



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by PWS (or Agent)										Completed by Laboratory																																																											
PWS Name: Shin-Etsu Silicones of America					Laboratory Name:					<b>A&amp;B Labs</b> 10100 East Freeway, Suite 100 Houston, TX 77029 TX 275 AHughes/SCarpenter/SGarza 713-453-6060																																																											
PWS ID#: TX 0200619					TCEQ Lab ID #:																																																																
PWS Address: 5650 Hwy 332 E, Freeport, TX 77541					Laboratory Address:																																																																
PWS Contact: Jeremy Vogel					Laboratory Contact:																																																																
PWS Contact Phone #: 979-230-9595 ext. 664																																																																					
Inhibitor or Stabilizer Used (✓):		Phosphate		Silica		Calcium carbonate		Laboratory Contact Phone #:																																																													
TREATMENT		Alkalinity Dosage Rate:		Inhibitor Dosage Rate:																																																																	
Sample Type (✓):		Compliance		Non-compliance							<b>Parameters Requested:</b> 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.																																																										
Temperature and pH (Y or N):		Y		Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ?		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	12/17/19	0715	7.85	17.5				19121344.01	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																																																
DS01	DSTWQP	5650 E Hwy 332, Freeport, Tx 77541	12/17/19	0715	7.9	8.0				L .02	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																																																
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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)										<b>Sample Conditions Upon Receipt (✓)</b>																																																											
Name of Authorized PWS Representative (Print): Jeremy Vogel										Signature: [Signature]										Organization: Shin-Etsu Silicones										Date: 12-17-19										Rejection Code (if applicable):										Actual / Corrected sample temperature: 6.6-25=4.1																			
Chain of Custody										Relinquished By (Signature): [Signature]										Date/Time: 12/17/19 11:00										Relinquished By Courier (Signature): [Signature]										Date/Time: 12-17-19 10:30										Date & Time of Sample Preservation (Acidified): 12-18-19 @ 10:19										Thermometer ID #: 1707629									
										Received By Courier (Signature): [Signature]										Date/Time: 12-17-11:00										Received By Lab (Signature): [Signature]										Date/Time: 12/17/19 12:33										Laboratory Comments: 10/01																			

# Laboratory Analysis Report

Total Number of Pages: 12

Job ID : 19121344



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

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

<b>Report To :</b>	Client Name:	Shin Etsu Silicones America	P.O.#.: 40213188
	Attn:	Jeremy Vogel	Sample Collected By: Jeremy Vogel
	Client Address:	5650 Hwy. 332 E.	Date Collected: 12/17/19
	City, State, Zip:	Freeport, Texas, 77541	

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

Client Sample ID	Matrix	A&B Sample ID
PBCU001 / EWQP / 5650 E. Hwy. 332, Freeport, TX 77541	Drinking Water	19121344.01
DS01 / DSTWQP / 5650 E. Hwy. 332, Freeport, TX 77541	Drinking Water	19121344.02

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

Released By: Senthilkumar Sevukan  
Title: Assistant Lab Manager  
Date: 12/27/2019

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This Laboratory is NELAP ( T104704213-19-21) accredited. Effective: 08/26/2019; Expires: 3/31/2020

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. 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.

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Date Received : 12/17/2019 12:33

# LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 19121344

Date: 12/27/2019

## 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

M6	Not calculated. Sample concentration high, more than 4X spike concentration. Control limits do not apply."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 : 19121344

