

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> </div> <div> TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY PARAMETER MONITORING FORM 20679 </div> </div>																						
Completed by PWS (or Agent)										Completed by Laboratory												
PWS Name: Shin-Etsu Silicones of America					Laboratory Name: A&B Labs																	
PWS ID #: TX 0200619					TCEQ Lab ID #: TX275																	
PWS Address: 5650 Hwy 332 E, Freeport, TX 77541					Laboratory Address: 10100 East Frwy, Ste. 100 Houston, TX 77029																	
PWS Contact: Jeremy Vogel																						
PWS Contact Phone #: 979-230-9595 ext. 664					Laboratory Contact: Shantall Carpenter or Alisha Hughes																	
Inhibitor or Stabilizer Used (✓): <input checked="" type="checkbox"/> Phosphate <input type="checkbox"/> Silica <input type="checkbox"/> Calcium carbonate																						
TREATMENT		Alkalinity Dosage Rate:		Inhibitor Dosage Rate: 1.0 ppm		Laboratory Contact Phone #:		713-453-6060														
Sample Information										Parameters Requested: Analyses are required for the parameters checked. * If inhibitors containing phosphate or silica are used, then these parameters should also be analyzed depending on which is in use.												
Sample Type (✓): <input checked="" type="checkbox"/> Compliance <input type="checkbox"/> Non-compliance																						
Temperature and pH (Y or N): <input checked="" type="checkbox"/> Y		Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ?				<input checked="" type="checkbox"/> Y		Were temperature and pH measured in the field within 15 minutes of sample collection?														
Facility ID (e.g. DS01, PBCU001)	Sample Point ID (e.g. DSTWQP, EWQP)	Sample Location	Sample Collection		Field Measurements		Replacement? (✓)	Original Sample ID #	Original Sample Date (MMDDYY)	Lab Sample ID	Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052)	Sulfate (1055)	TDS (1930)	O-Phosphate (1044) *	Silica (1049) *
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (°C)																
pbcu001	EWQP	5650 E HWY 332, Freeport, Tx 77541	09/21/21	08:00	8.13	27.6				JE 092 2109 FCS.01	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
DS01	DSTWQP	5650 E Hwy 332, Freeport, Tx 77541	09/21/21	08:00	8.14	27.2				21091708.02	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓			
											✓	✓	✓	✓	✓	✓	✓	✓	✓			
											✓	✓	✓	✓	✓	✓	✓	✓	✓			
											✓	✓	✓	✓	✓	✓	✓	✓	✓			
											✓	✓	✓	✓	✓	✓	✓	✓	✓			

Job ID: 21091708

 09/21/2021 Shin Etsu Silicones Ameri ACH

I acknowledge that information on this form is true and correct and sites selected for sampling follow the instructions in the TCEQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurement of pH and temperature immediately upon collection. Falsification of this form or tampering with water samples is a crime punishable under state and/or federal law. (Texas Penal Code, Title 8, Chapter 37.10)

Sample Conditions Upon Receipt (✓)			
<input checked="" type="checkbox"/> Samples received unpreserved?	<input checked="" type="checkbox"/> Iced	<input checked="" type="checkbox"/> Ambient	
Rejection Code (if applicable):		Actual / Corrected sample temperature: 1.5	
Date & Time of Sample Preservation (Acidified):		Thermometer ID #: 1121	

Name of Authorized PWS Representative (Print): Lewis Segovia		Signature:		Organization: SESA		Date: 09/21/21	
Chain of Custody							
Relinquished By (Signature):		Date/Time:		Relinquished By Courier (Signature):		Date/Time:	
Received By Courier (Signature):		Date/Time:		Received By Lab (Signature):		Date/Time: 9/21/21 1234	

Laboratory Comments:

Laboratory Analysis Report

Total Number of Pages: 12

Job ID : 21091708



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :

PWS ID#:TX0200619 / Shin-Etsu Silicones of America

Report To : Client Name: Shin Etsu Silicones America P.O.#.: 40213188
Attn: Jeremy Vogel Sample Collected By: Lewis Segouia
Client Address: 5650 Hwy. 332 E. Date Collected: 09/21/21
City, State, Zip: Freeport, Texas, 77541

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
EWQP / 5650 E Hwy 332, Freeport, TX 77541	Drinking Water	21091708.01
DSTWQP / 5650 E Hwy 332, Freeport, TX 77541	Drinking Water	21091708.02

A handwritten signature in black ink, appearing to read 'S. C. L. K.'.

