Success Through Science®

Your P.O. #: 208977
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-01-05B

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/01/09
Report #: R1778057
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B500635
Received: 2015/01/06, 09:40

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	2	2015/01/06	2015/01/07	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	2	N/A	2015/01/07	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	2	N/A	2015/01/07	BBY6SOP-00026	SM 22 2510 B m
Fluoride	2	N/A	2015/01/07	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	2	N/A	2015/01/08	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	2	N/A	2015/01/07	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	2	N/A	2015/01/08	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	2	N/A	2015/01/07	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	2	N/A	2015/01/07	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	2	N/A	2015/01/07	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	2	N/A	2015/01/07	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	2	N/A	2015/01/07	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	2	N/A	2015/01/07	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	2	N/A	2015/01/07	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	2	N/A	2015/01/07	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	2	2015/01/06	2015/01/07	BBY6SOP-00033	SM 22 2540 C m

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

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Site Location: YUKON
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Report Date: 2015/01/09
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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B500635
Received: 2015/01/06, 09:40

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
This report has been generated and distributed using a secure automated process.
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Maxxam Job #: B500635
Report Date: 2015/01/09

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LL7218	LL7219		
Sampling Date		2015/01/01 10:35	2015/01/01 11:10		
COC Number		2015-01-05B	2015-01-05B		
	Units	MW12-05-01	MW12-05-03	RDL	QC Batch
ANIONS					
Nitrite (N)	mg/L	0.0608 (1)	0.0345 (1)	0.0050	7772090
Calculated Parameters					
Filter and HNO3 Preservation	N/A	FIELD	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.020	<0.020	0.020	7770769
Misc. Inorganics					
Fluoride (F)	mg/L	1.10	1.20	0.010	7772023
Alkalinity (Total as CaCO3)	mg/L	176	273	0.50	7771151
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	7771151
Bicarbonate (HCO3)	mg/L	214	333	0.50	7771151
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	7771151
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	7771151
Anions					
Dissolved Sulphate (SO4)	mg/L	757	756	5.0	7772414
Dissolved Chloride (Cl)	mg/L	13	8.7	0.50	7772413
Nutrients					
Total Ammonia (N)	mg/L	0.16	0.058	0.0050	7772079
Nitrate plus Nitrite (N)	mg/L	0.081 (1)	0.046 (1)	0.020	7772089
Physical Properties					
Conductivity	uS/cm	1700	1780	1.0	7771153
pH	pH	8.01	8.00	N/A	7771154
Physical Properties					
Total Dissolved Solids	mg/L	1290	1350	10	7771196

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample arrived to laboratory past recommended hold time.

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Maxxam Job #: B500635
Report Date: 2015/01/09

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		LL7218	LL7219		
Sampling Date		2015/01/01 10:35	2015/01/01 11:10		
COC Number		2015-01-05B	2015-01-05B		
	Units	MW12-05-01	MW12-05-03	RDL	QC Batch
Misc. Inorganics					
Dissolved Hardness (CaCO3)	mg/L	698	822	0.50	7770731
Elements					
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	0.010	7771871
Dissolved Metals by ICPMS					
Dissolved Aluminum (Al)	ug/L	8.3	8.3	3.0	7771121
Dissolved Antimony (Sb)	ug/L	<0.50	0.54	0.50	7771121
Dissolved Arsenic (As)	ug/L	0.70	0.35	0.10	7771121
Dissolved Barium (Ba)	ug/L	58.5	56.8	1.0	7771121
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	7771121
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	7771121
Dissolved Boron (B)	ug/L	121	137	50	7771121
Dissolved Cadmium (Cd)	ug/L	<0.010	0.011	0.010	7771121
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	7771121
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	7771121
Dissolved Copper (Cu)	ug/L	0.48	0.36	0.20	7771121
Dissolved Iron (Fe)	ug/L	22.0	2970	5.0	7771121
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	0.20	7771121
Dissolved Lithium (Li)	ug/L	7.0	6.5	5.0	7771121
Dissolved Manganese (Mn)	ug/L	104	2150	1.0	7771121
Dissolved Molybdenum (Mo)	ug/L	<1.0	2.7	1.0	7771121
Dissolved Nickel (Ni)	ug/L	<1.0	1.2	1.0	7771121
Dissolved Phosphorus (P)	ug/L	11	<10	10	7771121
Dissolved Selenium (Se)	ug/L	0.58	<0.10	0.10	7771121
Dissolved Silicon (Si)	ug/L	7710	7960	100	7771121
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	7771121
Dissolved Strontium (Sr)	ug/L	6200	8160	1.0	7771121
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7771121
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	7771121
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	7771121
Dissolved Uranium (U)	ug/L	0.91	1.24	0.10	7771121
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	7771121
Dissolved Zinc (Zn)	ug/L	<5.0	6.7	5.0	7771121
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	0.50	7771121
Dissolved Calcium (Ca)	mg/L	228	213	0.050	7770732
RDL = Reportable Detection Limit					

