

Work Orders: 7B14016

Report Date: 3/07/2017

Received Date: 2/14/2017

Project: Carlsbad Desal Plant - WEEKLY

Turnaround Time: Normal

Phones: 1(619) 487-0760

Fax:

Attn: Peter Shen

P.O. #:

Client: IDE Americas, Inc. - Carlsbad CA
4590 Carlsbad Blvd
Carlsbad, CA 92008

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Peter Shen,

Enclosed are the results of analyses for samples received 2/14/17 with the Chain-of-Custody document. The samples were received in good condition, at 1.2 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Hai Van Nguyen
Senior Project Manager





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Certificate of Analysis

FINAL REPORT

Project Number: Carlsbad Desal Plant - WEEKLY

Reported:

03/07/2017 08:42

Project Manager: Peter Shen

Sample Summary

Sample ID	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
M-001, Alias: 17-1091	Client	7B14016-01	Water	02/11/17 10:50	
M-INF, Alias: 17-1086	Client	7B14016-02	Water	02/11/17 08:40	
M-002, Alias: 17-1090	Client	7B14016-03	Water	02/11/17 08:30	

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
SM 2520B in Water		
Salinity		NELAP



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Sample Results

Sample: M-001, Alias: 17-1091
7B14016-01 (Water)

Sampled: 02/11/17 10:50 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: EPA 1664A	Batch ID: W7B1052	Prepared: 02/16/17 14:32		Analyst: joh
Oil & Grease (HEM)	2.1	1.3	5.0 mg/l	1 02/17/17 14:15
Method: SM 2520B	Batch ID: W7B0919	Prepared: 02/14/17 15:47		Analyst: dmn
Salinity	56		ppt	1 02/14/17 18:01
Method: SM 2540D	Batch ID: W7B0993	Prepared: 02/15/17 15:55		Analyst: ajk
Total Suspended Solids	17	5 mg/l	1	02/16/17 11:40



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Sample Results

(Continued)

Sample: M-INF, Alias: 17-1086
7B14016-02 (Water)

Sampled: 02/11/17 8:40 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: SM 2520B

Batch ID: W7B0919

Prepared: 02/14/17 15:47

Analyst: dmn

Salinity	33	ppt	1	02/14/17 18:01
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Sample Results

(Continued)

Sample: M-002, Alias: 17-1090
7B14016-03 (Water)

Sampled: 02/11/17 8:30 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: SM 2520B

Batch ID: W7B0919

Prepared: 02/14/17 15:47

Analyst: dmn

Salinity	36	ppt	1	02/14/17 18:01
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Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W7B0919 - SM 2520B										
Duplicate (W7B0919-DUP1)	Source: 7B14016-03			Prepared & Analyzed: 02/14/17						
Salinity	35.6		ppt		36.1			1	20	
Batch: W7B0993 - SM 2540D										
Blank (W7B0993-BLK1)				Prepared: 02/15/17 Analyzed: 02/16/17						
Total Suspended Solids	ND		mg/l							
LCS (W7B0993-BS1)				Prepared: 02/15/17 Analyzed: 02/16/17						
Total Suspended Solids	72.0		mg/l	66.3		109	90-110			
Duplicate (W7B0993-DUP1)	Source: 7A03002-01			Prepared: 02/15/17 Analyzed: 02/16/17						
Total Suspended Solids	ND		mg/l		ND				20	
Duplicate (W7B0993-DUP2)	Source: 7B13006-03			Prepared: 02/15/17 Analyzed: 02/16/17						
Total Suspended Solids	17.0		mg/l		17.0			0	20	
Batch: W7B1052 - EPA 1664A										
Blank (W7B1052-BLK1)				Prepared: 02/16/17 Analyzed: 02/17/17						
Oil & Grease (HEM)	ND	1.3	mg/l							
LCS (W7B1052-BS1)				Prepared: 02/16/17 Analyzed: 02/17/17						
Oil & Grease (HEM)	20.7	1.3	mg/l	20.0		104	78-114			
LCS (W7B1052-BS2)				Prepared: 02/16/17 Analyzed: 02/17/17						
Oil & Grease (HEM)	4.80	1.3	mg/l	5.00		96	78-114			J



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Quality Control Results

(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
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Batch: W7B1052 - EPA 1664A (Continued)

LCS Dup (W7B1052-BSD1)

Prepared: 02/16/17 Analyzed: 02/17/17

Oil & Grease (HEM)	20.8	1.3	mg/l	20.0	104	78-114	0.5	18	
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Matrix Spike (W7B1052-MS1)

Source: 7B13009-01

Prepared: 02/16/17 Analyzed: 02/17/17

Oil & Grease (HEM)	24.1	1.3	mg/l	23.3	4.50	84	78-114		
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Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.