie	ed (TDS	RL 10 LCS	5.0 mg/L	Clie	D P	ent Sam repared nple ID	nple ID: M Prep Ty 	pe: To zed 14:08	Blank tal/NA Dil Fac
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids	1597/1 Re 14597/2	MB MB esult Qualifie	r Spike	RL 10 LCS Result	5.0 mg/L LCS Qualifier	Clie Unit mg/L	D P ent Sar	ent Sam repared mple ID <u>%Rec</u> 96	nple ID: M Prep Ty 	pe: To zed 14:08 htrol S pe: To	Blanl tal/N/ Dil Fa ample tal/N/
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: 440-282280	1597/1 Re 14597/2	MB MB esult Qualifie	r Spike	RL 10 LCS Result	5.0 mg/L LCS Qualifier	Clie Unit mg/L	D P ent Sar	ent Sam repared mple ID <u>%Rec</u> 96	Analy: Analy: 04/21/21 : Lab Cor Prep Ty %Rec. Limits 90 - 110	pe: To zed 14:08 htrol S pe: To - Com	Blanl tal/N/ Dil Fa ample tal/N/
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: 440-282280 Matrix: Water	1597/1 Re 14597/2	MB MB esult Qualifie	r Spike	RL 10 LCS Result	5.0 mg/L LCS Qualifier	Clie Unit mg/L	D P ent Sar	ent Sam repared mple ID <u>%Rec</u> 96	Analy: - Analy: 04/21/21 : Lab Cor Prep Ty %Rec. Limits 90 - 110 • Point #	pe: To zed 14:08 htrol S pe: To - Com	Blank tal/N/ Dil Fac ample tal/N/
Lab Sample ID: MB 440-644 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids	1597/1 Re 14597/2 -1 DU	MB MB esult Qualifie	r Spike	RL 10 LCS <u>Result</u> 964	5.0 mg/L LCS Qualifier	Clie Unit mg/L	D P ent Sar	ent Sam repared mple ID <u>%Rec</u> 96	Analy: - Analy: 04/21/21 : Lab Cor Prep Ty %Rec. Limits 90 - 110 • Point #	pe: To zed 14:08 htrol S pe: To - Com	Blank tal/NA Dil Fac ample tal/NA posite tal/NA
Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644597 Analyte Total Dissolved Solids Lab Sample ID: 440-282280 Matrix: Water	1597/1 Re 14597/2 -1 DU Sample	MB MB esult Qualifie ND	r Spike	RL 10 LCS Result 964	5.0 mg/L LCS Qualifier Clien	Clie Unit mg/L	D P ent Sar	ent Sam repared mple ID <u>%Rec</u> 96	Analy: - Analy: 04/21/21 : Lab Cor Prep Ty %Rec. Limits 90 - 110 • Point #	pe: To zed 14:08 htrol S pe: To - Com	Blank tal/NA Dil Fac 1 ample tal/NA

QC Sample Results

Job ID: 440-282280-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 440-64 Matrix: Water							Cill	Sin Saili	ple ID: Meth Prep Type:		
Analysis Batch: 644596											
		MB MB									
Analyte	Re	sult Qualifier		RL	MDL Unit		D P	repared	Analyzed	C	Dil Fa
Total Suspended Solids		ND		1.0	0.50 mg/L				04/21/21 14:0)2	
Lab Sample ID: LCS 440-64	44596/2					Clie	nt Sa	mple ID	: Lab Contro	ol Sa	mp
Matrix: Water									Prep Type:		
Analysis Batch: 644596											
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Total Suspended Solids			1000	917		mg/L		92	85 - 115		
Lab Sample ID: 440-282280	0-1 DU				Clien	t Samp	le ID:	Sample	Point # - C	omp	osi
Matrix: Water								••••••	Prep Type:		
Analysis Batch: 644596											au 1
	Sample	Sample		וום	DU						R
Analyte	•	Qualifier			Qualifier	Unit	D		F	RPD	Lir
Total Suspended Solids	13			13.5		mg/L				2	
	10			10.0		ing/E				-	
Lab Sample ID: USB 440-6 Matrix: Water							Cli	ent Sam	ple ID: Meth Prep Type:		
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562	ι	ISB USB							Prep Type:	Tota	al/N
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 ^{Analyte}	LRes	sult Qualifier		RL	RL Unit			ent Sam	Prep Type: Analyzed	Tota	al/N
Iethod: SM5210B - BO Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand	LRes			RL	RL Unit 2.0 mg/L				Prep Type:	Tota	al/N
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand	L Res	sult Qualifier					<u>D</u>	repared	Analyzed 04/21/21 09:2	Tota	al/N Dil F
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte	L Res	sult Qualifier					<u>D</u>	repared	Prep Type: <u>Analyzed</u> 04/21/21 09:: : Lab Contro	Tota 	al/N Dil F mp
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water	L Res	sult Qualifier					<u>D</u>	repared	Analyzed 04/21/21 09:2	Tota 	al/N Dil F mp
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64	L Res	sult Qualifier	 Spike	2.0			<u>D</u>	repared	Prep Type: <u>Analyzed</u> 04/21/21 09:: : Lab Contro	Tota 	al/N Dil F mp
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water	L Res	sult Qualifier	Spike Added	2.0 LCS	2.0 mg/L		<u>D</u>	repared	Prep Type: Analyzed 04/21/21 09: Lab Contro Prep Type:	Tota 	al/N Dil F mp
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte	L Res	sult Qualifier	•	2.0 LCS	2.0 mg/L	Clie	D P	repared mple ID	Prep Type: Analyzed 04/21/21 09: Lab Contro Prep Type: %Rec.	Tota 	al/N Dil F mp
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand	L Re: 44562/7	sult Qualifier	Added	2.0 LCS Result	2.0 mg/L LCS Qualifier	Clie Unit mg/L	D F Int Sa	mple ID	Analyzed 04/21/21 09: Lab Contro Prep Type: %Rec. Limits	Tota 25 DI Sa Tota	al/N Dil F mp al/N
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562	L Re: 44562/7	sult Qualifier	Added	2.0 LCS Result	2.0 mg/L LCS Qualifier	Clie Unit mg/L	D F Int Sa	mple ID	Analyzed 04/21/21 09:3 : Lab Control San %Rec. Limits 85 - 115 Control San	Tota 25 C ol Sal Tota mple	Dil F mp al/N
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440-	L Re: 44562/7	sult Qualifier	Added	2.0 LCS Result 186	2.0 mg/L LCS Qualifier	Clie Unit mg/L	D F Int Sa	mple ID	Analyzed 04/21/21 09:3 : Lab Contro Prep Type: %Rec. Limits 85 - 115	Tota 25 C ol Sal Tota mple	Dil F mp al/N
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440- Matrix: Water	L Re: 44562/7	sult Qualifier	Added	2.0 LCS Result 186	2.0 mg/L LCS Qualifier	Clie Unit mg/L	D F Int Sa	mple ID	Analyzed 04/21/21 09:3 : Lab Control San %Rec. Limits 85 - 115 Control San	Tota 25 C ol Sal Tota mple	Dil F mp al/N
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440- Matrix: Water Analysis Batch: 644562	L Re: 44562/7	sult Qualifier	Added 199	2.0 LCS Result 186	2.0 mg/L LCS Qualifier	Clie Unit mg/L	D F Int Sa	mple ID	Prep Type: Analyzed 04/21/21 09: Lab Control Prep Type: %Rec. Limits 85 - 115 Control Sau Prep Type: %Rec.	Tota 25 C ol Sal Tota mple	Dil F mpal/N al/N R
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440- Matrix: Water Analysis Batch: 644562 Analyte	L Re: 44562/7	sult Qualifier	Added 199 Spike	2.0 LCS Result 186	2.0 mg/L LCS Qualifier	Clie Unit mg/L Client Sa	D F ent Sa D ample	mple ID <u>%Rec</u> 94 ID: Lab	Prep Type: Analyzed 04/21/21 09: Lab Control Prep Type: %Rec. Limits 85 - 115 Control Sau Prep Type: %Rec.	Tota <u>25</u> DI Sal Tota mple Tota	Dil F mp al/N al/N Ri Liu
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440- Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand	L Re: 44562/7 644562/8	sult Qualifier	Added 199 Spike Added	2.0 LCS Result 186 LCSD Result	2.0 mg/L LCS Qualifier LCSD Qualifier	Clie Unit mg/L Client Sa Unit mg/L	D F ent Sa D ample	mple ID <mark>%Rec</mark> 94 ID: Lab <u>%Rec</u> 92	Analyzed 04/21/21 09:3 : Lab Control Prep Type: %Rec. Limits 85 - 115 Control San Prep Type: %Rec. Limits 85 - 115	Tota 25 DI Sa Tota mple Tota RPD 1	al/h Dil F mp al/h al/h R Lii
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440- Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440-	L Re: 44562/7 644562/8	sult Qualifier	Added 199 Spike Added	2.0 LCS Result 186 LCSD Result	2.0 mg/L LCS Qualifier LCSD Qualifier	Clie Unit mg/L Client Sa Unit mg/L	D F ent Sa D ample	mple ID <mark>%Rec</mark> 94 ID: Lab <u>%Rec</u> 92	Analyzed 04/21/21 09:3 : Lab Control Prep Type:3 %Rec. Limits 85 - 115 %Rec. Limits %Rec. Limits %Rec. Limits %Rec. Limits %Rec. Limits 85 - 115 %Control Sat	Tota <u>25</u> DI Sa Tota mple <u>RPD</u> 1 mple	Dil F mp al/h al/h R Lin
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440- Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440- Matrix: Water	L Re: 44562/7 644562/8	sult Qualifier	Added 199 Spike Added	2.0 LCS Result 186 LCSD Result	2.0 mg/L LCS Qualifier LCSD Qualifier	Clie Unit mg/L Client Sa Unit mg/L	D F ent Sa D ample	mple ID <mark>%Rec</mark> 94 ID: Lab <u>%Rec</u> 92	Analyzed 04/21/21 09:3 : Lab Control Prep Type: %Rec. Limits 85 - 115 Control San Prep Type: %Rec. Limits 85 - 115	Tota <u>25</u> DI Sa Tota mple <u>RPD</u> 1 mple	Dil F mp al/N al/N Ri Lin
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440- Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440- Matrix: Water	L Re: 44562/7 644562/8	sult Qualifier	Added 199 Spike Added 199	2.0 LCS Result 186 LCSD Result 184	2.0 mg/L LCS Qualifier Qualifier	Clie Unit mg/L Client Sa Unit mg/L	D F ent Sa D ample	mple ID <mark>%Rec</mark> 94 ID: Lab <u>%Rec</u> 92	Analyzed 04/21/21 09:3 : Lab Control Prep Type:3 %Rec. Limits 85 - 115 Control Sate Prep Type:3 %Rec. Limits 85 - 115 Control Sate %Rec. Limits 85 - 115 Control Sate Prep Type:3 %Rec. Limits 85 - 115	Tota <u>25</u> DI Sa Tota mple <u>RPD</u> 1 mple	Dil F mp al/N Dil F Ri Lir Ri Lir
Lab Sample ID: USB 440-6 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-64 Matrix: Water Analysis Batch: 644562 Analyte Biochemical Oxygen Demand Lab Sample ID: LCSD 440- Matrix: Water	L Re: 44562/7 644562/8	sult Qualifier	Added 199 Spike Added	2.0 LCS Result 186 LCSD Result 184	2.0 mg/L LCS Qualifier LCSD Qualifier	Clie Unit mg/L Client Sa Unit mg/L	D F ent Sa D ample	mple ID <mark>%Rec</mark> 94 ID: Lab <u>%Rec</u> 92	Analyzed 04/21/21 09: : Lab Control Prep Type: %Rec. Limits 85 - 115 %Rec. Limits %Rec. Limits %Rec. Limits %Rec. Limits %Rec. Limits %Rec. Limits %Rec. Winterp Type: %Rec. %Rec. %Rec. %Rec.	Tota <u>25</u> DI Sa Tota mple <u>RPD</u> 1 mple	Dil F mp al/N al/N RF Lin

QC Sample Results

Job ID: 440-282280-1

Method: SM5210B - BOD, 5 Day (Continued)

Lab Sample ID: 440-282218-A-1 DU							Client	Sample II		
Matrix: Water								Prep Ty		al/NA
Analysis Batch: 644562	Sample		ווס	DU						RPD
	Qualifier			Qualifier	Unit	D			RPD	Limit
Biochemical Oxygen Demand 4100			4110	Quaimer	mg/L				0.6	20
			4110		mg/∟				0.0	20
Lab Sample ID: USB 440-644705/3						Clie	ent Sam	nple ID: Mo	ethod I	Blank
Matrix: Water								Prep Ty		
Analysis Batch: 644705										
-	USB USB									
Analyte Re	esult Qualifier		RL	RL Unit	0) Pi	repared	Analyz	ed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0 mg/L				04/22/21	13:06	1
Lab Sample ID: LCS 440-644705/7					Clier	nt Sar	nple ID	: Lab Con		
Matrix: Water								Prep Ty	pe: lot	al/NA
Analysis Batch: 644705		0	1.00					0/ D		
Anchite		Spike Added	_	LCS	11	-	% Dee	%Rec.		
Analyte Biochemical Oxygen Demand		Added 199		Qualifier	Unit	D	%Rec 97	Limits 85 - 115		
		199	193		mg/L		97	00-110		
Lab Sample ID: LCSD 440-644705/8				C	lient Sa	mple	ID: Lab	Control	Sample	e Dup
Matrix: Water								Prep Ty		
Analysis Batch: 644705										
		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Biochemical Oxygen Demand		199	186		mg/L		94	85 - 115	4	20
Lab Sample ID: LCSD 440-644705/9				C	Client Sa	mple	ID: Lab	Control		
Matrix: Water								Prep Ty	pe: Tot	al/NA
Analysis Batch: 644705										
		Spike	_	LCSD		_		%Rec.		RPD
Analyte		Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Biochemical Oxygen Demand		199	180		mg/L		91	85 - 115	7	20
Lab Sample ID: 440-282280-1 DU				Clien	t Sampl	e ID: 9	Sample	Point #	Comr	osite
Matrix: Water				Unon			Campie	Prep Ty		
Allalysis Daluli, 044703										
Analysis Batch: 644705 Sample	Sample		DU	DU						RPD
Sample	Sample Qualifier			DU Qualifier	Unit	D			RPD	RPD Limit

QC Association Summary

Job ID: 440-282280-1

Metals

Prep Batch: 644665

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
440-282280-1	Sample Point # - Composite	Total Recoverable	Water	200.2	
440-282280-7	Sample Point #2 - Composite	Total Recoverable	Water	200.2	
MB 440-644665/1-A	Method Blank	Total Recoverable	Water	200.2	
LCS 440-644665/2-A	Lab Control Sample	Total Recoverable	Water	200.2	
440-282280-1 MS	Sample Point # - Composite	Total Recoverable	Water	200.2	
440-282280-1 MSD	Sample Point # - Composite	Total Recoverable	Water	200.2	
Prep Batch: 644670					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-282280-1	Sample Point # - Composite	Total/NA	Water	245.1	-
440-282280-7	Sample Point #2 - Composite	Total/NA	Water	245.1	
MB 440-644670/1-A	Method Blank	Total/NA	Water	245.1	
LCS 440-644670/2-A	Lab Control Sample	Total/NA	Water	245.1	
440-282280-1 MS	Sample Point # - Composite	Total/NA	Water	245.1	
440-282280-1 MSD	Sample Point # - Composite	Total/NA	Water	245.1	
Analysis Batch: 644	730				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-282280-1	Sample Point # - Composite	Total Recoverable	Water	200.7 Rev 4.4	644665
440-282280-7	Sample Point #2 - Composite	Total Recoverable	Water	200.7 Rev 4.4	644665
MB 440-644665/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	644665
LCS 440-644665/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	644665
440-282280-1 MS	Sample Point # - Composite	Total Recoverable	Water	200.7 Rev 4.4	644665
440-282280-1 MSD	Sample Point # - Composite	Total Recoverable	Water	200.7 Rev 4.4	644665
Analysis Batch: 644	739				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
440-282280-1	Sample Point # - Composite	Total/NA	Water	245.1	644670
440-282280-7	Sample Point #2 - Composite	Total/NA	Water	245 1	644670

440-282280-1 Sample Point # - Composite Total/NA Water 245.1	644670
440-282280-7 Sample Point #2 - Composite Total/NA Water 245.1	644670
MB 440-644670/1-A Method Blank Total/NA Water 245.1	644670
LCS 440-644670/2-A Lab Control Sample Total/NA Water 245.1	644670
440-282280-1 MS Sample Point # - Composite Total/NA Water 245.1	644670
440-282280-1 MSD Sample Point # - Composite Total/NA Water 245.1	644670

General Chemistry

Prep Batch: 145117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-282280-6	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	
440-282280-12	Sample Point #2 - 1664 Composite	Total/NA	Water	1664A	
MB 570-145117/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-145117/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-145117/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
440-282280-6 MS	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	
440-282280-6 MSD	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	

Analysis Batch: 145265

Lab Sample ID 440-282280-6	Client Sample ID Sample Point #1 - 1664 Composite	Prep Type Total/NA	Matrix Water	Method 1664A	Prep Batch 145117
440-282280-12	Sample Point #2 - 1664 Composite	Total/NA	Water	1664A	145117
MB 570-145117/1-A	Method Blank	Total/NA	Water	1664A	145117

QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

General Chemistry (Continued)

Analysis Batch: 145265 (Continued)

thod Prep Batch
54A 145117
64A 145117
64A 145117
64A 145117
thod Prep Batch
thod Prep Batch
I5210B
I5210B
I5210B
I5210B

Analysis Batch: 644596

Duplicate

440-282218-A-1 DU

Lab Sample ID 440-282280-1	Client Sample ID Sample Point # - Composite	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
440-282280-7	Sample Point #2 - Composite	Total/NA	Water	SM 2540D	
MB 440-644596/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 440-644596/2	Lab Control Sample	Total/NA	Water	SM 2540D	
440-282280-1 DU	Sample Point # - Composite	Total/NA	Water	SM 2540D	

Total/NA

Water

Analysis Batch: 644597

Lab Sample ID 440-282280-1	Client Sample ID Sample Point # - Composite	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
440-282280-7	Sample Point #2 - Composite	Total/NA	Water	SM 2540C	
MB 440-644597/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-644597/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-282280-1 DU	Sample Point # - Composite	Total/NA	Water	SM 2540C	

Analysis Batch: 644705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-282280-1	Sample Point # - Composite	Total/NA	Water	SM5210B	
USB 440-644705/3	Method Blank	Total/NA	Water	SM5210B	
LCS 440-644705/7	Lab Control Sample	Total/NA	Water	SM5210B	
LCSD 440-644705/8	Lab Control Sample Dup	Total/NA	Water	SM5210B	
LCSD 440-644705/9	Lab Control Sample Dup	Total/NA	Water	SM5210B	
440-282280-1 DU	Sample Point # - Composite	Total/NA	Water	SM5210B	

Field Service / Mobile Lab

Analysis Batch: 644627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-282280-2	Sample Point #1 - First Grab	Total/NA	Water	Field Sampling	
440-282280-3	Sample Point #1 - Second Grab	Total/NA	Water	Field Sampling	
440-282280-4	Sample Point #1 - Third Grab	Total/NA	Water	Field Sampling	
440-282280-5	Sample Point #1 - Fourth Grab	Total/NA	Water	Field Sampling	
440-282280-8	Sample Point #2 - First Grab	Total/NA	Water	Field Sampling	
440-282280-9	Sample Point #2 - Second Grab	Total/NA	Water	Field Sampling	
440-282280-10	Sample Point #2 - Third Grab	Total/NA	Water	Field Sampling	
440-282280-11	Sample Point #2 - Fourth Grab	Total/NA	Water	Field Sampling	

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Job ID: 440-282280-1

SM5210B

Organic Prep

Analysis Batch: 145200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-282280-2	Sample Point #1 - First Grab	Total/NA	Water	Composite	
440-282280-3	Sample Point #1 - Second Grab	Total/NA	Water	Composite	
440-282280-4	Sample Point #1 - Third Grab	Total/NA	Water	Composite	
440-282280-5	Sample Point #1 - Fourth Grab	Total/NA	Water	Composite	
440-282280-8	Sample Point #2 - First Grab	Total/NA	Water	Composite	
440-282280-9	Sample Point #2 - Second Grab	Total/NA	Water	Composite	
440-282280-10	Sample Point #2 - Third Grab	Total/NA	Water	Composite	
440-282280-11	Sample Point #2 - Fourth Grab	Total/NA	Water	Composite	

Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

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Qualifiers

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	Clu	

Metals						
Qualifier	Qualifier Description					
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.					
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					
וח						

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)

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

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

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 Client: Carlsbad Energy Center Project/Site: EWA Quarterly Sampling

Laboratory: Eurofins Calscience Irvine

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

Authority	Pr	ogram	Identification Number	Expiration Date
California	Sta	ate	2706	06-30-21
0,		rt, but the laboratory is r	not certified by the governing authority.	This list may include analytes for whi
the agency does not o		rt, but the laboratory is r	not certified by the governing authority.	This list may include analytes for whi
0,		rt, but the laboratory is r Matrix	not certified by the governing authority. Analyte	I his list may include analytes for whi
the agency does not o	offer certification.		, , , , ,	I his list may include analytes for whi

Laboratory: Eurofins Calscience LLC

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

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

17461 Derian Avenue Suite 100																				Enviror nent Testing
Irvine, CA 92614-5843																				n gangerig bigger
phone 949.261.1022 fax 949.260.3299	Regu	latory Pro	ogram: [] DW [NPDE	s		RCRA		🗸 0	ther:						Test	Americ	ca Lab	oratories, Inc. d/b/a Eurofins TestAmerica
	Project Mana	ager: Anth	ony Kalis																	COC No:
Client Contact	Email: anthon	y.kalis@nro	g.com			Si	te C	ontact:	Antho	ny Ka	alis					4/20	/2021			1 of1 COCs
Carlsbad Energy Center	Tel/Fax: 760	427-2382	/ Fax #: No	one		La	ip Ce	ontact:	Rossir	na Toi	mov	'a		Carrie	er: E	urofin	S			TALS Project #:
4950 Avenida Encinas	A	nalysis Tu	rnaround 1					Ľ												Sampler: Anthony Kalis
Carlsbad, CA 92008		R DAYS	V WO	RKING DA	YS			nal												For Lab Use Only:
Phone: (760) 427-2382	ТАТ	If different from	m Below					Man												Walk-in Client:
FAX - None		2 we	eks					Ē	Day		1 E									Lab Sampling:
Project Name: EWA Quarterly Sampling		1 we					î	Adn) , 5		(HEM Only)									
Site: Carlsbad Energy Center		2 da				Î		nia	BOI		Ľ									Job / SDG No.:
PO # : Use Credit Card	✓	1 da	y	· · · · · · · · · · · · · · · · · · ·	r	ΙĘ		ifor	alc-I		ase									· · · · · · · · · · · · · · · · · · ·
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD	200.7 - (MOD) California Admin Manual L; 245.1 - Hg	2540D - TSS; SM5210B_BOD Calc-BOD, 5 Day	2540C_Calcd-TDS	1664A - Oil & Grease	Field pH								了い り(2 [、] /こ) Sample Specific Notes:
Sample Point # Point # 1 - composite	4/20/2021	18:35	С	H20	8	N			X - 4	X - 2										
Sample Point # 1 - First Grab	4/20/2021	7:15	G	H2O	3						X	Х								Composite the 4 Oil & Grease
Sample Point # 1 - Second Grab	4/20/2021	9:45	G	H2O	3						X	Х								samples of each Sump into one
Sample Point # 1 - Third Grab	4/20/2021	13:45	G	H2O	3						X	Х								composite sample. Analyse the
Sample Point # 1 - Fourth Grab	4/20/2021	18:12	G	H2O	3						X	Х	T		Ι,					composite only.
Sample Point # 2 - composite	4/20/2021	18:42	С	H2O	4	Ν	I N	Х	X - 2	х										
Sample Point # 2 - First Grab	4/20/2021	7:30	G	H2O	3						x	Х								composite the 4 Oil & Grease
Sample Point # 2 - Second Grab	4/20/2021	9:55	G	H2O	3						X	Х								amples of each Sump into one
Sample Point # 2 -Third Grab	4/20/2021	13:50	G	H2O	3						X	Х								omposite sample. Analyse the
Sample Point # 2 - Fourth Grab	4/20/2021	18:18	G	H2O	3						X	Х	44	0-2822	80 C	nain o	f Cus	tody		composite only.
															s	ample	e Poir	nt # 1/	Time	Sample Point # 2/ time
													Fie	eld pH 1	1 6	64 p⊦	1/21.4	°C @	0715	7.27 pH/21.8°C @ 0730
													Fie	eld pH 2	2 6	63 p⊢	1/22.4	°C @	0945	7.29 pH/21.8°C @ 0955
													Fie	eld pH 3	3 6	64 p⊦	1/22.7	°C @	1345	7.28 pH/22.6°C @ 1350
													Fie	eld pH 4	4 6	.73 pł	1/22.0)C @	1812	7.28 pH/22.0°C @ 1818
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=H	NO3; 5=NaOH	l; 6= Othe	٢					1/4	1	1	1/2	2								
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? the Comments Section if the lab is to dispose of the sam		iy EPA Wa	ste Codes t	for the s	ample	in	Sar	mple D	sposa	l (Af	iee n	nay t	e ass	sessed	if sa	mples	s are	retain	ed loi	nger than 1 month)
Von-Hazard Flammable Skin Irritar	nt 🗌 Poison B		Unkn	iown			1	Retur	n to Clien	t			\checkmark	Disposal	by La	b		Archiv	e for	Months
															<i>0.</i> (; / C	5.B	l	1.8 /	1.0 IR 95
Custody Seals Intact: Yes No	Custody Sea	I No.:								Cool	ler T	emp.	(°C):	Obs'd:			Corr	'd:		Therm ID No.:
Relinquished by: Anthony Kulii Koh	Company:	IRI		Date/T イノロ/	u 11	15		ceived I	-		In	T	/		Co	mpan	y: E	-	Ylv	Date/Time: $\frac{1}{2}/2(7)$ ((1))
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Relinquished by:	Company:			Date/T	ime:		Re	ceived i	n Labo	ratory	/ by:		<i>4</i>			mpan				Date/Time:

Chain of Custody Record

Eurofins TestAmerica, Irvine

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Eurofins Calscience Irvine

17461 Derian Ave Suite 100

Irvine, CA 92614-5817

Chain of Custody Record



Environment Testing America

Cited Control Proce Exter State Opport Page Page <th>Phone. 949-261-1022 Fax. 949-260-3297</th> <th>-</th> <th></th>	Phone. 949-261-1022 Fax. 949-260-3297	-																			
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CA. 126-11 0 0	Garden Grove																	C C	- Zn Acetate	O - AsNaO2	
Processor POR P	State, Zip: CA, 92841	2																E	- NaHSO4	Q - Na2SO3	
Protect Name EVA Name EVA Name EVA Name Sort Protect # 4022307 Protect # 402307 Protect # 402307 Protect # 402307 <td>Phone[.] 714-895-5494(Tel) 714-894-7501(Fax)</td> <td>PO #:</td> <td></td> <td></td> <td></td> <td>6</td> <td></td> <td>ļ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6</td> <td>- Amchlor</td> <td>S - H2SO4</td> <td></td>	Phone [.] 714-895-5494(Tel) 714-894-7501(Fax)	PO #:				6		ļ										6	- Amchlor	S - H2SO4	
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Comparison of the finance of the four control of the fo	Sample Point #1 1664 Composite (440-282280-6MS)	4/20/21	Pacific	MS	Water				x									1			
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maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Calscience. Possible Hazard Identification Image: Signed Chain of Custody attesting to said complicance to Eurofins Calscience. Possible Hazard Identification Image: Signed Chain of Custody attesting to said complicance to Eurofins Calscience. Unconfirmed Image: Signed Chain of Custody attesting to said complicance to Eurofins Calscience. Deliverable Requested I, III, III, IV, Other (specify) Primary Deliverable Rank. 2 Empty Kit Relinquished by: Date Image: Signed by: Image: Signed Chain of Custody attesting to said complicance to Eurofins Calscience. Relinquished by: Date/Time: Image: Signed Chain of Custody attesting to said complicance to Eurofins Calscience. Relinquished by: Date/Time: Image: Signed Chain of Custody attesting to said complicance to Eurofins Calscience. Relinquished by: Date/Time: Image: Signed Chain of Custody attesting to said complicance to Eurofins Calscience. Relinquished by: Date/Time: Image: Signed Chain of Custody Seals Intact: Date/Time: A Yes No <td>Sample Point #2 - Second Grab (440-282280-9)</td> <td>4/20/21</td> <td></td> <td>Ĺ</td> <td>Water</td> <td></td> <td>ļ</td> <td>×</td> <td></td> <td></td> <td>ŀ</td> <td></td> <td>ļ</td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td>·····</td> <td></td> <td></td>	Sample Point #2 - Second Grab (440-282280-9)	4/20/21		Ĺ	Water		ļ	×			ŀ		ļ					3	·····		
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Eurofins Calscience Irvine

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

Chain of Custody Record

Client Information (Sub Cont	ract Lab)	Sampler			Lab F Tom	°M: Iova, R	lossir	na D				ľ	Carrier T	racking	No(s)	1		COC No: 440-168104.	2		
Client Contact: Shipping/Receiving		Phone:			E-Ma Ross	il: sına To	omov	a@Ei	urofir	set.co	m		State of Califor					Page: Page 2 of 2			
Company [.]	3	•	i i i i i i i i i i i i i i i i i i i			Accred	litation	s Requ	uired (S	See note		i	ountor					Job #:			
Eurofins Calscience LLC		Due Date Reg	unotodi			State	Prog	ram -	Calif	ornia								440-282280-			
Address: 7440 Lincoln Way,	<u>.</u>	4/22/2021								Ana	lysis	Req	ueste	d				Preservation		Hexane	
City: Garden Grove		TAT Requeste	ed (days):															B - NaOH C - Zn Acetate	N - N O - A	None AsNaO2	
State, Zip ⁻	1																	D - Nitric Acid E - NaHSO4		Na2O4S Na2SO3	
CA, 92841 Phone:		PO#:																F - MeOH G - Amchior	R - N	Na2S2O3 12SO4	
714-895-5494(Tel) 714-894-7501(Fa) Email ¹	k)	WO #:				No)				:	ľ							H - Ascorbic Ac	id T-T	SP Dodecahydra	ate
						85 OF No)		2									818	J - DI Water K - EDTA	V - N	VICAA pH 4-5	
Project Name: EWA Waste Water Permit	8	Project #: 44023287	,			10 (V es o		in Only		ľ							otain	L-EDA		other (specify)	
Site		SSOW#:				dme;		1664A/1664A_P_W HEM									ofcoi	Other [.]			
				Sample	Aatrix	red S IS/MS		d ¥									ber	- 			
				Type (W≖water, S≖solid,	Filte	osite	166		i.							Num				
Sample Identification - Client ID (Lat	(D)	Sample Da	Sample ate Time	(C=comp, o	waste/oil, Issue, A=Air)	field Perfo	Composite	664									fotal	Specia	linetrur	ctions/Note:	
Sample identification - Client iD (La	710)	Cample De		Preservation	Addition Close States Name		1	-										Specie	1 msuuc	donshote.	
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Possible Hazard Identification	······································			····		Sa	ample	e Disj	oosa	(Afe	e may	be a	sesse	d if sa	ample	es are	retain	ed longer tha	an 1 mor	nth)	
Unconfirmed								Return	_				sposal	By La	b		Arch	ive For	M	lonths	
Deliverable Requested I, II, III, IV, Oth	er (specify)	Primary Del	iverable Rank.	2		Sp	pecial	l Instri	uctior	ns/QC	Requir	emen	ts								
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Relinquished by	~	Date/Time:	u u 15<	Con	ipany F	-	Rec	eived b	oy.						Date/	Time:	4/2		Com	npany 62	
Relinquished by:	<u> </u>	Date/Time:			npany	<u> </u>	Rec	eived t	ру.						Date	Time:				npany	
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Client: Carlsbad Energy Center