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MINTO EXPLORATIONS LTD.
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Site Location: YUKON
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CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		LL7218	LL7219		
Sampling Date		2015/01/01 10:35	2015/01/01 11:10		
COC Number		2015-01-05B	2015-01-05B		
	Units	**MW12-05-01**	**MW12-05-03**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	31.2	70.5	0.050	7770732
Dissolved Potassium (K)	mg/L	3.04	3.82	0.050	7770732
Dissolved Sodium (Na)	mg/L	123	106	0.050	7770732
Dissolved Sulphur (S)	mg/L	251	251	3.0	7770732
RDL = Reportable Detection Limit					

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GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample containers and preservation received were not in compliance. Maxxam added HCl to stabilize Mercury in these samples prior to analysis.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
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			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7771121	Dissolved Aluminum (Al)	2015/01/07	115	80 - 120	117	80 - 120	<3.0	ug/L	NC	20
7771121	Dissolved Antimony (Sb)	2015/01/07	108	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
7771121	Dissolved Arsenic (As)	2015/01/07	107	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
7771121	Dissolved Barium (Ba)	2015/01/07	104	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
7771121	Dissolved Beryllium (Be)	2015/01/07	103	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
7771121	Dissolved Bismuth (Bi)	2015/01/07	104	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
7771121	Dissolved Boron (B)	2015/01/07					<50	ug/L	NC	20
7771121	Dissolved Cadmium (Cd)	2015/01/07	105	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
7771121	Dissolved Chromium (Cr)	2015/01/07	103	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
7771121	Dissolved Cobalt (Co)	2015/01/07	104	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
7771121	Dissolved Copper (Cu)	2015/01/07	106	80 - 120	102	80 - 120	<0.20	ug/L		
7771121	Dissolved Iron (Fe)	2015/01/07	110	80 - 120	109	80 - 120	<5.0	ug/L	NC	20
7771121	Dissolved Lead (Pb)	2015/01/07	101	80 - 120	97	80 - 120	<0.20	ug/L	NC	20
7771121	Dissolved Lithium (Li)	2015/01/07	102	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
7771121	Dissolved Manganese (Mn)	2015/01/07	104	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
7771121	Dissolved Molybdenum (Mo)	2015/01/07	110	80 - 120	106	80 - 120	<1.0	ug/L	NC	20
7771121	Dissolved Nickel (Ni)	2015/01/07	104	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
7771121	Dissolved Phosphorus (P)	2015/01/07					<10	ug/L	NC	20
7771121	Dissolved Selenium (Se)	2015/01/07	103	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
7771121	Dissolved Silicon (Si)	2015/01/07					<100	ug/L	NC	20
7771121	Dissolved Silver (Ag)	2015/01/07	110	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
7771121	Dissolved Strontium (Sr)	2015/01/07	101	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
7771121	Dissolved Thallium (Tl)	2015/01/07	103	80 - 120	99	80 - 120	<0.050	ug/L	NC	20
7771121	Dissolved Tin (Sn)	2015/01/07	106	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
7771121	Dissolved Titanium (Ti)	2015/01/07	104	80 - 120	107	80 - 120	<5.0	ug/L	NC	20
7771121	Dissolved Uranium (U)	2015/01/07	104	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
7771121	Dissolved Vanadium (V)	2015/01/07	102	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
7771121	Dissolved Zinc (Zn)	2015/01/07	101	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
7771121	Dissolved Zirconium (Zr)	2015/01/07					<0.50	ug/L	NC	20
7771151	Alkalinity (PP as CaCO3)	2015/01/06					<0.50	mg/L		
7771151	Alkalinity (Total as CaCO3)	2015/01/07	100	80 - 120	96	80 - 120	<0.50	mg/L	NC	20
7771151	Bicarbonate (HCO3)	2015/01/06					<0.50	mg/L		

