

Natural Soda, LLC

Project ID: NS002490

Sample ID: BG-11

ACZ Sample ID: **L66400-01**

Date Sampled: 06/07/21 11:05

Date Received: 06/10/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								06/15/21 9:00	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Boron, dissolved	M200.7 ICP	1	0.801			mg/L	0.03	0.1	06/17/21 18:14	jlw
Calcium, dissolved	M200.7 ICP	1	2.99			mg/L	0.1	0.5	06/17/21 18:14	jlw
Magnesium, dissolved	M200.7 ICP	1	2.03			mg/L	0.2	1	06/17/21 18:14	jlw
Potassium, dissolved	M200.7 ICP	1	1.23			mg/L	0.2	1	06/17/21 18:14	jlw
Silica, dissolved	M200.7 ICP	1	15.5			mg/L	0.2	1	06/17/21 18:14	jlw
Sodium, dissolved	M200.7 ICP	1	425			mg/L	0.2	1	06/17/21 18:14	jlw
Strontium, dissolved	M200.7 ICP	1	0.802		*	mg/L	0.009	0.045	06/17/21 18:14	jlw

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	781	H		mg/L	2	20	06/23/21 0:00	eep
Carbonate as CaCO3		1	69.1	H		mg/L	2	20	06/23/21 0:00	eep
Hydroxide as CaCO3		1	<2	UH		mg/L	2	20	06/23/21 0:00	eep
Total Alkalinity		1	850	H	*	mg/L	2	20	06/23/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.6			%			07/06/21 0:00	calc
Sum of Anions			20			meq/L			07/06/21 0:00	calc
Sum of Cations			19			meq/L			07/06/21 0:00	calc
Chloride	M300.0 - Ion Chromatography	10	64.0		*	mg/L	4	20	06/18/21 17:10	krh
Conductivity @25C	SM2510B	1	1770			umhos/cm	1	10	06/18/21 16:52	eep
Fluoride	M300.0 - Ion Chromatography	10	23.9		*	mg/L	0.5	2.5	06/18/21 17:10	krh
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		16			mg/L	0.2	5	07/06/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							06/18/21 8:30	scd
pH (lab)	SM4500H+ B									
pH		1	8.6	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	21.9			C	0.1	0.1	06/18/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	5	1050		*	mg/L	100	200	06/11/21 16:58	scd
Sodium Adsorption Ratio in Water	USGS - I1738-78		47						07/06/21 0:00	calc
Sulfate	M300.0 - Ion Chromatography	10	<4	U	*	mg/L	4	20	06/18/21 17:10	krh
TDS (calculated)	Calculation		1060			mg/L			07/06/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.99						07/06/21 0:00	calc

Natural Soda, LLC

Project ID: NS002490

Sample ID: BG-6

ACZ Sample ID: **L66400-07**

Date Sampled: 06/08/21 12:14

Date Received: 06/10/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								06/15/21 9:25	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Boron, dissolved	M200.7 ICP	1	0.785			mg/L	0.03	0.1	06/20/21 20:30	kja
Calcium, dissolved	M200.7 ICP	1	2.58			mg/L	0.1	0.5	06/20/21 20:30	kja
Magnesium, dissolved	M200.7 ICP	1	1.65			mg/L	0.2	1	06/20/21 20:30	kja
Potassium, dissolved	M200.7 ICP	1	0.90	B		mg/L	0.2	1	06/20/21 20:30	kja
Silica, dissolved	M200.7 ICP	1	17.0			mg/L	0.2	1	06/20/21 20:30	kja
Sodium, dissolved	M200.7 ICP	1	378			mg/L	0.2	1	06/20/21 20:30	kja
Strontium, dissolved	M200.7 ICP	1	0.754			mg/L	0.009	0.045	06/20/21 20:30	kja