Login Number: 282280 List Number: 1 Creator: Lagunas, Jorge L

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 440-282280-1

List Source: Eurofins Irvine

Client: Carlsbad Energy Center

Login Number: 282280 List Number: 2 Creator: Ortiz-Luis, Michael

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5, 3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Sample compositing requested.
Residual Chlorine Checked.	N/A	

Job Number: 440-282280-1

List Source: Eurofins Calscience

List Creation: 04/21/21 04:18 PM

Chain of Custody Record

eurofins 🔅

Eurofins TestAmerica, Irvine 17461 Derian Avenue

Suite 100 Irvine, CA 92614-5843

phone 949.261.1022 fax 949.260.3299	Regu	latory Pro	ogram:	DW	NPDE	S		RCRA		20	Other:					T	estAm	erica L	aboratories, Inc. d/b/a Eurofins TestAmerica
	Project Man	ager: Anth	ony Kalis			1													COC No:
Client Contact	Email: anthor	y.kalis@nrg	g.com			Site	e Ce	ontact:	Antho	пу Ка	alis				4	/20/20	21		1 of1 COCs
Carlsbad Energy Center	Tel/Fax: 760	-427-2382	/ Fax #: No	one		Lat	C	ontact:	Rossi	na To	mov	a		Carrie	: Euro	ofins			TALS Project #:
4950 Avenida Encinas	A	nalysis Tu	rnaround	Time		П		11					TT					TT	Sampler: Anthony Kalis
Carlsbad, CA 92008		R DAYS	🖂 wo	RKING DA	YS			lai			1								For Lab Use Only:
Phone: (760) 427-2382	TAT	if different fro	m Below			11		Aan			12								Walk-in Client:
FAX - None		2 we	eeks			11		E.	Day		l N		11						Lab Sampling:
Project Name: EWA Quarterly Sampling	~	1 we	eek			11	î	- HP	0		N N	11				1.1			
Site: Carlsbad Energy Center		2 da	iys			î	111	ia /			E								Job / SDG No.:
PO#: Use Credit Card	4	1 da	y .	_	_	1-1	-	for	le-	1.1	ase		11					11	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix			Perform MS / MSD	200.7 - (MOD) California Admin Manual L; 245.1 - Hg	2540D - TSS; SM5210B_BOD Calc-BOD, 5 Day	2540C_Calcd-TDS	1664A - Oil & Grease (HEM Only)	Field pH							Sample Specific Notes:
Sample Point # Point # 1 - composite	4/20/2021	18:35	C	H20	8	N	Y	X-2	X - 4	X - 2	2					-	_		
Sample Point # 1 - First Grab	4/20/2021	7:15	G	H2O	3		111	1.1.	11.1		X	×		1					Composite the 4 Oil & Grease
Sample Point # 1 - Second Grab	4/20/2021	9:45	G	H2O	3					-	X	X							samples of each Sump into one
Sample Point # 1 - Third Grab	4/20/2021	13:45	G	H20	3			1.1.1			X	X							composite sample. Analyse the
Sample Point # 1 - Fourth Grab	4/20/2021	18:12	G	H2O	3			1			x	×	-						composite only.
Sample Point # 2 - composite	4/20/2021	18:42	С	H2O	4	N	Ν	X	X - 2	X				1.11					
Sample Point # 2 - First Grab	4/20/2021	7:30	G	H2O	3	Π		10.1			x	X							Composite the 4 Oil & Grease
Sample Point # 2 - Second Grab	4/20/2021	9:55	G	H2O	3			1111			x	x		111					samples of each Sump into one
Sample Point # 2 -Third Grab	4/20/2021	13:50	G	H20	3	Π		1.000			X	X				10.1			composite sample. Analyse the
Sample Point # 2 - Fourth Grab	4/20/2021	18:18	G	H2O	3		-	1			X	X							composite only.
		1			1 1			С н.	1	1					Sam	ple P	oint #	1/ Tim	e Sample Point # 2/ time
				1		Π		12.1					Field	pH 1	6.64	pH/2	1.4°C	@ 071	5 7.27 pH/21.8°C @ 0730
		1		1.0	1					1			Field	pH 2	6.63	pH/2	2.4°C	@ 094	5 7.29 pH/21.8°C @ 0955
	1							1					Field	pH 3	6.64	pH/2	2.7°C	@ 134	5 7.28 pH/22.6°C @ 1350
	1				1	Ħ							Field	pH 4	6.73	pH/2	2.0C	@ 181	2 7.28 pH/22.0°C @ 1818
Preservation Used: 1= Ice, 2= HCI: 3= H2SO4; 4	=HNO3; 5=NaOH	1: 6= Other	r	-	- 99	-	171	1/4	1	1	1/2					1	1		
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4 Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste the Comments Section if the lab is to dispose of the s Non-Hazard Flammable Skin In	? Please List an sample.	1000	- 1. Te	-	ample i				isposa	(4 1	1.00	-	e asse		fsamp	1	re ret	11	longer than 1 month)
				- 113		_					0.								
Custody Seals Intact: Yes No	Custody Sea	I No.:		1			_			Coo	ler Te	emp.	(°C): O	bs'd:		_	orr'd:_	_	Therm ID No.:
Relinquished by Anthony Kulii K.h.		<i>IRI</i>		Date/T	4 1	15		ceived	2	1	the	6		-	Comp	1	11.	- Va	
Relinquished by:	Company:			Date/T	ime:		Rec	ceived	by: U						Comp	any:			Date/Timé:
Relinquished by:	Company:			Date/T	ime:		Rec	ceived i	in Labo	ratory	y by:				Comp	any:			Date/Time:

nH Standards

Project: EWA Sampling

Meter: HACH HQ 40d

Date: 4/20/21

Start Time: 0635

63.37 °C

17.4%

0

		prid	lanuarus		
	MFR	Exp. Date	Lot No.	pН	Temperature
10 Buffer	Hach	1/2022	A-1005	10.01	70.4F.°C
7 Buffer	Hach	2/2022	A-0058	7.00	70.4.0F0C
4 Buffer	Hach	3/2024	A-0062	4.01	70.9°F 00
Slope = 58.55	mv/pH	mv/pH r	reading / 59 mv/pł		99 % slope
off set mv = 4-3	mv	1.			

Potable Water pH

Sampling and Analysis

0715	6.64	21.4	°C
0730	7.27	21-8	°C

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperature
Potable Water	0742	7.95	16.8 °C
pH 7.0	0745	7-00	21.4 °C

Comments:

End Time: @ 74 Sampling and Analyses by: Pedry Lopez Approved by: Anthony Kalis

7.99

Project: EWA Sampling

Meter: HACH HQ 40d

13.4

Date: 4/20/21

Start Time: 0920

°C

		phi	stanuarus		
	MFR	Exp. Date	Lot No.	рН	Temperature
10 Buffer	Hach	1/22	A-1005	10.01	22.5 °C
7 Buffer	Hach	2/22	A-0058	7.00	22.4 °C
4 Buffer	Hach	3/24	A-0062	4.01	22.8 °C
Slope = 58.49	mv/pH	mv/pH	reading / 59 mv/pH	= 9	9 % slope
off set mv = 3.9	mv				

nH Standards

Potable Water pH

Sampling and Analysis

Time	pH	Temperature
0945	6.63	22.4 00
0955	7.29	21.8 00
	Time 0945 0955	0945 663

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temperatu
Potable Water	1005	7.97	16.2 0
pH 7.0	1008	2.01	21.9 0

Comments:

End Time: 1008 Sampling and Analyses by Pedro, loger Approved by: Anthony Kalis

Project: EWA Sampling

Meter: HACH HQ 40d

18.7

Date: 4/20/20

Start Time: 1330

°C

		piri	otarradido			
	MFR	Exp. Date	Lot No.	pН	Tempera	ature
10 Buffer	Hach	1/20	A-1005	10.01	23.1	°C
7 Buffer	Hach	2/22	A-0058	7.00	23.0	°C
4 Buffer	Hach	3/24	A-0062	4.01	23.3	°C
Slope = 58.4	/8 mv/pH	mv/pH	reading / 59 mv/pH	=	99 % slo	ре
off set mv =	8 mv	1				

pH Standards

Potable Water pH

Sampling and Analysis

6.64	22.7 °C
7.28	22.6 °C

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temperature
Potable Water	1450	7.89	15.8 °C
pH 7.0	1453	6.99	21.0 00

Comments:

End Time: 1453 Sampling and Analyses by: / Approved by: Anthony Kalig

Project: EWA Sampling

Meter: HACH HQ 40d

Date: 4/20/21

Start Time: 1800

°C

16,1

 (\mathcal{A})

	pire	oturiaurao		
MFR	Exp. Date	Lot No.	рН	Temperature
Hach	1/22	A 1005	10.01	23.0 °C
Hach	2/22	40058	7.00	22.9 °C
Hach	3/24	A0062	4.01	23.0 °C
49 mv/pH	mv/pH	reading / 59 mv/pH	=	79 % slope
2 mv	1			
	Hach Hach Hach Hach	MFR Exp. Date Hach 1/22 Hach 2/22 Hach 3/24 Hach 3/24	MFRExp. DateLot No.Hach $1/22$ $A /DD5$ Hach $2/22$ $A DD58$ Hach $3/24$ $A DD62$ 49 mv/pHmv/pH reading / 59 mv/pH	Hach $1/22$ $A 1005$ 10.01 Hach $2/22$ $A 0058$ 7.00 Hach $3/24$ $A 0062$ 4.01

nH Standards

Potable Water pH

Sampling and Analysis

101 - P	2	
1814-06	12 6.73	22.0°C
1818 061	TEPL 7.28	
	1818 061	

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperature
Potable Water	1823	7.88	16-1 °C
pH 7.0	1825	7.00	22.2 00

Comments:

End Time: 1825 PEDRI Lope Sampling and Analyses by: Approved by: Anthony Kalis

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011 Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

RE: CARLSBAD ENERGY CENTER PROJECT, THIRD QUARTER OF 2021 WASTE WATER SAMPLES

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the results for the required samples for the Third Quarter of 2021 (3Q2021). This report is submitted in compliance with the table in condition 2 of permit number 2405. The samples were taken on August 23, 2021. The following table summarizes the results:

			Res	ults	
Constituent	Limit	Units	Sample Point	Sample Point 2	Notes
Arsenic, Total	1.5	mg/L	ND	ND	
Cadmium, Total	0.77	mg/L	ND	ND	
Chromium, Total	3.5	mg/L	ND	ND	
Copper, Total	11	mg/L	ND	0.069	
Lead, Total	5.1	mg/L	ND	ND	
Mercury, Total	0.27	mg/L	ND	ND	
Molybdenum, Total	4.1	mg/L	0.022	0.011	
Nickel, Total	15	mg/L	ND	ND	
Selenium, Total	2.5	mg/L	0.011	0.012	
Silver, Total	4.2	mg/L	ND	ND	
Zinc, Total	29	mg/L	0.25	0.63	
Oil and Grease (HEM)	400	mg/L	ND	0.95	
BOD	500	lb/day	0.145	0.052	Flow - SP1: 4701 gal, SP2: 2218 gal
BOD	N/A	mg/L	3.7	2.8	Sample Results for Calc
TDS	N/A	mg/L	61	770	
TSS	500	lb/day	0.118	0.070	Flow - SP1: 4701 gal, SP2: 2218 gal
TSS	N/A	mg/L	3.0	3.8	Sample Results for Calc
рН	5.5- 12		6.39	7.23	
рН	5.5- 12		6.61	7.09	
рН	5.5- 12		6.42	7.13	
рН	5.5- 12	-	6.32	7.17	

If you have any questions or comments, please do not hesitate to contact Ryan Goerl at (760) 573-3802.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached: TestAmerica Lab Report for Waste Water Samples – August 31, 2021 EWA Report Certification dated September 15, 2021

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORT CERTIFICATION

I. INDUSTRIAL USER INFORMATION: Carlsbad Energy Center LLC Industrial User Name 4950 Avenida Encinas Carlsbad 92008 760-710-3943 Facility Address Zip Code (Area Code) Phone City Carlsbad Energy Center LLC Owner Paul Mattesich Plant Manager IU Contact Title City of Carlsbad 2405 Member Agency Permit

II. CERTIFICATION STATEMENT:

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

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

FAUL MATTESUCH

PRESIDENT/VP/GENERAL MGR/CEO (Print and sign name)

DATE

CARCS BAD CITY OR COUNTY

SERVING THE CITY OF VISTA, CITY OF CARLSBAD, BUENA SANITATION DISTRICT, VALLECITOS WATER DISTRICT, LEUCADIA WASTEWATER DISTRICT AND CITY OF ENCINITAS

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

Laboratory Job ID: 440-288022-1 Client Project/Site: EWA Waste Water Permit

For:

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

Carlsbad Energy Center 4950 Avenida Encinas Carlsbad, California 92008

Attn: Anthony Kalis

Authorized for release by: 8/31/2021 5:08:26 PM

Rossina Tomova, Project Manager I (949)260-3276 Rossina.Tomova@Eurofinset.com

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

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

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

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Sample Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-288022-1	Sample Point #1 - Composite	Water	08/23/21 16:35	08/24/21 18:30
440-288022-2	Sample Point #1 - First Grab	Water	08/23/21 05:51	08/24/21 18:30
440-288022-3	Sample Point #1 - Second Grab	Water	08/23/21 09:26	08/24/21 18:30
440-288022-4	Sample Point #1 - Third Grab	Water	08/23/21 12:35	08/24/21 18:30
440-288022-5	Sample Point #1 - Fourth Grab	Water	08/23/21 15:42	08/24/21 18:30
440-288022-6	Sample Point #1 - 1664 Composite	Water	08/23/21 15:42	08/24/21 18:30
440-288022-7	Sample Point #2 - Compposite	Water	08/23/21 16:42	08/24/21 18:30
440-288022-8	Sample Point #2 - First Grab	Water	08/23/21 06:04	08/24/21 18:30
440-288022-9	Sample Point #2 - Second Grab	Water	08/23/21 09:36	08/24/21 18:30
440-288022-10	Sample Point #2 - Third Grab	Water	08/23/21 12:42	08/24/21 18:30
440-288022-11	Sample Point #2 - Fourth Grab	Water	08/23/21 15:48	08/24/21 18:30
440-288022-12	Sample Point #2 - 1664 Composite	Water	08/23/21 15:48	08/24/21 18:30

Job ID: 440-288022-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative 440-288022-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 8/24/2021 6:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.4° C and 0.8° C.

GC Semi VOA

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

Metals

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

Field Service / Mobile Lab

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.

Organic Prep

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

Client Sample ID: Sample Point #1 - Composite Date Collected: 08/23/21 16:35 Date Received: 08/24/21 18:30

Lab Sample ID: 440-288022-1

Matrix: Water

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.020	0.0089	mg/L		08/25/21 08:47	08/26/21 11:08	1
Cadmium	ND		0.0050	0.00094	mg/L		08/25/21 08:47	08/26/21 11:08	1
Chromium	ND		0.0050	0.0025	mg/L		08/25/21 08:47	08/26/21 11:08	1
Copper	ND		0.010	0.0050	mg/L		08/25/21 08:47	08/26/21 11:08	1
Lead	ND		0.0050	0.0038	mg/L		08/25/21 08:47	08/26/21 11:08	1
Molybdenum	0.022		0.020	0.0071	mg/L		08/25/21 08:47	08/26/21 11:08	1
Nickel	ND		0.010	0.0050	mg/L		08/25/21 08:47	08/26/21 11:08	1
Selenium	0.011	J	0.020	0.0087	mg/L		08/25/21 08:47	08/26/21 11:08	1
Silver	ND		0.010	0.0050	mg/L		08/25/21 08:47	08/26/21 11:08	1
Zinc	0.25		0.020	0.012	mg/L		08/25/21 08:47	08/26/21 11:08	1
Method: 245.1 - Mercury (CV	AA)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		08/31/21 10:13	08/31/21 14:45	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	61		10	5.0	mg/L			08/26/21 09:10	1
Total Suspended Solids	3.0		1.0	0.50	mg/L			08/24/21 20:50	1
	Rosult	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte									
Biochemical Oxygen Demand lient Sample ID: Sample ate Collected: 08/23/21 05:51	3.7 e Point #1 - I		2.0	2.0	mg/L	La	ib Sample	08/25/21 15:52	8022-2
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30	3.7 e Point #1 - l		2.0	2.0	mg/L	La	ıb Sample	ID: 440-288	8022-2
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie	3.7 e Point #1		2.0	2.0		La	b Sample Prepared	ID: 440-288	8022-2 : Water
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie Analyte	3.7 e Point #1	- First Gra	<u>2.0</u>					ID: 440-288 Matrix	022-2 Water
Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie Analyte	3.7 e Point #1	- First Gra	<u>2.0</u>		Unit			ID: 440-288 Matrix Analyzed	022-2 Water
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie Analyte Field pH Field Temperature	3.7 e Point #1	- First Gra	<u>2.0</u>		Unit SU			ID: 440-288 Matrix Analyzed 08/23/21 05:51	3022-2 : Water <u>Dil Fac</u> 1
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie Analyte Field pH	3.7 e Point #1	- First Gra	<u>2.0</u>		Unit SU Celsius			ID: 440-288 Matrix Analyzed 08/23/21 05:51	Dil Fac
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie Analyte Field pH Field Temperature Method: Composite - Sample Analyte	3.7 e Point #1	Qualifier	2.0 ab	NONE	Unit SU Celsius	<u>D</u>	Prepared	ID: 440-288 Matrix Analyzed 08/23/21 05:51 08/23/21 05:51	Dil Fac
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 09:26	3.7 e Point #1	Qualifier	2.0 ab 	NONE	Unit SU Celsius Unit	<u>D</u>	Prepared Prepared	ID: 440-288 Matrix <u>Analyzed</u> 08/23/21 05:51 08/23/21 05:51 <u>Analyzed</u> 08/25/21 14:23 ID: 440-288	022-2 Water Dil Fac
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 09:26 Date Received: 08/24/21 18:30	3.7 e Point #1	Qualifier	2.0 ab 	NONE	Unit SU Celsius Unit	<u>D</u>	Prepared Prepared	ID: 440-288 Matrix <u>Analyzed</u> 08/23/21 05:51 08/23/21 05:51 <u>Analyzed</u> 08/25/21 14:23 ID: 440-288	022-2 Water Dil Fac
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie Analyte Field pH Field Temperature Method: Composite - Sample	3.7 e Point #1	Qualifier	2.0 ab 	NONE	Unit SU Celsius Unit NONE	<u>D</u>	Prepared Prepared	ID: 440-288 Matrix <u>Analyzed</u> 08/23/21 05:51 08/23/21 05:51 <u>Analyzed</u> 08/25/21 14:23 ID: 440-288	Dil Fac
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 09:20 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie Analyte	3.7 e Point #1	- First Gra Qualifier Qualifier - Second	2.0 ab	NONE	Unit SU Celsius Unit NONE	D D 	Prepared Prepared	ID: 440-288 Matrix <u>Analyzed</u> 08/23/21 05:51 08/23/21 05:51 <u>Analyzed</u> 08/25/21 14:23 ID: 440-288 Matrix	Dil Fac
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 09:26 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel	3.7 e Point #1	- First Gra Qualifier Qualifier - Second	2.0 ab	NONE	Unit SU Celsius Unit NONE	D D 	Prepared Prepared	ID: 440-288 Matrix <u>Analyzed</u> 08/23/21 05:51 08/23/21 05:51 <u>Analyzed</u> 08/25/21 14:23 ID: 440-288 Matrix <u>Analyzed</u>	0022-2 : Water
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Field Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 09:26 Date Received: 08/24/21 18:30 Method: Field Sampling - Field Analyte Field pH	3.7 e Point #1 eld Sampling Result 6.39 29.20 e Compositin Result yes e Point #1 6 6 eld Sampling Result 6.61 28.40	- First Gra Qualifier Qualifier - Second	2.0 ab	NONE	Unit SU Celsius Unit NONE	D D 	Prepared Prepared	ID: 440-288 Matrix <u>Analyzed</u> 08/23/21 05:51 08/23/21 05:51 <u>Analyzed</u> 08/25/21 14:23 ID: 440-288 Matrix <u>Analyzed</u> 08/23/21 09:26	0022-2 : Water
Biochemical Oxygen Demand Client Sample ID: Sample Date Collected: 08/23/21 05:51 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 09:26 Date Received: 08/23/21 09:26 Date Received: 08/24/21 18:30 Method: Field Sampling - Fie Analyte Field pH Field Temperature	a 3.7 a Point #1 a Composition a	- First Gra Qualifier Qualifier - Second	2.0 ab	NONE	Unit SU Celsius Unit NONE	D D 	Prepared Prepared	ID: 440-288 Matrix <u>Analyzed</u> 08/23/21 05:51 08/23/21 05:51 <u>Analyzed</u> 08/25/21 14:23 ID: 440-288 Matrix <u>Analyzed</u> 08/23/21 09:26	BO22-2 : Water Dil Fac

Client Sample Results

Client: Carlsbad Energy Center Project/Site: EWA Waste Water	Permit		-					Job ID: 440-28	8022-1
Client Sample ID: Sample Date Collected: 08/23/21 12:35 Date Received: 08/24/21 18:30		Third G	rab			La	b Sample	ID: 440-288 Matrix	8022-4 : Water
Method: Field Sampling - Fie		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.42				SU		Tiepureu	08/23/21 12:35	1
Field Temperature	28.80				Celsius			08/23/21 12:35	1
Method: Composite - Sample	Compositin	g							
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Composited	yes				NONE			08/25/21 14:23	1
Client Sample ID: Sample	Point #1	- Fourth (Grab			La	b Sample	ID: 440-288	8022-5
Date Collected: 08/23/21 15:42 Date Received: 08/24/21 18:30								Matrix	: Water
Method: Field Sampling - Fie	Id Sampling								
Analyte	Result	Qualifier	NONE	NONE		D	Prepared	Analyzed	Dil Fac
Field pH	6.32				SU			08/23/21 15:42	1
Field Temperature	28.90				Celsius			08/23/21 15:42	1
Method: Composite - Sample	Compositin	g							
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Composited	yes				NONE			08/25/21 14:23	1
Client Sample ID: Sample Date Collected: 08/23/21 15:42 Date Received: 08/24/21 18:30		- 1664 Co	omposite			La	b Sample	ID: 440-288 Matrix	8022-6 : Water
General Chemistry	Desult	Ovellfier			11	-	D ucus cure d	A see by see al	
Analyte HEM: Oil and Grease	Result	Qualifier			Unit mg/L	D	Prepared	Analyzed 08/27/21 16:35	Dil Fac
	ND		1.0	0.55	mg/∟		00/20/21 10.15	08/27/21 10.35	
Client Sample ID: Sample Date Collected: 08/23/21 16:42 Date Received: 08/24/21 18:30		- Comppo	osite			La	b Sample	ID: 440-288 Matrix	8022-7 : Water
Method: 200.7 Rev 4.4 - Meta	ls (ICP) - Tot	al Recover	able						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.020	0.0089	mg/L		08/25/21 08:47	08/26/21 11:15	1
Cadmium	ND		0.0050	0.00094	-		08/25/21 08:47	08/26/21 11:15	1
Chromium	ND		0.0050	0.0025	mg/L		08/25/21 08:47	08/26/21 11:15	1
Copper	0.069		0.010	0.0050	-			08/26/21 11:15	1
Lead	ND		0.0050	0.0038	-			08/26/21 11:15	1
Molybdenum	0.011	J	0.020	0.0071	.			08/26/21 11:15	1
Nickel	ND		0.010	0.0050	-			08/26/21 11:15	1
Selenium	0.012	J	0.020	0.0087	-			08/26/21 11:15	1
Silver	ND		0.010	0.0050				08/26/21 11:15	1
Zinc	0.063		0.020	0.012	mg/L		08/25/21 08:47	08/26/21 11:15	1
Method: 245.1 - Mercury (CV/	4A)								

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Mercury	ND		0.00020	0.00010	mg/L		08/31/21 10:13	08/31/21 14:52	1
ſ										
	General Chemistry									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total Dissolved Solids	770		10	5.0	mg/L			08/26/21 09:10	1

Client Sample Results

							Job ID: 440-28	8022-1
Client: Carlsbad Energy Center Project/Site: EWA Waste Water F	Permit							
Client Sample ID: Sample Date Collected: 08/23/21 16:42 Date Received: 08/24/21 18:30	Point #2 - Co	mpposite			La	b Sample	D: 440-288 Matrix	8022-7 : Water
General Chemistry (Continue Analyte	<mark>d)</mark> Result Qual	lifier RL	MDI	Unit	D	Prepared	Analyzod	Dil Fac
Total Suspended Solids	<u>3.8</u>			mg/L		Flepaleu	Analyzed 08/24/21 20:50	1
Analyte	Result Qual	lifier RL		Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.8	2.0		mg/L			08/25/21 16:04	1
Client Sample ID: Sample Date Collected: 08/23/21 06:04 Date Received: 08/24/21 18:30	Point #2 - Fir	st Grab			La	b Sample	D: 440-288 Matrix	
Method: Field Sampling - Fiel					_			
Analyte Field pH	Result Qual	lifier NONE	NONE	Unit SU	D	Prepared	- Analyzed 08/23/21 06:04	Dil Fac
Field Temperature	7.23 29.20			SU Celsius			08/23/21 06:04	1
Method: Composite - Sample	• •			11-14	_	D ecent	A	
Analyte Composited	Result Qual	lifier NONE	NONE	NONE	D	Prepared	Analyzed 08/25/21 17:47	Dil Fac
_composited Client Sample ID: Sample	yes			NONE			D: 440-288	
Date Received: 08/24/21 18:30								
Method: Field Sampling - Fiel	d Sampling							
Method: Field Sampling - Fiel Analyte	Result Qual	lifier NONE	NONE		D	Prepared	Analyzed	
Method: Field Sampling - Fiel Analyte Field pH	Result Qual	lifier NONE	NONE	SU	<u>D</u>	Prepared	08/23/21 09:36	
Method: Field Sampling - Fiel Analyte Field pH Field Temperature	Result Qual 7.09 30.00	lifier NONE	NONE		<u>D</u>	Prepared		
Method: Field Sampling - Fiel Analyte Field pH	Result Qual 7.09 30.00			SU Celsius Unit	<u>D</u> .	Prepared	08/23/21 09:36	1
Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample	Result Qual 7.09 30.00 Compositing			SU Celsius		·	08/23/21 09:36 08/23/21 09:36	1
Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte	ResultQual7.0930.00CompositingResultQualyesQual	lifier NONE		SU Celsius Unit	<u>D</u>	Prepared	08/23/21 09:36 08/23/21 09:36 Analyzed 08/25/21 17:47 D: 440-2880	1 1 Dil Fac 1)22-10
Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 12:42 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel	Result 7.09 30.00Qual 30.00Compositing Result yesQual Qual Qual Point #2 - Thd Sampling	ifier NONE	NONE	SU Celsius Unit NONE	D Lab	Prepared Sample	08/23/21 09:36 08/23/21 09:36 Analyzed 08/25/21 17:47 ID: 440-2880 Matrix	1 1 1 1 1 1 1 22-10 : Water
Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 12:42 Date Received: 08/24/21 18:30	ResultQual7.0930.00Compositing Result yesQualPoint #2 - Th	ifier NONE		SU Celsius Unit NONE	<u>D</u>	Prepared	08/23/21 09:36 08/23/21 09:36 Analyzed 08/25/21 17:47 D: 440-2880	1 1 2011 Fac 1 1 222-10 : Water
Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 12:42 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel Analyte	Result Qual 7.09 30.00 Compositing Qual Result Qual yes Qual Point #2 - Th d Sampling Result Qual	ifier NONE	NONE	SU Celsius Unit NONE	D Lab	Prepared Sample	08/23/21 09:36 08/23/21 09:36 Analyzed 08/25/21 17:47 ID: 440-2880 Matrix Analyzed	1 1 2011 Fac 1 2022-10 : Water Dil Fac
Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 12:42 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample	ResultQual7.0930.00Compositing Result yesQualPoint #2 - Thd Sampling Result 7.13 29.80QualCompositing	lifier NONE ird Grab		SU Celsius Unit NONE	D Lab	Prepared Sample Prepared	Analyzed 08/23/21 09:36 08/23/21 09:36 Analyzed 08/25/21 17:47 ID: 440-2880 Matrix Analyzed 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42	1 1 2011 Fac 1 2022-10 : Water 1 1 1
Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 12:42 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel Analyte Field pH Field PH Field Temperature	ResultQual7.0930.00Compositing Result yesQualPoint #2 - Thd Sampling Result 7.13 29.80Qual	lifier NONE ird Grab	NONE	SU Celsius Unit NONE	D Lab	Prepared Sample	08/23/21 09:36 08/23/21 09:36 Analyzed 08/25/21 17:47 ID: 440-2880 Matrix Analyzed 08/23/21 12:42	1 1 2011 Faco 1 222-10 : Water 1 1 1 1 1 1 1 1 1 1 1
Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 12:42 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 15:48	Result Qual 7.09 30.00 Compositing Qual Result Qual yes Qual Point #2 - Th d Sampling Qual Result Qual 7.13 Qual 29.80 Qual Compositing Qual Result Qual yes Qual	lifier NONE ird Grab		SU Celsius Unit NONE Unit SU Celsius Unit	D Lab	Prepared Sample Prepared Prepared	Analyzed 08/23/21 09:36 08/23/21 09:36 Analyzed 08/25/21 17:47 ID: 440-2880 Matrix Analyzed 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42 Analyzed 08/25/21 17:47 ID: 440-2880	1 1 22-10 22-10 : Water 1 1 1 1 1 22-11
Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 12:42 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 15:48 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel	Result Qual 7.09 30.00 Compositing Qual Result Qual yes Qual Point #2 - Th d Sampling Qual Result Qual 7.13 Qual 29.80 Qual Compositing Qual Result Qual yes Qual Point #2 - Fo Gampling d Sampling Qual	lifier NONE ird Grab lifier NONE lifier NONE urth Grab		SU Celsius NONE Unit SU Celsius Unit NONE	D D Lab	Prepared Sample Prepared Prepared Sample	Analyzed 08/23/21 09:36 08/23/21 09:36 Analyzed 08/25/21 17:47 ID: 440-2880 Matrix Analyzed 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42 Malyzed 08/23/21 12:42 08/23/21 12:42 Malyzed 08/23/21 12:42	Dil Fac 1 22-10 : Water Dil Fac 1 1 Dil Fac 1 22-11 : Water
Method: Field Sampling - Fiel Analyte Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 12:42 Date Received: 08/24/21 18:30 Method: Field Sampling - Fiel Analyte Field pH Field pH Field Temperature Method: Composite - Sample Analyte Composited Client Sample ID: Sample Date Collected: 08/23/21 15:48 Date Received: 08/24/21 18:30	Result Qual 7.09 30.00 Compositing Qual yes Qual yes Qual Point #2 - Th d Sampling Qual 7.13 Qual 29.80 Qual Compositing Qual Result Qual 7.13 Qual 29.80 Qual Compositing Qual yes Qual Point #2 - Fo	lifier NONE ird Grab lifier NONE lifier NONE urth Grab		SU Celsius NONE Unit SU Celsius Unit NONE	D Lab	Prepared Sample Prepared Prepared	Analyzed 08/23/21 09:36 08/23/21 09:36 Analyzed 08/25/21 17:47 ID: 440-2880 Matrix Analyzed 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42 08/23/21 12:42 Analyzed 08/25/21 17:47 ID: 440-2880	1 1 2011 Fac 1 2022-10 : Water 1 1 1 1 1 1 1 2011 Fac 1 1 2022-11