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Maxxam Job #: B500635
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QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7771151	Carbonate (CO3)	2015/01/06					<0.50	mg/L		
7771151	Hydroxide (OH)	2015/01/06					<0.50	mg/L		
7771153	Conductivity	2015/01/07			100	80 - 120	1.1, RDL=1.0	uS/cm	0	20
7771154	pH	2015/01/07			101	97 - 103			0	N/A
7771196	Total Dissolved Solids	2015/01/07	101	80 - 120	90	80 - 120	<10	mg/L	2.9	20
7771871	Dissolved Mercury (Hg)	2015/01/07	81	80 - 120	90	80 - 120	<0.010	ug/L	NC	20
7772023	Fluoride (F)	2015/01/07	NC	80 - 120	96	80 - 120	<0.010	mg/L	0	20
7772079	Total Ammonia (N)	2015/01/07	100	80 - 120	96	80 - 120	<0.0050	mg/L	NC	20
7772089	Nitrate plus Nitrite (N)	2015/01/07	101	80 - 120	107	80 - 120	<0.020	mg/L	NC	25
7772090	Nitrite (N)	2015/01/07	100	80 - 120	98	80 - 120	<0.0050	mg/L	4.1	20
7772413	Dissolved Chloride (Cl)	2015/01/07	NC	80 - 120	98	80 - 120	<0.50	mg/L	0.36	20
7772414	Dissolved Sulphate (SO4)	2015/01/07	91	80 - 120	89	80 - 120	<0.50	mg/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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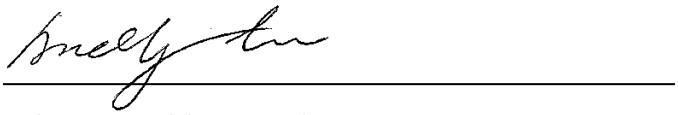
Report Date: 2015/01/09

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Data Validation Coordinator

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Click here to get the COC number

Maxxam Job #: B500635 **COC #:** 2015-01-05 B Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name: Minto Explorations Ltd
Contact Name: Elvina Wong
Address: Suite 900 - 999 West Hastings St
Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail

Report To:

Company Name: Minto Explorations Ltd
Contact Name: Minto Environment
Address: Suite 900-999 West Hastings St
Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail minto_environment@mintomine.com

PO #: 208977
Quotation #:
Project # :
Proj. Name: Minto Env. Monitoring
Location: Yukon
Sampled by: Phil e, Helaina M

REGULATORY REQUIREMENTS:

☐ CSR
☑ CCME
☐ BC Water Quality
☐ Other
☐ DRINKING WATER

SERVICE REQUESTED:

◉ Regular Turn Around Time (TAT)
(5 days for most tests)
RUSH (Please contact the lab)
○ 1 Day ○ 2 Day ○ 3 Day
Date Required:

SPECIAL INSTRUCTIONS:
Return Cooler ☐ **Ship Sample Bottles (please specify)** ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Identification (Lab Use Only)	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM)	Field Filtered? Y/N	Total Metals	Field Acidified? Y/N	Nitrate	Nitrite	Ammonia	Total Suspended Solids (TSS)	TDS	pH	Conductivity	Alkalinity	Chloride	Fluoride	Sulphate	Number of Containers
1	MW12-05-01	L47218	Ground W	1/1/2015 10:35	x	x			x			x		x		x	x			3
2	MW12-05-03	L47219	Ground W	1/1/2015 11:10	x	x			x			x		x		x	x			3
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

B500635

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):	Print name and sign: Received by:	Date (yy/mm/dd):	Time (24 hr):	Time Sensitive
Helaina Moses	5-Jan-15	6:40	Laurel Arthur	2015/01/06	09:40	☑

Laboratory Use Only

Temperature on Receipt (°C) A) B) C)
Just sampled & rec'd on ice: ☐

Custody Seal	Yes	No
Present?	☐	☑
Intact?	☐	☐

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-01-12 A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/01/15
Report #: R1788240
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B502599
Received: 2015/01/13, 10:10

Sample Matrix: Water
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	4	2015/01/14	2015/01/14	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	4	N/A	2015/01/14	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	4	N/A	2015/01/14	BBY6SOP-00026	SM 22 2510 B m
Fluoride	4	N/A	2015/01/14	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	4	N/A	2015/01/15	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	4	N/A	2015/01/14	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	4	N/A	2015/01/15	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	4	N/A	2015/01/14	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	4	N/A	2015/01/15	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	2	N/A	2015/01/14	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrate + Nitrite (N)	2	N/A	2015/01/15	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	2	N/A	2015/01/14	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	2	N/A	2015/01/15	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	4	N/A	2015/01/15	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	4	N/A	2015/01/14	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	4	N/A	2015/01/14	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	19	N/A	2015/01/14	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	4	2015/01/14	2015/01/15	BBY6SOP-00033	SM 22 2540 C m

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

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Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-01-12 A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/01/15
Report #: R1788240
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B502599
Received: 2015/01/13, 10:10

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
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Maxxam Job #: B502599
Report Date: 2015/01/15