Released By: Senthilkumar Sevukan
Title: Vice President Operations
Date: 9/30/2021



This Laboratory is NELAP (T104704213) accredited. Effective: 04/01/2021; Expires: 3/31/2022

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 09/21/2021 12:34

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 21091708

Date: 9/30/2021

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL		

Qualifier Definition

M2	Matrix Spike and/or Matrix Spike Duplicate recovery is below laboratory control limits due to matrix interference."The sample randomly selected as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."
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**LABORATORY TEST RESULTS**

Job ID : 21091708

Date 9/30/2021

Client Name: Shin Etsu Silicones America

Attn: Jeremy Vogel

Project Name: PWS ID#:TX0200619 / Shin-Etsu Silicones of America

Client Sample ID: EWQP / 5650 E Hwy 332, Freeport, TX 77541

Job Sample ID: 21091708.01

Date Collected: 09/21/21

Sample Matrix Drinking Water

Time Collected: 08:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7									
	Calcium	29.4	mg/L	200	20			09/22/21 21:12	BDC
	Iron	BRL	mg/L	1	0.01	0.3		09/22/21 21:10	BDC
	Manganese	BRL	mg/L	1	0.01	0.05		09/28/21 14:01	BRR
	Sodium	532	mg/L	200	20			09/22/21 21:12	BDC
EPA 300.0									
	Chloride	453	mg/L	100.00	10			09/24/21 13:04	RR
	Ortho Phosphate-P	0.887	mg/L	1.00	0.1			09/22/21 02:20	RR
	Sulfate	0.147	mg/L	1.00	0.1			09/22/21 02:20	RR
SM 2320B									
	Alkalinity, as CaCO ₃ ¹	534	mg/L	1	20			09/28/21 12:05	LC
SM 2340C									
	Total Hardness	151	mg CaCO ₃ /L	1	5			09/30/21 06:39	AJ
SM 2510B									
	Conductance	2440	umho/cm	1	2			09/30/21 06:19	AJ
SM 2540C									
	TDS	1370.0	mg/L		10	500		09/22/21 15:05	LC

**LABORATORY TEST RESULTS**

Job ID : 21091708

Date 9/30/2021

Client Name: Shin Etsu Silicones America

Attn: Jeremy Vogel

Project Name: PWS ID#:TX0200619 / Shin-Etsu Silicones of America

Client Sample ID: DSTWQP / 5650 E Hwy 332, Freeport, TX 77541

Job Sample ID: 21091708.02

Date Collected: 09/21/21

Sample Matrix Drinking Water

Time Collected: 08:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7									
	Calcium	28.0	mg/L	200	20			09/22/21 21:17	BDC
	Iron	0.040	mg/L	1	0.01	0.3		09/22/21 21:15	BDC
	Manganese	BRL	mg/L	1	0.01	0.05		09/28/21 14:06	BRR
	Sodium	518	mg/L	200	20			09/22/21 21:17	BDC
EPA 300.0									
	Chloride	435	mg/L	100.00	10			09/24/21 13:28	RR
	Ortho Phosphate-P	0.639	mg/L	1.00	0.1			09/22/21 02:44	RR
	Sulfate	0.196	mg/L	1.00	0.1			09/22/21 02:44	RR
SM 2320B									
	Alkalinity, as CaCO ₃ ¹	538	mg/L	1	20			09/28/21 12:05	LC
SM 2340C									
	Total Hardness	151	mg CaCO ₃ /L	1	5			09/30/21 06:39	AJ
SM 2510B									
	Conductance	2430	umho/cm	1	2			09/30/21 06:19	AJ
SM 2540C									
	TDS	1414.0	mg/L		10	500		09/22/21 15:05	LC

QUALITY CONTROL CERTIFICATE



Job ID : 21091708

Date : 9/30/2021

Analysis : **Method :** SM 2540C **Reporting Units :** mg/L

QC Batch ID : Qb210922115 **Created Date :** 09/22/21 **Created By :** LCoku

Samples in This QC Batch : 21091708.01,02

Sample Preparation : PB21092266 **Prep Method :** SM 2540C **Prep Date :** 09/22/21 14:30 **Prep By :** LCoku

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
TDS	TDS	BRL	mg/L		10	

QC Type: Duplicate

QC Sample ID: 21091708.02

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
TDS	1420.0	1414.0	mg/L	0.4	5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TDS	500	516.0	103						80-120	

QUALITY CONTROL CERTIFICATE



Job ID : 21091708

Date : 9/30/2021

Analysis : **Method :** EPA 200.7 **Reporting Units :** mg/L

QC Batch ID : Qb21092317 **Created Date :** 09/22/21 **Created By :** BChristopher

Samples in This QC Batch : 21091708.01,02

Digestion : PB21092242 **Prep Method :** EPA 200.7 **Prep Date :** 09/22/21 13:38 **Prep By :** Mwisman

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Calcium	7440-70-2T	BRL	mg/L	1	0.1		
Iron	7439-89-6T	BRL	mg/L	1	0.01		
Manganese	7439-95-5T	BRL	mg/L	1	0.01		
Sodium	7440-23-5T	BRL	mg/L	1	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Calcium	1	1.042	104	1	1.065	107	2.1	20	85-115	
Iron	1	1.016	102	1	0.997	99.7	1.9	20	85-115	
Manganese	1	1.017	102	1	0.996	99.6	2.1	20	85-115	
Sodium	1	1.025	102	1	1.003	100	2.1	20	85-115	