Client Sample Results

Client: Carlsbad Energy Center
Project/Site: EWA Waste Water Permit

Job ID: 440-288022-1

Client Sample ID: Samp Date Collected: 08/23/21 15:4 Date Received: 08/24/21 18:3	48	urth Grab				Lat	o Sample II	D: 440-2880 Matrix	022-11 : Water
	le Compositing								
Analyte	Result Qua	ifier N	ONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Composited	yes				NONE			08/25/21 17:47	1
Client Sample ID: Samp	le Point #2 - 16	64 Compo	site			Lab	Sample II	D: 440-2880)22-12
Date Collected: 08/23/21 15:4	48							Matrix	: Water
Date Received: 08/24/21 18:3	80								
General Chemistry									
Analyte	Result Qua	ifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	0.95 J		1.1	0.54	mg/L		08/26/21 18:15	08/27/21 16:35	1

Method Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Job ID: 440-288022-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL IRV
245.1	Mercury (CVAA)	EPA	TAL IRV
1664A	HEM and SGT-HEM	1664A	ECL 1
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL IRV
SM5210B	BOD, 5 Day	SM	TAL IRV
-ield Sampling	Field Sampling	EPA	TAL IRV
Composite	Sample Compositing	None	ECL 1
1664A	HEM and SGT-HEM (Aqueous)	1664A	ECL 1
200.2	Preparation, Total Recoverable Metals	EPA	TAL IRV
245.1	Preparation, Mercury	EPA	TAL IRV

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022 5 6 7 Batch

Туре

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Client Sample ID: Sample Point #1 - Composite Date Collected: 08/23/21 16:35 Date Received: 08/24/21 18:30

Batch

200.2

245.1

245.1

SM 2540C

SM 2540D

SM5210B

Method

200.7 Rev 4.4

Run

La	b Sample ID	: 440-288022-1
	-	Matrix: Water
h	Prenared	

Job ID: 440-288022-1

Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab	5
1	25 mL	25 mL	655298 655469	08/25/21 08:47 08/26/21 11:08		TAL IRV TAL IRV	6
1	20 mL	30 mL	655753 655799	08/31/21 10:13 08/31/21 14:45		TAL IRV TAL IRV	7
1 1	100 mL 1000 mL	100 mL 1000 mL	655414 655273	08/26/21 09:10 08/24/21 20:50		TAL IRV TAL IRV	8
1	1000 ME	1000 mL	655690	08/25/21 15:52		TAL IRV	9
Grab			La	b Sample II	D: 440-	288022-2	4.0

Client Sample ID: Sample Point #1 - First Grab Date Collected: 08/23/21 05:51

Date Received: 08/24/21 18:30

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total Recoverable

Total Recoverable

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	Field Sampling		1			655376	08/23/21 05:51	P1R	TAL IRV	1
Total/NA	Analysis	Composite		1			174315	08/25/21 14:23	C4LT	ECL 1	

Client Sample ID: Sample Point #1 - Second Grab Date Collected: 08/23/21 09:26

Date Received: 08/24/21 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			655376	08/23/21 09:26	P1R	TAL IRV
Total/NA	Analysis	Composite		1			174315	08/25/21 14:23	C4LT	ECL 1

Client Sample ID: Sample Point #1 - Third Grab Date Collected: 08/23/21 12:35 Date Received: 08/24/21 18:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			655376	08/23/21 12:35	P1R	TAL IRV
Total/NA	Analysis	Composite		1			174315	08/25/21 14:23	C4LT	ECL 1

Client Sample ID: Sample Point #1 - Fourth Grab Date Collected: 08/23/21 15:42 Date Received: 08/24/21 18:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			655376	08/23/21 15:42	P1R	TAL IRV
Total/NA	Analysis	Composite		1			174315	08/25/21 14:23	C4LT	ECL 1

Lab Sample ID: 440-288022-3 Matrix: Water

Lab Sample ID: 440-288022-4

Lab Sample ID: 440-288022-5

Matrix: Water

Matrix: Water

Client Sample ID: Sample Point #1 - 1664 Composite Date Collected: 08/23/21 15:42 Date Received: 08/24/21 18:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			965 mL	1000 mL	174720	08/26/21 18:15	UWEZ	ECL 1
Total/NA	Analysis	1664A		1			174978	08/27/21 16:35	F7UI	ECL 1

Client Sample ID: Sample Point #2 - Composite Date Collected: 08/23/21 16:42 Date Received: 08/24/21 18:30

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.2			25 mL	25 mL	655298	08/25/21 08:47	LZY7	TAL IRV
Total Recoverable	Analysis	200.7 Rev 4.4		1			655469	08/26/21 11:15	K1UV	TAL IRV
Total/NA	Prep	245.1			20 mL	30 mL	655753	08/31/21 10:13	MA6V	TAL IRV
Total/NA	Analysis	245.1		1			655799	08/31/21 14:52	MA6V	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	655414	08/26/21 09:10	VY3D	TAL IRV
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	655273	08/24/21 20:50	ZL7L	TAL IRV
Total/NA	Analysis	SM5210B		1			655690	08/25/21 16:04	VY3D	TAL IRV

Client Sample ID: Sample Point #2 - First Grab Date Collected: 08/23/21 06:04 Date Received: 08/24/21 18:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			655376	08/23/21 06:04	P1R	TAL IRV
Total/NA	Analysis	Composite		1			174315	08/25/21 17:47	C4LT	ECL 1

Client Sample ID: Sample Point #2 - Second Grab Date Collected: 08/23/21 09:36 Date Received: 08/24/21 18:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			655376	08/23/21 09:36	P1R	TAL IRV
Total/NA	Analysis	Composite		1			174315	08/25/21 17:47	C4LT	ECL 1

Client Sample ID: Sample Point #2 - Third Grab Date Collected: 08/23/21 12:42 Date Received: 08/24/21 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			655376	08/23/21 12:42	P1R	TAL IRV
Total/NA	Analysis	Composite		1			174315	08/25/21 17:47	C4LT	ECL 1

Job ID: 440-288022-1

Lab Sample ID: 440-288022-6 Matrix: Water

Lab Sample ID: 440-288022-7

Matrix: Water

Lab Sample ID: 440-288022-8

Lab Sample ID: 440-288022-9

Matrix: Water

Sample ID.	440-200022-0
	Matrix: Water

Matrix: Water

Lab Sample ID: 440-288022-10

Client Sample ID: Sample Point #2 - Fourth Grab Date Collected: 08/23/21 15:48 Date Received: 08/24/21 18:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			655376	08/23/21 15:48	P1R	TAL IRV
Total/NA	Analysis	Composite		1			174315	08/25/21 17:47	C4LT	ECL 1

Client Sample ID: Sample Point #2 - 1664 Composite Date Collected: 08/23/21 15:48 Date Received: 08/24/21 18:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			949 mL	1000 mL	174720	08/26/21 18:15	UWEZ	ECL 1
Total/NA	Analysis	1664A		1			174978	08/27/21 16:35	F7UI	ECL 1

Laboratory References:

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

Matrix: Water

Lab Sample ID: 440-288022-11

Lab Sample ID: 440-288022-12

2 3 4 5 6 7 8 9 10 11 12

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 440-655298/1-A Matrix: Water Analysis Batch: 655469

MB	МВ							
Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic ND		0.020	0.0089	mg/L		08/25/21 08:47	08/26/21 11:03	1
Cadmium ND		0.0050	0.00094	mg/L		08/25/21 08:47	08/26/21 11:03	1
Chromium ND		0.0050	0.0025	mg/L		08/25/21 08:47	08/26/21 11:03	1
Copper ND		0.010	0.0050	mg/L		08/25/21 08:47	08/26/21 11:03	1
Lead ND		0.0050	0.0038	mg/L		08/25/21 08:47	08/26/21 11:03	1
Molybdenum ND		0.020	0.0071	mg/L		08/25/21 08:47	08/26/21 11:03	1
Nickel ND		0.010	0.0050	mg/L		08/25/21 08:47	08/26/21 11:03	1
Selenium ND		0.020	0.0087	mg/L		08/25/21 08:47	08/26/21 11:03	1
Silver ND		0.010	0.0050	mg/L		08/25/21 08:47	08/26/21 11:03	1
Zinc ND		0.020	0.012	mg/L		08/25/21 08:47	08/26/21 11:03	1

Lab Sample ID: LCS 440-655298/2-A Matrix: Water Analysis Batch: 655469

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 655298

Client Sample ID: Sample Point #1 - Composite

Prep Type: Total Recoverable

							TTOP Batom 000100
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	0.500	0.496		mg/L		99	85 - 115
Cadmium	0.500	0.486		mg/L		97	85 - 115
Chromium	0.500	0.478		mg/L		96	85 - 115
Copper	0.500	0.490		mg/L		98	85 - 115
Lead	0.500	0.497		mg/L		99	85 - 115
Molybdenum	0.500	0.471		mg/L		94	85 - 115
Nickel	0.500	0.497		mg/L		99	85 - 115
Selenium	0.500	0.489		mg/L		98	85 - 115
Silver	0.250	0.242		mg/L		97	85 - 115
Zinc	0.500	0.491		mg/L		98	85 - 115

Lab Sample ID: 440-288022-1 MS Matrix: Water

Analysis Batch: 655469 Prep Batch: 655298 Spike MS MS Sample Sample %Rec. Analyte **Result Qualifier** Added **Result Qualifier** Unit D %Rec Limits 70 - 130 Arsenic ND 0.500 0.503 mg/L 101 Cadmium ND 0.500 0.489 mg/L 98 70 - 130 Chromium ND 0.500 0.484 mg/L 97 70 - 130 ND 0.500 0.514 103 70-130 Copper mg/L Lead ND 0.500 0.502 mg/L 100 70 - 130 0.022 0.500 0.516 mg/L 99 70 - 130 Molybdenum Nickel ND 0.500 0.506 mg/L 101 70 - 130 0.500 Selenium 0.011 J 0.498 mg/L 97 70 - 130 Silver ND 0.250 0.248 mg/L 99 70 - 130 Zinc 0.25 0.500 0.756 mg/L 101 70 - 130

Lab Sample ID: 440-288022-1 MSD **Client Sample ID: Sample Point #1 - Composite Matrix: Water** Prep Type: Total Recoverable Analysis Batch: 655469 Prep Batch: 655298 MSD MSD Sample Sample Spike %Rec. RPD RPD **Result Qualifier** Added Result Qualifier Limits Limit Analyte Unit D %Rec ND 0.500 0.509 Arsenic 102 70 - 130 20 mg/L 1

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Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 655298

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

Lab Sample ID: 440-28802 Matrix: Water Analysis Batch: 655469	2-1 MSD			Client	t Sample			Point #1 - Compos pe: Total Recovera Prep Batch: 655		erable	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	ND		0.500	0.490		mg/L		98	70 - 130	0	20
Chromium	ND		0.500	0.485		mg/L		97	70 - 130	0	20
Copper	ND		0.500	0.515		mg/L		103	70 - 130	0	20
Lead	ND		0.500	0.502		mg/L		100	70 - 130	0	20
Molybdenum	0.022		0.500	0.513		mg/L		98	70 - 130	1	20
Nickel	ND		0.500	0.507		mg/L		101	70 - 130	0	20
Selenium	0.011	J	0.500	0.503		mg/L		99	70 - 130	1	20
Silver	ND		0.250	0.248		mg/L		99	70 - 130	0	20
Zinc	0.25		0.500	0.751		mg/L		100	70 - 130	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 440-655 Matrix: Water Analysis Batch: 655799	5753/1-A										Clie	ent Sam	ple ID: M Prep Ty Prep B	pe: To	tal/NA
Analysis Batch. 055755		мв	MR										гіер Б		55755
Analyte			Qualifier		RL		MDL	Unit		D	P	repared	Analy	zed	Dil Fac
Mercury		ND		0.00				mg/L		_		1/21 10:1			1
_ Lab Sample ID: LCS 440-65	5752/2 A								CII	ont	Sar		: Lab Co	atrol S	amplo
Matrix: Water	0100/2-A									em	Jai		Prep Ty		
Analysis Batch: 655799													Prep B	-	
				Spike		LCS	LCS	;					%Rec.		
Analyte				Added	I	Result	Qua	lifier	Unit		D	%Rec	Limits		
Mercury				0.00600	0.	.00616			mg/L			103	85 - 115		
_ Lab Sample ID: 440-288022	-1 MS						C	Client	Samp	ole I	D: 5	Sample	Point #1	- Com	posite
Matrix: Water													Prep Ty	pe: To	tal/NA
Analysis Batch: 655799													Prep B	atch: 6	55753
	Sample	-		Spike		MS	MS						%Rec.		
Analyte	Result	Qual	ifier	Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Mercury	ND			0.00600	0.	.00592			mg/L			99	75 - 125		
	-1 MSD						C	Client	Samp	ole I	D: 8	Sample	Point #1	- Com	posite
Matrix: Water												- C.	Prep Ty		•
Analysis Batch: 655799													Prep B	atch: 6	55753
-	Sample	Sam	ple	Spike		MSD	MSE)					%Rec.		RPD
Analyte	Result	Quali	ifier	Added	I	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
Mercury	ND			0.00600	0.	.00620			mg/L			103	75 - 125	5	20
Method: 1664A - HEM a	nd SGT-H	IEM													
_ Lab Sample ID: MB 570-174	720/1-A										Clie	ent Sam	ple ID: N	lethod	Blank
Matrix: Water													Prep Ty		
Analysis Batch: 174978													Prep B	atch: 1	74720
		MB	MB										-		
Analyte	Re	sult	Qualifier		RL	ľ	MDL	Unit		D	P	repared	Analy	zed	Dil Fac
						-									

1

Job ID: 440-288022-1

Job ID: 440-288022-1

QC Sample Results Project/Site: EWA Waste Water Permit Method: 1664A - HEM and SGT-HEM (Continued) Lab Sample ID: LCS 570-174720/2-A **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Analysis Batch: 174978 Prep Batch: 174720 Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec HEM: Oil and Grease 40.0 38.20 mg/L 95 78 - 114 Lab Sample ID: LCSD 570-174720/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA Analysis Batch: 174978 **Prep Batch: 174720** Spike LCSD LCSD %Rec. Added Result Qualifier D %Rec Limits Analyte Unit 40.0 39.70 78 - 114 HEM: Oil and Grease mg/L 99 Lab Sample ID: 440-288022-6 MS Client Sample ID: Sample Point #1 - 1664 Composite Matrix: Water Prep Type: Total/NA Analysis Batch: 174978 Prep Batch: 174720 Sample Sample Spike MS MS %Rec. **Result Qualifier** Added Result Qualifier Limits Analyte Unit D %Rec HEM: Oil and Grease ND 40.9 38.69 95 78 - 114 mg/L Lab Sample ID: 440-288022-6 MSD Client Sample ID: Sample Point #1 - 1664 Composite **Matrix: Water** Prep Type: Total/NA Analysis Batch: 174978 Prep Batch: 174720 Spike MSD MSD %Rec. Sample Sample Analyte **Result Qualifier** Added **Result Qualifier** Unit %Rec Limits D ND 39.58 HEM: Oil and Grease 42.1 mg/L 94 78 - 114 Method: SM 2540C - Solids, Total Dissolved (TDS) Lab Sample ID: MB 440-655414/1 **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA Analysis Batch: 655414 MB MB Analyte **Result Qualifier** RL MDL Unit Prepared Analyzed D Total Dissolved Solids ND 10 5.0 mg/L 08/26/21 09:10 Lab Sample ID: LCS 440-655414/2 **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Analysis Batch: 655414 LCS LCS Spike %Rec. Added **Result Qualifier** Analyte Unit D %Rec Limits Total Dissolved Solids 1000 980 98 90 - 110 mg/L Lab Sample ID: 440-287984-G-1 DU **Client Sample ID: Duplicate** Matrix: Water Prep Type: Total/NA Analysis Batch: 655414 DU DU Sample Sample Analvte **Result Qualifier Result Qualifier** Unit D Total Dissolved Solids 820 807 mg/L

RPD

Limit

RPD

Limit

Dil Fac

RPD

Limit

5

RPD

2

18

RPD

2

18

RPD

4

QC Sample Results

Job ID: 440-288022-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued) Client Sample ID: Sample Point #1 - Composite Lab Sample ID: 440-288022-1 DU Matrix: Water Prep Type: Total/NA Analysis Batch: 655414 RPD Sample Sample DU DU **Result Qualifier** Result Qualifier RPD Limit Analyte Unit D Total Dissolved Solids 61 63.0 mg/L 3 5 Method: SM 2540D - Solids, Total Suspended (TSS) Lab Sample ID: MB 440-655273/1 **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA Analysis Batch: 655273 MB MB **Result Qualifier** RL MDL Unit Analyzed Dil Fac Analyte D Prepared 1.0 0.50 mg/L ND 08/24/21 20:50 **Total Suspended Solids** 1 Lab Sample ID: LCS 440-655273/2 **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Analysis Batch: 655273 LCS LCS %Rec. Spike Added Result Qualifier Limits Analyte Unit п %Rec Total Suspended Solids 1000 1020 mg/L 102 85 - 115 Lab Sample ID: 440-288022-1 DU **Client Sample ID: Sample Point #1 - Composite Matrix: Water** Prep Type: Total/NA Analysis Batch: 655273 DU DU Sample Sample RPD RPD Analyte **Result Qualifier Result Qualifier** Unit D Limit Total Suspended Solids 3.0 3.10 mg/L 3 5 Method: SM5210B - BOD, 5 Day Lab Sample ID: USB 440-655690/2 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Analysis Batch: 655690 USB USB Analyte **Result Qualifier** RL **RL Unit** D Prepared Analyzed Dil Fac **Biochemical Oxygen Demand** ND 2.0 2.0 mg/L 08/25/21 15:32 Lab Sample ID: LCS 440-655690/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 655690 Spike LCS LCS %Rec Added **Result Qualifier** %Rec Limits Analyte Unit D Biochemical Oxygen Demand 199 192 mg/L 97 85 - 115 Lab Sample ID: 440-288022-1 DU Client Sample ID: Sample Point #1 - Composite **Matrix: Water** Prep Type: Total/NA Analysis Batch: 655690 DU DU RPD Sample Sample **Result Qualifier Result Qualifier** Analyte Unit D RPD Limit Biochemical Oxygen Demand 37 3.89 5 20 mg/L

Client Sample ID

Lab Control Sample

Method Blank

Sample Point #1 - Composite

Sample Point #1 - Composite

Sample Point #1 - Composite

Sample Point #2 - Compposite

QC Association Summary

Prep Type

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Matrix

Water

Water

Water

Water

Water

Water

Job ID: 440-288022-1

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Method Prep Batch 200.2 200.2 200.2 200.2 200.2 200.2 200.2 200.2 200.2 200.2

200.2

440-288022-1 MSD Analysis Batch: 655469

Prep Batch: 655298

Lab Sample ID

440-288022-1

440-288022-7

MB 440-655298/1-A

LCS 440-655298/2-A

440-288022-1 MS

Metals

Lab Sample ID 440-288022-1	Client Sample ID Sample Point #1 - Composite	Prep Type Total Recoverable	Matrix Water	Method 200.7 Rev 4.4	Prep Batch 655298
440-288022-7	Sample Point #2 - Compposite	Total Recoverable	Water	200.7 Rev 4.4	655298
MB 440-655298/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	655298
LCS 440-655298/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	655298
440-288022-1 MS	Sample Point #1 - Composite	Total Recoverable	Water	200.7 Rev 4.4	655298
440-288022-1 MSD	Sample Point #1 - Composite	Total Recoverable	Water	200.7 Rev 4.4	655298

Prep Batch: 655753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288022-1	Sample Point #1 - Composite	Total/NA	Water	245.1	
440-288022-7	Sample Point #2 - Compposite	Total/NA	Water	245.1	
MB 440-655753/1-A	Method Blank	Total/NA	Water	245.1	
LCS 440-655753/2-A	Lab Control Sample	Total/NA	Water	245.1	
440-288022-1 MS	Sample Point #1 - Composite	Total/NA	Water	245.1	
440-288022-1 MSD	Sample Point #1 - Composite	Total/NA	Water	245.1	

Analysis Batch: 655799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288022-1	Sample Point #1 - Composite	Total/NA	Water	245.1	655753
440-288022-7	Sample Point #2 - Compposite	Total/NA	Water	245.1	655753
MB 440-655753/1-A	Method Blank	Total/NA	Water	245.1	655753
LCS 440-655753/2-A	Lab Control Sample	Total/NA	Water	245.1	655753
440-288022-1 MS	Sample Point #1 - Composite	Total/NA	Water	245.1	655753
440-288022-1 MSD	Sample Point #1 - Composite	Total/NA	Water	245.1	655753

General Chemistry

Prep Batch: 174720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288022-6	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	
440-288022-12	Sample Point #2 - 1664 Composite	Total/NA	Water	1664A	
MB 570-174720/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-174720/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-174720/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
440-288022-6 MS	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	
440-288022-6 MSD	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	

Analysis Batch: 174978

Lab Sample ID 440-288022-6	Client Sample ID Sample Point #1 - 1664 Composite	Prep Type Total/NA	Water	Method 1664A	Prep Batch 174720
440-288022-12	Sample Point #2 - 1664 Composite	Total/NA	Water	1664A	174720
MB 570-174720/1-A	Method Blank	Total/NA	Water	1664A	174720

QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

General Chemistry (Continued)

Analysis Batch: 174978 (Continued)

Lab Sample ID LCS 570-174720/2-A	Client Sample ID Lab Control Sample	Total/NA	Matrix Water	Method 1664A	Prep Batch174720
LCSD 570-174720/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	174720
440-288022-6 MS	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	174720
440-288022-6 MSD	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	174720

Analysis Batch: 655273

Lab Sample ID 440-288022-1	Client Sample ID Sample Point #1 - Composite	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
440-288022-7	Sample Point #2 - Compposite	Total/NA	Water	SM 2540D	
MB 440-655273/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 440-655273/2	Lab Control Sample	Total/NA	Water	SM 2540D	
440-288022-1 DU	Sample Point #1 - Composite	Total/NA	Water	SM 2540D	

Analysis Batch: 655414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288022-1	Sample Point #1 - Composite	Total/NA	Water	SM 2540C	
440-288022-7	Sample Point #2 - Compposite	Total/NA	Water	SM 2540C	
MB 440-655414/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-655414/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-287984-G-1 DU	Duplicate	Total/NA	Water	SM 2540C	
440-288022-1 DU	Sample Point #1 - Composite	Total/NA	Water	SM 2540C	

Analysis Batch: 655690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288022-1	Sample Point #1 - Composite	Total/NA	Water	SM5210B	
440-288022-7	Sample Point #2 - Compposite	Total/NA	Water	SM5210B	
USB 440-655690/2	Method Blank	Total/NA	Water	SM5210B	
LCS 440-655690/4	Lab Control Sample	Total/NA	Water	SM5210B	
440-288022-1 DU	Sample Point #1 - Composite	Total/NA	Water	SM5210B	

Field Service / Mobile Lab

Analysis Batch: 655376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288022-2	Sample Point #1 - First Grab	Total/NA	Water	Field Sampling	
440-288022-3	Sample Point #1 - Second Grab	Total/NA	Water	Field Sampling	
440-288022-4	Sample Point #1 - Third Grab	Total/NA	Water	Field Sampling	
440-288022-5	Sample Point #1 - Fourth Grab	Total/NA	Water	Field Sampling	
440-288022-8	Sample Point #2 - First Grab	Total/NA	Water	Field Sampling	
440-288022-9	Sample Point #2 - Second Grab	Total/NA	Water	Field Sampling	
440-288022-10	Sample Point #2 - Third Grab	Total/NA	Water	Field Sampling	
440-288022-11	Sample Point #2 - Fourth Grab	Total/NA	Water	Field Sampling	

Organic Prep

Analysis Batch: 174315

Lab Sample ID 440-288022-2	Client Sample ID Sample Point #1 - First Grab	Prep Type Total/NA	Matrix Water	Method Prep Batch Composite
440-288022-3	Sample Point #1 - Second Grab	Total/NA	Water	Composite
440-288022-4	Sample Point #1 - Third Grab	Total/NA	Water	Composite
440-288022-5	Sample Point #1 - Fourth Grab	Total/NA	Water	Composite
440-288022-8	Sample Point #2 - First Grab	Total/NA	Water	Composite

Eurofins Calscience Irvine

Job ID: 440-288022-1

QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Job ID: 440-288022-1

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Organic Prep (Continued)

Analysis Batch: 174315 (Continued)

Lab Sample ID 440-288022-9	Client Sample ID Sample Point #2 - Second Grab	Total/NA	Matrix Water	Composite	Prep Batch
440-288022-10	Sample Point #2 - Third Grab	Total/NA	Water	Composite	
440-288022-11	Sample Point #2 - Fourth Grab	Total/NA	Water	Composite	

Qualifiers

		· 5
Metals		
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	·
General Che	mietry	5
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	. 6
Glossary		7
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	8
%R	Percent Recovery	
CFL	Contains Free Liquid	Q
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	10
DER	Duplicate Error Ratio (normalized absolute difference)	10
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)	13
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTO		

TNTC Too Numerous To Count Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Laboratory: Eurofins Calscience Irvine

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

Authority		rogram	Identification Number	Expiration Date		
California	St	ate	2706	06-30-22		
The fellowing an above			and a sufficient last the supervision of sufficient to the	This list many includes an above of		
the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes	for w	
0,	•	Matrix	Analyte	This list may include analytes	for w	
the agency does not	offer certification.		, , , , , ,		for w	

Laboratory: Eurofins Calscience LLC

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

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

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12
13

1
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12
13

Client: Carlsbad Energy Center

Login Number: 288022 List Number: 1 Creator: Escalante, Maria I

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Calscience Irvine

Client: Carlsbad Energy Center

Login Number: 288022 List Number: 2 Creator: Ortiz-Luis, Michael

Job Number: 440-288022-1

List Source: Eurofins Calscience LLC

List Creation: 08/25/21 04:17 PM

Creator: Ortiz-Luis, Michael		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	

Chain of Custody Record

🔅 eurofins

Eurofins TestAmerica, Irvine

17461 Derian Avenue Suite 100

Irvine, CA 92614-5843

	Project Man	ager: Anth	ony Kalis																	COC No:
Client Contact	Email: anthon	-			-	Site Contact: Anthony Kalis								8/23/2021				-	1 of 1 COCs	
arlsbad Energy Center	Tel/Fax: 760			ane									Carrie	arrier: Eurofins			-		TALS Project #:	
950 Avenida Encinas	and the second second second second	nalysis Tu			-	T	T	maor.	Kussina Tumu				T	Janne	1		T	11	-	Sampler: Anthony Kali
arlsbad, CA 92008	CALENDA			RKING DA	YS	11		ΞŤ.												For Lab Use Only:
hone: (760) 427-2382		if different from			-	11	1	laur												Walk-in Client:
AX - None		2 we				11		Mar	~		-									Lab Sampling:
roject Name: EWA Quarterly Sampling		1 we	ek					ria.	Day	1.1	E.									
ite: Carlsbad Energy Center		2 da	ys				Î	Adr	0,5		N									Job / SDG No.:
O # : Use Credit Card	1	1 da	Y		_	Z	Ξ	rnia	BOI		e (HE									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.		Perform MS / MSD	< 200.7 - (MOD) California Admin Manual L; 245.1 - Hg	2540D - TSS; SM5210B_BOD Cald	2540C_Calcd-TDS	1664A - Oil & Grease (HEM Only)	Field pH								Sample Specific Notes:
ample Point # Point # 1 - composite	8/23/2021	16:35	C	H20	8	N	Y	X - 2	X - 4	X - 2									_	
ample Point # 1 - First Grab	8/23/2021	5:51	G	H2O	3						X	X		1.1						Composite the 4 Oil & Grease
ample Point # 1 - Second Grab	8/23/2021	9:26	G	H2O	3		1	-			X	×								samples of each Sump into one
ample Point # 1 - Third Grab	8/23/2021	12:35	G	H20	3		1				X	×					-		-	composite sample. Analyse the
ample Point # 1 - Fourth Grab	8/23/2021	15:42	G	H2O	3		_			-	X	X								composite only.
ample Point # 2 - composite	8/23/2021	16:42	С	H2O	4	N	N	х	X - 2	х										
ample Point # 2 - First Grab	8/23/2021	6:04	G	H20	3			12.5	35		X	X		1.1						Composite the 4 Oil & Grease
ample Point # 2 - Second Grab	8/23/2021	9:36	G	H2O	3		-				X	×								samples of each Sump into one
ample Point # 2 -Third Grab	8/23/2021	12:42	G	H2O	3	\square	_			-	X	X								composite sample. Analyse the
ample Point # 2 - Fourth Grab	8/23/2021	15:48	G	H2O	3			1			X	X		1.5						composite only.
				1									<u>6</u> 1		Sa	mple	Poin	t # 1/	Time	Sample Point # 2/ time
			1.1.									1.1	Fiel	d pH 1	6.3	39 p⊢	/29.2	°C @	0551	7.23 pH/29.2°C @ 0604
		·	· · · · · · · · · · · · · · · · · · ·					• = 21					Fiel	d pH 2	6,6	51 pH	/28.4	°C @	0926	7.09 pH/30.0°C @ 0936
	1911	1	1.			П							Fiel	d pH 3	6.4	12 p⊢	/28.8	°C @	1235	7.13 pH/29.8°C @ 1242
					1								Fiel	d pH 4	6.3	32 pH	/28.9	°C @	1542	7.17 pH/30.2°C @ 1548
reservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=	=HNO3; 5=NaOI	1; 6= Other		1000			-	1/4	1	1	1/3			the second second		- 1 C			1.1	

Project: EWA Sampling

Meter: HACH HQ 40d

Date: 8/23/21

Start Time: 0578

	_	ph S	tandards		
	MFR	Exp. Date	Lot No.	рН	Temperature
4 Buffer	Hach	11/24	A0326	4.01	21.5 %
7 Buffer	Hach	1/23	A100 4	7.00	21.6 %
10 Buffer	Hach	4/22	Alloy	10.01	21.3 %
Slope = -58.55	mv/pH	mv/pH r	% slope		
off set mv = 4.6	mv				

Potable Water pH

7.93

°C 13.0

Sampling and Analysis

Time	pH	Temperature			
0551	6.39	29.2 °C			
0604	7.23	29.2 °C			
	1				
	0551	0551 6.39			

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperature
Potable Water	0611	7.95	15.5 °C
pH 7.0	0612	7.02	20.1 °C

Comments:

End Time: 0612 Sampling and Analyses by Der Approved by: <u>Anthony Kalis</u>

Project: EWA Sampling

Meter: HACH HQ 40d

16.0

0°C

Date: 3/23/21

Start Time: 0855

		рна	Standards		
	MFR	Exp. Date	Lot No.	pН	Temperature
4 Buffer	Hach	11/24	A0326	4.01	21.3 °C
7 Buffer	Hach	1/23	A1004	7.00	22.0 °C
10 Buffer	Hach	4/22	A1104	10.01	21.9 %
Slope = - 58.34	mv/pH	mv/pH	reading / 59 mv/pl	H= 99.0	% slope
off set mv = 4.4	mv				

.