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LM6908	LM6909		LM6910	LM6911	LM6912		
Sampling Date		2015/01/11 10:40	2015/01/11 11:15		2015/01/11 11:45	2015/01/11 12:00	2015/01/11 12:10		
COC Number		2015-01-12 A	2015-01-12 A		2015-01-12 A	2015-01-12 A	2015-01-12 A		
	Units	**MW12-05-01**	**MW12-05-03**	**QC Batch**	**MW12-05-03-03**	**MW12-05-03-04**	**MW12-05-03-05**	**RDL**	**QC Batch**
ANIONS									
Nitrite (N)	mg/L	0.0282	0.0335	7778547				0.0050	7778547
Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD	FIELD	ONSITE				N/A	ONSITE
Nitrate (N)	mg/L	<0.020	<0.020	7776718				0.020	7776718
Misc. Inorganics									
Fluoride (F)	mg/L	1.20	1.20	7779106				0.010	7779106
Alkalinity (Total as CaCO3)	mg/L	163	257	7777846				0.50	7777846
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	7777846				0.50	7777846
Bicarbonate (HCO3)	mg/L	199	313	7777846				0.50	7777846
Carbonate (CO3)	mg/L	<0.50	<0.50	7777846				0.50	7777846
Hydroxide (OH)	mg/L	<0.50	<0.50	7777846				0.50	7777846
Anions									
Dissolved Sulphate (SO4)	mg/L	817	788	7778179	769	776	782	5.0	7778176
Dissolved Chloride (Cl)	mg/L	14	9.9	7778191				0.50	
Nutrients									
Total Ammonia (N)	mg/L	0.092	0.047	7779305				0.0050	
Nitrate plus Nitrite (N)	mg/L	0.040	0.039	7778130				0.020	
Physical Properties									
Conductivity	uS/cm	1700	1750	7777850				1.0	
pH	pH	7.83	7.98	7777852				N/A	
Physical Properties									
Total Dissolved Solids	mg/L	1310	1360	7777389				10	
RDL = Reportable Detection Limit									

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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LM6913	LM6914		LM6915	LM6916		
Sampling Date		2015/01/11 12:20	2015/01/11 12:30		2015/01/11 12:40	2015/01/11 12:50		
COC Number		2015-01-12 A	2015-01-12 A		2015-01-12 A	2015-01-12 A		
	Units	MW12-05-03-06	MW12-05-03-07	QC Batch	MW12-05-03-08	MW12-05-03-09	RDL	QC Batch
Anions								
Dissolved Sulphate (SO4)	mg/L	780	786	7778176	792	780	5.0	7778179
RDL = Reportable Detection Limit								

Maxxam ID		LM6917	LM6918	LM6919	LM6923	LM6924		
Sampling Date		2015/01/11 13:00	2015/01/11 13:10	2015/01/11 13:20	2015/01/11 13:30	2015/01/11 14:30		
COC Number		2015-01-12 A	2015-01-12 A	2015-01-12 A	2015-01-12 A	2015-01-12 A		
	Units	MW12-05-03-10	MW12-05-03-11	MW12-05-03-12	MW12-05-03-13	MW12-05-03-14	RDL	QC Batch
Anions								
Dissolved Sulphate (SO4)	mg/L	770	785	790	775	765	5.0	7778179
RDL = Reportable Detection Limit								

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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LM6925	LM6926	LM6927		LM6928	LM6929		
Sampling Date		2015/01/11 14:50	2015/01/11 15:20	2015/01/11 16:00		2015/01/11 16:20	2015/01/11 16:45		
COC Number		2015-01-12 A	2015-01-12 A	2015-01-12 A		2015-01-12 A	2015-01-12 A		
	Units	MW12-05-03-15	MW12-05-03-16	MW12-05-03-17	QC Batch	MW12-05-03	MW12-05-01	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L				7778547	0.0687 (1)	0.0488 (1)	0.0050	7779380
Calculated Parameters									
Filter and HNO3 Preservation	N/A				ONSITE	FIELD	FIELD	N/A	ONSITE
Nitrate (N)	mg/L				7776718	<0.020	<0.020	0.020	7776718
Misc. Inorganics									
Fluoride (F)	mg/L				7779106	1.20	1.20	0.010	7779106
Alkalinity (Total as CaCO3)	mg/L				7777846	258	166	0.50	7777846
Alkalinity (PP as CaCO3)	mg/L				7777846	<0.50	<0.50	0.50	7777846
Bicarbonate (HCO3)	mg/L				7777846	315	203	0.50	7777846
Carbonate (CO3)	mg/L				7777846	<0.50	<0.50	0.50	7777846
Hydroxide (OH)	mg/L				7777846	<0.50	<0.50	0.50	7777846
Anions									
Dissolved Sulphate (SO4)	mg/L	791	743	748	7778179	795	822	5.0	7778179
Dissolved Chloride (Cl)	mg/L					10	13	0.50	7778191
Nutrients									
Total Ammonia (N)	mg/L					0.035	0.069	0.0050	7779305
Nitrate plus Nitrite (N)	mg/L					0.079 (1)	0.058 (1)	0.020	7779378
Physical Properties									
Conductivity	uS/cm					1770	1710	1.0	7777850
pH	pH					7.93	7.98	N/A	7777852
Physical Properties									
Total Dissolved Solids	mg/L					1250	1250	10	7777389