QC Type: MS and MSD

QC Sample ID: 21091671.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Calcium	2.61	1	3.55	94						75-125	
Iron	0.011	1	1.020	101						75-125	
Manganese	BRL	1	0.999	99.9						75-125	
Sodium	223	1	180	-4300						75-125	M2

QUALITY CONTROL CERTIFICATE



Job ID : 21091708

Date : 9/30/2021

Analysis : **Method :** EPA 300.0 **Reporting Units :** mg/L

QC Batch ID : Qb210928121 **Created Date :** 09/22/21 **Created By :** RRaval

Samples in This QC Batch : 21091708.01,02

Sample Preparation : PB21092867 **Prep Method :** EPA 300.0 **Prep Date :** 09/21/21 12:35 **Prep By :** RRaval

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Chloride	16887-00-6	BRL	mg/L	1.00	0.1	
Ortho Phosphate-P	14265-44-2	BRL	mg/L	1.00	0.1	
Sulfate	14808-79-8	BRL	mg/L	1.00	0.1	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chloride	1	1.08	108	1	1.09	109	0.8	20	90-110	
Ortho Phosphate-P	1	1.05	105	1	1.01	101	4.2	20	90-110	
Sulfate	1	0.997	99.7	1	0.922	92.2	7.9	20	90-110	

QC Type: MS and MSD

QC Sample ID: 21091816.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chloride	3.86	1	5.00	114						80-120	
Nitrite-N	BRL	1	1.15	115						80-120	
Nitrate-N	0.259	1	1.4	114						80-120	
Ortho Phosphate-P	0.03	1	1.01	97.9						80-120	
Sulfate	0.365	1	1.46	109						80-120	

QUALITY CONTROL CERTIFICATE



Job ID : 21091708

Date : 9/30/2021

Analysis : **Method :** SM 2320B **Reporting Units :** mg/L

QC Batch ID : Qb21092869 **Created Date :** 09/28/21 **Created By :** LCoku

Samples in This QC Batch : 21091708.01,02

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Alkalinity, as CaCO ₃		BRL	mg/L	1	20	

QC Type: Duplicate

QC Sample ID: 21092215.02

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Alkalinity, as CaCO ₃	526	526		0	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Alkalinity, as CaCO ₃	1170	1208	103	1170	1201	103	0.6	20	80-120	

QUALITY CONTROL CERTIFICATE



Job ID : 21091708

Date : 9/30/2021

Analysis : **Method :** SM 2510B **Reporting Units :** umho/cm

QC Batch ID : Qb21093020 **Created Date :** 09/30/21 **Created By :** Ajohn

Samples in This QC Batch : 21091708.01,02

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Conductance		BRL	umho/cm	1	2	

QC Type: Duplicate

QC Sample ID: 21091708.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Conductance	2440	2440	umho/cm	0	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Conductance	100	100	100						90-110	

QUALITY CONTROL CERTIFICATE



Job ID : 21091708

Date : 9/30/2021

Analysis : **Method :** SM 2340C **Reporting Units :** mg CaCO3/L

QC Batch ID : Qb21093021 **Created Date :** 09/30/21 **Created By :** Ajohn

Samples in This QC Batch : 21091708.01,02

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Total Hardness		BRL	mg CaCO3/L	1	5	

QC Type: Duplicate

QC Sample ID: 21091708.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Total Hardness	151	151	mg CaCO3	0	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Total Hardness	1000	965	96.5	1000	965	96.5	0	20	80-120	



Sample Condition Checklist

A&B JobID : 21091708		Date Received : 09/21/2021		Time Received : 12:34PM	
Client Name : Shin Etsu Silicones America					
Temperature : 1.5°C		Sample pH : 7			
Thermometer ID : IR1		pH Paper ID : 93489			
Perservative :					
	Check Points	Yes	No	N/A	
1.	Cooler Seal present and signed.			X	
2.	Sample(s) in a cooler.	X			
3.	If yes, ice in cooler.	X			
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If No comment)	X			
8.	Matrix: Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other <input type="checkbox"/>				
9.	Samples were received in appropriate container(s)	X			
10.	Sample(s) were received with Proper preservative			X	
11.	All samples were tagged or labeled.	X			
12.	Sample ID labels match C-O-C ID's.	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received with in the hold time.	X			
16.	VOA vials completely filled.			X	
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	

Comments : Include actions taken to resolve discrepancies/problem:

Split and preserved into 120mL plastic with 1ml HNO3 LT#93420 on 09/21/21 @ 13:38. Je

Received by : Jedralin

Check in by/date : Jedralin / 09/21/2021

ab-s005-0321