Potable Water pH

Sampling and Analysis

0926	6.61	28.4	°C
		0.011	0
0936	7.09	30.0	°C
			_
	0936	0936 7.09	0936 7.09 3010

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperature
Potable Water	1006	1.03	15.6 °C
pH 7.0	1009	7.02	20.8 °C

Comments:

End Time: 1009 Sampling and Analyses by: <u>Reduction</u> Approved by: <u>Anthony Valis</u>

Project: EWA Sampling

Meter: HACH HQ 40d

17.6

Date: 8/23/2)

Start Time: 12:15

°C

		pH S	tandards			
	MFR	Exp. Date	Lot No.	pH	Temper	ature
4 Buffer	Hach	1/24	A0326	4.0)	21.4	°C
7 Buffer	Hach	1/23	A1004	7.00	21.7	°C
10 Buffer	Hach	4/22	Alloy	10.01	21.3	°C
Slope = -58.66	mv/pH	mv/pH r	eading / 59 mv/pl	H= 99	% slo	ре
off set mv = 2.9	mv					

Potable Water pH

Sampling and Analysis

7.94

Time	pH	Temperat	ture
1235	6.42	28.8	⁰ C
1242	7.13	29.8	⁰ C
			_
	1235	1235 6.42	1235 6.42 28.8

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temperature
Potable Water	1248	7.90	15.5 °C
pH 7.0	1249	6.99	20.8 °C

Comments:

End Time: 1250 Sampling and Analyses by: Approved by: Anthony Kalis

Project: EWA Sampling

Meter: HACH HQ 40d

Date: 8/23/21

Start Time: 1520

°C

20.2

	ph S	standards			_
MFR	Exp. Date	Lot No.	рН	Temper	ature
Hach	11/24	A 0326	4.01	21.8	°C
Hach	1/23	A1004	7.00	21.8	°C
Hach	4/22	A1104	10.01	21.6	°C
2 mv/pH	mv/pH r	reading / 59 mv/p	H = 99	% slo	ре
mv					
	Hach Hach Hach 2 mv/pH	MFR Exp. Date Hach 1/24 Hach 1/23 Hach 4/22 2 mv/pH mv	Hach W/24 A 0326 Hach 1/23 A1004 Hach 1/23 A104 Hach 1/23 A104 2 mv/pH mv/pH reading / 59 mv/p	MFRExp. DateLot No.pHHach $\frac{W}{24}$ $A 0326$ 4.0 Hach $\frac{V}{23}$ $A 1004$ 5.00 Hach $\frac{V}{22}$ $A 1004$ 5.00 Hach $\frac{V}{22}$ $A 1004$ 10.01 2 mv/pHmv/pH reading / 59 mv/pH = 99	MFRExp. DateLot No.pHTemperHach $\frac{W}{24}$ $A 0326$ 4.01 21.8 Hach $\frac{V}{23}$ $A 1004$ 3.00 21.8 Hach $\frac{V}{23}$ $A 1004$ 10.01 21.6 Hach $\frac{V}{23}$ $A 104$ 10.01 21.6 2 mv/pHmv/pH reading / 59 mv/pH =99% slope

o. . .

Potable Water pH

Sampling and Analysis

Time	pH	Temperature
1542	6.32	28.9 °C
1548	7.17	30.2 °c

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temperature
Potable Water	1556	7.92	21.1 °C
pH 7.0	1557	7.01	21.9 °C

Comments:

	End Time: 155
Sampling and Analyses by:	bed m
Approved by:	Anthony Kalis



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORT CERTIFICATION

I. INDUSTRIAL USER INFORMATION:

Carlsbad Energy Center LLC

Industrial User Name 4950 Avenida Encinas	Carlsbad	92008	760-710-3943
Facility Address Carlsbad Energy Center LLC	City	Zip Code	(Area Code) Phone
Owner Paul Mattesich		Plant Manager	
U Contact City of Carlsbad	2405	Title	
Member Agency	Permit #		

II. CERTIFICATION STATEMENT:

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

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

10/15/21

CARISTAD

PRESIDENT/VP/GENERAL MGR/CEO (Print and sign name) CITY OR COUNTY

SERVING THE CITY OF VISTA, CITY OF CARLSBAD, BUENA SANITATION DISTRICT, VALLECITOS WATER DISTRICT, LEUCADIA WASTEWATER DISTRICT AND CITY OF ENCINITAS Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, FOURTH QUARTER OF 2021 WASTE WATER SAMPLES

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the results for the required samples for the Fourth Quarter of 2021 (4Q2021). This report is submitted in compliance with the table in condition 2 of permit number 2405. The samples were taken on October 5, 2021. The following table summarizes the results:

			Res	ults	1
Constituent	Limit	Units	Sample Point	Sample Point 2	Notes
Arsenic, Total	1.5	mg/L	ND	ND	
Cadmium, Total	0.77	mg/L	ND	ND	
Chromium, Total	3.5	mg/L	0.0082	ND	
Copper, Total	11	mg/L	0.010	0.160	
Lead, Total	5.1	mg/L	ND	ND	
Mercury, Total	0.27	mg/L	0.00025	ND	
Molybdenum, Total	4.1	mg/L	0.039	0.057	1
Nickel, Total	15	mg/L	0.030	0.0089*	* Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Selenium, Total	2.5	mg/L	ND	0.0099*	*Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Silver, Total	4.2	mg/L	ND	ND	
Zinc, Total	29	mg/L	1.9	0.52	
Oil and Grease (HEM)	400	mg/L	3.4	1.3	
BOD	500	lb/day	0.673	0.106	Flow - SP1: 9272 gal, SP2: 2027 gal
BOD	N/A	mg/L	8.7	6.3	Sample Results for Calc
TDS	N/A	mg/L	270	830	
TSS	500	lb/day	1.083	0.169	Flow - SP1: 9272 gal, SP2: 2027 gal
TSS	N/A	mg/L	14	10	Sample Results for Calc
рН	5.5- 12		6.99	7.30	
рН	5.5- 12		6.85	7.24	
рН	5.5- 12		6.89	7.23	
рН	5.5- 12		6.86	7.24	

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970 If you have any questions or comments, please do not hesitate to contact Paul Mattesich at (760)710-3945.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached: TestAmerica Lab Report for Waste Water Samples – October 13, 2021 EWA Report Certification dated October 18, 2021

Cc: File

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

Laboratory Job ID: 440-289686-1 Client Project/Site: EWA Waste Water Permit

For:

Carlsbad Energy Center 4950 Avenida Encinas Carlsbad, California 92008

Attn: Anthony Kalis

Authorized for release by: 10/13/2021 6:04:06 PM

Rossina Tomova, Project Manager I (949)260-3276 Rossina.Tomova@Eurofinset.com

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

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

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



LINKS



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Sample Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-289686-1	Sample Point #1 - Composite	Water	10/05/21 17:46	10/06/21 07:55
440-289686-2	Sample Point #1 - First Grab	Water	10/05/21 06:49	10/06/21 07:55
440-289686-3	Sample Point #1 - Second Grab	Water	10/05/21 09:34	10/06/21 07:55
440-289686-4	Sample Point #1 - Third Grab	Water	10/05/21 13:01	10/06/21 07:55
440-289686-5	Sample Point #1 - Fourth Grab	Water	10/05/21 16:57	10/06/21 07:55
440-289686-6	Sample Point #1 - 1664 Composite	Water	10/05/21 16:57	10/06/21 07:55
440-289686-7	Sample Point #2 - Composite	Water	10/05/21 17:55	10/06/21 07:55
440-289686-8	Sample Point #2 - First Grab	Water	10/05/21 06:56	10/06/21 07:55
440-289686-9	Sample Point #2 - Second Grab	Water	10/05/21 09:40	10/06/21 07:55
440-289686-10	Sample Point #2 - Third Grab	Water	10/05/21 13:07	10/06/21 07:55
440-289686-11	Sample Point #2 - Fourth Grab	Water	10/05/21 17:06	10/06/21 07:55
440-289686-12	Sample Point #2 - 1664 Composite	Water	10/05/21 17:06	10/06/21 07:55

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative 440-289686-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 10/6/2021 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0° C and 1.9° C.

GC Semi VOA

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

Metals

Method 200.7 Rev 4.4: The continuing calibration blank (CCB) for 440-658448 contained Molybdenum above the method detection limit (MDL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. (CCB 440-658448/142) and (CCB 440-658448/154)

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

Field Service / Mobile Lab

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.

Organic Prep

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

10/13/2021

Eurofins Calscience Irvine

RL

0.020

0.0050

0.0050

0.010

0.0050

0.020

0.010

0.020

0.010

0.020

MDL Unit

0.0089 mg/L

0.00094 mg/L

0.0025 mg/L

0.0050 mg/L

0.0038 mg/L

0.0071 mg/L

0.0050 mg/L

0.0087 mg/L

0.0050 mg/L

0.012 mg/L

D

Prepared

10/07/21 16:01

10/07/21 16:01

10/07/21 16:01

10/07/21 16:01

10/07/21 16:01

10/07/21 16:01

10/07/21 16:01

10/07/21 16:01

10/07/21 16:01

10/07/21 16:01

Analyte

Arsenic

Cadmium

Copper

Lead

Nickel

Silver

Zinc

Selenium

Chromium

Molybdenum

Client Sample ID: Sample Point #1 - Composite Date Collected: 10/05/21 17:46 Date Received: 10/06/21 07:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Result Qualifier

ND

ND

0.0082

0.010

0.039

0.030

ND

ND

1.9

ND

Lab Sample ID: 440-289686-1 Matrix: Water

Analyzed

10/08/21 18:07

10/08/21 18:07

10/08/21 18:07

10/08/21 18:07

10/08/21 18:07

10/08/21 18:07

10/08/21 18:07

10/08/21 18:07

10/08/21 18:07

10/08/21 18:07

Dil Fac

1

1

1

1

1

1

1

1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025		0.00020	0.00010	mg/L		10/12/21 10:22	10/12/21 14:54	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270		10	5.0	mg/L			10/08/21 13:14	1
Total Suspended Solids	14		2.0	1.0	mg/L			10/08/21 14:18	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	8.7		6.0	6.0	mg/L			10/07/21 12:44	1

Client Sample ID: Sample Point #1 - First Grab

Date Collected: 10/05/21 06:49

Lab Sample ID: 440-289686-2 Matrix: Water

Date Received: 10/06/21 07:55

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.99				SU			10/05/21 06:49	1
Field Temperature	26.60				Celsius			10/05/21 06:49	1
Method: Composite - Samp Analyte	• •	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac

Date Collected: 10/05/21 09:34

Date Received: 10/06/21 07:55

Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.85				SU			10/05/21 09:34	1
Field Temperature	27.40				Celsius			10/05/21 09:34	1
Method: Composite - Sample C	ompositing								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Composited	ves				NONE			10/07/21 09:32	1

Matrix: Water

Job ID: 440-289686-1

Client Sample ID: Sample Poir	nt #1 - Thir	d Grab					Lab Samp	le ID: 440-28	9686-4
Date Collected: 10/05/21 13:01								Matrix	c: Wate
Date Received: 10/06/21 07:55									
_ Method: Field Sampling - Field Sar	mpling								
Analyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fa
Field pH	6.89				SU			10/05/21 13:01	
Field Temperature	28.10				Celsius			10/05/21 13:01	
Method: Composite - Sample Com	positing								
Analyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fa
Composited	yes				NONE			10/07/21 09:32	
Client Sample ID: Sample Poir	nt #1 - Fou	rth Grab					Lab Samp	le ID: 440-28	9686-
Date Collected: 10/05/21 16:57								Matrix	c: Wate
ate Received: 10/06/21 07:55									
- Method: Field Sampling - Field Sar	mpling								
Analyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fa
Field pH	6.86				SU			10/05/21 16:57	
Field Temperature	27.70				Celsius			10/05/21 16:57	
Method: Composite - Sample Co	positing								
Analyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fa
Composited	yes				NONE			10/07/21 09:32	
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55	nt #1 - 1664	I Composit	e				Lab Samp	le ID: 440-28 Matrix	
Client Sample ID: Sample Poir Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte			RL	MDL	Unit	D		Matri	c: Wate
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55		Qualifier		MDL 0.53	Unit mg/L	<u>D</u>	Lab Samp Prepared 10/08/21 11:06		9686-(<: Wate
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease	Result	Qualifier	RL			D	Prepared 10/08/21 11:06	Matrix Analyzed 10/08/21 12:51	c: Wate
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte	Result	Qualifier	RL			D	Prepared 10/08/21 11:06	Matrix Analyzed 10/08/21 12:51 le ID: 440-28	c: Wate
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55	Result	Qualifier	RL			D	Prepared 10/08/21 11:06	Matrix Analyzed 10/08/21 12:51 le ID: 440-28	c: Wate Dil Fa 9686-
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55	Result 3.4 nt #2 - Com	Qualifier	RL			D	Prepared 10/08/21 11:06	Matrix Analyzed 10/08/21 12:51 le ID: 440-28	c: Wate Dil Fa 9686-
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte	Result 3.4 nt #2 - Com P) - Total Rec Result	Qualifier	RL 1.0 RL	0.53	mg/L Unit	D	Prepared 10/08/21 11:06 Lab Samp Prepared	Matrix Analyzed 10/08/21 12:51 Ie ID: 440-28 Matrix Analyzed	c: Wate
Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Received: 10/06/21 07:55 Ceneral Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic	Result 3.4 nt #2 - Com P) - Total Rec Result ND	Qualifier posite	RL 1.0 RL 0.020	0.53 MDL 0.0089	Unit mg/L		Prepared 10/08/21 11:06 Lab Samp Prepared 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 Ie ID: 440-28 Matrix Analyzed 10/08/21 18:14	c: Wate 9686- c: Wate
Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Received: 10/06/21 07:55 Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium	Result 3.4 nt #2 - Com P) - Total Rec Result ND ND	Qualifier posite	RL 1.0 8 0.020 0.0050	0.53 MDL 0.0089 0.00094	Unit mg/L mg/L mg/L		Prepared 10/08/21 11:06 Lab Samp Prepared 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Analyzed 10/08/21 18:14 10/08/21 18:14	c: Wate 9686- c: Wate
Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Received: 10/06/21 07:55 Ceneral Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic	Result 3.4 nt #2 - Com P) - Total Rec Result ND	Qualifier posite	RL 1.0 RL 0.020 0.0050 0.0050	0.53 MDL 0.0089 0.00094 0.0025	Unit mg/L mg/L mg/L mg/L		Prepared 10/08/21 11:06 Lab Samp Prepared 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Analyzed 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14	c: Wate 9686- c: Wate
ate Collected: 10/05/21 16:57 ate Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir bate Collected: 10/05/21 17:55 ate Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium Copper	Result 3.4 nt #2 - Com P) - Total Rec Result ND ND ND 0.16	Qualifier posite	RL 1.0 RL 0.020 0.0050 0.0050 0.0050 0.010	0.53 MDL 0.0089 0.00094 0.0025 0.0050	Unit mg/L mg/L mg/L mg/L mg/L		Prepared 10/08/21 11:06 Lab Samp Prepared 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Matrix 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14	c: Wate 9686- c: Wate
ate Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium	Result 3.4 nt #2 - Corr P) - Total Rec Result ND ND 0.16 ND	Qualifier posite	RL 1.0 RL 0.020 0.0050 0.0050 0.0010 0.0050	0.53 MDL 0.0089 0.00094 0.0025 0.0050 0.0050 0.0038	Unit mg/L mg/L mg/L mg/L mg/L mg/L		Prepared 10/08/21 11:06 Lab Samp Prepared 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Analyzed 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14	c: Wate 9686- c: Wate
ate Collected: 10/05/21 16:57 ate Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir bate Collected: 10/05/21 17:55 ate Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium Copper	Result 3.4 nt #2 - Com P) - Total Rec Result ND ND ND 0.16	Qualifier posite	RL 1.0 RL 0.020 0.0050 0.0050 0.0050 0.010	0.53 MDL 0.0089 0.00094 0.0025 0.0050 0.0038 0.0071	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L		Prepared 10/08/21 11:06 Lab Samp Prepared 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Matrix 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14	c: Wate 9686- c: Wate
ate Collected: 10/05/21 16:57 ate Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel	Result 3.4 nt #2 - Com P) - Total Rec Result ND ND ND 0.16 ND 0.057 0.0089	Qualifier posite coverable Qualifier	RL 1.0 1.0 0.020 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0020 0.010	0.53 MDL 0.0089 0.00094 0.0025 0.0050 0.0038 0.0071 0.0050	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		Prepared 10/08/21 11:06 Lab Samp 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 Ie ID: 440-28 Matrix 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14	c: Wate 9686- c: Wate
ate Collected: 10/05/21 16:57 Tate Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Tate Collected: 10/05/21 17:55 Tate Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium	Result 3.4 nt #2 - Com P) - Total Rec Result ND ND 0.16 ND 0.0089 0.0099	Qualifier posite coverable Qualifier	RL 1.0 1.0 0.020 0.0050 0.0050 0.0050 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020	0.53 MDL 0.0089 0.00094 0.0025 0.0050 0.0038 0.0071 0.0050 0.0087	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		Prepared 10/08/21 11:06 Lab Samp 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Analyzed 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14	c: Wate 9686- c: Wate
ate Collected: 10/05/21 16:57 ate Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel	Result 3.4 nt #2 - Com P) - Total Rec Result ND ND ND 0.16 ND 0.057 0.0089	Qualifier posite coverable Qualifier	RL 1.0 1.0 0.020 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0020 0.010	0.53 MDL 0.0089 0.00094 0.0025 0.0050 0.0038 0.0071 0.0050 0.0087 0.0050	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		Prepared 10/08/21 11:06 Lab Samp 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 Ie ID: 440-28 Matrix 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14	c: Wate 9686- c: Wate
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium	Result 3.4 nt #2 - Com P) - Total Rec Result ND ND 0.16 ND 0.0089 0.0099	Qualifier posite coverable Qualifier	RL 1.0 1.0 0.020 0.0050 0.0050 0.0050 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020	0.53 MDL 0.0089 0.00094 0.0025 0.0050 0.0038 0.0071 0.0050 0.0087	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		Prepared 10/08/21 11:06 Lab Samp 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Analyzed 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14	c: Wate
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Silver Zinc Method: 245.1 - Mercury (CVAA)	Result 3.4 nt #2 - Com P) - Total Rec Result ND ND 0.16 ND 0.0057 0.0089 0.0099 ND 0.52	Qualifier posite coverable Qualifier J	RL 1.0 1.0 1.0 0.020 0.0050 0.0050 0.010 0.0050 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020	0.53 MDL 0.0089 0.0025 0.0050 0.0038 0.0071 0.0050 0.0087 0.0050 0.0050 0.012	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/08/21 11:06 Lab Samp 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Matrix 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14	c: Wate
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Silver Zinc Method: 245.1 - Mercury (CVAA) Analyte	Result 3.4 nt #2 - Corr P) - Total Rec Result ND ND 0.16 ND 0.0089 0.0099 ND 0.52	Qualifier posite coverable Qualifier	RL 1.0 1.0 0.020 0.0050 0.0050 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020	0.53 MDL 0.0089 0.0025 0.0050 0.0038 0.0071 0.0050 0.0087 0.0050 0.0050 0.012 MDL	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		Prepared 10/08/21 11:06 Lab Samp Prepared 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Matrix Analyzed 10/08/21 18:14 10/08/21 18:14	c: Wate Dil Fa 9686-
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Silver Zinc Method: 245.1 - Mercury (CVAA)	Result 3.4 nt #2 - Com P) - Total Rec Result ND ND 0.16 ND 0.0057 0.0089 0.0099 ND 0.52	Qualifier posite coverable Qualifier J	RL 1.0 1.0 1.0 0.020 0.0050 0.0050 0.010 0.0050 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020	0.53 MDL 0.0089 0.0025 0.0050 0.0038 0.0071 0.0050 0.0087 0.0050 0.0050 0.012	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/08/21 11:06 Lab Samp 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Matrix 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14 10/08/21 18:14	c: Wate
Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55 General Chemistry Analyte HEM: Oil and Grease Client Sample ID: Sample Poir Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55 Method: 200.7 Rev 4.4 - Metals (ICF Analyte Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Silver Zinc Method: 245.1 - Mercury (CVAA) Analyte	Result 3.4 nt #2 - Corr P) - Total Rec Result ND 0.16 ND 0.0089 0.0099 ND 0.52 Result ND	Qualifier posite coverable Qualifier J	RL 1.0 1.0 0.020 0.0050 0.0050 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.020	0.53 MDL 0.0089 0.0025 0.0050 0.0038 0.0071 0.0050 0.0087 0.0050 0.0050 0.012 MDL 0.00010	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/08/21 11:06 Lab Samp Prepared 10/07/21 16:01 10/07/21 16:01	Matrix Analyzed 10/08/21 12:51 le ID: 440-28 Matrix Matrix Analyzed 10/08/21 18:14 10/08/21 18:14	c: Wate

Eurofins Calscience Irvine

Client Sample Results

Job ID: 440-289686-1

Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55	t #2 - Con	iposite					Lab Samp	ble ID: 440-28 Matrix	9686- c: Wate
General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Solids	10		1.3	0.67	mg/L			10/08/21 14:18	
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Biochemical Oxygen Demand	6.3		2.0	2.0	mg/L			10/07/21 13:02	
Client Sample ID: Sample Point	#2 - Firs	t Grab					Lab Samp	ole ID: 440-28	9686-
Date Collected: 10/05/21 06:56 Date Received: 10/06/21 07:55									k: Wate
 Method: Field Sampling - Field Sam	pling								
Analyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fa
Field pH	7.30				SU			10/05/21 06:56	
Field Temperature	27.60				Celsius			10/05/21 06:56	
_ Method: Composite - Sample Comp	ositing								
Analyte	_	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fa
Composited	yes				NONE			10/07/21 09:32	
Client Sample ID: Sample Point	#2 500	and Grab					Lab Samr	ole ID: 440-28	0696
Date Collected: 10/05/21 09:40 Date Received: 10/06/21 07:55 – Method: Field Sampling - Field Sam								Wath	c: Wate
Analyte		Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fa
Field pH	7.24				SU			10/05/21 09:40	
Field Temperature	28.00				Celsius			10/05/21 09:40	
_ Method: Composite - Sample Comp	ositing								
Analyte	_	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fa
					NONE			10/07/21 09:32	
Composited	yes								
Composited Client Sample ID: Sample Point	-	d Grab					Lab Sampl	e ID: 440-289	686-1
	-	d Grab					Lab Sampl		
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07	t #2 - Thir	d Grab					Lab Sampl		
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte	t #2 - Thir pling Result	d Grab	NONE	NONE		D	Lab Sampl	Matrix Analyzed	c: Wate
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte Field pH	t #2 - Thir pling Result 7.23		NONE	NONE	SU			Matrix Analyzed 10/05/21 13:07	c: Wate
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte	t #2 - Thir pling Result		NONE	NONE				Matrix Analyzed	c: Wate
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte Field pH	t #2 - Thir pling <u>Result</u> 7.23 28.60		NONE	NONE	SU			Matrix Analyzed 10/05/21 13:07	c: Wate
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte Field pH Field Temperature	t #2 - Thir pling Result 7.23 28.60 ositing		NONE	NONE	SU Celsius			Matrix Analyzed 10/05/21 13:07	c: Wate
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte Field pH Field Temperature Method: Composite - Sample Comp	t #2 - Thir pling Result 7.23 28.60 ositing	Qualifier			SU Celsius	<u>D</u>	Prepared	Matrix Analyzed 10/05/21 13:07 10/05/21 13:07	c: Wate
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte Field pH Field Temperature Method: Composite - Sample Comp Analyte Composited	t #2 - Thir pling Result 7.23 28.60 ositing Result yes	Qualifier			SU Celsius Unit	<u>D</u>	Prepared	Matrix Analyzed 10/05/21 13:07 10/05/21 13:07 Analyzed 10/07/21 09:32	C: Wate
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte Field pH Field Temperature Method: Composite - Sample Comp Analyte	t #2 - Thir pling Result 7.23 28.60 ositing Result yes	Qualifier			SU Celsius Unit	<u>D</u>	Prepared	Matrix Analyzed 10/05/21 13:07 10/05/21 13:07 Analyzed 10/07/21 09:32 e ID: 440-289	<: Wate
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte Field pH Field Temperature Method: Composite - Sample Comp Analyte Composited Client Sample ID: Sample Point Date Collected: 10/05/21 17:06	t #2 - Thir pling Result 7.23 28.60 ositing Result yes t #2 - Four	Qualifier			SU Celsius Unit	<u>D</u>	Prepared	Matrix Analyzed 10/05/21 13:07 10/05/21 13:07 Analyzed 10/07/21 09:32 e ID: 440-289	<: Wate
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte Field pH Field Temperature Method: Composite - Sample Comp Analyte Composited Client Sample ID: Sample Point Date Collected: 10/05/21 17:06 Date Received: 10/06/21 07:55	t #2 - Thir pling Result 7.23 28.60 ositing Result yes t #2 - Four pling	Qualifier			SU Celsius Unit NONE	<u>D</u>	Prepared	Matrix Analyzed 10/05/21 13:07 10/05/21 13:07 Analyzed 10/07/21 09:32 e ID: 440-289	C: Wate
Client Sample ID: Sample Point Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam Analyte Field pH Field Temperature Method: Composite - Sample Comp Analyte Composited Client Sample ID: Sample Point Date Collected: 10/05/21 17:06 Date Received: 10/06/21 07:55 Method: Field Sampling - Field Sam	t #2 - Thir pling Result 7.23 28.60 ositing Result yes t #2 - Four pling	Qualifier Qualifier	NONE	NONE	SU Celsius Unit NONE	D	Prepared Prepared	Matrix <u>Analyzed</u> 10/05/21 13:07 10/05/21 13:07 <u>Analyzed</u> 10/07/21 09:32 e ID: 440-289 Matrix	C: Wate

Client Sample Results

Client: Carlsbad Energy Center
Project/Site: EWA Waste Water Permit

Job ID: 440-289686-1

Client Sample ID: Sample Poin Date Collected: 10/05/21 17:06 Date Received: 10/06/21 07:55	it #2 - Foui	th Grab					Lab Sample	e ID: 440-289 Matrix	686-11 c: Water
Method: Composite - Sample Co	positing								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Composited	yes				NONE			10/07/21 09:32	1
Client Sample ID: Sample Poin	nt #2 - 1664	Composit	e				Lab Sample	e ID: 440-289	686-12
Date Collected: 10/05/21 17:06							-	Matrix	c: Water
Date Received: 10/06/21 07:55									
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	1.3		1.0	0.53	mg/L		10/08/21 11:06	10/08/21 12:51	1

Method Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Job ID: 440-289686-1

5 6 7

lethod	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL IRV
245.1	Mercury (CVAA)	EPA	TAL IRV
664A	HEM and SGT-HEM	1664A	ECL 1
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL IRV
SM5210B	BOD, 5 Day	SM	TAL IRV
ield Sampling	Field Sampling	EPA	TAL IRV
Composite	Sample Compositing	None	ECL 1
664A	HEM and SGT-HEM (Aqueous)	1664A	ECL 1
200.2	Preparation, Total Recoverable Metals	EPA	TAL IRV
45.1	Preparation, Mercury	EPA	TAL IRV

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Initial

Amount

25 mL

20 mL

100 mL

500 mL

Initial

Amount

Final

Amount

25 mL

30 mL

100 mL

1000 mL

Final

Amount

Batch

Number

658340

658448

658600

658669

658396

658430

658673

Batch

Number

658255

184679

Dil

1

1

1

1

1

Dil

1

1

Factor

Factor

Run

Run

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total Recoverable

Total Recoverable

Client Sample ID: Sample Point #1 - Composite Date Collected: 10/05/21 17:46 Date Received: 10/06/21 07:55

Batch

Method

200.7 Rev 4.4

200.2

245.1

245.1

SM 2540C

SM 2540D

SM5210B

Batch

Method

Field Sampling

Composite

Batch

Туре

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Batch

Туре

Analysis

Analysis

Client Sample ID: Sample Point #1 - First Grab

Lab

TAL IRV

Lab Sample ID: 440-289686-1 Matrix: Water

Analyst

LZY7

P1R

MA6V

MA6V

VY3D

ZL7L

Prepared

or Analyzed

10/07/21 16:01

10/08/21 18:07

10/12/21 10:22

10/12/21 14:54

10/08/21 13:14

10/08/21 14:18

Prepared

or Analyzed

10/05/21 06:49

10/07/21 12:44 VY3D

Lab Sample ID: 440-289686-2

Matrix: Water

Lab

TAL IRV

Matrix: Water

10/07/21 09:32 C4LT ECL 1

Analyst

Lab Sample ID: 440-289686-3

P1R

Client Sample ID: Sample Point #1 - Second Grab

- Date Collected: 10/05/21 09:34
- Date Received: 10/06/21 07:55

Date Collected: 10/05/21 06:49

Date Received: 10/06/21 07:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			658255	10/05/21 09:34	P1R	TAL IRV
Total/NA	Analysis	Composite		1			184679	10/07/21 09:32	C4LT	ECL 1

Client Sample ID: Sample Point #1 - Third Grab Date Collected: 10/05/21 13:01 Date Received: 10/06/21 07:55

Lab Sample ID: 440-289686-4

Lab Sample ID: 440-289686-5

Matrix: Water

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	Field Sampling		1			658255	10/05/21 13:01	P1R	TAL IRV
Total/NA	Analysis	Composite		1			184679	10/07/21 09:32	C4LT	ECL 1

Client Sample ID: Sample Point #1 - Fourth Grab Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			658255	10/05/21 16:57	P1R	TAL IRV
Total/NA	Analysis	Composite		1			184679	10/07/21 09:32	C4LT	ECL 1

Client Sample ID: Sample Point #1 - 1664 Composite Date Collected: 10/05/21 16:57 Date Received: 10/06/21 07:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			970 mL	1000 mL	185053	10/08/21 11:06	UWEZ	ECL 1
Total/NA	Analysis	1664A		1			185086	10/08/21 12:51	L6IE	ECL 1

Client Sample ID: Sample Point #2 - Composite Date Collected: 10/05/21 17:55 Date Received: 10/06/21 07:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.2			25 mL	25 mL	658340	10/07/21 16:01	LZY7	TAL IRV
Total Recoverable	Analysis	200.7 Rev 4.4		1			658448	10/08/21 18:14	P1R	TAL IRV
Total/NA	Prep	245.1			20 mL	30 mL	658600	10/12/21 10:22	MA6V	TAL IRV
Total/NA	Analysis	245.1		1			658669	10/12/21 15:20	MA6V	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	658396	10/08/21 13:14	VY3D	TAL IRV
Total/NA	Analysis	SM 2540D		1	750 mL	1000 mL	658430	10/08/21 14:18	ZL7L	TAL IRV
Total/NA	Analysis	SM5210B		1			658673	10/07/21 13:02	VY3D	TAL IRV

Client Sample ID: Sample Point #2 - First Grab Date Collected: 10/05/21 06:56 Date Received: 10/06/21 07:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			658255	10/05/21 06:56	P1R	TAL IRV
Total/NA	Analysis	Composite		1			184679	10/07/21 09:32	C4LT	ECL 1

Client Sample ID: Sample Point #2 - Second Grab Date Collected: 10/05/21 09:40 Date Received: 10/06/21 07:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			658255	10/05/21 09:40	P1R	TAL IRV
Total/NA	Analysis	Composite		1			184679	10/07/21 09:32	C4LT	ECL 1

Client Sample ID: Sample Point #2 - Third Grab Date Collected: 10/05/21 13:07 Date Received: 10/06/21 07:55

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			658255	10/05/21 13:07	P1R	TAL IRV
Total/NA	Analysis	Composite		1			184679	10/07/21 09:32	C4LT	ECL 1

Job ID: 440-289686-1

Lab Sample ID: 440-289686-6 Matrix: Water

Lab Sample ID: 440-289686-7

Lab Sample ID: 440-289686-8

Lab Sample ID: 440-289686-9

Lab Sample ID: 440-289686-10

iter

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Client Sample ID: Sample Point #2 - Fourth Grab Date Collected: 10/05/21 17:06 Date Received: 10/06/21 07:55

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			658255	10/05/21 17:06	P1R	TAL IRV
Total/NA	Analysis	Composite		1			184679	10/07/21 09:32	C4LT	ECL 1

Client Sample ID: Sample Point #2 - 1664 Composite Date Collected: 10/05/21 17:06 Date Received: 10/06/21 07:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			958 mL	1000 mL	185053	10/08/21 11:06	UWEZ	ECL 1
Total/NA	Analysis	1664A		1			185086	10/08/21 12:51	L6IE	ECL 1

Laboratory References:

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

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Job ID: 440-289686-1

Lab Sample ID: 440-289686-11 Matrix: Water

Lab Sample ID: 440-289686-12

x: Water

Matrix: Water

Eurofins Calscience Irvine

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 440-658340/1-A Matrix: Water

Analysis Batch: 658448

	B MB							
Analyte Res	It Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	D	0.020	0.0089	mg/L		10/07/21 16:01	10/08/21 18:02	1
Cadmium	D	0.0050	0.00094	mg/L		10/07/21 16:01	10/08/21 18:02	1
Chromium	D	0.0050	0.0025	mg/L		10/07/21 16:01	10/08/21 18:02	1
Copper	D	0.010	0.0050	mg/L		10/07/21 16:01	10/08/21 18:02	1
Lead	D	0.0050	0.0038	mg/L		10/07/21 16:01	10/08/21 18:02	1
Molybdenum	D	0.020	0.0071	mg/L		10/07/21 16:01	10/08/21 18:02	1
Nickel	D	0.010	0.0050	mg/L		10/07/21 16:01	10/08/21 18:02	1
Selenium	D	0.020	0.0087	mg/L		10/07/21 16:01	10/08/21 18:02	1
Silver	D	0.010	0.0050	mg/L		10/07/21 16:01	10/08/21 18:02	1
Zinc	D	0.020	0.012	mg/L		10/07/21 16:01	10/08/21 18:02	1

Spike

Added

0.250

0.500

Lab Sample ID: LCS 440-658340/2-A

Matrix: Water

Analyte

Arsenic Cadmium Chromium Copper Lead Molybdenum Nickel Selenium

Silver

Zinc

Analysis Batch: 658448

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 658340

%Rec.

