



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Encore Green Environmental  
**Project:** Encore Green  
**Lab ID:** C20090619-001  
**Client Sample ID:** Encore Green Tank 257691

**Report Date:** 09/22/20  
**Collection Date:** 09/15/20 12:30  
**Date Received:** 09/15/20  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Alkalinity, Total as CaCO3	6	mg/L		5		A2320 B	09/16/20 17:09 / hat
Bicarbonate as HCO3	8	mg/L		5		A2320 B	09/16/20 17:09 / hat
Chloride	8	mg/L		1		E300.0	09/18/20 20:26 / dmb
Fluoride	ND	mg/L		0.1		A4500-F C	09/18/20 12:11 / dmb
Sulfate	ND	mg/L		1		E300.0	09/18/20 20:26 / dmb
Calcium	ND	mg/L		1		E200.7	09/16/20 18:48 / meh
Magnesium	ND	mg/L		1		E200.7	09/16/20 18:48 / meh
Sodium	5	mg/L		1		E200.7	09/16/20 18:48 / meh
<b>NON-METALS</b>							
Phenolics, Total Recoverable (Distilled)	0.03	mg/L		0.01		E420.4	09/18/20 13:12 / eli-b
Cyanide, Total	ND	mg/L		0.005		Kelada-01	09/18/20 11:12 / eli-b
<b>PHYSICAL PROPERTIES</b>							
MBAS, Calculated as LAS, MW 340	ND	mg/L		0.10		A5540 C	09/17/20 12:06 / eli-b
<b>INORGANICS</b>							
Sulfide	0.10	mg/L		0.04		A4500-S D	09/16/20 14:29 / hat
Sulfide as Hydrogen Sulfide (H2S)	0.11	mg/L		0.04		A4500-S D	09/16/20 14:29 / hat
<b>PHYSICAL PROPERTIES</b>							
Conductivity @ 25 C	40	umhos/cm		5		A2510 B	09/17/20 10:47 / kjp
pH	8.45	s.u.	H	0.01		A4500-H B	09/17/20 10:47 / kjp
pH Measurement Temp	12	°C				A4500-H B	09/17/20 10:47 / kjp
Solids, Total Dissolved TDS @ 180 C	19	mg/L		10		A2540 C	09/17/20 14:25 / kjp
Sodium Adsorption Ratio (SAR)	NA	unitless		0.1		USDA20B	09/16/20 18:48 / meh
<b>NUTRIENTS</b>							
Nitrogen, Nitrite as N	ND	mg/L		0.01		A4500-NO2 B	09/17/20 11:39 / hat
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	09/18/20 12:31 / hat
Nitrogen, Ammonia as N	1.4	mg/L	D	0.5		E350.1	09/17/20 16:13 / hat
<b>METALS, TOTAL RECOVERABLE</b>							
Aluminum	ND	mg/L		0.03		E200.8	09/22/20 12:38 / jcg
Antimony	ND	mg/L		0.001		E200.8	09/22/20 12:38 / jcg
Arsenic	ND	mg/L		0.001		E200.8	09/22/20 12:38 / jcg
Barium	ND	mg/L		0.05		E200.8	09/22/20 12:38 / jcg
Beryllium	ND	mg/L		0.001		E200.8	09/22/20 12:38 / jcg
Boron	1.47	mg/L		0.05		E200.7	09/18/20 17:18 / meh
Cadmium	ND	mg/L		0.001		E200.8	09/22/20 12:38 / jcg
Chromium	ND	mg/L		0.005		E200.8	09/22/20 12:38 / jcg
Cobalt	ND	mg/L		0.005		E200.8	09/22/20 12:38 / jcg
Copper	ND	mg/L		0.005		E200.8	09/22/20 12:38 / jcg
Iron	ND	mg/L		0.02		E200.8	09/22/20 12:38 / jcg
Lead	ND	mg/L		0.001		E200.8	09/22/20 12:38 / jcg

**Report Definitions:**  
 RL - Analyte Reporting Limit  
 QCL - Quality Control Limit  
 D - Reporting Limit (RL) increased due to sample matrix  
 MCL - Maximum Contaminant Level  
 ND - Not detected at the Reporting Limit (RL)  
 H - Analysis performed past the method holding time

PRELIMINARY



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Encore Green Environmental  
**Project:** Encore Green  
**Lab ID:** C20090619-001  
**Client Sample ID:** Encore Green Tank 257691