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past recommended hold time.

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MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		LM6908	LM6909	LM6928	LM6929		
Sampling Date		2015/01/11 10:40	2015/01/11 11:15	2015/01/11 16:20	2015/01/11 16:45		
COC Number		2015-01-12 A	2015-01-12 A	2015-01-12 A	2015-01-12 A		
	Units	MW12-05-01	MW12-05-03	MW12-05-03	MW12-05-01	RDL	QC Batch
Misc. Inorganics							
Dissolved Hardness (CaCO3)	mg/L	684	790	794	700	0.50	7776377
Elements							
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	7777410
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	5.0	3.6	4.0	5.7	3.0	7777447
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	1.13	0.65	0.50	7777447
Dissolved Arsenic (As)	ug/L	0.81	0.37	0.35	0.81	0.10	7777447
Dissolved Barium (Ba)	ug/L	60.5	58.1	58.8	61.0	1.0	7777447
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7777447
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	7777447
Dissolved Boron (B)	ug/L	104	94	103	95	50	7777447
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	7777447
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	7777447
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	7777447
Dissolved Copper (Cu)	ug/L	<0.20	<0.20	0.21	<0.20	0.20	7777447
Dissolved Iron (Fe)	ug/L	16.7	2320	2130	80.4	5.0	7777447
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7777447
Dissolved Lithium (Li)	ug/L	7.6	6.3	6.2	7.8	5.0	7777447
Dissolved Manganese (Mn)	ug/L	105	2000	2050	131	1.0	7777447
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.4	1.2	<1.0	1.0	7777447
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	7777447
Dissolved Phosphorus (P)	ug/L	19	23	15	18	10	7777447
Dissolved Selenium (Se)	ug/L	0.21	0.11	0.12	0.19	0.10	7777447
Dissolved Silicon (Si)	ug/L	6640	7550	7140	7070	100	7777447
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	7777447
Dissolved Strontium (Sr)	ug/L	6380	8430	8290	6510	1.0	7777447
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	7777447
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7777447
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7777447
Dissolved Uranium (U)	ug/L	0.89	1.21	1.25	0.89	0.10	7777447
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7777447
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.2	<5.0	5.0	7777447
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	7777447
Dissolved Calcium (Ca)	mg/L	222	205	203	228	0.050	7776415
Dissolved Magnesium (Mg)	mg/L	31.3	67.7	69.8	31.6	0.050	7776415
RDL = Reportable Detection Limit							

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MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		LM6908	LM6909	LM6928	LM6929		
Sampling Date		2015/01/11 10:40	2015/01/11 11:15	2015/01/11 16:20	2015/01/11 16:45		
COC Number		2015-01-12 A	2015-01-12 A	2015-01-12 A	2015-01-12 A		
	Units	**MW12-05-01**	**MW12-05-03**	**MW12-05-03**	**MW12-05-01**	**RDL**	**QC Batch**
Dissolved Potassium (K)	mg/L	3.10	3.86	3.89	3.28	0.050	7776415
Dissolved Sodium (Na)	mg/L	116	100	101	122	0.050	7776415
Dissolved Sulphur (S)	mg/L	269	249	256	279	3.0	7776415
RDL = Reportable Detection Limit							