Limits

85 - 115

85 - 115

Prep Type: Total Recoverable

0.500	0.489	mg/L	98	85 _ 115	
0.500	0.500	mg/L	100	85 - 115	
0.500	0.507	mg/L	101	85 - 115	
0.500	0.500	mg/L	100	85 - 115	
0.500	0.505	mg/L	101	85 - 115	
0.500	0.474	mg/L	95	85 - 115	
0.500	0.504	mg/L	101	85 - 115	
0.500	0.489	mg/L	98	85 - 115	

0.244

0.509

LCS LCS

Result Qualifier

Unit

mg/L

mg/L

D

%Rec

98

102

Client Sample ID: Sample Point #1 - Composite

Lab Sample ID: 440-289686-1 MS Matrix: Water

Analysis Batch: 658448

Analysis Batch: 658448									Prep Ba	tch: 658340
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		0.500	0.505		mg/L		101	70 _ 130	
Cadmium	ND		0.500	0.497		mg/L		99	70 - 130	
Chromium	0.0082		0.500	0.513		mg/L		101	70 ₋ 130	
Copper	0.010		0.500	0.537		mg/L		105	70 ₋ 130	
Lead	ND		0.500	0.499		mg/L		100	70 - 130	
Molybdenum	0.039		0.500	0.523		mg/L		97	70 ₋ 130	
Nickel	0.030		0.500	0.527		mg/L		100	70 - 130	
Selenium	ND		0.500	0.499		mg/L		100	70 ₋ 130	
Silver	ND		0.250	0.248		mg/L		99	70 ₋ 130	
Zinc	1.9		0.500	2.43		mg/L		111	70 - 130	

Lab Sample ID: 440-289686-1 MSD Client Sample ID: Sample Point #1 - Composite Matrix: Water Prep Type: Total Recoverable Analysis Batch: 658448 Prep Batch: 658340 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added %Rec Limit Analyte **Result Qualifier** Unit D Limits RPD ND 0.500 0.504 Arsenic mg/L 101 70 - 130 0 20

Eurofins Calscience Irvine

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 658340

5

8 9

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

Lab Sample ID: 440-289686-1 MSD Matrix: Water						Client S	ample		ole Point # [.] Type: Tota		
Analysis Batch: 658448										Batch: 6	
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	ND		0.500	0.495		mg/L		99	70 _ 130	0	20
Chromium	0.0082		0.500	0.513		mg/L		101	70 - 130	0	20
Copper	0.010		0.500	0.534		mg/L		105	70 _ 130	1	20
Lead	ND		0.500	0.498		mg/L		100	70 _ 130	0	20
Molybdenum	0.039		0.500	0.531		mg/L		98	70 - 130	1	20
Nickel	0.030		0.500	0.525		mg/L		99	70 _ 130	0	20
Selenium	ND		0.500	0.501		mg/L		100	70 - 130	0	20
Silver	ND		0.250	0.248		mg/L		99	70 - 130	0	20
Zinc	1.9		0.500	2.39		mg/L		103	70 _ 130	2	20

Lab Sample ID: MB 440-658600/1-A											Client Sa	ample ID: Meth	od Blan
Matrix: Water												Prep Type:	Total/N
Analysis Batch: 658669												Prep Batch	n: 65860
		ΜВ	МВ										
Analyte	Re	esult	Qualifier	RL		MDL	Unit		D	Р	repared	Analyzed	Dil Fa
Mercury		ND		0.00020	0.0	0010	mg/L			10/1	2/21 10:22	10/12/21 15:01	
- Lab Sample ID: LCS 440-658600/2-/	4								CI	ient	Sample	ID: Lab Contro	I Sampl
Matrix: Water												Prep Type:	Total/N
Analysis Batch: 658669												Prep Batch	n: 65860
				Spike	LCS	LCS						%Rec.	
Analyte				Added	Result	Qual	ifier	Unit		D	%Rec	Limits	
Mercury				0.00600	0.00636			mg/L		_	106	85 - 115	
Lab Sample ID: 440-289686-1 MS								Client	Sam	ole I	D: Samp	le Point #1 - Co	omposit
Matrix: Water												Prep Type:	
Analysis Batch: 658669												Prep Batch	n: 65860
-	Sample	Samp	le	Spike	MS	MS						%Rec.	
Analyte	Result	Quali	fier			<u> </u>		11		D	%Rec	Limits	
				Added	Result	Quai	itier	Unit		U	/01100	Limits	
Mercury	0.00025			Added	Result 0.00564	Qual	ifier	mg/L		_	90	75 - 125	
Mercury Lab Sample ID: 440-289686-1 MSD	0.00025					Qual	ifier	mg/L	Sam	-	90		
	0.00025					Qual	ifier	mg/L	Samı	-	90	75 - 125	
	0.00025					Qual	ifier	mg/L	Samı	-	90	75 - 125	Total/N
Lab Sample ID: 440-289686-1 MSD Matrix: Water	0.00025 Sample					Qual	itier	mg/L	Samı	-	90	75 - 125 le Point #1 - Co Prep Type:	Total/N
Lab Sample ID: 440-289686-1 MSD Matrix: Water		Samp	le	0.00600	0.00564	MSD		mg/L	Samı	-	90	75 - 125 le Point #1 - Co Prep Type: Prep Batch	Total/N/ 1: 65860 RP

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 570-185053/1-A Matrix: Water Analysis Batch: 185086							Client Sa	mple ID: Metho Prep Type: ⁻ Prep Batch:	Total/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.0	0.51	mg/L		10/08/21 11:06	10/08/21 12:51	1

Job ID: 440-289686-1

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 570-185053/2-	Α						Clien	t Sample	e ID: Lab C		
Matrix: Water									Prep [·]	Туре: То	otal/N
Analysis Batch: 185086									Prep	Batch: 1	18505
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
HEM: Oil and Grease			40.0	33.10		mg/L		83	78 - 114		
Lab Sample ID: LCSD 570-185053/3	3-A					CI	ient Sar	nple ID:	Lab Contro	ol Samp	le Du
Matrix: Water										Type: To	
Analysis Batch: 185086										Batch: 1	
			Spike	LCSD	LCSD				%Rec.		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
HEM: Oil and Grease			40.0	32.00		mg/L		80	78 - 114	3	1
Lab Sample ID: 440-289686-6 MS					Clie	nt Samr	ole ID: S	ample P	oint #1 - 16	64 Com	posit
Matrix: Water										Type: To	
Analysis Batch: 185086										Batch: 1	
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
HEM: Oil and Grease	3.4		40.5	39.27		mg/L		89	78 - 114		
Lab Sample ID: 440-289686-6 MSD Matrix: Water					Clie	nt Samp	ole ID: S	ample P		Type: To	otal/N
Analysis Batch: 185086										Batch: 1	
-		Sample	Spike	MSD					%Rec.		RP
Analyte	Result	Sample Qualifier	Added	Result	MSD Qualifier	Unit	<u>D</u>	%Rec	%Rec. Limits	RPD	RP Lim
Analyte HEM: Oil and Grease	Result 3.4	Qualifier	Added 40.9			 mg/L	<u>D</u>	%Rec 90	%Rec.		RP Lim
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To	Result 3.4	Qualifier	Added 40.9	Result			D	90	%Rec. Limits 78 - 114	3	RF Lim
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1	Result 3.4	Qualifier	Added 40.9	Result			D	90	%Rec. Limits 78 - 114	RPD 3	RP Lim
Analyte HEM: Oil and Grease Iethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water	Result 3.4	Qualifier	Added 40.9	Result			D	90	%Rec. Limits 78 - 114	3	RP Lim 1 Blan
Analyte HEM: Oil and Grease Iethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water	Result 3.4	Qualifier	Added 40.9	Result			<u>D</u>	90	%Rec. Limits 78 - 114	RPD 3	RP Lim 1 Blan
Analyte HEM: Oil and Grease Iethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396	Result 3.4	Qualifier Solved (TD	Added 40.9	Result				90	%Rec. Limits 78 - 114	RPD 3 Method Type: To	RP Lim 1 Blan otal/N
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte	Result 3.4	Qualifier solved (TD	Added 40.9	Result 40.29	Qualifier	mg/L		90 Client S	%Rec. Limits 78 - 114 Sample ID: Prep	3 Method Type: To	RP Lim 1 Blan otal/N
Analyte HEM: Oil and Grease Hethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids	Result 3.4	Qualifier solved (TD MB MB esult Qualifier	Added 40.9	Result 40.29	Qualifier	mg/L		90 Client S Prepared	%Rec. Limits 78 - 114 Sample ID: Prep Analy:	RPD 3 Method Type: Tc zed 10:32	Blan Dil Fa
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-658396/2	Result 3.4	Qualifier solved (TD MB MB esult Qualifier	Added 40.9	Result 40.29	Qualifier	mg/L		90 Client S Prepared	%Rec. Limits 78 - 114 Sample ID: Prep Analy: 10/08/21 e ID: Lab C	RPD 3 Method Type: To zed 10:32 -	Blan Dil Fa
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-658396/2 Matrix: Water	Result 3.4	Qualifier solved (TD MB MB esult Qualifier	Added 40.9	Result 40.29	Qualifier	mg/L		90 Client S Prepared	%Rec. Limits 78 - 114 Sample ID: Prep Analy: 10/08/21 e ID: Lab C	RPD 3 Method Type: Tc zed 10:32	Blan Dil Fa
Analyte HEM: Oil and Grease Iethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-658396/2 Matrix: Water	Result 3.4	Qualifier solved (TD MB MB esult Qualifier	Added 40.9	Result 40.29	Qualifier MDL Unit 5.0 mg/L	mg/L		90 Client S Prepared	%Rec. Limits 78 - 114 Sample ID: Prep	RPD 3 Method Type: To zed 10:32 -	Blan Dil Fa
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-658396/2 Matrix: Water Analysis Batch: 658396	Result 3.4	Qualifier solved (TD MB MB esult Qualifier	Added 40.9	Result 40.29	Qualifier MDL Unit 5.0 mg/L	mg/L	D I	90 Client S Prepared	%Rec. Limits 78 - 114 Sample ID: Prep Analy: 10/08/21 e ID: Lab C Prep %Rec.	RPD 3 Method Type: To zed 10:32 -	Blan Dil Fa
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-658396/2 Matrix: Water Analysis Batch: 658396 Analyte	Result 3.4	Qualifier solved (TD MB MB esult Qualifier	Added 40.9	Result 40.29	Qualifier MDL Unit 5.0 mg/L	mg/L		90 Client S Prepared	%Rec. Limits 78 - 114 Sample ID: Prep Analy: 10/08/21 e ID: Lab C Prep	RPD 3 Method Type: To zed 10:32 -	RP Lim 1 Blan btal/N Dil Fa
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-658396/2 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids	Result 3.4	Qualifier solved (TD MB MB esult Qualifier	Added 40.9 S)	Result 40.29	Qualifier MDL Unit 5.0 mg/L	Unit mg/L	Clien	90 Client S Prepared t Sample <u>%Rec</u> 98	%Rec. Limits 78 - 114 Sample ID: Prep Analy: 10/08/21 e ID: Lab C Prep %Rec. Limits 90 - 110	RPD 3 Method Type: To 22ed 10:32 - 0 ontrol S Type: To	RF Lin Blan Dia Fa Dia Fa Gampi Dia Fa
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-658396/2 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: 440-289686-1 DU	Result 3.4	Qualifier solved (TD MB MB esult Qualifier	Added 40.9 S)	Result 40.29	Qualifier MDL Unit 5.0 mg/L	Unit mg/L	Clien	90 Client S Prepared t Sample <u>%Rec</u> 98	%Rec. Limits 78 - 114 Sample ID: Prep	RPD 3 Method Type: To 2ed 10:32 ontrol S Type: To 	RF Lin Blan Dil Fa Gampi Dil Fa
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-658396/2 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: 440-289686-1 DU Matrix: Water	Result 3.4	Qualifier solved (TD MB MB esult Qualifier	Added 40.9 S)	Result 40.29	Qualifier MDL Unit 5.0 mg/L	Unit mg/L	Clien	90 Client S Prepared t Sample <u>%Rec</u> 98	%Rec. Limits 78 - 114 Sample ID: Prep	RPD 3 Method Type: To 22ed 10:32 - 0 ontrol S Type: To	RF Lim Blan Dil Fa Dil Fa Sampl otal/N
Analyte HEM: Oil and Grease lethod: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-658396/2 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: 440-289686-1 DU Matrix: Water	Result 3.4 Dtal Dis	Qualifier Solved (TD MB MB esult Qualifier ND	Added 40.9 S)	Result 40.29	MDL Unit 5.0 mg/L LCS Qualifier	Unit mg/L	Clien	90 Client S Prepared t Sample <u>%Rec</u> 98	%Rec. Limits 78 - 114 Sample ID: Prep	RPD 3 Method Type: To 2ed 10:32 ontrol S Type: To 	RP Lim 1 Blan Dil Fa Dil Fa
Analysis Batch: 185086 Analyte HEM: Oil and Grease Method: SM 2540C - Solids, To Lab Sample ID: MB 440-658396/1 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: LCS 440-658396/2 Matrix: Water Analysis Batch: 658396 Analyte Total Dissolved Solids Lab Sample ID: 440-289686-1 DU Matrix: Water Analysis Batch: 658396 Analyte	Result 3.4 Dtal Dis R	Qualifier solved (TD MB MB esult Qualifier	Added 40.9 S)	Result 40.29 40.29 10 LCS Result 982	Qualifier MDL Unit 5.0 mg/L	Unit mg/L	Clien	90 Client S Prepared t Sample <u>%Rec</u> 98	%Rec. Limits 78 - 114 Sample ID: Prep	RPD 3 Method Type: To 2ed 10:32 ontrol S Type: To 	RPI Lim 1 Blan Dil Fa Dil Fa Gample Dil Fa

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Job ID: 440-289686-1

Method: SM 2540D - Solids, Total Suspended (TSS)

										Client S	Sample ID: Me	thod	Blank
Matrix: Water											Prep Typ	be: To	tal/NA
Analysis Batch: 658430													
		MB MB											
Analyte	Re	esult Qualif	ier	RL		MDL Unit		D	P	repared	Analyzed		Dil Fa
Total Suspended Solids		ND		1.0		0.50 mg/L					10/08/21 14:	18	
Lab Sample ID: LCS 440-658430/2								Cli	ent	Sample	ID: Lab Con	trol S	ample
Matrix: Water											Prep Typ	be: To	tal/N
Analysis Batch: 658430													
			Spike		LCS	LCS					%Rec.		
Analyte			Added	I	Result	Qualifier	Unit		D	%Rec	Limits		
Total Suspended Solids			1000		1010		mg/L		_	101	85 - 115		
Lab Sample ID: 440-289686-1 DU							Client	Samp	ole I	D: Sam	ple Point #1 -	Com	posit
Matrix: Water											Prep Typ		-
Analysis Batch: 658430													
	Sample	Sample			DU	DU							RP
Analyte	Result	Qualifier		I	Result	Qualifier	Unit		D			RPD	Lim
Total Suspended Solids	14				14.8		mg/L		_			4	
	'y									Client S	Sample ID: Me	ethod	Blan
Method: SM5210B - BOD, 5 Da Lab Sample ID: USB 440-658673/2 Matrix: Water	<u>y</u>									Client S	Sample ID: Me Prep Typ		
Lab Sample ID: USB 440-658673/2	-	USB USB								Client S			
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673	-	USB USB	ier	RI		RI Unit		D			Ргер Тур	be: To	tal/N/
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte	-	USB USB esult Qualif	ïer	RL 2.0		RL Unit 2.0 mg/L		<u>D</u>		Client S		be: To	tal/N/ Dil Fa
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte	-	esult Qualif	ïer					<u>D</u>			Prep Typ Analyzed	be: To	tal/N Dil Fa
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand	-	esult Qualif	ïer						Pi	repared	Prep Typ Analyzed	be: To	tal/N/ Dil Fa
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-658673/4	-	esult Qualif	ïer						Pi	repared	Prep Typ 	be: To 34 trol S a	tal/N Dil Fa
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand	-	esult Qualif	ïer						Pi	repared	Prep Typ Analyzed 10/07/21 12: D: Lab Con	be: To 34 trol S a	Dil Fa
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-658673/4 Matrix: Water	-	esult Qualif	ïer Spike		LCS				Pi	repared	Prep Typ Analyzed 10/07/21 12: D: Lab Con	be: To 34 trol S a	Dil Fa
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-658673/4 Matrix: Water	-	esult Qualif		2.0		2.0 mg/L	Unit		Pi	repared	Analyzed 10/07/21 12: DI: Lab Con Prep Typ	be: To 34 trol S a	Dil Fa
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-658673/4 Matrix: Water Analysis Batch: 658673 Analyte	-	esult Qualif	Spike	2.0		2.0 mg/L			Pi ent	repared Sample	Analyzed 10/07/21 12: DI: Lab Con Prep Typ %Rec.	be: To 34 trol S a	Dil Fa
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-658673/4 Matrix: Water Analysis Batch: 658673	-	esult Qualif	Spike Added	2.0	Result	2.0 mg/L	_ <mark>Unit</mark> mg/L	Cli	Pr ent	Sample	Analyzed 10/07/21 12: DI: Lab Con Prep Typ %Rec. Limits	34 34 trol Same: To	Dil Fa ample tal/N/
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-658673/4 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: 440-289686-1 DU	-	esult Qualif	Spike Added	2.0	Result	2.0 mg/L	_ <mark>Unit</mark> mg/L	Cli	Pr ent	Sample	Analyzed 10/07/21 12: ID: Lab Con Prep Typ %Rec. Limits 85 - 115	oe: To 34	tal/N/ Dil Fa ampletal/N/
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-658673/4 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: 440-289686-1 DU Matrix: Water	-	esult Qualif	Spike Added	2.0	Result	2.0 mg/L	_ <mark>Unit</mark> mg/L	Cli	Pr ent	Sample	Analyzed 10/07/21 12: ID: Lab Con Prep Typ %Rec. Limits 85 - 115 ple Point #1 -	oe: To 34	tal/N/ Dil Fa ample tal/N/
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-658673/4 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand	R	esult Qualif	Spike Added	2.0	Result 201	2.0 mg/L	_ <mark>Unit</mark> mg/L	Cli	Pr ent	Sample	Analyzed 10/07/21 12: ID: Lab Con Prep Typ %Rec. Limits 85 - 115 ple Point #1 -	oe: To 34	Dil Fa ample tal/N/ posite tal/N/
Lab Sample ID: USB 440-658673/2 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 440-658673/4 Matrix: Water Analysis Batch: 658673 Analyte Biochemical Oxygen Demand Lab Sample ID: 440-289686-1 DU Matrix: Water	Re	esult Qualif	Spike Added	2.0	Result 201	2.0 mg/L LCS Qualifier	_ <mark>Unit</mark> mg/L	Cli	Pr ent	Sample	Analyzed 10/07/21 12: ID: Lab Con Prep Typ %Rec. Limits 85 - 115 ple Point #1 -	oe: To 34	Dil Fac

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QC Association Summary

Job ID: 440-289686-1

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Metals

Prep Batch: 658340

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
440-289686-1	Sample Point #1 - Composite	Total Recoverable	Water	200.2	
440-289686-7	Sample Point #2 - Composite	Total Recoverable	Water	200.2	
MB 440-658340/1-A	Method Blank	Total Recoverable	Water	200.2	
LCS 440-658340/2-A	Lab Control Sample	Total Recoverable	Water	200.2	
440-289686-1 MS	Sample Point #1 - Composite	Total Recoverable	Water	200.2	
440-289686-1 MSD	Sample Point #1 - Composite	Total Recoverable	Water	200.2	
Analysis Batch: 65844	8				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-289686-1	Sample Point #1 - Composite	Total Recoverable	Water	200.7 Rev 4.4	658340
440-289686-7	Sample Point #2 - Composite	Total Recoverable	Water	200.7 Rev 4.4	658340
MB 440-658340/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	658340
LCS 440-658340/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	658340
440-289686-1 MS	Sample Point #1 - Composite	Total Recoverable	Water	200.7 Rev 4.4	658340
440-289686-1 MSD	Sample Point #1 - Composite	Total Recoverable	Water	200.7 Rev 4.4	658340
Prep Batch: 658600					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
440-289686-1	Sample Point #1 - Composite	Total/NA	Water	245.1	
440-289686-7	Sample Point #2 - Composite	Total/NA	Water	245.1	
MB 440-658600/1-A	Method Blank	Total/NA	Water	245.1	
LCS 440-658600/2-A	Lab Control Sample	Total/NA	Water	245.1	
440-289686-1 MS	Sample Point #1 - Composite	Total/NA	Water	245.1	
440-289686-1 MSD	Sample Point #1 - Composite	Total/NA	Water	245.1	
Analysis Batch: 65866	9				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
440-289686-1	Sample Point #1 - Composite	Total/NA	Water	245.1	658600
440-289686-7	Sample Point #2 - Composite	Total/NA	Water	245.1	658600
MB 440-658600/1-A	Method Blank	Total/NA	Water	245.1	658600
	Lab Control Sample	Total/NA	Water	245.1	658600
LCS 440-658600/2-A		TO COMPANY A			
LCS 440-658600/2-A 440-289686-1 MS	Sample Point #1 - Composite	Total/NA	Water	245.1	658600

General Chemistry

Prep Batch: 185053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-289686-6	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	
440-289686-12	Sample Point #2 - 1664 Composite	Total/NA	Water	1664A	
MB 570-185053/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-185053/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-185053/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
440-289686-6 MS	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	
440-289686-6 MSD	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	

Analysis Batch: 185086

Lab	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440	-289686-6	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	185053
440	-289686-12	Sample Point #2 - 1664 Composite	Total/NA	Water	1664A	185053
MB	570-185053/1-A	Method Blank	Total/NA	Water	1664A	185053

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QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

General Chemistry (Continued)

Analysis Batch: 185086 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-185053/2-A	Lab Control Sample	Total/NA	Water	1664A	185053
LCSD 570-185053/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	185053
440-289686-6 MS	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	185053
440-289686-6 MSD	Sample Point #1 - 1664 Composite	Total/NA	Water	1664A	185053
Analysis Batch: 65839	6				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
440-289686-1	Sample Point #1 - Composite	Total/NA	Water	SM 2540C	
440-289686-7	Sample Point #2 - Composite	Total/NA	Water	SM 2540C	
MB 440-658396/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-658396/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-289686-1 DU	Sample Point #1 - Composite	Total/NA	Water	SM 2540C	
Analysis Batch: 65843	0				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
440-289686-1	Sample Point #1 - Composite	Total/NA	Water	SM 2540D	
440-289686-7	Sample Point #2 - Composite	Total/NA	Water	SM 2540D	
MB 440-658430/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 440-658430/2	Lab Control Sample	Total/NA	Water	SM 2540D	
440-289686-1 DU	Sample Point #1 - Composite	Total/NA	Water	SM 2540D	
Analysis Batch: 65867	3				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
440-289686-1	Sample Point #1 - Composite	Total/NA	Water	SM5210B	
440-289686-7	Sample Point #2 - Composite	Total/NA	Water	SM5210B	
USB 440-658673/2	Method Blank	Total/NA	Water	SM5210B	

Field Service / Mobile Lab

Lab Control Sample

Sample Point #1 - Composite

Analysis Batch: 658255

LCS 440-658673/4

440-289686-1 DU

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-289686-2	Sample Point #1 - First Grab	Total/NA	Water	Field Sampling	
440-289686-3	Sample Point #1 - Second Grab	Total/NA	Water	Field Sampling	
440-289686-4	Sample Point #1 - Third Grab	Total/NA	Water	Field Sampling	
440-289686-5	Sample Point #1 - Fourth Grab	Total/NA	Water	Field Sampling	
440-289686-8	Sample Point #2 - First Grab	Total/NA	Water	Field Sampling	
440-289686-9	Sample Point #2 - Second Grab	Total/NA	Water	Field Sampling	
440-289686-10	Sample Point #2 - Third Grab	Total/NA	Water	Field Sampling	
440-289686-11	Sample Point #2 - Fourth Grab	Total/NA	Water	Field Sampling	

Total/NA

Total/NA

Water

Water

SM5210B

SM5210B

Organic Prep

Analysis Batch: 184679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-289686-2	Sample Point #1 - First Grab	Total/NA	Water	Composite	
440-289686-3	Sample Point #1 - Second Grab	Total/NA	Water	Composite	
440-289686-4	Sample Point #1 - Third Grab	Total/NA	Water	Composite	
440-289686-5	Sample Point #1 - Fourth Grab	Total/NA	Water	Composite	
440-289686-8	Sample Point #2 - First Grab	Total/NA	Water	Composite	
440-289686-9	Sample Point #2 - Second Grab	Total/NA	Water	Composite	

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QC Association Summary

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Organic Prep (Continued)

Analysis Batch: 184679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-289686-10	Sample Point #2 - Third Grab	Total/NA	Water	Composite	
440-289686-11	Sample Point #2 - Fourth Grab	Total/NA	Water	Composite	

Client: Carlsbad Energy Center Project/Site: EWA Waste Water Permit

Qualifiers

М	ota	le
	ela	

	Client: Carlsbad Energy Center Job ID: 440-28968 Project/Site: EWA Waste Water Permit Job ID: 440-28968	
Qualifiers		
Metals		
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	1
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	-
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEO		

- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Laboratory: Eurofins Calscience Irvine

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

Authority	Pr	ogram	Identification Number	Expiration Date
California	St	ate	2706	06-30-22
The following analytes	are included in this report by	it the laboratory is not cortif	ied by the governing authority. This list ma	w include enclutee f
the agency does not of	fer certification.	-		
the agency does not of Analysis Method		Matrix	Analyte	
the agency does not of	fer certification.	-		

Laboratory: Eurofins Calscience LLC

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

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

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Chain of Custody Record

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Д

440-289686 Chain of Custody	Regu	latory Pro	ogram []] DW		s	[] F	RCRA		V 0	ther						Tes	Ame	rica Lat	poratories, Inc. d/b/a Eurofins TestAmerica
	Project Man	ager [.] Anth	ony Kalis]										_				COC No
Client Contact	Email anthon	y.kalis@nrg	g.com			Sit	e Co	ontact:	Anth	ony K	alis					10/5	5/202	1		1 of1 COCs
Carlsbad Energy Center	Tel/Fax· 760	427-2382	/ Fax #: No	one		Lai	b Co	ontact:	Ross	ina T	omo	/a		Carri	er Ei	rofir	IS			TALS Project #:
4950 Avenida Encinas	A	nalysis Tu	rnaround 1				Π													Sampler Anthony Kalis
Carlsbad, CA 92008	CALENDA	DAYS	🗹 wo	RKING DA	YS			Manual L,												For Lab Use Only
Phone: (760) 427-2382	TAT	if different fro	m Below					Ĩ	J	ļ]									Walk-in Client:
FAX None		2 we	eks					Ň	2		2									Lab Sampling
Project Name EWA Quarterly Sampling		i we	ek					Ē	Š Š		δ			·						
Site Carlsbad Energy Center		2 da	ys				Î	Ad	ģ		E E									Job / SDG No
PO # Use Credit Card		1 da	у			E	Σ	nia	l ë		E									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	1		Perfon	245.1 Hg	2540D TSS; SM5210B_BOD Calc-BOD, 5 Day		1664A Oil & Grease (HEM Only)	Field pH								Sample Specific Notes.
Sample Point # Point # 1 composite	10/5/2021	17 46	С	H20	8	Ν	Y	X 2	X 4	X 2	<u>'</u>	┝──┟								
Sample Point # 1 First Grab	10/5/2021	6.49	G	H2O	3				<u> </u>	ļ	<u> </u>	X	_		_					Composite the 4 Oil & Grease
Sample Point # 1 Second Grab	10/5/2021	9 34	G	H20	3						X	X			_					samples of each Sump into one
Sample Point # 1 Third Grab	10/5/2021	13:01	G	H2O	3					<u> </u>	X	X								composite sample. Analyse the
Sample Point # 1 Fourth Grab	10/5/2021	16 57	G	H2O	3						X	X								composite only
Sample Point # 2 composite	10/5/2021	17 55	с	H2O	4	Ν	N	х	X 2	X										
8ample Point # 2 First Grab	10/5/2021	6 56	G	H2O	3						x	Х								Composite the 4 Oil & Grease
Sample Point # 2 Second Grab	10/5/2021	9:40	G	H2O	3						x	Х								samples of each Sump into one
Sample Point # 2 Third Grab	10/5/2021	13:07	G	H2O	3						X	X								composite sample. Analyse the
Sample Point # 2 Fourth Grab	10/5/2021	17.06	G	H2O	3						X	X								composite only
				1		Π									S	ample	e Poir	nt # 1.	/ Time	Sample Point # 2/ time
	1					Π			1				Fiel	d pH ′	6	99 pH	1/26 (5°C @	0649	7 30 pH/27 6°C @ 0656
									1				Fiel	d pH 2	2 6	85 pl	1/27.4	°C @	0934	7 24 pH/28 0°C @ 0940
													Fiel	d pH 3	3 6	89 p⊦	1/28.1	°C @	3 1301	7 23 pH/28.6°C @ 1307
													Fiel	d pH 4	I 6.	86 pł	1/27 7	″°C @	0 1657	7.24 pH/27.8°C @1706
Preservation Used: 1= Ice; 2= HCI; 3= H2SO4; 4=H	NO3; 5=NaOH	i; 6= Other	Mary Maria	Red apple	and the second secon Second second		87) a 12.02	1/4	and the second second	102010026-20	1/3	EX(0828.3) 21								The first second s
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? the Comments Section if the lab is to dispose of the sam	ple	y EPA Wa			amp l e i			-	•	•	fee r	nay t				•		_		onger than 1 month)
Non-Hazard Flammable Skin Irritar	nt 🗌 Poison B		Unkn	own				Retur	n to Clie	nt				Disposal	by Lat] Arch	ive for	Months
															1	<u>1/1</u>	0		20	
Custody Seals Intact. Yes No	Custody Seal	No.							<u>)</u>	Cool	er Te	mp ((°C): C)bs'd			Con	'd		Therm ID No.
Relinquished by	Company [.]	eb		Date/T	1 (86	ŝΠ	-	eived I	pla-	<u> </u>	1	K				· · · · · ·	71-1	1		Date/Time, 10/5/21 Q 1815
Relinquished by	Company	5		Date/1	ime@/	557	Rec	eived I	DY:							npan	у.			Date/Time
Relinquished by	Company			Date/T			Rec	eived i	in Lab	ocator	y by				Cor	npan	y. 5011	٦/		Date/Time 10/6/21 0755
						\leq											-	Forn	n No. (CA-C-WI-002, Rev 4.25, dated 7/8/2019