**Report Date:** 09/22/20  
**Collection Date:** 09/15/20 12:30  
**Date Received:** 09/15/20  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL RECOVERABLE</b>							
Lithium	ND	mg/L		0.1		E200.7	09/18/20 17:18 / meh
Manganese	ND	mg/L	L	0.002		E200.8	09/22/20 12:38 / jcg
Molybdenum	ND	mg/L		0.001		E200.8	09/22/20 12:38 / jcg
Nickel	ND	mg/L		0.005		E200.8	09/22/20 12:38 / jcg
Selenium	ND	mg/L		0.001		E200.8	09/22/20 12:38 / jcg
Silver	ND	mg/L		0.001		E200.8	09/22/20 12:38 / jcg
Strontium	ND	mg/L		0.01		E200.8	09/22/20 12:38 / jcg
Thallium	ND	mg/L		0.0005		E200.8	09/22/20 12:38 / jcg
Uranium	ND	mg/L		0.0003		E200.8	09/22/20 12:38 / jcg
Vanadium	ND	mg/L		0.01		E200.8	09/22/20 12:38 / jcg
Zinc	ND	mg/L		0.01		E200.8	09/22/20 12:38 / jcg
<b>RADIONUCLIDES, TOTAL</b>							
Gross Alpha minus Rn & U	-0.03	pCi/L	U			E900.1	09/21/20 10:05 / trs
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	09/21/20 10:05 / trs
Gross Alpha minus Rn & U MDC	0.8	pCi/L				E900.1	09/21/20 10:05 / trs
<b>DATA QUALITY</b>							
Solids, Total Dissolved - Calculated	17	mg/L				A1030 E	09/21/20 10:02 / meh
A/C Balance	-1.90	%				A1030 E	09/21/20 10:02 / meh
Anions	0.35	meq/L				A1030 E	09/21/20 10:02 / meh
Cations	0.34	meq/L				A1030 E	09/21/20 10:02 / meh
Cation\Anion Balance <±0.2 meq/L Difference							
<b>ORGANIC CHARACTERISTICS</b>							
Ethylene Glycol	ND	mg/L		5.0		SW8015C	09/21/20 11:35 / eli-b
Surr: 2-Butoxyethanol	92.0	%REC		83-121		SW8015C	09/21/20 11:35 / eli-b
<b>ORGANOCHLORINE PESTICIDES</b>							
4,4'-DDD	ND	ug/L		0.010		SW8081B	09/18/20 22:01 / eli-b
4,4'-DDE	ND	ug/L		0.010		SW8081B	09/18/20 22:01 / eli-b
4,4'-DDT	ND	ug/L		0.010		SW8081B	09/18/20 22:01 / eli-b
Aldrin	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b
alpha-BHC	ND	ug/L		0.010		SW8081B	09/18/20 22:01 / eli-b
alpha-Chlordane	ND	ug/L		0.010		SW8081B	09/18/20 22:01 / eli-b
beta-BHC	ND	ug/L		0.010		SW8081B	09/18/20 22:01 / eli-b
Chlordane	ND	ug/L		0.25		SW8081B	09/18/20 22:01 / eli-b
delta-BHC	ND	ug/L		0.010		SW8081B	09/18/20 22:01 / eli-b
Dieldrin	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b
Endosulfan I	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b
Endosulfan II	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b
Endosulfan sulfate	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b
Endrin	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b
Endrin aldehyde	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b

**Report Definitions:** RL - Analyte Reporting Limit MCL - Maximum Contaminant Level  
QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)  
L - Lowest available reporting limit for the analytical method used U - Not detected at Minimum Detectable Concentration (MDC)





### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Encore Green Environmental  
**Project:** Encore Green  
**Lab ID:** C20090619-001  
**Client Sample ID:** Encore Green Tank 257691

**Report Date:** 09/22/20  
**Collection Date:** 09/15/20 12:30  
**Date Received:** 09/15/20  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
----------	--------	-------	------------	----	-------------	--------	--------------------

#### ORGANOCHLORINE PESTICIDES

Endrin ketone	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b
gamma-BHC (Lindane)	ND	ug/L		0.010		SW8081B	09/18/20 22:01 / eli-b
gamma-Chlordane	ND	ug/L		0.010		SW8081B	09/18/20 22:01 / eli-b
Heptachlor	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b
Heptachlor epoxide	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b
Methoxychlor	ND	ug/L		0.010		SW8081B	09/21/20 17:59 / eli-b
Toxaphene	ND	ug/L		1.2		SW8081B	09/18/20 22:01 / eli-b
Surr: Decachlorobiphenyl	75.0	%REC		43-130		SW8081B	09/18/20 22:01 / eli-b
Surr: Tetrachloro-m-xylene	70.0	%REC		40-110		SW8081B	09/18/20 22:01 / eli-b

- The sample extract received a Sulfuric Acid Clean-up (EPA Method 3665) and a Sulfur Clean-up (EPA Method 3660-copper) prior to analysis of analytes not removed by the procedure.

#### POLYCHLORINATED BIPHENYLS (PCBS)

Aroclor 1016	ND	ug/L		0.20		SW8082A	09/18/20 22:01 / eli-b
Aroclor 1221	ND	ug/L		0.20		SW8082A	09/18/20 22:01 / eli-b
Aroclor 1232	ND	ug/L		0.20		SW8082A	09/18/20 22:01 / eli-b
Aroclor 1242	ND	ug/L		0.20		SW8082A	09/18/20 22:01 / eli-b
Aroclor 1248	ND	ug/L		0.20		SW8082A	09/18/20 22:01 / eli-b
Aroclor 1254	ND	ug/L		0.20		SW8082A	09/18/20 22:01 / eli-b
Aroclor 1260	ND	ug/L		0.20		SW8082A	09/18/20 22:01 / eli-b
Aroclor 1262	ND	ug/L		0.20		SW8082A	09/18/20 22:01 / eli-b
Aroclor 1268	ND	ug/L		0.20		SW8082A	09/18/20 22:01 / eli-b
Surr: Decachlorobiphenyl	75.0	%REC		44-130		SW8082A	09/18/20 22:01 / eli-b
Surr: Tetrachloro-m-xylene	70.0	%REC		40-110		SW8082A	09/18/20 22:01 / eli-b

- The sample extract received a Sulfuric Acid Clean-up (EPA Method 3665) and a Sulfur Clean-up (EPA Method 3660-copper) prior to analysis.

**Report** RL - Analyte Reporting Limit  
**Definitions:** QCL - Quality Control Limit

MCL - Maximum Contaminant Level  
ND - Not detected at the Reporting Limit (RL)

PRELIMINARY