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Site Location: YUKON

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample containers and preservation received were not in compliance. Maxxam added HCl to stabilize Mercury in these samples prior to analysis.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7777389	Total Dissolved Solids	2015/01/15	100	80 - 120	86	80 - 120	12, RDL=10	mg/L	16	20
7777410	Dissolved Mercury (Hg)	2015/01/14	104	80 - 120	95	80 - 120	<0.010	ug/L	NC	20
7777447	Dissolved Aluminum (Al)	2015/01/14	101	80 - 120	102	80 - 120	<3.0	ug/L	NC	20
7777447	Dissolved Antimony (Sb)	2015/01/14	102	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
7777447	Dissolved Arsenic (As)	2015/01/14	104	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
7777447	Dissolved Barium (Ba)	2015/01/14	NC	80 - 120	102	80 - 120	<1.0	ug/L	1.8	20
7777447	Dissolved Beryllium (Be)	2015/01/14	111	80 - 120	106	80 - 120	<0.10	ug/L	NC	20
7777447	Dissolved Bismuth (Bi)	2015/01/14	100	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
7777447	Dissolved Boron (B)	2015/01/14					<50	ug/L	NC	20
7777447	Dissolved Cadmium (Cd)	2015/01/14	104	80 - 120	103	80 - 120	<0.010	ug/L	NC	20
7777447	Dissolved Chromium (Cr)	2015/01/14	100	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
7777447	Dissolved Cobalt (Co)	2015/01/14	97	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
7777447	Dissolved Copper (Cu)	2015/01/14	98	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
7777447	Dissolved Iron (Fe)	2015/01/14	NC	80 - 120	108	80 - 120	<5.0	ug/L	2.1	20
7777447	Dissolved Lead (Pb)	2015/01/14	98	80 - 120	98	80 - 120	<0.20	ug/L	NC	20
7777447	Dissolved Lithium (Li)	2015/01/14	103	80 - 120	104	80 - 120	<5.0	ug/L	NC	20
7777447	Dissolved Manganese (Mn)	2015/01/14	NC	80 - 120	101	80 - 120	<1.0	ug/L	2.0	20
7777447	Dissolved Molybdenum (Mo)	2015/01/14	101	80 - 120	93	80 - 120	<1.0	ug/L	NC	20
7777447	Dissolved Nickel (Ni)	2015/01/14	98	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
7777447	Dissolved Phosphorus (P)	2015/01/14					<10	ug/L		
7777447	Dissolved Selenium (Se)	2015/01/14	101	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
7777447	Dissolved Silicon (Si)	2015/01/14					<100	ug/L	0.45	20
7777447	Dissolved Silver (Ag)	2015/01/14	103	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
7777447	Dissolved Strontium (Sr)	2015/01/14	NC	80 - 120	103	80 - 120	<1.0	ug/L	0.30	20
7777447	Dissolved Thallium (Tl)	2015/01/14	97	80 - 120	98	80 - 120	<0.050	ug/L	NC	20
7777447	Dissolved Tin (Sn)	2015/01/14	103	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
7777447	Dissolved Titanium (Ti)	2015/01/14	109	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7777447	Dissolved Uranium (U)	2015/01/14	97	80 - 120	95	80 - 120	<0.10	ug/L	NC	20
7777447	Dissolved Vanadium (V)	2015/01/14	101	80 - 120	105	80 - 120	<5.0	ug/L	NC	20
7777447	Dissolved Zinc (Zn)	2015/01/14	NC	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
7777447	Dissolved Zirconium (Zr)	2015/01/14					<0.50	ug/L	NC	20
7777846	Alkalinity (PP as CaCO3)	2015/01/14					<0.50	mg/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
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			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7777846	Alkalinity (Total as CaCO3)	2015/01/14	NC	80 - 120	96	80 - 120	<0.50	mg/L	0.75	20
7777846	Bicarbonate (HCO3)	2015/01/14					<0.50	mg/L	0.74	20
7777846	Carbonate (CO3)	2015/01/14					<0.50	mg/L	NC	20
7777846	Hydroxide (OH)	2015/01/14					<0.50	mg/L	NC	20
7777850	Conductivity	2015/01/14			99	80 - 120	<1.0	uS/cm	0.54	20
7777852	pH	2015/01/14			101	97 - 103			1.3	N/A
7778130	Nitrate plus Nitrite (N)	2015/01/14	103	80 - 120	110	80 - 120	<0.020	mg/L	1.3	25
7778176	Dissolved Sulphate (SO4)	2015/01/14	104	80 - 120					4.0	20
7778179	Dissolved Sulphate (SO4)	2015/01/14	NC	80 - 120	101	80 - 120	<0.50	mg/L	2.3	20
7778191	Dissolved Chloride (Cl)	2015/01/14			105	80 - 120	<0.50	mg/L		
7778547	Nitrite (N)	2015/01/14	NC	80 - 120	99	80 - 120	<0.0050	mg/L	1.1	20
7779106	Fluoride (F)	2015/01/14	96	80 - 120	98	80 - 120	<0.010	mg/L	4.0	20
7779305	Total Ammonia (N)	2015/01/15			110	80 - 120	0.0093, RDL=0.0050	mg/L		
7779378	Nitrate plus Nitrite (N)	2015/01/15			107	80 - 120	<0.020	mg/L		
7779380	Nitrite (N)	2015/01/15			105	80 - 120	<0.0050	mg/L		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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MINTO EXPLORATIONS LTD.
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Site Location: YUKON