Eurofins Calscience Irvine

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

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)	Sampler [.]				b PM: omov	a, Ro	ssin	a D				ſ	Carrier	Trackir	ng No(s)	:		COC No: 440-174139 1	<u>international and an air an air an air an air an air an </u>
Client Contact: Shipping/Receiving	Phone [.]				Mail: ossin	a Tor	mova	@Eu	rofins	et.com	 1		State o Califo	f Origin				Page: Page 1 of 2	ni na a Hannanian anig'n ardenas yn aras (a)
Company Eurofins Calscience LLC					14	credita	ations	Requi	annin ani	e note)	- independence	£	oanio	11110	<u>.</u>			Job #:	
Address. 7440 Lincoln Way, ,	Due Date Reques	ted:			Ť	tate i	logi	am				<u> </u>						440-289686-1 Preservation Co	des
City Garden Grove	TAT Requested (c	lays):					1	1	<u> </u>	Analy	ysis	Keq	uest	ed				A - HCL B - NaOH	M - Hexane N - None
State, Zip [.]	-																	C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
CA, 92841 Phone:	PO #:				_								a na contra na			1		E + NaHSO4 F + MeOH	Q - Na2SO3 R - Na2S2O3
714-895-5494(Tel) 714-894-7501(Fax) Email					(0)													G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
	WO #:				s or h	(oN		~									gt.	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: EWA Waste Water Permit	Project #: 44023287				(Ye)	is or		N Onl					and the second				containers	K + EDTA L + EDA	W - pH 4-5 Z - other (specify)
Site [,]	SSOW#:					SD (Ye		1664A/1664A_P_W HEM Only											
			0	Matrix	ed Si	NS.		AP						-			ar of		
			Sample Type	(W=water S=solid,	Filter	N E	Composite	/1664									Number		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, G=grab)	O=waste/oll, BT=Tissue, A=A		Perform	dwo	[664A									Total	Special I	nstructions/Note.
	\searrow	\times		ation Code		\mathbf{X}											k	Special in	Istructions/Note.
Sample Point #1 - First Grab (440-289686-2)	10/5/21	09:49 Pacific		Water			X		ł			-	- 10 - 10 - 10				3	3	
Sample Point #1 - Second Grab (440-289686-3)	10/5/21	09·34 Pacific		Water			X										3		
Sample Point #1 - Third Grab (440-289686-4)	10/5/21	13:01 Pacific		Water			x										3	8	
Sample Point #1 - Fourth Grab (440-289686-5)	10/5/21	16.57 Pacific		Water	T		X										3		•/••••••••
Sample Point #1 - 1664 Composite (440-289686-6)	10/5/21	16.57 Pacific		Water	╈			x									1		<u>alını</u>
Sample Point #1 - 1664 Composite (440-289686-6MS)	10/5/21	16.57 Pacific	MS	Water	╧			x		1			<u> </u>		┼╌┤		1		
Sample Point #1 - 1664 Composite (440-289686-6MSD)	10/5/21	16:57 Pacific	MSD	Water	1			x									1		
Sample Point #2 - First Grab (440-289686-8)	10/5/21	06.56 Pacific		Water			X										3	i	
Sample Point #2 - Second Grab (440-289686-9)	10/5/21	09.40 Pacific		Water			х										3		
Note: Since laboratory accreditations are subject to change Eurofins Calscience maintain accreditation in the State of Origin listed above for analysis/tests/matri	e places the ownersh	ip of method	analyte & accr	editation com	plianc	e upor	n out s	subcon	tract la	ooratori	es. Th	is sam	ple ship	ment i	s forward	ded und	der cha	in-of-custody If the I	aboratory does not currently
Calscience attention immediately if all requested accreditations are current to	date, return the signe	d Chain of Cus	stody attesting	to said comp	nonns nisanc	calscie to Eu	urofins	s Calso	ory or c cience	merins	TUCUO	ns will t	se prov	ngeg 1	any char	iges to	accred	litation status should l	ie brought to Eurofins
Possible Hazard Identification					676 7	San					may Г							ned longer than	1 month)
Unconfirmed Deliverable Requested I, II, JH, TV, Other (specify)	Primary Deliver	able Rank	2		• {	Spe		the second second second	To Clie	ent QC R	equire		Chair and America	l By L	ab	ـــتــا مۇسۇسەت	Arcl	hive For	Months
Empty Kit Relinquished by	• •	Date.			Тт	me.								ethod c	f Shipm	ent:			
Relinquished by	Date/Time: 10621	·	ran I	Company		1	Receiv	ved by		1					Date/	Time:	, còn an t	<u></u>	Company
Relinguished by	10621 Date/Tme:	1	520	Company	IPI		Perei	ved by;	W	N					1b/ Date/	16 /	21	1920	FC
Relinquished by	Date/Time: 10/6/1/1 Date/Time:	[8	15	60			a	U.	MC	<u>×</u>			· · · · · ·		16	16/	21	1815	Company
				Company		F	Keceiv	ved by							Date/1	lime:		,	Company
Custody Seals Intact: Custody Seal No \mathcal{M}	Sin adaptan musiki ini tanan san ina ina ina ina ina ina ina ina ina i	and the street of the second second			an a	ľ	Cooler	r Temp	erature	(s) °C a	ind Oth	ier Ren	narks.	Æ	de texter	1.	6/	'z'.5 sc	.5
																			Ver 06/08/2021
- 100 PT								ω		ა				0	00			ο σ	

10/13/2021

Eurofins Calscience Irvine

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

Chain of Custody Record

Client Information (Sub Contract Lab)	Sampler [.]			Lab Tor		, Ros	sina	D		multurenante		Carri	er Track	ing No	(s):	2	COC 440-	No: 174139.2	<u></u>	
Client Contact: Shipping/Receiving	Phone:			E-M Ros		Tom	ova@	Eurofi	nset.c	com			of Origi ornia	in		*******	Page: Page	2 of 2		
Company Eurofins Calscience LLC								equired (n - Cali				B iòpai and				dana di seri di second	Job #			2
Address. 7440 Lincoln Way, ,	Due Date Request 10/7/2021	ed:							and the second second		s Rec	ues	ted			6-4144- <u>-</u>	Pres	ervation Co		
City [.] Garden Grove	TAT Requested (d	ays):													T		A-H B-N		M - Hexan N - None	
State Zip CA, 92841																	D - N	tric Acid aHSO4	O - AsNaC P - Na2O4 Q - Na2SC	s
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	PO#:								-								F+M G-A	eOH mchlor	R - Na2S2 S - H2SO4	03
Email	WO #:				or Nc	(0)											I - Ice	scorbic Acid Water	U - Aceton V - MCAA	odecahydrate e
Project Name: EWA Waste Water Permit	Project #: 44023287			×.	25:08	as or h	M Only										K+E	DTA	W - pH 4-9 Z - other (9	
Site:	SSOW#:			Ŷ	angi	SD (Ye	H M										Other			-
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab) e	Matrix (W=water S=solid, O=waste/oli,	ield Filtered S	Parform MS/MSD (Yas or No) Commette	Composite						and the second			Minches				
			Preservati		*			-									2-	Special I	nstruction	s/Note.
Sample Point #2 - Third Grab (440-289686-10)	10/5/21	13:07 Pacific		Water		;	x										3			
Sample Point #2 - Fourth Grab (440-289686-11)	10/5/21	17 [.] 06 Pacific		Water		;	x										3			
Sample Point #2 - 1664 Composite (440-289686-12)	10/5/21	17 [.] 06 Pacific		Water				<									1			
											_									
					44						_									
			<u> </u>		11						_						<u> </u>			
					+							<u></u>					_			
Note: Since laboratory accreditations are subject to change Eurofins Calscience maintain accreditation in the State of Origin listed above for analysis/tests/matrix Calscience attention immediately If all requested accreditations are current to d	being analyzed the	samples must	be shipped bac	k to the Euro	ofins Ci icance	alscien to Eur	nce lab rofins (oratory o Calscienc	or othe e.	r instruc	tions wi	l be pr	ovided	Any ch	nanges	to accrei	ditation s	atus should	be brought to	s not currently Eurofins
Possible Hazard Identification Unconfirmed					1.1	Samp	٦	isposa ırn To (-				sed if al By		oles ar [<u> </u>	ined lo : hive Fc	nger than r	1 month) Month:	
Deliverable Requested I, II, III, IV, Other (specify)	Primary Delivera	able Rank	2			Speci		structio			and the second second	and the second second	<u>-</u> ,							,
Empty Kit Relinquished by		Date			Tim	ie.							Method	of Ship	ment:	<u></u>		nașa na câni în înțarane	uja ta de la casa de la	
Relinquished by	Date/Time:	1 19		Company Company	٧q	Re	eceive	d by	uf	N				Dat	te/Time:	121	1	520	Company	
Relinquished by: Awdy W	Date/Time: 10/6/21	. 1	815 °	Company G-C			eceive	11 21	16	9				Dat	te/fime	6/2	1 1	815	Company	1
Relinquished by	Date/Time:			Company	à	Re	eceive	d by	Ð						e/Time:		ution of the second	in in the second se	Company	
Custody Seals Intact: Custody Seal No.				Į	ł	Go	ooler T	emperat	ure(s)	°C and	Other R	emark	» 1.	۵,	17	6	sk	5		
								<u>ည်</u>	12			2	ဖ	a a		7	0	UI .	Ver 06/0	8/2021

10/13/2021

Client: Carlsbad Energy Center

Login Number: 289686 List Number: 1

Creator: Escalante, Maria I

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Calscience Irvine

Client: Carlsbad Energy Center

Login Number: 289686 List Number: 2

Creator: Ortiz-Luis, Michael

Question Answer Comment Radioactivity wasn't checked or is </= background as measured by a survey N/A meter. N/A The cooler's custody seal, if present, is intact. N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. True Samples were received on ice. Cooler Temperature is acceptable. True Cooler Temperature is recorded. 2.5 True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. True Is the Field Sampler's name present on COC? False Received project as a subcontract. There are no discrepancies between the containers received and the COC. True Samples are received within Holding Time (excluding tests with immediate True HTs) 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 True MS/MSDs Containers requiring zero headspace have no headspace or bubble is True <6mm (1/4"). Multiphasic samples are not present. True Samples do not require splitting or compositing. False Sample compositing requested.

N/A

Residual Chlorine Checked.

Job Number: 440-289686-1

List Source: Eurofins Calscience LLC

List Creation: 10/06/21 06:58 PM

Chain of Custody Record

🔅 eurofins

Eurofins TestAmerica, Irvine

17461 Derian Avenue

Suite 100 Irvine, CA 92614-5843

phone 949.261 1022 fax 949.260.3299	Regu	latory Pro	gram: [DW	NPDE	s		RCRA)ther:						TestA	merica	a Labo	pratories, Inc. d/b/a Eurofins TestAmerica
	Project Man	ager: Anth	ony Kalis		100	1														COC No:
Client Contact	Email: anthor	y.kalis@nrg	.com	~~~~		Sit	e Co	ontact	Anthe	ony K	alis		-			10/5/	2021			1 of1 COCs
Carlsbad Energy Center	Tel/Fax: 760	427-2382	Fax #: No	one		Lal	b Co	ontact	Rossi	ina T	omov	/a	2.0	Carrie	er: Eur	ofina	5			TALS Project #:
4950 Avenida Encinas	A	nalysis Tu	rnaround "	Time		Π		1.5.1	1		1.00	Π	1				18			Sampler: Anthony Kalis
Carlsbad, CA 92008	CALENDA	R DAYS	V WO	RKING DA	YS			1 L			1				11		1.1			For Lab Use Only:
Phone: (760) 427-2382	TAT	if different from	n Below	_				nu			1.4									Walk-in Client:
FAX - None		2 we	eks					Wa	à		5									Lab Sampling:
Project Name: EWA Quarterly Sampling		1 W6	ek					, E	5 Day		6	11								
Site: Carlsbad Energy Center		2 da	ys				ĩ	Ad	0		ME									Job / SDG No.:
PO # : Use Credit Card	1	1 da	/	-		E.	2	ornia	B-B		e (H									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y	Perform MS / MSD (Y /	200.7 - (MOD) California Admin Manual L; 245.1 - Hg	2540D - TSS; SM5210B_BOD Calc-BOD, 5	2540C_Calcd-TDS	1664A - Oil & Grease (HEM Only)	Field pH								Sample Specific Notes:
Sample Point # Point # 1 - composite	10/5/2021	17:46	С	H20	8	Ν		X - 2		X - 2	2									
Sample Point # 1 - First Grab	10/5/2021	6:49	G	H2O	3					1.5	X	x		100		1		124		Composite the 4 Oil & Grease
Sample Point # 1 - Second Grab	10/5/2021	9:34	G	H20	3						X	x								samples of each Sump into one
Sample Point # 1 - Third Grab	10/5/2021	13:01	G	H2O	3			-			x	x						- 1		composite sample. Analyse the
Sample Point # 1 - Fourth Grab	10/5/2021	16:57	G	H2O	3			12.00		110	X	X						i = [1]		composite only.
Sample Point # 2 - composite	10/5/2021	17:55	C	H2O	4	N	N	х	X - 2	X										
Sample Point # 2 - First Grab	10/5/2021	6:56	G	H20	3		111	L		1113	x	x								Composite the 4 Oil & Grease
Sample Point # 2 - Second Grab	10/5/2021	9:40	G	H2O	3			1			x	×	1.15							samples of each Sump into one
Sample Point # 2 -Third Grab	10/5/2021	13:07	G	H20	3						X	X								composite sample. Analyse the
Sample Point # 2 - Fourth Grab	10/5/2021	17:06	G	H2O	3						X	×					1			composite only.
															Sa	mple	Point	# 1/ T	ime	Sample Point # 2/ time
					1.1			1					Fi	eld pH 1	6.9	9 pH	26.6*	C@0	649	7.30 pH/27.6°C @ 0656
			1	1 I	1.5.5		5	100	1.004		1.1.1		Fi	eld pH 2	6.8	5 pH	27.4"	C@0	934	7.24 pH/28.0°C @ 0940
				1						1	111	*	Fi	eld pH 3	6.8	9 pH	28.1*	C@1	301	7.23 pH/28.6°C @ 1307
		1											Fi	eld pH 4	6.8	6 pH	27.7	C@1	657	7.24 pH/27.8°C @1706
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=	HNO3; 5=NaOI	l; 6= Other						1/4	1	1	1/3									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste's the Comments Section if the lab is to dispose of the sa	Please List an	1	1.1.1.1	22.2	ample i	n		nple D			fee r	nay		Disposal		nple		retain Archive		nger than 1 month)
						-														
and the second se		_	_			_			_						_			_		
Custody Seals Intact: Yes No	Custody Sea	I No.:		10	harren	_	-)	Cool	er Te	mp.	(°C):	Obs'd:	10	_	Corr'd			Therm ID No.:
Relinquished by:	Company:	RE		Date/T		5	Rec	ceived	el.	-	1	E	-	1.000	Com	pany	TP	7		Date/Time: 1 Q 1815
Relinquished by:	Company:			Date/T			Rec	eived	by:		-				Com	pany				Date/Time:
Relinquished by:	Company:			Date/T	ime:	1	Rec	eived	in Labo	orator	y by:		_	-	Com	pany	:			Date/Time:

Project: EWA Sampling

Meter: HACH HQ 40d

Date: 10/5/21

Start Time: 0607

°C

14.3

		рна	Standards			
	MFR	Exp. Date	Lot No.	рН	Temper	ature
4 Buffer	Hach	11/24	A0326	4.01	22.4	°C
7 Buffer	Hach	1/23	A1004	7.00	22.4	°C
10 Buffer	Hach	4/22	A1104	10.01	22.4	°C
Slope = -58.5	3 mv/pH	mv/pH	reading / 59 mv/p	H= 99	% slo	pe
off set mv = 5.6	mv					

1 Chaudanda

Potable Water pH

Sampling and Analysis

Time	pH	Temper	ature
0649	6.99	26.6	°C
0656	7.30	27.6	°C
	0649	0649 6.99	0649 6.99 26.6

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temper	ature
Potable Water	0703	8,10	15.5	°C
pH 7.0	0704	7-03 AM	21,8	°C
		7.03		-

Comments:

End Time: 0704 Sampling and Analyses by: 00 Approved by: Anthony Kalis

Project: EWA Sampling

Meter: HACH HQ 40d

15.7

°C

Date: 10

Start Time: 09/6

pH	Sta	and	daı	ds
----	-----	-----	-----	----

	MFR	Exp. Date	Lot No.	pH	Temper	ature
4 Buffer	Hach	11/24	A0326	4.01	22.7	°C
7 Buffer	Hach	1/23	A1004	7,00	22.5	°C
10 Buffer	Hach	4/22	Alloy	10.01	22.1	°C
Slope = -58.	52 mv/pH	, mv/pH r	reading / 59 mv/p	H= 99	% slo	ре
off set mv = 4.	mv					

Potable Water pH

Sampling and Analysis

Sample Point	Time	pH	Temperature
Sample Point #1	0934	6.85	27.4 °c
Sample Point #2	0940	7,24	28.0 °C
		-	

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temperature
Potable Water	0947	8.04	13.9 °C
pH 7.0	0948	7.02	20.9 °C

Comments:

End Time: 0949 Sampling and Analyses by: Tech Approved by: Anthony Kalis

Project: EWA Sampling

Meter: HACH HQ 40d

Date: 19/5/21

Start Time: 1245

16.0

°C

		pH S	tandards		the second se	
	MFR	Exp. Date	Lot No.	pH	Temperature	
4 Buffer	Hach	11/24	A0326	4.01	12219 22.2°C	
7 Buffer	Hach	1/23	A1004).00	22.4 °C	
10 Buffer	Hach	4/22	A1104	10.01	22.6 °C	
Slope = -59.45 mv/pH		mv/pH r	eading / 59 mv/p	H= 99	% slope	
off set mv = 2.	😚 mv					

Potable Water pH

Sampling and Analysis

Time	pH	Temperature
1301	6.89	28.1 °C
1307	7.23	28.6 °C
	1301	1301 6.89

Standards Check After Analysis pH Standards

pH Buffer	Time	pH	Temperature	
Potable Water	1314	7.96	14.9 °C	
pH 7.0	1315	7.01	20.8 °C	

Comments:

	End Time: 13/6
Sampling and Analyses by	reta hom
Approved by:	Anthony Kalis

Project: EWA Sampling

Meter: HACH HQ 40d

16.9

Date: 10/5/21

Start Time: 1640

°C

		pH S	tandards			
	MFR	Exp. Date	Lot No.	рН	Temper	ature
4 Buffer	Hach	11/24	A0326	4.01	22.9	°C
7 Buffer	Hach	1/23	A1004	7.00	22.7	°C
10 Buffer	Hach	4/22	A1104	10.01	22.3	°C
Slope = -58.70 mv/pH		mv/pH r	eading / 59 mv/p	H= 99	% slo	pe
off set mv = 🚺 🔒	8 mv					

Potable Water pH

Sampling and Analysis

Time	pH	Temperature
1657	6.86	27.7 °c
1706	7.24	27,8 °c
	1.5.	
	1657	1657 6.86

Standards Check After Analysis pH Standards

pH Buffer	Time	рН	Temperature	
Potable Water	1714	7,85	13.1	°C
pH 7.0	1715	7.01	21.1	°C

Comments:

	End Time: 17/6
Sampling and Analyses by	Tel fr
Approved by:	Anthony Kalis

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

July 9, 2021

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, SEMI ANNUAL COMPLIANCE STATUS REPORT – JANUARY-JUNE 2021

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the attached semi-annual compliance status report cover the time period of January 2021 to June 2021. This report is submitted in compliance with Section B, Condition 2 of permit number 2405. The results for the self-monitoring sampling events for the First and Second Quarter reports for 2021 have already been submitted to the Encina Wastewater Authority but are included with this report as well.

If you have any questions or comments, please do not hesitate to contact Ryan Goerl at (760) 573-3802.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached: 1SA2021 EWA Compliance Status Report Excel files for 1Q2021 and 2Q2021 Sample Data

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

COMPLIANCE STATUS REPORT (CSR)

REPORTING PERIOD:

JULY 1 - DECEMBER 31

YES

I. INDUSTRIAL USER INFORMATION:

Carlsbad Energy Center			
Industrial User Name 4950 Avenida Encinas	Carlsbad	CA	760-710-3943
Facility Address Carlsbad Energy Center LLC	City	Zip Code	(Area Code) Phone
Owner Paul Mattesich		Plant Manager	
IU Contact City of Carlsbad	2405	Title 4941	
Member Agency	Pennit #	SIC Code	

II. ARE PROCESS OR OPERATIONAL CHANGES BEING PLANNED OR IMPLEMENTED?

If yes, explain:

III. LIST OF ALL ACTIVE ENVIRONMENTAL PERMIT(S), PERMIT #(S), DATE ISSUED AND EXPIRATION DATE: See Attached

IV. FLOW SUMMARY

→ INCOMING WATER SOURCE	C		→ PROCESS DISCHARGE TO SA	NITARY SE	WER
AVERAGE DAILY FLOW RATE:	38693	gpd	AVERAGE DAILY FLOW RATE:	3175	gpd
MAXIMUM DAILY FLOW RATE:	253221	gpd	MAXIMUM DAILY FLOW RATE:	and the second	gpd

CONSUMPTION HAS STAYED THE SAME INCREASED OR DECREASED BY MORE THAN 10% FROM THE LAST CSR. If change indicated, explain: Flow has changed from previous CSR oue to the operation of the power plant, and variable atmospheric conditions during operation. Reported discharge flow includes a NSWD authorized event that occurred in February 2021.

V. THE FOLLOWING HAS BEEN INCLUDED:

NA

NO

RESULTS OF SELF MONITORING PERFORMED ON 1/11/21, 4/20/21

Results for each monitoring event were also sent prior.

VI. COMPLIANCE STATUS REPORT CERTIFICATION STATEMENT

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

ARUSBAI

PRESIDENT/VP/GENERAL MGR/CEO (Print and sign name)

> SERVING THE CITY OF VISTA, CITY OF CARLSBAD, BUENA SANITATION DISTRICT, VALLECITOS WATER DISTRICT, LEUCADIA WASTEWATER DISTRICT AND CITY OF ENCINITAS Attachment A-1

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

January 13, 2022

Mr. William Svec Compliance Project Manager Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, California 92011

RE: CARLSBAD ENERGY CENTER PROJECT, SEMI ANNUAL COMPLIANCE STATUS REPORT – JULY TO DECEMBER 2021

Dear Mr. Svec:

Carlsbad Energy Center LLC ("Project Owner") submits the attached semi-annual compliance status report cover the time period of July 2021 to December 2021. This report is submitted in compliance with Section B, Condition 2 of permit number 2405. The results for the self-monitoring sampling events for the Third and Fourth Quarter reports for 2021 have already been submitted to the Encina Wastewater Authority but are included with this report as well.

If you have any questions or comments, please do not hesitate to contact Paul Mattesich at (760) 710-3945.

Sincerely,

Paul Mattesich Plant Manager Carlsbad Energy Center LLC

Attached: Report Certification 2SA2021 EWA Compliance Status Report for Permit 2405 Permit List for Carlsbad Energy Center Carlsbad Energy Center EWA Sampling Third Quarter 2021 Report Carlsbad Energy Center EWA Sampling Fourth Quarter 2021 Report Excel files for 3Q2021 and 4Q2021 Sample Data Carlsbad Energy Center Logbook 2021 EWA Daily Flow

Cc: File



ENCINA WASTEWATER AUTHORITY

6200 AVENIDA ENCINAS, CARLSBAD, CA 92011-0195 TEL:(760)438-3941 FAX:(760)476-9852

REPORT CERTIFICATION

I. INDUSTRIAL USER INFORMATION: Carlsbad Energy Center LLC Industrial User Name 4950 Avenida Encinas Carlsbad 92008 760-710-3945 Facility Address City Zip Code (Area Code) Phone Carlsbad Energy Center LLC Owner Paul Mattesich Plant Manager IU Contact Title City of Carlsbad 2405 Member Agency Permit

II. CERTIFICATION STATEMENT:

All applications, reports or information submitted to the Encina Wastewater Authority must include the following certification statement and be signed as required by a responsible corporate officer, President, Vice President, Manager, CEO or an authorized representative.

CERTIFICATION STATEMENT

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

13/27 CARLS BAD CITY OR COUNTY PRESIDENT/VP/GENERAL MGR/CEO (Print and sign name)

Permit List for Carlsbad Energy Center:

San Diego Air Pollution Control District: Startup Authorization APCD2014-APP-003480-003486, Issued/Revised Nov 2020, Expires August 24, 2021.

San Diego Department of Environmental Health: DEH2018-HUPFP-004698, Issued April 2021, Expires April 30, 2022

California Energy Commission: License 07-AFC-06C, Issued August 2015, Expires N/A

Encina WasteWater Authority: Permit# 2405, Issued August 2019, Expires August 1, 2023

Industrial Stormwater Permit: State Water Resources Board (SWRCB) Order 2014-0057-DWQ. Storm Water Pollution Prevention Plan dated July 2019, requires revision before July 2024.

Attachment H TLSN-3: Transmission Line Activities

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 30, 2022

Subject: CARLSBAD ENERGY CENTER COM-8 REPORT – TLSN-3: Transmission Line Activities

Through visual inspection, Carlsbad Energy Center has determined that all transmission equipment is compliance with section 2492 of the Public Resources Code and Section 1250 of Title 14 of the California Code of Regulations.

Attachment I VIS-1: Surface Treatment Summary

			ergy Center Project - Major Surface		
				2021 Maintenance	Planned 2022 Maintenance
nit	Equipment/System	Color/Finish	Current Condition	Activities	Activities
	6 Selective Catalytic Reduction	Gray	Good	None	None Planned
	6 Stack	Gray	Good	None	None Planned
	6 Intercooler	Black	Good	None	None Planned
	6 VBV Stack	Gray	Good	None	None Planned
	Combustion Turbine				
	6 Enclosure	Gray	Good	None	None Planned
				Rust Mitigation	
				Activities Completed	
	6 CT Air Inlet	Gray	Visible Rusting on West Side	for 2021	None Planned
	6 PCM	Gray	Good	None	None Planned
6/	/7 PDC	Gray	Good	None	None Planned
6/	/7 CEMS Shack	Gray	Good	None	None Planned
	7 Selective Catalytic Reduction	Gray	Good	None	None Planned
	7 Stack	Gray	Good	None	None Planned
	7 Intercooler	Black	Good	None	None Planned
	7 VBV Stack	Gray	Good	None	None Planned
	Combustion Turbine				
	7 Enclosure	Gray	Good	None	None Planned
				Rust Mitigation	
				Activities Completed	
	7 CT Air Inlet	Gray	Visible Rusting on West Side	for 2021	None Planned
	7 PCM	Gray	Good	None	None Planned
	8 Selective Catalytic Reduction	Gray	Good	None	None Planned
	8 Stack	Gray	Good	None	None Planned
	8 Intercooler	Black	Good	None	None Planned
	8 VBV Stack	Gray	Good	None	None Planned
	Combustion Turbine	Giay			
	8 Enclosure	Gray	Good	None	None Planned

				Rust Mitigation	
				Activities Completed	
8	CT Air Inlet	Gray	Visible Rusting on West Side	for 2021	None Planned
8	PCM	Gray	Good	None	None Planned
8/9	PDC	Gray	Good	None	None Planned
8/9	CEMS Shack	Gray	Good	None	None Planned
g	Selective Catalytic Reduction	Gray	Good	None	None Planned
	Stack	Gray	Good	None	None Planned
	Intercooler	Black	Good	None	None Planned
	VBV Stack	Gray	Good	None	None Planned
	Combustion Turbine				
g	Enclosure	Gray	Good	None	None Planned
				Rust Mitigation	
				Activities Completed	
9	CT Air Inlet	Gray	Visible Rusting on West Side	for 2021	None Planned
9	PCM	Gray	Good	None	None Planned
		,			
10	Selective Catalytic Reduction	Gray	Good	None	None Planned
10) Stack	Gray	Good	None	None Planned
10	Intercooler	Black	Good	None	None Planned
10	VBV Stack	Gray	Good	None	None Planned
	Combustion Turbine				
10	Enclosure	Gray	Good	None	None Planned
				Rust Mitigation	
				Activities Completed	
10	CT Air Inlet	Gray	Visible Rusting on West Side	for 2021	None Planned
10	PCM	Gray	Good	None	None Planned
10	CEMS Shack	Gray	Good	None	None Planned
10/BOP	PDC	Gray	Good	None	None Planned
BOP	Fuel Gas Compressor A	Gray	Good	None	None Planned
BOP	Fuel Gas Compressor B	Gray	Good	None	None Planned
BOP	Fuel Gas Compressor C	Gray	Good	None	None Planned
BOP	Fuel Gas Compressor D	Gray	Good	None	None Planned

BOP	Raw Water Tank	Gray	Good	None	None Planned
BOP	Demin Water Tank	Gray	Good	None	None Planned
BOP	Fire Pump Structure	Gray	Good	None	None Planned
Common	Administrative Building	Tate Olive	Good	None	None Planned
Common	Warehouse	Tate Olive	Good	None	None Planned
Common	Existing Control House	Galvanized Steel	Minor surface rust	None	None Planned
Common	Transmission Poles	Galvanized	Good	None	None Planned
Common	Transmission Conductor Lines	Non-Reflective	Good	None	None Planned
Common	Transmission Line Insulators	Non-Reflective	Good	None	None Planned
Common	Perimeter Fence	Galvanized	Good	None	None Planned

Attachment J VIS-2/VIS-3: Landscape Maintenance Summary

Carlsbad Energy Center LLC 4950 Avenida Encinas Carlsbad, CA 92008 Phone: 760-710-3970

March 30, 2022

Subject: <u>CARLSBAD ENERGY CENTER COM-8 REPORT – VIS-2/VIS-3: Landscape Maintenance</u> <u>Summary</u>

Carlsbad Energy Center contracts with Brightview for routine landscape activities. The activities include weekly maintenance for weeding services and removal of any downed branches found on the site.

Several eucalyptus trees were found to be dead or dying on the east side of the facility along the fence-line by Interstate 5. Details of these trees were sent to the California Energy Commission throughout 2020 and 2021, and approval was received by the CEC to remove and replace these trees. Carlsbad Energy Center coordinated with the landscape contractor and the designated biologist to remove several eucalyptus trees which were then replaced with African Sumac (*Rhus lancea*) trees which is a recommended species included in the CEC-approved Perimeter Landscape Screening Plan.