Date 12/27/2019

Client Name: Shin Etsu Silicones America

Attn: Jeremy Vogel

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

Client Sample ID: PBCU001 / EWQP / 5650 E. Hwy. 332, Freeport,

Job Sample ID: 19121344.01

Date Collected: TX 77541

12/17/19

Sample Matrix Drinking Water

Time Collected: 07:15

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7									
	Calcium	27.8	mg/L	20	2			12/20/19 20:23	BDC
	Iron	1.215	mg/L	1	0.01	0.3		12/19/19 13:00	BRR
	Manganese	0.040	mg/L	1	0.01	0.05		12/19/19 13:00	BRR
	Sodium	325.0	mg/L	500	50			12/20/19 13:14	BDC
EPA 300.0									
	Chloride	184	mg/L	50.00	5			12/18/19 22:35	RR
	Sulfate	0.167	mg/L	1.00	0.1			12/19/19 12:33	RR
SM 2320B									
	Alkalinity, as CaCO <sub>3</sub> <sup>1</sup>	340	mg/L	1	20			12/24/19 14:00	LEB
SM 2340C									
	Total Hardness	116	mg CaCO <sub>3</sub> /L	1	5			12/24/19 13:15	LEB
SM 2510B									
	Conductance	1469.0	umho/cm	1	2			12/24/19 13:00	LEB
SM 2540C									
	TDS	888.0	mg/L		10	500		12/18/19 13:30	CO

**LABORATORY TEST RESULTS**

Job ID : 19121344

Date 12/27/2019

Client Name: Shin Etsu Silicones America

Attn: Jeremy Vogel

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

Client Sample ID: DS01 / DSTWQP / 5650 E. Hwy. 332, Freeport,

Job Sample ID: 19121344.02

Date Collected: TX 77541

12/17/19

Sample Matrix Drinking Water

Time Collected: 07:15

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7									
	Calcium	28.2	mg/L	20	2			12/20/19 20:24	BDC
	Iron	0.345	mg/L	1	0.01	0.3		12/19/19 13:04	BRR
	Manganese	0.011	mg/L	1	0.01	0.05		12/19/19 13:04	BRR
	Sodium	323.0	mg/L	500	50			12/20/19 13:18	BDC
EPA 300.0									
	Chloride	240	mg/L	50.00	5			12/18/19 22:56	RR
	Sulfate	0.258	mg/L	1.00	0.1			12/19/19 12:55	RR
SM 2320B									
	Alkalinity, as CaCO <sub>3</sub> <sup>1</sup>	550	mg/L	1	20			12/24/19 14:00	LEB
SM 2340C									
	Total Hardness	116	mg CaCO <sub>3</sub> /L	1	5			12/24/19 13:15	LEB
SM 2510B									
	Conductance	1478.0	umho/cm	1	2			12/24/19 13:00	LEB
SM 2540C									
	TDS	856.0	mg/L		10	500		12/18/19 13:30	CO

<sup>1</sup>-Parameter not available for accreditation

# QUALITY CONTROL CERTIFICATE



**Job ID :** 19121344

**Date :** 12/27/2019

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

**QC Batch ID :** Qb19121827 **Created Date :** 12/18/19 **Created By :** CObuekwe

**Samples in This QC Batch :** 19121344.01,02

**Sample Preparation :** PB19121822 **Prep Method :** SM 2540C **Prep Date :** 12/18/19 13:16 **Prep By :** CObuekwe

## QC Type: Method Blank

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

## QC Type: Duplicate

**QC Sample ID:** 19121303.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
TDS	190.0	192.0	mg/L	1	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	494.0	98.8						80-120	

# QUALITY CONTROL CERTIFICATE



**Job ID :** 19121344

**Date :** 12/27/2019

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

**QC Batch ID :** Qb19121917 **Created Date :** 12/18/19 **Created By :** RRaval

**Samples in This QC Batch :** 19121344.01,02

**Sample Preparation :** PB19121910 **Prep Method :** EPA 300.0 **Prep Date :** 12/18/19 14:30 **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		
Sulfate		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	0.975	97.5	1	0.938	93.8	3.8	20	90-110	
Sulfate	1	0.915	91.5	1	0.998	99.8	8.7	20	90-110	

## QC Type: MS and MSD

**QC Sample ID:** 19121289.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chloride	46.6	5	51.3	94						80-120	
Sulfate	3.05	5	8.07	100						80-120	

Refer to the Definition page for terms.