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Rob Reinert, Data Validation Coordinator

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Maxxam Job #: B502599 **COC #:** 2015-01-12 A (Click here to get the COC number) Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name: Minto Explorations Ltd
Contact Name: Elvina Wong
Address: Suite 900 - 999 West Hastings St, Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail

Report To:

Company Name: Minto Explorations Ltd
Contact Name: Minto Environment
Address: Suite 900-999 West Hastings St, Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail: minto_environment@mintomine.com

PO #: 208977
Quotation #:
Project # :
Proj. Name: Minto Env. Monitoring
Location: Yukon
Sampled by: Helaina.M, Phil.E, Jasmine.D

REGULATORY REQUIREMENTS:

☐ CSR
☑ CCME
☐ BC Water Quality
☐ Other
☐ DRINKING WATER

SERVICE REQUESTED:

◉ Regular Turn Around Time (TAT) (5 days for most tests) ☐
RUSH (Please contact the lab) ☑
○ 1 Day ○ 2 Day ○ 3 Day
Date Required:

SPECIAL INSTRUCTIONS:
Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Identification (Lab Use Only)	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM)	Field Filtered? Y/N	Total Metals	Field Acidified? Y/N	Nitrate ☑	Nitrite ☑	Field Acidified? Y/N	Ammonia ☑	Total Suspended Solids (TSS)	TDS ☐	pH ☑	Conductivity ☑	Alkalinity ☑	Chloride ☑	Fluoride ☑	Sulphate ☑	Sulphate	Number of Containers
1	MW12-05-01	LM6908	Ground W	1/11/2015 10:40	x	x			x				x		x			x				3
2	MW12-05-03	LM6909	Ground W	1/11/2015 11:15	x	x			x				x		x			x				3
3	MW12-05-03-03	LM6910	Ground W	1/11/2015 11:45																x		1
4	MW12-05-03-04	LM6911	Ground W	1/11/2015 12:00																x		1
5	MW12-05-03-05	LM6912	Ground W	1/11/2015 12:10																x		1
6	MW12-05-03-06	LM6913	Ground W	1/11/2015 12:20																x		1
7	MW12-05-03-07	LM6914	Ground W	1/11/2015 12:30																x		1
8	MW12-05-03-08	LM6915	Ground W	1/11/2015 12:40																x		1
9	MW12-05-03-09	LM6916	Ground W	1/11/2015 12:50																x		1
10	MW12-05-03-10	LM6917	Ground W	1/11/2015 13:00																x		1
11	MW12-05-03-11	LM6918	Ground W	1/11/2015 13:10																x		1
12	MW12-05-03-12	LM6919	Ground W	1/11/2015 13:20																x		1
13	MW12-05-03-13	LM6923	Ground W	1/11/2015 13:30																x		1
14	MW12-05-03-14	LM6924	Ground W	1/11/2015 14:30																x		1
15	MW12-05-03-15	LM6925	Ground W	1/11/2015 14:50																x		1
16	MW12-05-03-16	LM6926	Ground W	1/11/2015 15:20																x		1
17	MW12-05-03-17	LM6927	Ground W	1/11/2015 16:00																x		1
18	MW12-05-03	LM6928	Ground W	1/11/2015 16:20	x	x			x				x		x			x				3
19	MW12-05 -01	LM6929	Ground W	1/11/2015 16:45	x	x			x				x		x			x				3

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Helaina Moses	12-Jan-15	7:10

Print name and sign

Received by:	Date (yy/mm/dd):	Time (24 hr):
[signature]	2015/01/13	10:10

Laboratory Use Only

Time Sensitive ☑

Temperature on Receipt (°C): A) 1 B) 1 C) 1
Just sampled & rec'd on ice: ☐

Custody Seal: Present? ☐ Yes ☑ No ☐ Intact? ☐ Yes ☐ No

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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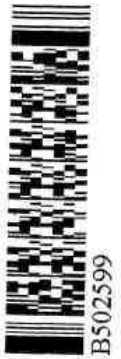

Maxxam
A Bureau Veritas Group Company

Success Through Science®

Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-01-14A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/01/21
Report #: R1790743
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B503295
Received: 2015/01/15, 10:05