Attachment K WASTE-9: Waste Generation Report

Hazardous Waste 2021

NON-RCRA	codes	lbs	comments
Oily debris	352	3200	from regular operations
Used Oil	223	360	from regular operations
Oily water 25%oil	223	5560	from regular operations
Oily water 90%oil	223	930	from regular operations
Empty containers	181	10	from regular operations
Used oil filters	352	1600	from regular operations
Spent dessicant	181	13	from regular operations
Used Air Filters	352	200	from regular operations
Empty paint containers	331	25	
	TOTAL	11898	

RCRA	codes	lbs	comments
oil w/benzene	D018, 221	5920	from regular operations
oily debris w/benzene	D018, 181	680	from regular operations
filters w/benzene	D018, 352	400	from regular operations
Paint Related Debris	D001, 331	525	from regular operations
Labpack	D001, 551	20	from regular operations, expired chemical
Expired Klaraid	D002, 141	400	expired chemical
	TOTAL	7945	

Attachment L Compliance Matrix

echnical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	5			all times and, to the extent practicable, the project owner shall maintain and operate the equipment and any associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. [Rule 21 and 40 CFR §60.11]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	6			specifications submitted with the application under which this license is issued and bistrict Application Nos. 2014-APP-003480, 2014-APP-003481, 2014-APP-003482, 2014-APP-003483, 2014-APP-003484, 2014- APP-003485, 2014-APP-003486, and 2014-APP-003487. [Rule 14]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	7		Ν	equipment, with the exception of personal protective equipment requiring individual fitting and specialized training, for source testing and inspection upon request of the Air Pollution Control District. [Rule 19]	The project owner shall provide facilities, utilities, and safety equipment or source testing and inspections upon request of the District, ARB, and he Energy Commission.	N	as needed	N/A	Source Testing/Inspections	Ongoing	
AQ	11		Y	including requirements to offset, hold and retire sulfur dioxide (SO2) allowances. [40 CFR Part 73] F	The project owner shall submit to the CPM and the District the combustion turbine generator (CTG) annual SO2 emission total and SO2 allowance information demonstrating compliance with all applicable provisions of 40 CFR 73 as part of the Quarterly Operation Reports (AQ- SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	12				The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	N/A			Ongoing	
AQ	22	а			The project owner shall submit the quarterly fuel sulfur content values in he in the Quarterly Operation Reports (AQ-SC8)	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
Q	22	b	Ν	N N N	Make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	23				None required.	Ν	N/A			Ongoing	
AQ	24			the average of three subtests shall be used. For purposes of determining compliance with emission limits based on a Continuous Emission Monitoring System (CEMS),	Source tests demonstrating compliance with this condition shall be provided to the CPM and are due within the timeframes specified in Conditions AQ-57 and AQ-58. CEMS data summaries shall be submitted o the CPM as part of the Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	25			For purposes of determining compliance with emission limits based on CEMS data, all CEMS calculations, averages, and aggregates shall be performed in accordance with the CEMS protocol approved in writing by the District. [Rules 69.3, 69.3.1, 20.3(d)(1) and 40 CFR Part 60 Subpart KKKK, 40 CFR Part 60 Appendix B and F, and 40 CFR Part 75]	CEMS data summaries shall be submitted to the CPM as part of the Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	26				CEMS data summaries shall be submitted to the CPM as part of the Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	27		Y	When a combustion turbine is combusting fuel (operating), the emission concentration T of oxides of nitrogen (NOX), calculated as nitrogen dioxide (NO2), shall not exceed 2.5 c		N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	28			monoxide (CO) shall not exceed 4.0 ppmvd corrected to 15 percent oxygen, averaged c	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	29			When a combustion turbine is operating, the volatile organic compound (VOC) concentration, calculated as methane, measured in the exhaust stack, shall not exceed 2.0 ppmvd corrected to 15 percent oxygen, averaged over a one-clock-hour period, except during commissioning, startup, and shutdown periods for that turbine. For purposes of determining compliance based on the CEMS, the District approved VOC/CO surrogate relationship and the CO CEMS data averaged over a one-clock-hour period shall be used. The VOC/CO surrogate relationship shall be verified and/or modified, if necessary, based on source testing. [Rule 20.3(d)(1)]	The project owner shall provide the CEMS data, using the appropriate CO/VOC surrogate relationship, to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	30			When a combustion turbine is operating, the ammonia concentration (ammonia slip), shall not exceed 5.0 ppmvd corrected to 15 percent oxygen and averaged over a one- clock-hour period, except during commissioning, startup, and shutdown periods for that turbine. [Rule 1200]	The project owner shall provide the estimated ammonia concentrations and ammonia emissions based on the annual source test data, the CEMS data and SCR ammonia flow data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	31			When a combustion turbine is operating, the emission concentration of NOX, calculated as nitrogen dioxide (NO2), shall not exceed 42 ppmvd averaged over each one-clock-hour period and corrected to 15 percent oxygen except for startup and shutdown periods for that turbine, as defined in Rule 69.3. [Rule 69.3]	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	32			When a combustion turbine is operating with post-combustion air pollution control equipment that controls oxides of nitrogen (NOX) emissions, the emission concentration of NOX, calculated as nitrogen dioxide (NO2), shall not exceed 13.6 ppmvd averaged over each one-clock-hour period and corrected to 15 percent oxygen, except for startup and shutdown periods for that turbine, as defined in Rule 69.3.1. This limit does not apply during any period in which the facility is subject to a variance from the emission limits contained in Rule 69.3.1. [Rule 69.3.1]	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	33			control equipment that controls oxides of nitrogen (NOx) emissions, the emission	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	34			For each rolling four-unit operating hour period, average emission concentration of oxides of nitrogen (NOx) for each turbine calculated as nitrogen dioxide (NO2) in parts per million by volume dry (ppmvd) corrected to 15 percent oxygen or, alternatively, as elected by the project owner, the average NOx emission rate in pounds per megawatthour (Ib/MWh) shall not exceed an average emission concentration and emission rate averages shall be calculated in accordance with 40 CFR Section 60.4380(b)(3). The emission concentration and emission rate average sission concentration limit and emission rate limit shall be based on an average of hourly emission limits over the four-unit operating hour period including the operating-hour and three unit operating-hours immediately preceding. For any unit operating hour where multiple emission standards would apply based on load of the turbine, the applicable standard shall be the higher of the two limits. The hourly emission concentration limit and emission rate limit shall be as follows based on the load of the turbine over the four unit operating hour period: Case Emission Limit, ppmvd at 15 percent O2 Emission Limit, Ib/MWh i. All four hrs at or above 75% Load 15 0.43 ii. All four hrs below 75% Load 96 4.7 iii. Combination of hrs (a x 15+b x 96)/4 (a x 0.43+b x 4.7)/4 Where: a = the number of unit operating hrs in four hour period with all operation above 75% load and b = 4-a. The averages shall exclude all clock hours occurring before the Initial Emission Source Test but shall include emissions during all other times that the equipment is operating including, but not limited to, emissions during startup and shutdown periods. For each six-calendar-month period, emissions during startup and shutdown periods. For each six-calendar-month period, emissions during tattup and shutdown periods. For each six-calendar-month period, emissions during that the equipment is operating including, but not limited to, emissions during startup and shutdown periods. For each six-calendar-mont	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	Ζ	N/A	Quarterly	Quarterly Operation Reports	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	35		Y	The emissions of particulate matter less than or equal to ten microns in diameter (PM10) from the exhaust stacks of the combustion turbine shall not exceed 5.0 pounds per hour for each combustion turbine. [Rule 20.3(d)(1)(2)]	Source tests demonstrating compliance with this condition shall be provided to the CPM and are due within the timeframes specified in Conditions AQ-57 and AQ-58.	N	45	after	Completion of RATA/Source Tests	Ongoing	
AQ	36			The emissions of particulate matter less than or equal to ten microns in diameter (PM10) from the exhaust stacks of the combustion turbines shall not exceed 3.5 pounds per hour per turbine, averaged over all six combustion turbines, calculated as the arithmetic average of the most recent source test for each turbine. [Rule 20.3(d)(1),(2)]	Source tests demonstrating compliance with this condition shall be provided to the CPM and are due within the timeframes specified in	N	45	after	Completion of RATA/Source Tests	Ongoing	
AQ	37			The discharge of particulate matter from the exhaust stack of each combustion turbine shall not exceed 0.10 grains per dry standard cubic foot (0.23 grams/dscm) corrected to 12 percent carbon dioxide. The District may require periodic testing to verify compliance with this standard. [Rule 53]		Ν	45	after	Completion of RATA/Source Tests	Ongoing	
AQ	38			Visible emissions from the lube oil vents and the exhaust stack of each combustion turbine shall not exceed 20 percent opacity for more than three minutes in any period of 60 consecutive minutes. [Rule 50]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	39		Y	Mass emissions from each combustion turbine of oxides of nitrogen (NOx), calculated as NO2; carbon monoxide (CO); and volatile organic compounds (VOC), calculated as methane, shall not exceed the following limits, except during commissioning, startup and shutdown periods for that turbine. A one-clock-hour averaging period for these limits shall apply to CEMS data. [Rule 20.3(d)(2)] Pollutant Emission Limit, lb/hr a. NOx 9.1 b. CO 8.8 c. VOC 2.5		N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	40			Excluding any minutes that are coincident with a shutdown period, cumulative mass emissions of oxides of nitrogen (NOx), calculated as NO2; carbon monoxide (CO); and volatile organic compounds (VOC), calculated as methane, shall not exceed the following limits during any startup period, except during that turbine's commissioning period. [Rule 20.3(d)(1)]. Pollutant Emission Limit,Ib a. NOx 14.7 b. CO 7.4 c. VOC 2.0 [NOx and VOC: Rule 20.3(d)(1); CO: Rule 20.3(d)(2)]	The project owner shall submit to the CPM operating data demonstrating compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports		Petition to Amend submitted to CEC to update CO limit startup limit to 17.3 lb/hr. PTA approval Processing expected by Q321.
AQ	41			Cumulative mass emissions from each combustion turbine of oxides of nitrogen (NOx), calculated as NO2; carbon monoxide (CO); and volatile organic compounds (VOC), calculated as methane, shall not exceed the following limits during each of that turbine's shutdown periods, except during that turbine's commissioning period. [Rule 20.3(d)(1)] Pollutant Emission Limit,Ib a. NO 0.6 b. CO 3.4 c. VOC 2.4	The project owner shall provide CEMS emissions data to demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports		Petition to Amend submitted to CEC to update shutdown conditions (AQ- 14. AQ-41 and other COCs with shutdown associated language). PTA approval Processing expected by Q321.
AQ	42			Emissions of oxides of nitrogen (NOx), calculated as nitrogen dioxide (NO2), from each combustion turbine shall not exceed 90 pounds per hour measured over each one-clock-hour period. In addition, the emission concentration of NOx, calculated as NO2, from each turbine shall not exceed 100 parts per million by volume on a dry basis (ppmvd) averaged over each one-clock-hour period and corrected to 15 percent oxygen. These emission limits shall apply during all times a turbine is operating, including, but not limited to, emissions during commissioning, startup and shutdown for that turbine. [Rule 20.3(d)(2)]		N	N/A	Quarterly	Quarterly Operation Reports		
AQ	43			The carbon monoxide (CO) emissions from each combustion turbine shall not exceed 248 pounds per hour measured over each one-clock-hour period. In addition, the emission concentration of CO from each turbine shall not exceed 400 parts per million by volume on a dry basis (ppmvd) averaged over each one-clock-hour period and corrected to 15 percent oxygen. This emission limit shall apply during all times that a turbine is operating, including, but not limited to emissions during commissioning, startup and shutdown periods. [Rule 20.3(d)(2)(i)]	compliance with this condition as part of the Quarterly Operation Reports	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	

Technical	сос	Subtack [Deliverable	Description	Varification/Action/Submittel Doguized	Required Prior to	Action	Submittal	Submittal	Compliance	Commonto
Area	Number	Subtask	Req.	Description	Verification/Action/Submittal Required	Start of Construction?	Days	Timing	Trigger Event	Status	Comments
AQ	44				The project owner shall submit to the CPM and the District the facility annual operating and emissions data demonstrating compliance with this condition as part of the fourth quarter's Quarterly Operation Reports (AQ- SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
<u>AQ</u>	45			51 11	The project owner shall submit to the CPM and District the facility annual operating and emissions data demonstrating compliance with this condition as part of the fourth quarter's Quarterly Operation Reports (AQ- SC8).	Ν	N/A	4th Quarter	Quarterly Operation Reports	Ongoing	
<u>AQ</u>	46		Y		The project owner shall provide emissions summary data in compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8). The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
<u>AQ</u>	47			APCD2003-PTO-001770 and APCD2003-PTO-005238 shall not exceed any of the following mass emission limits according to the schedule based on the number of turbines that have undergone their initial startup as described in the following table:	This condition requires the existing Encina boilers and turbine to cease operations once the amended CECP is operational. The project owner shall provide emissions summary data in compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8). The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	

								r			
echnical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	48		Y	owner shall maintain records, as applicable, on a calendar monthly basis, of mass emissions during each calendar month and rolling 12-calendar-month period of NOx	The project owner shall provide emissions summary data in compliance with this condition as part of the Quarterly Operation Reports (AQ-SC8). The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	49			year shall not exceed 2,700. For the purposes of this condition, the number of	The project owner shall submit facility annual operating data demonstrating compliance with this condition as part of the fourth quarter's Quarterly Operation Reports (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	50		Y		The project owner shall submit facility annual operating data demonstrating compliance with this condition as part of the fourth quarter's Quarterly Operation Reports (AQ-SC8).	N	N/A	4th Quarter	Quarterly Operation Reports	Ongoing	
AQ	51	,	Y	commissioning period shall not exceed 350. [Rules 1200, 20.3(d)(2) and 21]	The project owner shall submit facility annual operating data demonstrating compliance with this condition as part of the fourth quarter's Quarterly Operation Reports (AQ-SC8).	N	N/A	4th Quarter	Quarterly Operation Reports	Ongoing	
AQ	53		Ν	When a combustion turbine is operating, ammonia shall be injected at all times that the associated selective catalytic reduction (SCR) system outlet temperature is 540 degrees Fahrenheit or greater. [Rule 20.3 (d)(1)]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	55		Ν	Except during periods when the ammonia injection system is being tuned or one or more ammonia injection systems is in manual control for compliance with applicable permit conditions, the automatic ammonia injection system serving the SCR system shall be in operation in accordance with manufacturer's specifications at all times when ammonia is being injected into the SCR system. Manufacturer specifications shall be maintained on site and made available to District personnel upon request. [Rule 20.3(d)(1)]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	56	а	N		The project owner shall maintain on site and provide on request of the CPM or District the ammonia delivery records that demonstrate compliance with this condition.	N	as needed	N/A	Inspections	Ongoing	
AQ	56	b	Y		Testing witnessed by the District, a proposed test protocol shall be submitted to the District for written approval at least 60 days prior to source testing.	N	60	prior to	Source Test	Ongoing	
AQ	56	с	Y		Additionally, the District shall be notified a minimum of 30 days prior to the test so that observers may be present unless otherwise authorized in writing by the District. [Rules 20.3(d)(1) and 1200 and 40 CFR Part60 Subpart KKKK and 40 CFR.	N	30	prior to	Source Test	Ongoing	
AQ	57	a	Y		The project owner shall submit to the CPM for review and the District for approval the initial source test protocol at least 60 days prior to the initial source test.	N	60	prior to	Initial Source Test	Ongoing	
AQ	57	b	Y		The project owner shall notify the CPM and District no later than 30 days prior to the proposed source test date and time.	N	30	prior to	Source Test	Ongoing	
AQ	58		Y	45 days after completion of a source test or Relative Accuracy Test Audit (RATA) performed by an independent contractor, a final test report shall be submitted to the District for review and approval. [Rules 20.3(d)(1) and 1200 and 40 CFR Part 60 Subpart KKKK, 40 CFR §60.8, and 40 CFR Part 75]	The project owner will submit all RATA or source test reports to the CPM for review and the District for approval within 45 days of the completion of those tests.	N	45	after	completion of RATA/Source Tests	Ongoing	
AQ	59		Y	All testing conducted to measure concentrations or emissions of Volatile Organic Compounds (VOCs) shall include measurement of formaldehyde and the result shall be added to the result determined for other VOC concentrations or emissions, as applicable. Measurement of VOC emissions shall be conducted in accordance with EPA Method 18, or alternative methods approved by the District and EPA. Measurement of emissions of formaldehyde shall be conducted in accordance with EPA Method 316 or 323, or an alternative method approved by the District and EPA.	The project owner shall submit to the CPM for review and the District for approval the initial source test protocol and source test report within the timeframes specified in Conditions AQ-57 and AQ-58.	Ν	60	prior to	Initial Source Test		

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	62				The project owner shall submit to the CPM for review and the District for approval the periodic RATA and source test protocols, and RATA source test reports within the timeframes specified in Conditions AQ-57 and AQ- 58.	Ν	45	after	completion of RATA/Source Tests	Ongoing	
AQ	63			Relative Accuracy Test Audit (RATAs) and all other required certification tests shall be performed and completed on the NOx CEMS in accordance with applicable provisions of 40 CFR Part 75 Appendix A and B and 40 CFR §60.4405 and on the CO CEMS in accordance with applicable provisions of 40 CFR Part 60 Appendix B and F. [Rule 21, Rule 20.3 (d)(1), 40 CFR Part 60 Subpart KKKK and 40 CFR Part 75]	The results and field data collected during source tests required by this condition shall be submitted to the CPM for review and the District for approval as required by Condition AQ-58.	Ν	45	after	completion of RATA/Source Tests	Ongoing	
AQ	65			The District may require one or more of the following compounds, or additional compounds to be quantified through source testing periodically to ensure compliance with Rule 1200 and other conditions of this permit and to quantify toxic emissions: a. Acetaldehyde b. Acrolein c. Benzene d. Formaldehyde e. Toluene f. Xylenes If the District requires the project owner to perform this source testing, the District shall request the testing in writing a reasonable period of time prior to the testing date. [Rule 1200 California H&S Code §41510]	The results and field data collected during source tests required by the District under this condition shall be submitted to the CPM for review and the District for approval within 60 days of testing.	Ν	60	after	Source Testing	Ongoing	
AQ	66			The higher heating value of the combustion turbine fuel shall be measured by ASTM D1826–94, Standard Test Method for Calorific Value of Gases in Natural Gas Range by Continuous Recording Calorimeter or ASTM D1945–96, Standard Method for Analysis of Natural Gas by Gas Chromatography or an alternative test method approved by the District and EPA. [Rules 69.3, 69.3.1, and 20.3(d)(1) and 40 CFR Part 60 Subpart KKKK, and 40 CFR Part 75]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	67		Ν		The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	90	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	68			The project owner shall comply with the applicable continuous emission monitoring requirements of 40 CFR Part 75 and 40 CFR Part 60. [40 CFR Part 75 and 40 CFR Part 60]	The project owner shall maintain a copy of the CEMS protocol required by AQ-70 on site and provide it, other CEMS data, and the CEMS for inspection on request by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	69			record the following, in accordance with the District approved CEMS protocol:	The project owner shall submit to the CPM for review and the District for approval a CEMS protocol, as required by AQ-70, which includes description of the methods of compliance with the requirements of this condition.	Ν	90	prior to	Initial Startup	Ongoing	
AQ	69		Ν		The project owner shall make the site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	72			A monitoring plan in conformance with 40 CFR 75.53 shall be submitted to U.S. EPA Region 9 and the District at least 45 calendar days prior to the Relative Accuracy Test Audit (RATA), as required in 40 CFR 75.62. [40 CFR Part 75]	The project owner shall submit to the CPM for review and the District and	Ν	45	prior to	RATA/Source Tests	Ongoing	
AQ	73			The oxides of nitrogen (NOx) and oxygen (O2) components of the CEMS shall be certified and maintained in accordance with applicable Federal Regulations including the requirements of sections 75.10 and 75.12 of title 40, Code of Federal Regulations Part 75 (40 CFR 75), the performance specifications of Appendix A of 40 CFR 75, the Quality Assurance procedures of Appendix B of 40 CFR 75 and the CEMS protocol approved by the District. The carbon monoxide (CO) components of the CEMS shall be certified and maintained in accordance with 40 CFR 60, Appendices B and F, unless otherwise specified in this permit, and the CEMS protocol approved by the District. [Rules 69.3, 69.3.1, and 20.3(d)(1) and 40 CFR Part 60 Subpart KKKK, and 40 CFR Part 75]		Ν	90	prior to	Initial Startup	Ongoing	
AQ	73		Ν		The project owner shall make the site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	74			The CEMS shall be in operation in accordance with the District approved CEMs protocol at all times when the turbine is in operation. A copy of the District approved CEMS monitoring protocol shall be maintained on site and made available to District personnel upon request. [Rules 69.3, 69.3.1, and 20.3(d)(1) and 40 CFR Part 60 Subpart KKKK, and 40 CFR Part 75]	The project owner shall make the site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	76			Any violation of any emission standard as indicated by the CEMS shall be reported to the District's compliance division within 96 hours after such occurrence. [Rule 19.2	The project owner shall notify the District regarding any emission standard violation as required in this condition and	Ν	96 hours	after	Violation of Emission Standard		
AQ	76		Y		shall document all such occurrences in each Quarterly Operation Report (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	77			The CEMS shall be maintained and operated, and reports submitted, in accordance with the requirements of rule 19.2 Sections (d), (e), (f)(1), (f)(2), (f)(3), (f)(4) and (f)(5), and a CEMS protocol approved by the District. [Rule 19.2]	The project owner shall submit to the District the CEMS reports as required in this condition and shall make the site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	

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AQ	78			Except for changes that are specified in the initial approved CEMS protocol or a subsequent revision to that protocol that is approved in advance, in writing by the District, the District shall be notified in writing at least thirty (30) calendar days prior to any planned changes made in the CEMS or Data Acquisition and Handling System (DAHS), including, but not limited to, the programmable logic controller, software which affects the value of data displayed on the CEMS/DAHS monitors with respect to the parameters measured by their respective sensing devices and any planned changes to the software that controls the ammonia flow to the SCR. Unplanned or emergency changes shall be reported within 96 hours. [Rules 69.3, 69.3.1, and 20.3(d)(1) and 40 CFR Part 60 Subpart KKKK, and 40 CFR Part 75]	The project owner shall submit to the CPM for review and the District for approval any revision to the CEMS/DAHS or ammonia flow control software, as required by this condition, to be approved in advance at least 30 days before any planned changes are made.	Ν	30	prior to	Revisions to Monitoring Software	Ongoing	
AQ	78		Ν		The project owner shall notify the District regarding any unplanned emergency changes to these software systems within 96 hours and	N	96 hours	after	Emergency Changes to Monitoring Software	Ongoing	
AQ	78		Y		shall document all such occurrences in each Quarterly Operation Report (AQ-SC8).	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	80				The project owner shall submit to the CPM the natural gas usage data from the fuel flow meters as part of the Quarterly Operation Report (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	83			Operating logs or Data Acquisition and Handling System (DAHS) records shall be maintained to record the beginning and end times and durations of all startup and shutdown periods to the nearest minute, quantity of fuel used in each clock minute, clock hour, calendar month, and 12-calendar-month period in standard cubic feet; hours of operation each day; and hours of operation during each calendar year. For purposes of this condition, the hours of turbine operation is defined as the total minutes the turbine is combusting fuel during the calendar year divided by 60 rounded to the nearest hundredth of an hour. [Rules 69.3, 69.3.1, and 20.3(d)(1) and 40 CFR Part 60 Subpart KKKK, and 40 CFR Part 75]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	87				None Required	Ν				Ongoing	
AQ	88	а		Each semiannual report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Each such semiannual compliance report shall be postmarked or delivered no later than January 30 or July 30, whichever date is the first date following the end of the semiannual reporting period. [40 CFR Part 60 Subpart KKKK and Rule 21]	The project owner shall provide the District's Compliance Division the semi-annual reports required in this condition within the due dates specified in this condition,	N	N/A	Semi-Annual	Semi-Annual Report	Ongoing	
AQ	88	b	Y		shall provide summaries of these semi-annual reports in the Quarterly Operation Reports (AQ-SC8) following each semi-annual report, and shall provide full copies of these reports to the CPM upon request.	Ν	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	89			All semiannual compliance reports shall be submitted to the District Compliance Division [40 CFR §60.7]	None required.	Ν				Ongoing	
AQ	93		Ν	This EPA certified engine shall be installed, configured, operated and maintained according to the manufacturer's emission related instructions. The owner or operator may not change any emission related settings unless those changes are permitted by the manufacturer and do not affect the engine's compliance with the emission standards to which it is certified. [40 CFR 60 subpart IIII]	The project owner shall make the site available for inspection of equipment and records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	94			The engine shall be operated exclusively during emergencies as defined in Rule 69.4.1, 40 CFR Part 60 Subpart IIII or 17 CCR §93115 as applicable, or for maintenance and testing.	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	95		Y	Engine operation for maintenance and testing purposes shall not exceed 35 hours per	The project owner shall submit to the CPM the fire pump engine operating data demonstrating compliance with this condition as part of the Quarterly Operation Report (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ	96			§93115]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	97			Visible emissions including crankcase smoke shall comply with Air Pollution Control District Rule 50. [Rule 50]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	

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Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
AQ	98		Ν		The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	99			This engine shall not operate for non-emergency use during the following periods, as applicable: A. Whenever there is any school sponsored activity, if engine is located on school grounds or B. Between 7:30 and 3:30 PM on days when school is in session, if the engine is located within 500 feet of, but not on school grounds. This condition shall not apply to an engine located at or near any school grounds that also serve as the student's place of residence. (ATCM reportable) [17 CCR §93115]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	100	a		 A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operating hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within ten calendar days. The written notification shall include the following information: A. Old meter's hour reading. B. Replacement meter's manufacturer name, model, and serial number if available and current hour reading on replacement meter. C. Copy of receipt of new meter or of installation work order. A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. [Rules 69.4.1, 17 CCR §93115, and 40 CFR Part 60 Subpart IIII] 	The project owner shall provide notification to the District as required by this condition and	Ν	10	after	Meter Replacement	Ongoing	
AQ	100	b	Ν		shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	101			The owner or operator shall conduct periodic maintenance of this engine and add-on	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	102		Ν	The owner or operator shall keep manuals of recommended maintenance as provided	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	103			The owner or operator of this engine shall maintain records of all maintenance conducted on the engine, including a description of the maintenance and date the maintenance was performed. [Rule 69.4.1 and 40 CFR Part 60 Subpart III]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	N	as needed	N/A	Inspections	Ongoing	
AQ	104		Ν	The owner or operator shall maintain documentation for all fuel deliveries identifying the fuel as CARB diesel. [Rule 69.4.1, 17 CCR §93115, and 40 CFR Part 60 Subpart IIII]	The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Ν	as needed	N/A	Inspections	Ongoing	
AQ	105				The project owner shall submit to the CPM the fire pump engine operating data demonstrating compliance with this condition as part of the Quarterly Operation Report (AQ-SC8).	N	N/A	Quarterly	Quarterly Operation Reports	Ongoing	
AQ-SC	6	а		permit modification proposed by the project owner. The project owner shall submit to the CPM any modification to any permit proposed by the District or U.S. EPA, and any	The project owner shall submit any proposed air permit modification to the CPM within five working days of its submittal either by: 1) the project owner to an agency, or 2) receipt of proposed modifications from an agency.	Ν	5	prior to	Air Permit Modification	Ongoing	
AQ-SC	6	b	Y		The project owner shall submit all modified air permits to the CPM within 15 days of receipt.	Ν	15	after	Air Permit Modification	Ongoing	

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AQ-SC	8			The project owner shall submit to the CPM Quarterly Operation Reports, following the end of each calendar quarter that include operational and emissions information as necessary to demonstrate compliance with the conditions of certification herein. The Quarterly Operation Report will specifically state that the facility meets all applicable conditions of certification or note or highlight all incidences of noncompliance.	The project owner shall submit the Quarterly Operation Reports to the CPM and District, if requested by the District, no later than 30 days following the end of each calendar quarter.	N	30	following end of quarter	Quarterly Operation Reports	Ongoing	
<u>AQ-SC</u>	9			emergency.	The project owner shall submit the Quarterly Operation Reports to the CPM and District, if requested by the District, no later than 30 days following the end of each calendar quarter that demonstrate the operating hours and provide documentation regarding declared emergency events when the gas turbines are operated between the hours of 2400 and 0600, military time.	N	30	following end of quarter	Quarterly Operation Reports	Ongoing	
BIO	1	b	Y		If a Designated Biologist needs to be replaced, the specified information of the proposed replacement must be submitted to the CPM at least ten working days prior to the termination or release of the preceding designated biologist. In an emergency, the project owner shall immediately notify the CPM to discuss the qualifications and approval of a short-term replacement while a permanent Designated Biologist is proposed to the CPM for consideration.	Ν	10	prior to	Termination of DB, CRS, PRS	Ongoing	
BIO	2	b		 5. inspect active construction areas where animals may have become trapped prior to construction commencing each day. At the end of the day, inspect for the installation of structures that prevent entrapment or allow escape during periods of construction inactivity. Periodically inspect areas with high vehicle activity (i.e., parking lots) for animals in harm's way; 6. notify the project owner and the CPM of any non-compliance with any Biological Resources Condition of Certification; 7. respond directly to inquiries of the CPM regarding biological resource issues; 8. maintain written records of the tasks specified above and those included in the BRMIMP. Summaries of these records shall be submitted in the monthly compliance report and the annual report; and 9. train the biological monitors as appropriate, and ensure their familiarity with the BRMIMP, Worker Environmental Awareness Program (WEAP) training, and all permits. 	During project operation, the Designated Biologist shall submit record summaries in the annual compliance report unless his/her duties are ceased as approved by the CPM.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
BIO	5	d	Ν		The signed training acknowledgement forms from construction shall be kept on file by the project owner for a period of at least 6 months after the start of commercial operation. During project operation, signed statements for active project operational personnel shall be kept on file for 6 months following the termination of an individual's employment.	Ν	6 months	after	Commercial Operation	Ongoing	
BIO	5	e	Ν		During project operation, signed statements for active project operational personnel shall be kept on file for six months following the termination of an individual's employment.	Ν	>180	N/A	Termination of Individual's Employment	Ongoing	
BIO	6	b	Y		If there are any permits that have not yet been received when the BRMIMP is first submitted, these permits shall be submitted to the CPM, the CDFW, and USFWS within five days of their receipt, and	Ν	5	after	Receipt of permits for BRMIMP	Ongoing	
BIO	6	С	Y		the BRMIMP shall be revised or supplemented to reflect the permit condition within ten days of their receipt by the project owner.	Ν	10	after	Receipt of permits for BRMIMP	Ongoing	
BIO	6	e	Y		The project owner shall notify the CPM no less than five working days before implementing any modifications to the approved BRMIMP to obtain CPM approval. Any changes to the approved BRMIMP must also be approved by the CPM in consultation with CDFW, the USFWS, and appropriate agencies to ensure no conflicts exist.	Ν	5	prior to	Modifications to BRMIMP	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
BIO	6	f	Y	 9. all locations on a map, at an approved scale, of sensitive biological resource areas subject to disturbance and areas requiring temporary protection and avoidance during construction; 10. aerial photographs, at an approved scale, of all areas to be disturbed during project construction activities — one set prior to any site (and related facilities) mobilization disturbance and one set subsequent to completion of project construction. Include planned timing of aerial photography and a description of why times were chosen; 11. duration for each type of monitoring and a description of monitoring methodologies and frequency; 12. performance standards to be used to help decide if/when proposed mitigation is or is not successful; 13. all performance standards and remedial measures to be implemented if performance standards are not met; 14. a preliminary discussion of biological resources related facility closure measures; 15. restoration and revegetation plan; and 16. a process for proposing plan modifications to the CPM and appropriate agencies for review and approval. 		N	N/A	Annual	Annual Compliance Report	Ongoing	
COMPLIA NCE	1		N	Unrestricted Access. The project owner shall take all steps necessary to ensure that the CPM, responsible Energy Commission staff, and delegated agencies or consultants have unrestricted access to the facility site, related facilities, project-related staff, and the records maintained to facilitate audits, surveys, inspections, and general or closure-related site visits. Although the CPM shall normally schedule site visits on dates and times agreeable to the project owner, the CPM reserves the right to make unannounced visits at any time, whether such visits are by the CPM in person or through representatives from Energy Commission staff, delegated agencies, or consultants.		N	as needed	N/A	Inspections	Ongoing	
COMPLIA NCE	2		Ν	 Compliance Record. The project owner shall maintain electronic copies of all project files and submittals on-site, or at an alternative site approved by the CPM, for the operational life and closure of the project. The files shall also contain at least one hard copy of: the facility's Application(s) for Certification; all amendment petitions and Energy Commission orders; all site-related environmental impact and survey documentation; all appraisals, assessments, and studies for the project; all finalized original and amended structural plans and "as-built" drawings for the entire project; all citations, warnings, violations, or corrective actions applicable to the project; and the most current versions of any plans, manuals and training documentation required by the conditions of certification or applicable LORS. Energy Commission staff and delegate agencies shall, upon request to the project owner, be given unrestricted access to the files maintained pursuant to this condition. 		N	as needed	N/A	Inspections	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
COMPLIA	3		Y	Compliance Verification Submittals . Verification lead times associated with the start of construction or closure may require the project owner to file submittals during the AFC process, particularly if construction is planned to commence shortly after certification. The verification procedures, unlike the conditions, may be modified as necessary by the CPM. A cover letter from the project owner or an authorized agent is required for all compliance submittals and correspondence pertaining to compliance matters. The cover letter subject line shall identify the project by AFC number, cite the appropriate condition of certification number(s), and give a brief description of the subject of the submittal. When submitting supplementary or corrected information, the project owner shall reference the date of the previous submittal and the conditions of certification applicable. All reports and plans required by the project's conditions of certification shall be submitted in a searchable electronic format (.pdf, MS Word, or Excel, etc.) and include standard formatting elements such as a table of contents, identifying by title and page number each section, table, graphic, exhibit, or addendum. All report and/or plan graphics and maps shall be adequately scaled and shall include a key with descriptive labels, directional headings, a bar scale, and the most recent revision date. The project owner is responsible for the content and delivery of all verification submittals to the CPM, whether the actions required by the verification were satisfied by the project owner or an agent of the project owner. All submittals shall be accompanied by an electronic copy on an electronic storage medium, or by e-mail, as agreed upon by the CPM. If hard-copy submittals are required, please address as follows: Compliance Project Manager Carlsbad Energy Center Project (07-AFC-6C) California Energy Commission 1516 Ninth Street (MS-2000) Sacramento, CA 95814		Ν	N/A	N/A	General compliance	Ongoing	
COMPLIA NCE	5		Y	 Compliance Matrix. The project owner shall submit a compliance matrix to the CPM A with each MCR and ACR. The compliance matrix provides the CPM with the status of all conditions of certification in a spreadsheet format. The compliance matrix shall identify: 1. the technical area (e.g., biological resources, facility design, etc.); 2. the condition number; 3. a brief description of the verification action or submittal required by the condition; 4. the date the submittal is required (e.g., sixty (60) days prior to construction, after final inspection, etc.); 5. the expected or actual submittal date; 6. the date a submittal or action was approved by the CBO, CPM, or delegate agency, if applicable; 7. the compliance status of each condition (e.g., "not started," "in progress," or "completed" (include the date); and 8. if the condition was amended, the updated language and the date the amendment was proposed or approved. The CPM can provide a template for the compliance matrix upon request. 	compliance matrix shall be submitted by the project owner to the CPM long with each monthly and annual compliance report.	Y	N/A	Annual	Annual Compliance Report	Ongoing	

