

Final - Report Number: 190114-008
Petrochemical Manufacturing Plant
 999 Industrial Park Road
 SMITHVILLE, US 12346 USA
Sold To: C187446-11 **Ship To:** C187446-10
Representative: John Smith

Sample Number 12346-5
Date Sampled 27-Dec-2018 09:00
Date Received 30-Dec-2018
Date Completed 14-Jan-2019
Date Authorized 14-Jan-2019

Water Analysis

This sample was analyzed as received, the results being as follows:

Sampling point: Well #4C Water Sluice

Cations - Metals	Test Method: 42A	Filtered	Total
Aluminum (Al)		<0.3 mg/L	<0.3 mg/L
Barium (Ba)		0.59 mg/L	1.93 mg/L
Boron (B)		0.3 mg/L	0.3 mg/L
Cadmium (Cd)		<0.05 mg/L	<0.05 mg/L
Calcium (Ca)		310 mg/L	310 mg/L
<i>Calcium (CaCO3)</i>		770 mg/L	770 mg/L
Chromium (Cr)		<0.15 mg/L	<0.15 mg/L
Copper (Cu)		<0.3 mg/L	<0.3 mg/L
Iron (Fe)		<0.2 mg/L	1.0 mg/L
Lead (Pb)		<1.0 mg/L	<1.0 mg/L
Lithium (Li)		0.13 mg/L	0.14 mg/L
Magnesium (Mg)		120 mg/L	120 mg/L
<i>Magnesium (CaCO3)</i>		490 mg/L	490 mg/L
Manganese (Mn)		<0.05 mg/L	<0.05 mg/L
Molybdenum (Mo)		<0.4 mg/L	<0.4 mg/L
Nickel (Ni)		<0.1 mg/L	<0.1 mg/L
Phosphorus (P)		1.9 mg/L	2.0 mg/L
Potassium (K)		25 mg/L	25 mg/L
Silicon (Si)		47 mg/L	48 mg/L
<i>Silica (SiO2)</i>		100 mg/L	100 mg/L
Sodium (Na)		1600 mg/L	1600 mg/L
<i>Sodium (CaCO3)</i>		3400 mg/L	3400 mg/L
Strontium (Sr)		3.02 mg/L	3.05 mg/L
Vanadium (V)		<0.1 mg/L	<0.1 mg/L
Zinc (Zn)		<0.1 mg/L	<0.1 mg/L
<i>Total Hardness (CaCO3)</i>		1300 mg/L	1300 mg/L

Authorized by Sally Jones
Lab Manager

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Cations - Metals Test Method: 42A

	Filtered
Chloride (Cl)	2800 mg/L
Nitrite (NO ₂)	<2.0 mg/L
Bromide (Br)	2.6 mg/L
Nitrate (NO ₃)	63 mg/L
Sulfate (SO ₄)	700 mg/L
Chloride (CaCO ₃)	4000 mg/L
Nitrate (CaCO ₃)	51 mg/L
Sulfate (CaCO ₃)	730 mg/L

Alkalinity Test Method: 37C

	Total
Total Alkalinity (CaCO ₃)	150 mg/L
Phenolphthalein Alkalinity (CaCO ₃)	<10 mg/L
Bicarbonate (CaCO ₃)	150 mg/L

Phosphate Test Method: 32A

	Filtered
Inorganic Phosphate (PO ₄)	3.3 mg/L
Ortho Phosphate (PO ₄)	3.3 mg/L
Organic Phosphate (PO ₄)	1.5 mg/L
Polyphosphate (PO ₄)	<3.3 mg/L
Total Phosphate (PO ₄)	4.8 mg/L

Other Analytes

	Test Method	Total
Conductivity at 25°C	E-6641	9900 µS/cm
pH @ 25°C	E-6641	8.0 pH Units