# QUALITY CONTROL CERTIFICATE



**Job ID :** 19121344

**Date :** 12/27/2019

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

**QC Batch ID :** Qb19121936 **Created Date :** 12/19/19 **Created By :** BRena

**Samples in This QC Batch :** 19121344.01,02

**Digestion :** PB19121911 **Prep Method :** EPA 200.7 **Prep Date :** 12/19/19 07:15 **Prep By :** Mwisman

## QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Calcium	7440-70-2	BRL	mg/L	1	0.1		
Iron	7439-89-6	BRL	mg/L	1	0.01		
Manganese	7439-95-5	BRL	mg/L	1	0.01		
Sodium	7440-23-5	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	1.006	101	1	1.026	103	2	20	85-115	
Iron	1	0.982	98.2	1	0.974	97.4	0.8	20	85-115	
Manganese	1	0.970	97	1	0.964	96.4	0.6	20	85-115	
Sodium	1	1.032	103	1	1.032	103	0.0	20	85-115	

## QC Type: MS and MSD

**QC Sample ID:** 19121410.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Calcium	79.7	1	N/A	N/A						75-125	M6
Iron	0.094	1	1.061	96.7						75-125	
Manganese	BRL	1	0.952	94.8						75-125	
Sodium	35.1	1	N/A	N/A						75-125	M6



# QUALITY CONTROL CERTIFICATE



**Job ID :** 19121344

**Date :** 12/27/2019

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

**QC Batch ID :** Qb19122469 **Created Date :** 12/24/19 **Created By :** LEBell

**Samples in This QC Batch :** 19121344.01,02

## QC Type: Method Blank

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

## QC Type: Duplicate

**QC Sample ID:** 19121270.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Conductance	227.6	225.3	umho/cm	1	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	100.3	100						90-110	

# QUALITY CONTROL CERTIFICATE



**Job ID :** 19121344

**Date :** 12/27/2019

**Analysis :** **Method :** SM 2340C **Reporting Units :** mg CaCO<sub>3</sub>/L

**QC Batch ID :** Qb19122473 **Created Date :** 12/24/19 **Created By :** LEBell

**Samples in This QC Batch :** 19121344.01,02

## QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Total Hardness		BRL	mg CaCO <sub>3</sub> /L	1	5	

## QC Type: Duplicate

**QC Sample ID:** 19121270.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Total Hardness	39	39	mg CaCO <sub>3</sub>	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	951	95.1	1000	951	95.1		20	80-120	

# QUALITY CONTROL CERTIFICATE



**Job ID :** 19121344

**Date :** 12/27/2019

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

**QC Batch ID :** Qb19122475 **Created Date :** 12/24/19 **Created By :** LEBell

**Samples in This QC Batch :** 19121344.01,02

## QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Alkalinity, as CaCO3		BRL	mg/L	1	20	

## QC Type: Duplicate

**QC Sample ID:** 19121270.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Alkalinity, as CaCO3	108	108		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 CaCO3	1170	1226	105	1170	1221	104	0.4	20	80-120	



## Sample Condition Checklist

A&B JobID : <b>19121344</b>		Date Received : <b>12/17/2019</b>		Time Received : <b>12:33PM</b>	
Client Name : <b>Shin Etsu Silicones America</b>					
Temperature : <b>6.6-0.5cf=6.1°C</b>		Sample pH : <b>7</b>			
Thermometer ID : <b>1707629</b>		pH Paper ID : <b>72375</b>			
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	
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 : <input checked="" type="checkbox"/> Water <input 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.	Sample(s) were received in appropriate container(s).	X			
10.	Sample(s) were received with proper preservative		X		
11.	All samples were logged 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 within the hold time.	X			
16.	VOA vials completely filled.			X	
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>					
Split and preserved with 1mL HNO3 LT#83447(12-18-19 @ 10:19); pH <2. -ANA 12-18-19.					

Received by : slee

Check in by/date : AArnett / 12/18/2019