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Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
COMPLIA NCE	7	a		submit searchable electronic ACRs instead of MCRs. ACRs are due for each year of commercial operation and may be required for a specified period after decommissioning to monitor closure compliance, as specified by the CPM. The searchable electronic copies may be filed on an electronic storage medium or by e-mail, subject to CPM approval. Each ACR must include the AFC number, identify the reporting period, and contain the following: 1. an updated compliance matrix showing the status of all conditions of certification (fully satisfied conditions do not need to be included in the matrix after they have been reported as completed); 2. a summary of the current project operating status and an explanation of any significant changes to facility operations during the year; 3. documents required by specific conditions to be submitted along with the ACR; each of these items shall be identified in the transmittal letter with the condition it satisfies and submitted as an attachment to the ACR; 4. a cumulative list of all post-certification changes approved by the Energy Commission or the CPM; 5. an explanation for any submittal deadlines that were missed, accompanied by an estimate of when the information will be provided; 6. a list of filings submitted to, and permits issued by, other governmental agencies during the year; 8. a list of the year's additions to the on-site compliance file; 9. an evaluation of the Site Contingency Plan, including amendments and plan updates; and 10. a list of complaints, notices of violation, official warnings, and citations received during the year, a description of how the issues were resolved, and the status of any	ACRs are due for each year of commercial operation and may be required for a specified period after decommissioning to monitor closure compliance, as specified by the CPM.	N	N/A	Annual	Annual Compliance Report	Ongoing	
COMPLIA	7	b	Y	unresolved matters.	Include an updated Provisional Closure Plan and Cost Estimate in every	N	N/A	Every 5	Annual Compliance		
NCE					fifth-year ACR for CPM review and approval.			Years	Report		
COMPLIA NCE	8			Confidential Information. Any information that the project owner designates as confidential shall be submitted to the Energy Commission's Executive Director with an application for confidentiality, pursuant to Title 20, California Code of Regulations, section 2505 (a). Any information deemed confidential pursuant to the regulations shall remain undisclosed, as provided in Title 20,		N	N/A	N/A	General compliance	Ongoing	
COMPLIA NCE	9				The initial payment is due on the date the Energy Commission dockets its final Decision. All subsequent payments are due by July 1 of each year in which the facility retains its certification.		N/A	N/A	General compliance	Ongoing	
COMPLIA	10			Amendments, Staff-Approved Project Modifications, Ownership Changes, and Verification Changes. The project owner shall petition the Energy Commission, pursuant to Title 20, California Code of Regulations, section 1769, to modify the design, operation, or performance requirements of the project or linear facilities, or to transfer ownership or operational control of the facility. The CPM will determine whether staff approval will be sufficient, or whether Commission approval will be necessary. It is the project owner's responsibility to contact the CPM to determine if a proposed project change triggers the requirements of section 1769. Section 1769 details the required contents for a Petition to Amend an Energy Commission Decision. The only change that can be requested by means of a letter to the CPM is a request to change the verification method of a condition of certification. Implementation of a project modification without first securing Energy Commission, or Energy Commission staff, approval may result in an enforcement action, including civil penalties, in accordance with section 25534 of the Public Resources Code. If the Energy Commission's rules regarding amendments are revised, the rules in effect at the time the change is requested shall apply.		Y	N/A	Prior to	Project Change on Design	Ongoing	Approved by Start of Tank Demolition Letter from CPM, received on 12-9-14 for tanks 5, 6, and 7 Demolition. Approved by Start of tank demolition 1, 2, and 4, and soil remedation letter 8-31-15.
COMPLIA NCE	11	b	Y		The project owner shall respond to all complaints within 24 hours or the next business day.	N	1	after	Complaint	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
COMPLIA NCE	11	с	Y		In addition to including all complaints, notices, and citations with the MCRs and ACRs, within ten days of receipt, the project owner shall report, and provide copies to the CPM, of all complaints, including noise and lighting complaints, notices of violation, notices of fines, official warnings, and citations.	N	N/A	Monthly	Monthly Compliance Report	Ongoing	
COMPLIA NCE	11	d	Y		In addition to including all complaints, notices, and citations with the MCRs and ACRs, within ten days of receipt, the project owner shall report, and provide copies to the CPM, of all complaints, including noise and lighting complaints, notices of violation, notices of fines, official warnings, and citations.	N	N/A	Annual	Annual Compliance Report	Ongoing	
COMPLIA NCE	11	e	Y		In addition to including all complaints, notices, and citations with the MCRs and ACRs, within ten days of receipt, the project owner shall report, and provide copies to the CPM, of all complaints, including noise and lighting complaints, notices of violation, notices of fines, official warnings, and citations.	N	10	after	Complaint	Ongoing	
COMPLIA NCE			Y	start of commercial operation (or other date agreed to by the CPM), the project owner shall submit for CPM review and approval, an Emergency Response Site Contingency Plan (Contingency Plan). The Contingency Plan shall evidence a facility's coordinated emergency response and recovery preparedness for a series of reasonably foreseeable emergency events. The CPM may require the updating of the Contingency Plan over the life of the facility. Contingency Plan elements include, but are not limited to: 1. a site-specific list and direct contact information for persons, agencies, and responders to be notified for an unanticipated event; 2. a detailed and labeled facility map, including all fences and gates, the windsock location (if applicable), the on- and off-site assembly areas, and the main roads and highways near the site; 3. a detailed and labeled map of population centers, sensitive receptors, and the nearest emergency response facilities; 4. a description of the on-site, first response and backup emergency alert and communication systems, site-specific emergency response protocols, and procedures for maintaining the facility's contingency response capabilities, including a detailed map of interior and exterior evacuation routes, and the planned location(s) of all permanent safety equipment; 5. an organizational chart including the name, contact information, and first aid/emergency response certification(s) and renewal date(s) for all personnel regularly on-site; 6. a brief description of reasonably foreseeable, site-specific incidents and accident sequences (on- and off-site), including response procedures and protocols and site security measures to maintain twenty-four-hour site security; 7. procedures for maintaining contingency response capabilities; and 8. the procedures and implementation sequence for the safe and secure shutdown of all non-critical equipment and removal of hazardous materials and waste (see also specific conditions of certification for the technical areas of Public Health, Waste Manageme	No less than 60 days prior to the start of commercial operation (or other date agreed to by the CPM), the project owner shall submit for CPM review and approval, an Emergency Response Site Contingency Plan	N	60	prior to	Commercial Operation	Ongoing	
COMPLIA NCE	13	a		project owner shall notify the CPM or compliance office manager, by telephone and e-	Within one hour after it is safe and feasible, the project owner shall notify the CPM or compliance office manager, by telephone and e-mail, of any incident at the power plant or appurtenant facilities	N	1 hour	after	Incident	Ongoing	

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COMPLIA	13	b		 Within one week of the incident, the project owner shall submit to the CPM a detailed incident report, which includes, as appropriate, the following information: 1. a brief description of the incident, including its date, time, and location; 2. a description of the cause of the incident, or likely causes if it is still under investigation; 3. the location of any off-site impacts; 4. description of emergency response actions associated with the incident; 6. identification of emergency notifications made to federal, state, and/or local agencies; 8. identification of any injuries, fatalities, or property damage that occurred as a result of the incident; 10. fines or violations assessed or being processed by other agencies; 11. name, phone number, and e-mail address of the appropriate facility contact person having knowledge of the event; and 12. corrective actions to prevent a recurrence of the incident. The project owner shall maintain all incident report for any incident, the project, owner shall submit to the CPM a detailed 	Within one week of the incident, the project owner shall submit to the CPM a detailed incident report.	N	5	after	Incident	Ongoing	
COMPLIA	14	a		unplanned, for longer than one week, but less than three months (or other CPM-	Notify the CPM (by telephone and e-mail), interested agencies, and nearby property owners of planned non-operation at least two weeks prior to the scheduled date.	Ν	10	prior to	Planned Non- Operation	Ongoing	
COMPLIA NCE	14	b	Y		Notify the CPM (by telephone and e-mail), interested agencies, and nearby property owners of unplanned non-operation shall be provided no later than one week after non-operation begins.	N	5	prior to	Unplanned Non- Operation	Ongoing	
COMPLIA NCE	14	С	Y		For any non-operation, a Repair/Restoration Plan for conducting the activities necessary to restore the facility to availability and reliable and/or improved performance shall be submitted to the CPM within one week after notice of non-operation is given.	Ν	5	after	Notice of Non- Operation	Ongoing	

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COMPLIA NCE	14	d	Y	The CPM will determine if CBO oversight or compliance site monitoring is required. Written updates to the CPM for non-operational periods, until operation resumes, shall include: 1. progress relative to the schedule; 2. developments that delayed or advanced progress or that may delay or advance future progress; 3. any public, agency, or media comments or complaints; and 4. projected date for the resumption of operation. During non-operation, all applicable conditions of certification and reporting requirements remain in effect. If, after one year from the date of the project owner's last report of productive Repair/Restoration Plan work, the facility does not resume operation or does not provide a plan to resume operation, the Executive Director may assign suspended status to the facility and recommend commencement of permanent closure activities. Within 90 days of the Executive Director's determination, the project owner shall do one of the following: 1. If the facility has a closure plan, the project owner shall update it and submit it for Energy Commission review and approval. 2. If the facility does not have a closure plan, the project owner shall develop one consistent with the requirements in this Compliance Plan and submit it for Energy Commission review and approval.	 Within 90 days of the Executive Director's determination, the project owner shall do one of the following: 1. If the facility has a closure plan, the project owner shall update it and submit it for Energy Commission review and approval. 2. If the facility does not have a closure plan, the project owner shall develop one consistent with the requirements in this Compliance Plan and submit it for Energy Commission review and approval. 	Ν	90	after	Permanent Closure	Ongoing	
COMPLIA NCE	15	a	Y	 Facility Closure Planning. To ensure that a facility's eventual permanent closure and long-term maintenance do not pose a threat to public health and safety and/or to environmental quality, the project owner shall coordinate with the Energy Commission to plan and prepare for eventual permanent closure. A. Provisional Closure Plan and Estimate of Permanent Closure Costs To assure satisfactory long-term site maintenance and adequate closure for "the whole of a project," the project owner shall submit a Provisional Closure Plan and Cost Estimate for CPM review and approval within 60 days after the start of commercial operation. The Provisional Closure Plan and Cost Estimate shall consider applicable final closure plan requirements, and reflect the use of an independent third party to carry out the permanent closure. The Provisional Closure Plan and Cost Estimate shall provide for a phased closure process and include but not be limited to: comprehensive scope of work and itemized budget; closure plan development costs; dismantling and demolition; recycling and site clean-up; mitigation and monitoring direct, indirect, and cumulative impacts; site remediation and/or restoration; interim and long term operation monitoring and maintenance, including long-term equipment replacement costs; and contingencies. The project owner shall include an updated Provisional Closure Plan and Cost Estimate shall reflect the most current regulatory standards, best management practices, and approval. Each updated 	Submit a Provisional Closure Plan and Cost Estimate for CPM review and approval within 60 days after the start of commercial operation.	Ν	60	after	Commercial Operation	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
COMPLIA NCE	15	b		At least three years prior to initiating a permanent facility closure, the project owner shall submit for Energy Commission review and approval, a Final Closure Plan and	At least three years prior to initiating a permanent facility closure, the project owner shall submit for Energy Commission review and approval, a Final Closure Plan and Cost Estimate, which includes any long-term, post- closure site maintenance and monitoring.	N	3 Years	prior to	Permanent Closure	Ongoing	
COMPLIA	15	C		 6. a schedule projecting all phases of closure activities for the power plant site and all appurtenances constructed as part of the Energy Commissioncertified project; 7. an electronic submittal package of all relevant plans, drawings, risk assessments, and maintenance schedules and/or reports, including an above- and below-ground infrastructure inventory map and registered engineer's or delegate CBO's assessment of demolishing the facility; additionally, for any facility that permanently ceased operation prior to submitting a Final Closure Plan and Cost Estimate and for which only minimal or no maintenance has been done since, a comprehensive condition report focused on identifying potential hazards; 8. all information additionally required by the facility's conditions of certification applicable to plant closure; 9. an equipment disposition plan, including: a) recycling and disposal methods for equipment and materials; and b) identification and justification for any equipment and materials that will remain onsite after closure; 10. a site disposition plan, including but not limited to: a) proposed rehabilitation, restoration, and/or remediation procedures, as required by the conditions of certification and applicable LORS; and b) site maintenance activities. 11. identification and assessment of all potential direct, indirect, and cumulative impacts and proposal of mitigation measures to reduce significant adverse impacts to a less-than-significant level; potential impacts to be considered shall include, but not be limited to: a) traffic b) noise and vibration c) soil erosion d) air quality degradation e) soid waste f) hazardous materials g) waste water discharges h) contaminated soil 		Ν				Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
COMPLIA	15	d		 12. identification of all current conditions of certification, LORS, federal, state, regional, and local planning efforts applicable to the facility, and proposed strategies for achieving and maintaining compliance during closure; 13. updated mailing list or listserv of all responsible agencies, potentially interested parties, and property owners within one mile of the facility; 14. identification of alternatives to plant closure and assessment of the feasibility and environmental impacts of these; and 15. description of and schedule for security measures and safe shutdown of all non-critical equipment and removal of hazardous materials and waste (see conditions of certification for Public Health, Waste Management, Hazardous Materials Management, and Worker Safety). If implementation of an Energy Commission-approved Final Closure Plan and Cost Estimate is not initiated within one year of its approval date, it shall be updated and resubmitted to the Commission for supplementary review and approval. If a project owner initiates but then suspends closure activities, and the suspension continues for longer than one year, or subsequently abandons the facility, the Final Closure Plan and Cost Estimate shall be resubmitted to the Commission for supplementary review and approval. The project owner remains liable for all costs of contingency planning and closure. 						Ongoing	
GEN	1	с	N		At least 30 days prior to the demolition of the EPS, the project owner shall contact the CBO to obtain the CBO's approval of the work.	Ν	30	prior to	Demolition of the EPS	Demolition Started	
HAZ	1	b	Y		and in the Annual Compliance Report.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
HAZ	8	С	Y		In the annual compliance report, the project owner shall include a statement that all current project employee and appropriate contractor background investigations have been performed, and that updated certification statements have been appended to the operations security plan. In the annual compliance report, the project owner shall include a statement that the operations security plan includes all current hazardous materials transport vendor certifications for security plans and employee background investigations.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
SOIL&WA TER	4	b	Y		The project owner shall submit to the CPM the annual water quality monitoring report required by the SDRWQCB in the annual compliance report. The project owner shall notify the CPM of all WDR Order violations, the actions taken or planned to bring the project back into compliance with the WDR Order, and the date compliance was reestablished.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
SOIL&WA TER	5	b	Y		The project owner shall submit to the CPM any water quality monitoring reports required by the City in the annual compliance report. The project owner shall notify the CPM of any violations of the permit(s) and conditions, the actions taken or planned to bring the project back into compliance with the permit(s), and the date compliance was reestablished.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
SOIL&WA TER	6	b	Y		The project owner shall provide a report on the servicing, testing, and calibration of the metering devices in the annual compliance report. The project owner shall submit a water use summary report to the CPM in the annual compliance report for the life of the project. The annual summary report shall be based on and distinguish recorded daily use and emergency uses of potable and recycled water. The report shall include calculated monthly range, monthly average, and annual use by the project in both gallons per minute and acre-feet. After the first year and for subsequent years, this information shall also include the yearly range and yearly average potable and recycled water used by the project.		N/A	Annual	Annual Compliance Report	Ongoing	
SOIL&WA TER	6	С			The project owner shall submit a petition to amend within 3 months of exceeding the maximum allowable 300 acre-feet of potable water for operational uses.	Ν	90	after	Exceeding Maximum Allowable 300 acre- Feet of Potable Water for Operational Uses	Ongoing	
SOIL&WA TER	7	b	Y		During operations, the project owner shall submit to the CPM any wastewater quality monitoring reports required by the City in the annual compliance report.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	

echnical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
OIL&WA TER	7	С	Y		The project owner shall submit any notices of violation from the City to the CPM within ten days of receipt and fully explain the corrective actions taken in the annual compliance report.	Ν	10	after	NOV	Ongoing	
OIL&WA TER	9	a	Y	Prior to transport and disposal of any facility construction or demolition-related wastewaters offsite, the project owner shall test and classify the stored wastewater to determine proper management and disposal requirements. The project owner shall provide evidence that wastewater is disposed of at an appropriately licensed facility. The project owner shall ensure that the wastewater is transported and disposed of in accordance with the wastewater's characteristics and classification and all applicable LORS (including any CCR Title 22 Hazardous Waste and Title 23 Waste Discharges to Land requirements). Where discharge of wastewater must comply with the San Diego Regional Water Quality Control Board (SDRWQCB) and State Water Resources Control Board regulatory requirements, the project owner shall submit a Report of Waste Discharge (ROWD) to the compliance project manager (CPM) and SDRWQCB for determination of which regulatory waiver or permit applies to the proposed discharges. The project owner shall pay all necessary fees for filing and review of the ROWD and all other related fees. Checks for such fees shall be submitted to the SDRWQCB and shall be payable to the State Water Resources Control Board. The project owner shall ensure compliance with the provisions of the waiver or permit applied pursuant to a National Pollutant Discharge Elimination System permit, it is the Commission's intent that the requirements of the applicable waiver or permit be enforceable by both the Commission and the SDRWQCB. In furtherance of that objective, the Commission hereby delegates the enforcement of the waiver or permit requirements, and associated monitoring, inspection, and annual fee collection authority, to the SDRWQCB. The CPM and SDRWQCB shall confer with each other and coordinate, as needed, in the enforcement of the requirements.	The project owner shall submit to the CPM copies of all relevant correspondence between the project owner and the SWRCB or SDRWQCB about the EPS demolition wastewater discharge requirements within ten days of its receipt or submittal. This information shall include copies of the Notice of Intent and Notice of Termination for the project. A letter from the SWRCB or SDRWQCB indicating that there is no requirement for the discharge of EPS demolition wastewater would satisfy this condition.	Ν	10	after	receipt or submittal of correspondence between project owner and SWRCB or SDRWQCB about the EPS demolition wastewater discharge requirements	Ongoing	
TLSN	3			The project owner shall ensure that the rights-of-way of the proposed transmission lines are kept free of combustible material, as required under the provisions of section 4292 of the Public Resources Code and section 1250 of Title 14 of the California Code of Regulations.		Ν	N/A	Annual	During the first five years of plant operation		
VIS	1	С	Y		The project owner shall provide a status report regarding surface treatment maintenance in the Annual Compliance Report. The report shall specify: a) the condition of the surfaces of all structures and buildings at the end of the reporting year; b) maintenance activities that occurred during the reporting year; and c) the schedule of maintenance activities for the next year.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
VIS	2	b	N		3. The planting must occur during the first optimal planting season following site mobilization. The project owner shall simultaneously notify the CPM and the City of Carlsbad within seven days after completing installation of the landscaping, that the landscaping is ready for inspection.	Ν	7	after	Landscaping	Ongoing	
VIS	2	С	Y		4. The project owner shall report landscape maintenance activities, including replacement of dead or dying vegetation, for the previous year of operation in each Annual Compliance Report. The City of Carlsbad, with the concurrence of the CPM, shall have authority to require replacement planting of dead or dying vegetation through the life of the project	Ν	N/A	Annual	Annual Compliance Report	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
VIS	3	В		If necessary to provide visual screening of staging activities, equipment and materials in the short term, the project owner shall provide temporary dark-colored, opaque fencing to provide visual screening until landscape screening described above has achieved sufficient maturity to provide visual screening. Existing opaque fencing shall be maintained along the Carlsbad Boulevard frontage of the EPS for the duration of construction and demolition. The project owner shall submit to the CPM for review and approval, and simultaneously to the city of Carlsbad for review and comment, a landscaping plan whose proper implementation will satisfy these requirements. The plan shall include: a) A detailed landscape, grading, and irrigation plan, at a reasonable scale. The plan shall demonstrate how the requirements stated above shall be met. The plan shall provide a detailed installation schedule demonstrating installation of as much of the landscaping as early in the construction process as is feasible in coordination with project construction. The intent of the plan shall be to minimize loss of existing perimeter tree and shrub screening, particularly at the northeast laydown site; and to provide supplemental and replacement plantings as needed to screen staging sites.		Ν			As Needed	Ongoing	
VIS	3	b		conditions) of proposed species, specifying installation sizes, growth rates, expected	3. The planting must occur during the first optimal planting season following site mobilization. The project owner shall simultaneously notify the CPM and the City of Carlsbad within seven days after completing installation of the landscaping, that the landscaping is ready for inspection.	Ν	7	after	Landscaping	Ongoing	
VIS	3	С	Y		4. The project owner shall report landscape maintenance activities, including replacement of dead or dying vegetation, for the previous year of operation in each Annual Compliance Report.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	
VIS	4	e	Y		Within 48 hours of receiving a lighting complaint, the project owner shall provide the CPM with a complaint resolution form report as specified in the Compliance General Conditions including a proposal to resolve the complaint, and a schedule for implementation.	Ν	48 hrs	within receipt	Lighting Complaint	Ongoing	
VIS	4	f	N		The project owner shall notify the CPM within 48 hours after completing implementation of the proposal.	Ν	48 hrs	within receipt	Lighting Complaint	Ongoing	
VIS	4	g	Y		A copy of the complaint resolution form report shall be submitted to the CPM within 30 days	Ν	30	after	Lighting Complaint	Ongoing	
VIS	5	a		In order to address potential cumulative visual impacts resulting from I-5 widening, the project owner shall maintain a permanent buffer zone, including the existing vegetative visual screening, on the eastern portion of the CECP site, between the existing NRG fence line and storage tank perimeter road. This measure shall be coordinated with	At the earliest feasible time, the project owner shall coordinate with	Ν	N/A	earliest feasible time	I-5 Widening DEIS	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
VIS	5	b		along the entire CECP/I-5 boundary, to accommodate replacement tree canopy of sufficient height and density as to provide substantial visual screening of the tall amended CECP features, including exhaust stacks and transmission poles; and to substantially replace any existing tree canopy on the eastern CECP boundary lost to highway expansion. The landscape buffer may occupy portions of the CECP site, the Caltrans right-of-way, or both. Wherever feasible, the landscape buffer shall maintain a minimum 20 foot width. Where infeasible, exceptions shall be approved by the CPM. The solution developed under Condition of Certification VIS-5 shall not preclude relocation or undergrounding of transmission poles or other features, if necessary to	At the earliest feasible time, the project owner shall coordinate with Caltrans to discuss specific hazard and visual mitigation strategies. The project owner shall work with Caltrans to devise a specific Cumulative Impact Mitigation Plan for accommodating hazard protection and visual screening, to be implemented at the time of I-5 widening. Following coordination and plan development with Caltrans, the project owner shall submit a draft of the Cumulative Impact Mitigation Plan to the city of Carlsbad for review and comment, and to the CPM for review and approval, at least 180 days prior to completion by Caltrans of I-5 widening in the area of the CECP boundary.	Ν	180	prior to	I-5 Widening DEIS	Ongoing	
VIS	5	С		screening on project lands transferred to Caltrans in furtherance of	The project owner shall submit any required revisions within 30 days of notification by the CPM. The project owner shall not implement the plan until receiving approval from the CPM.	Ν	30	after	Revisions to Cumulative Impact Mitigation Plan	Ongoing	
VIS	5	d	Ν		After receiving approval, the project owner shall complete implementation of the mitigation plan at the earliest feasible opportunity, but not later than 180 days after plan approval.	Ν	180	after	I-5 Widening DEIS	Ongoing	
VIS	5	е	Ν		The project owner shall notify the CPM within seven days after implementing the approved plan that the plan is ready for inspection.	Ν	7	after	Implementation of plan	Ongoing	
WASTE	9	b	Y		The project owner shall submit any required revisions to the CPM within 20 days of notification from the CPM that revisions are necessary.	Ν	20	after	Commercial Operation	Ongoing	
WASTE	9	C	Y		The project owner shall also document in each Annual Compliance Report the actual volume of wastes generated and the waste management methods used during the year; provide a comparison of the actual waste generation and management methods used to those proposed in the original Operation Waste Management Plan; and update the Operation Waste Management Plan as necessary to address current waste generation and management practices.	Ν	N/A	Annual	Annual Compliance Report	Ongoing	

Technical Area	COC Number	Subtask	Deliverable Req.	Description	Verification/Action/Submittal Required	Required Prior to Start of Construction?	Action Days	Submittal Timing	Submittal Trigger Event	Compliance Status	Comments
WASTE	11			materials, or waste are reported, cleaned up, and remediated as necessary, in accordance with all applicable federal, state, and local requirements.	The project owner shall document all unauthorized releases and spills of hazardous substances, materials, or wastes that occur on the project property or related pipeline and transmission corridors. The documentation shall include, at a minimum, the following information: location of release; date and time of release; reason for release; volume released; amount of contaminated soil/material generated; how release was managed and material cleaned up; if the release was reported; to whom the release was reported; release corrective action and cleanup requirements placed by regulating agencies; level of cleanup achieved and actions taken to prevent a similar release or spill; and disposition of any hazardous wastes and/or contaminated soils and materials that may have been generated by the release. Copies of the unauthorized spill documentation shall be provided to the CPM within 30 days of the date the release was discovered.	N	30	after	Release/Spill of Haz Mat	Ongoing	
WORKER SAFETY	7			fence line of the project at the widened I-5 Right-of-Way so as to prevent a runaway	At least 60 days prior to the start of I-5 widening activities that encroach onto the project site, the project owner shall submit a copy of the final plans for the barrier and any cost-sharing contract to the CPM for review and approval.	Ν	60	prior to	I-5 Widening	Ongoing	Dependent on CalTrans Progress

Attachment M Additions to Compliance File

2020 Additions to Compliance File
1Q2021 Air Pollution Control District Rule 19.2 Report
1Q2021 California Energy Commission Quarterly Report
1Q2021 Cylinder Gas Audit
1Q2021 Encina Waste Water Authority Sampling Event
1Q2021 EPA Electronic Data Report Feedback Report
1SA2021 Encina Wastewater Authority Semiannual
1SA2021 EPA Part 60.7 Reports
2020 Annual CEC Report submitted in 2021
2021 Annual Greenhouse Gas Submittal - CARB
2021 Annual Greenhouse Gas Submittal - CARB
2021 Annual SMARTS Report
2021 Hazardous Materials Business Plan
2Q2021 Air Pollution Control District Rule 19.2 Report
2Q2021 California Energy Commission Quarterly Report
2Q2021 Encina Waste Water Authority Sampling Event
2Q2021 EPA Electronic Data Report Feedback Report
2SA2021 Encina Wastewater Authority Semiannual
2SA2021 EPA Part 60.7 Reports
3Q2021 Air Pollution Control District Rule 19.2 Report
3Q2021 California Energy Commission Quarterly Report
3Q2021 Cylinder Gas Audit
3Q2021 Encina Waste Water Authority Sampling Event
3Q2021 EPA Electronic Data Report Feedback Report
4Q2021 Air Pollution Control District Rule 19.2 Report
4Q2021 California Energy Commission Quarterly Report
4Q2021 Cylinder Gas Audit
4Q2021 Encina Waste Water Authority Sampling Event
4Q2021 EPA Electronic Data Report Feedback Report
Department of Environmental Health Permit DEH2018-HUPFP-004698
Diesel Firepump Annual Maintenance Records
EWA flowmeter calibration records
SMARTS Ad Hoc Report - 2 Storm Events
Unit 6 Fuel Flow Meter Calibration
Unit 6 Source Test and RATA Report
Unit 7 Fuel Flow Meter Calibration
Unit 7 Source Test and RATA Report
Unit 8 Fuel Flow Meter Calibration
Unit 8 Source Test and RATA Report
Unit 9 Fuel Flow Meter Calibration
Unit 9 Source Test and RATA Report
Unit 10 Fuel Flow Meter Calibration
Unit 10 Source Test and RATA Report