

BONDIT B-755 Anion/Cation – Matrix DI Water, 85°C>500hr

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 6010B	24-Apr-08	25-Apr-08	8041838	JMN
7429-90-5	Aluminum	BRL		mg/l	0.0310	1	"	"	"	"	"
7440-39-3	Barium	BRL		mg/l	0.0100	1	"	"	"	"	"
7440-70-2	Calcium	BRL		mg/l	0.200	1	"	"	25-Apr-08	"	SA
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	25-Apr-08	"	JMN
7440-60-8	Copper	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-89-8	Iron	0.0348		mg/l	0.0300	1	"	"	25-Apr-08	"	SA
7440-09-7	Potassium	1.82		mg/l	1.00	1	"	"	25-Apr-08	"	JMN
7439-93-2	Lithium	BRL		mg/l	0.0125	1	"	"	"	"	"
7439-95-4	Magnesium	BRL		mg/l	0.0200	1	"	"	25-Apr-08	"	SA
7439-96-5	Manganese	BRL		mg/l	0.0060	1	"	"	25-Apr-08	"	JMN
7439-98-7	Molybdenum	BRL		mg/l	0.0100	1	"	"	"	"	"
7440-23-5	Sodium	BRL		mg/l	0.500	1	"	"	"	"	"
7440-02-0	Nickel	BRL		mg/l	0.0100	1	"	"	"	"	"
	Silicon	BRL		mg/l	1.00	1	"	"	"	"	"
7440-31-5	Tin	BRL		mg/l	0.0100	1	"	"	25-Apr-08	"	SA
7440-24-8	Strontium	BRL		mg/l	0.0100	1	"	"	25-Apr-08	"	JMN
7440-66-8	Zinc	0.0289		mg/l	0.0110	1	"	"	"	"	"
General Chemistry Parameters											
	Phosphorus as PO ₄	0.18		mg/l	0.02	1	ASTM D515-88(A)	26-Apr-08	26-Apr-08	8042324	RD
24959-67-9	Bromide	0.110		mg/l	0.100	1	EPA 300.0	18-Apr-08	19-Apr-08	8041837	Jol
16887-00-6	Chloride	3.22		mg/l	1.00	1	"	"	"	"	"
16884-48-8	Fluoride	BRL		mg/l	0.100	1	"	"	"	"	"
14808-79-8	Sulfate as SO ₄	BRL		mg/l	1.00	1	"	"	"	"	"

Notes and Definitions

BRL Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

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