

Client: Alberta Geological Survey
Report date: 3-Feb-17

WATER ANALYSIS RESULTS



Isobrine Solutions Inc.
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Isobrine ID	Client sample ID	Collected	Received	pH	Conductivity	Resistivity	$\delta^{18}\text{O}$		$\delta^2\text{H}$		$^{87}\text{Sr}/^{86}\text{Sr}$	
					$\mu\text{S}/\text{cm}$	ohm-m	% VSMOW	$\pm 1\sigma$	% VSMOW	$\pm 1\sigma$	result	$\pm 2\sigma$
IB-17-114	102/02-23-077-21W5/0		20-Sep-16	4.89	212400	0.0471	-3.0	0.07	-47	0.4	0.720372	0.0000554
IB-17-115	100/10-32-76-01W5/0		20-Sep-16	5.83	215000	0.0465	0.8	0.24	-44	0.9	0.723753	0.0000573
IB-17-116	100/12-18-063-10W5/0		22-Sep-16	7.03	91700	0.1091	-8.4	0.04	-99	0.2	0.709914	0.0000265
IB-17-117	100/08-33-066-08W5/2		22-Sep-16	5.82	198600	0.0504	1.5	0.08	-37	0.2	0.717408	0.0000634
IB-17-118	100/03-34-063-10W5/2		22-Sep-16	7.35	91900	0.1088	-8.2	0.04	-98	0.2	0.709920	0.0000191
IB-17-119	100/12-21-067-18W5/3	14-Jul-16	27-Sep-16	7.26	104500	0.0957	-10.5	0.02	-110	0.0	0.710387	0.0000416
IB-17-120	100/12-19-070-11W5/0	12-Jul-16	27-Sep-16	7.23	35900	0.2786	-12.5	0.03	-114	0.1	0.711844	0.0000572
IB-17-121	100/12-19-070-11W5/0B	12-Jul-16	27-Sep-16	7.42	35800	0.2793	-12.5	0.02	-113	0.1	0.711883	0.0000561
IB-17-122	100/09-11-061-12W5/0	13-Jul-16	27-Sep-16	6.69	191600	0.0522	5.0	0.07	-50	0.6	0.709184	0.0000449
IB-17-123	100/12-17-067-18W5/0	14-Jul-16	27-Sep-16	7.23	104500	0.0957	-10.8	0.02	-112	0.1	0.710203	0.0000045
IB-17-124	100/14-16-079-20W5/0	26-Jul-16	27-Sep-16	6.05	215600	0.0464	-0.1	0.16	-44	0.7	0.722443	0.0000300
IB-17-125	100/09-30-080-23W5/0	26-Jul-16	27-Sep-16	6.14	212600	0.0470	-0.2	0.11	-45	0.3	0.722136	0.0000450
IB-17-126	100/07-26-069-23W5/0	27-Jul-16	27-Sep-16	6.50	214600	0.0466	4.5	0.04	-44	0.4	0.728330	0.0000601
IB-17-127	103/05-05-072-23W5/2	27-Jul-16	27-Sep-16	6.26	216100	0.0463	4.3	0.10	-44	0.3	0.728983	0.0000438
IB-17-128	102/16-29-071-23W5/2	27-Jul-16	27-Sep-16	6.37	216600	0.0462	4.8	0.19	-42	0.4	0.728958	0.0000334
IB-17-129	102/10-32-064-23W5/0	28-Jul-16	27-Sep-16	7.20	61600	0.1623	-8.6	0.02	-119	0.0	0.709843	0.0000176
IB-17-152	102/14-35-052-26W4/0	29-Sep-16	29-Sep-16	6.42	152600	0.0655	-5.2	0.11	-88	0.4	0.709455	0.0000204
IB-17-153	100/07-35-052-26W4	29-Sep-16	29-Sep-16	6.26	153000	0.0654	-6.9	0.09	-97	0.3	0.708954	0.0000183
IB-17-154	100/07-35-052-26W4	29-Sep-16	29-Sep-16	6.30	153900	0.0650	-6.8	0.14	-97	0.3	0.708952	0.0000370
IB-17-156	100/11-27-064-13W5/0	4-Oct-16	4-Oct-16	7.10	84700	0.1181	-11.4	0.01	-116	0.0	0.709359	0.0000351
IB-17-157	100/02-30-017-13W5/0	4-Oct-16	4-Oct-16	6.94	149200	0.0670	-4.1	0.04	-74	0.2	0.715769	0.0000369
IB-17-158	100/02-17-071-18W5/0	4-Oct-16	4-Oct-16	6.38	182900	0.0547	-2.4	0.01	-62	0.3	0.718324	0.0000215

Oxygen and hydrogen stable isotope compositions determined on mechanically and chemically cleaned samples using a MPM-CRDS.
Standard deviations for $\delta^{18}\text{O}$ and $\delta^2\text{H}$ are equal to or better than 0.2 ‰ and 2.0 ‰, respectively ($\pm 1\sigma$).

Strontium isotope compositions determined by Thermal Ionization Mass Spectrometry (TIMS), Triton, Thermoscientific, Germany