



**December 23, 2020**

**Subject: Natural Soda LLC Nahcolite Project Permit No. M-1983-194**  
**BG-9(DS-5) GMW Post Remediation History**

The following is a chronological summary of all activities regarding the Natural Soda LLC (NS) BG-9(DS-5) groundwater monitor well (GMW) post remediation.

**11/6/2020 1745 Hours:**

Remediation of the BG-9(DS-5) groundwater monitoring well was completed.

**12/9/2020 0830 Hours through 1620 Hours:**

D&A staff travelled to NS to reinstall the nitrogen lift pump (NLP) and associated equipment into the BG-9(DS-5) GMW. At the surface, D&A attached the NLP to a 1/8" stainless steel wire rope in addition to one 1/4" nylon tube which was attached to the gas delivery connection and one 3/8" nylon tubing which was attached to the sample return side of the NLP. The NLP was then installed to a depth of 1,611.0' below ground level (BGL). The nylon tubing and wire rope were then connected to the underside of the wellhead. Prior to setting the well head down at 1445 hours, D&A ensured the NLP was functioning by circulating pressured nitrogen to test lines. It was determined to be properly functioning, evident by the strong air returned through the 3/8" sample tubing seen as bubbles when the sample tubing was submerged in water. The 1" poly access tubing was then reinstalled, and the well cap was landed on the riser. A final test of the NLP was performed post landing and strong bubbles were once again observed from sample side. The pressure transducer was reinstalled in the well casing prior to leaving location.

**12/10/2020**

NS laboratory staff sampled the BG-9(DS-5) GMW for both NS field constituents (see below) and secured water samples for an ACZ Laboratories major constituent's test (NS-2GW, 3 bottle set). The NS field constituent's values were reported to D&A post analysis.

**12/15/2020**

NS laboratory staff sampled the BG-9(DS-5) GMW for NS field constituents (see below) and reported the values to D&A post analysis.

**12/21/2020**

NS laboratory staff sampled the BG-9(DS-5) GMW for NS field constituents (see below) and reported the values to D&A post analysis.

**NS Field Monitored Constituents:**

01) DTW (Depth to Water Level) (ft.)	02) Temperature (°C)"	03) pH (units)
04) Conductivity (mS/cm) & (µmhos)	05) TDS (Calculated) (PPT) & (PPM)	06) Alkalinity (%) & (PPM)
07) Carbonate (%) & (PPM)	08) Bicarbonate (%) & (PPM)	09) Total Bicarb (GPL)
10) Chloride (%) & (PPM)		



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**File**

NS GMW BG-9(DS-5) (NS Field Data Collection)										
Date	DTW (Distance to Water Level) (ft.)	Temperature (°C)	pH (units)	Conductivity (µmhos)	TDS (Calculated) (PPM)	Alkalinity (PPM)	Carbonate (PPM)	Bicarbonate (PPM)	Total Bicarb (GPL)	Chloride (PPM)
12/10/2020	532.5	13.0	8.76	30,220	19,300	25,300	3,100	22,800	28	5,300
12/15/2020	523.8	12.7	8.85	32,230	20,600	28,100	3,300	24,600	30	4,400
12/21/2020	525.7	12.4	8.97	32,130	20,600	28,700	3,100	24,600	30	4,700