



**Department of
Public Works**

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**RECORD OF DATA FOR THE YEAR 2010
PLANT EFFLUENT WATER ANALYSIS**

PARTS PER MILLION

<u>CHEMICAL ELEMENT</u>	<u>SYMBOL</u>	<u>MAXIMUM</u>	<u>MINIMUM</u>	<u>AVERAGE</u>
Silica	SiO ₂	11.5	5.0	8.5
Aluminum	Al	0.0171	<0.004	0.012
Calcium	Ca	41.6	15.2	24.3
Magnesium	Mg	8.3	3.3	4.9
Sulfate	SO ₄	30.0	18.6	23.5
Chloride	Cl	32.0	20.1	26.7
Iron	Fe	<0.10	<0.10	<0.10
Manganese	Mn	<0.05	<0.05	<0.05
Fluoride	F	1.71	0.14	1.05
Sodium	Na	12.2	9.5	10.5
Total Alkalinity		76	19	40
Total Hardness (EDTA)		124	55	79
Total Residue		356	140	200
Hydrogen Ion Concentration	pH	9.55	7.99	9.10
Chlorine Residual Combined	NH ₂ Cl	4.4	3.1	3.9
Phosphate	PO ₄ -P	0.97	0.64	0.82
Nitrate	NO ₃ -N	1.30	0.30	0.88

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