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	678	H		mg/L	2	20	06/23/21 0:00	eep
Carbonate as CaCO3		1	68.8	H		mg/L	2	20	06/23/21 0:00	eep
Hydroxide as CaCO3		1	<2	UH		mg/L	2	20	06/23/21 0:00	eep
Total Alkalinity		1	747	H	*	mg/L	2	20	06/23/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			07/06/21 0:00	calc
Sum of Anions			17			meq/L			07/06/21 0:00	calc
Sum of Cations			17			meq/L			07/06/21 0:00	calc
Chloride	M300.0 - Ion Chromatography	10	15.1	B	*	mg/L	4	20	06/18/21 19:33	krh
Conductivity @25C	SM2510B	1	1490			umhos/cm	1	10	06/18/21 17:58	eep
Fluoride	M300.0 - Ion Chromatography	10	24.9		*	mg/L	0.5	2.5	06/18/21 19:33	krh
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		13			mg/L	0.2	5	07/06/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							06/18/21 8:51	scd
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	22.5			C	0.1	0.1	06/18/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	10	920		*	mg/L	200	400	06/11/21 17:15	scd
Sodium Adsorption Ratio in Water	USGS - I1738-78		46						07/06/21 0:00	calc
Sulfate	M300.0 - Ion Chromatography	10	<4	U	*	mg/L	4	20	06/18/21 19:33	krh
TDS (calculated)	Calculation		900			mg/L			07/06/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.02						07/06/21 0:00	calc

Natural Soda, LLC

Project ID: NS002490

Sample ID: BG-4

ACZ Sample ID: **L66400-03**

Date Sampled: 06/07/21 13:13

Date Received: 06/10/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								06/15/21 9:25	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Boron, dissolved	M200.7 ICP	1	0.757			mg/L	0.03	0.1	06/17/21 18:20	jlw
Calcium, dissolved	M200.7 ICP	1	3.13			mg/L	0.1	0.5	06/17/21 18:20	jlw
Magnesium, dissolved	M200.7 ICP	1	2.39			mg/L	0.2	1	06/17/21 18:20	jlw
Potassium, dissolved	M200.7 ICP	1	1.46			mg/L	0.2	1	06/17/21 18:20	jlw
Silica, dissolved	M200.7 ICP	1	14.7			mg/L	0.2	1	06/17/21 18:20	jlw
Sodium, dissolved	M200.7 ICP	1	413			mg/L	0.2	1	06/17/21 18:20	jlw
Strontium, dissolved	M200.7 ICP	1	0.808		*	mg/L	0.009	0.045	06/17/21 18:20	jlw

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	706	H		mg/L	2	20	06/23/21 0:00	eep
Carbonate as CaCO3		1	86.8	H		mg/L	2	20	06/23/21 0:00	eep
Hydroxide as CaCO3		1	<2	UH		mg/L	2	20	06/23/21 0:00	eep
Total Alkalinity		1	793	H	*	mg/L	2	20	06/23/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			07/06/21 0:00	calc
Sum of Anions			19			meq/L			07/06/21 0:00	calc
Sum of Cations			19			meq/L			07/06/21 0:00	calc
Chloride	M300.0 - Ion Chromatography	10	79.6		*	mg/L	4	20	06/18/21 17:45	krh
Conductivity @25C	SM2510B	1	1740			umhos/cm	1	10	06/18/21 17:20	eep
Fluoride	M300.0 - Ion Chromatography	10	22.6		*	mg/L	0.5	2.5	06/18/21 17:45	krh
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		18			mg/L	0.2	5	07/06/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							06/18/21 8:37	scd
pH (lab)	SM4500H+ B									
pH		1	8.6	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	22.6			C	0.1	0.1	06/18/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	5	1130		*	mg/L	100	200	06/11/21 17:03	scd
Sodium Adsorption Ratio in Water	USGS - I1738-78		43						07/06/21 0:00	calc
Sulfate	M300.0 - Ion Chromatography	10	<4	U	*	mg/L	4	20	06/18/21 17:45	krh
TDS (calculated)	Calculation		1020			mg/L			07/06/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.11						07/06/21 0:00	calc