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	2	2015/01/15	2015/01/16	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	1	N/A	2015/01/16	BBY6SOP-00011	SM 22 4500-Cl- G m
Chloride by Automated Colourimetry	1	N/A	2015/01/19	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	2	N/A	2015/01/16	BBY6SOP-00026	SM 22 2510 B m
Fluoride	2	N/A	2015/01/15	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	2	N/A	2015/01/19	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	2	N/A	2015/01/21	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	2	N/A	2015/01/19	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	2	N/A	2015/01/16	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	2	N/A	2015/01/19	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	2	N/A	2015/01/16	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	2	N/A	2015/01/16	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	2	N/A	2015/01/16	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	2	N/A	2015/01/16	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	2	N/A	2015/01/16	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	2	N/A	2015/01/16	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	2	2015/01/15	2015/01/16	BBY6SOP-00033	SM 22 2540 C m

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

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Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-01-14A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/01/21
Report #: R1790743
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B503295
Received: 2015/01/15, 10:05

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
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Maxxam Job #: B503295
Report Date: 2015/01/21

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Sampler Initials: HM

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LN0251		LN0252		
Sampling Date		2015/01/12 00:00		2015/01/12 00:00		
COC Number		2015-01-14A		2015-01-14A		
	Units	MW12-07-01	QC Batch	MW12-07-02	RDL	QC Batch
ANIONS						
Nitrite (N)	mg/L	0.235 (1)	7780703	0.325 (1)	0.0050	7780703
Calculated Parameters						
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.109	7778918	0.172	0.020	7778918
Misc. Inorganics						
Fluoride (F)	mg/L	1.30	7779427	0.970	0.010	7779427
Alkalinity (Total as CaCO3)	mg/L	109	7779313	306	0.50	7779313
Alkalinity (PP as CaCO3)	mg/L	<0.50	7779313	<0.50	0.50	7779313
Bicarbonate (HCO3)	mg/L	133	7779313	374	0.50	7779313
Carbonate (CO3)	mg/L	<0.50	7779313	<0.50	0.50	7779313
Hydroxide (OH)	mg/L	<0.50	7779313	<0.50	0.50	7779313
Anions						
Dissolved Sulphate (SO4)	mg/L	624	7780738	397	5.0	7780738
Dissolved Chloride (Cl)	mg/L	1.8	7780737	3.0	0.50	7782160
Nutrients						
Total Ammonia (N)	mg/L	0.16	7782086	0.54	0.0050	7782086
Nitrate plus Nitrite (N)	mg/L	0.343 (1)	7780701	0.497 (1)	0.020	7780701
Physical Properties						
Conductivity	uS/cm	1400	7779314	1350	1.0	7779314
pH	pH	7.85	7779315	7.68	N/A	7779315
Physical Properties						
Total Dissolved Solids	mg/L	1090	7778987	1100	10	7778987

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

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Maxxam Job #: B503295
Report Date: 2015/01/21

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Sampler Initials: HM

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		LN0251	LN0252		
Sampling Date		2015/01/12 00:00	2015/01/12 00:00		
COC Number		2015-01-14A	2015-01-14A		
	Units	MW12-07-01	MW12-07-02	RDL	QC Batch
Misc. Inorganics					
Dissolved Hardness (CaCO3)	mg/L	619	619	0.50	7778596
Elements					
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	0.010	7783860
Dissolved Metals by ICPMS					
Dissolved Aluminum (Al)	ug/L	7.6	14.4	3.0	7779642
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	7779642
Dissolved Arsenic (As)	ug/L	1.65	0.83	0.10	7779642
Dissolved Barium (Ba)	ug/L	16.2	48.4	1.0	7779642
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	7779642
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	7779642
Dissolved Boron (B)	ug/L	340	923	50	7779642
Dissolved Cadmium (Cd)	ug/L	0.027	<0.010	0.010	7779642
Dissolved Chromium (Cr)	ug/L	<1.0	1.1	1.0	7779642
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	7779642
Dissolved Copper (Cu)	ug/L	0.24	0.80	0.20	7779642
Dissolved Iron (Fe)	ug/L	163	762	5.0	7779642
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	0.20	7779642
Dissolved Lithium (Li)	ug/L	28.8	26.0	5.0	7779642
Dissolved Manganese (Mn)	ug/L	123	299	1.0	7779642
Dissolved Molybdenum (Mo)	ug/L	17.2	1.9	1.0	7779642
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	7779642
Dissolved Phosphorus (P)	ug/L	<10	18	10	7779642
Dissolved Selenium (Se)	ug/L	<0.10	1.51	0.10	7779642
Dissolved Silicon (Si)	ug/L	6340	8080	100	7779642
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	7779642
Dissolved Strontium (Sr)	ug/L	11200	10100	1.0	7779642
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7779642
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	7779642
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	7779642
Dissolved Uranium (U)	ug/L	1.83	0.18	0.10	7779642
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	7779642
Dissolved Zinc (Zn)	ug/L	5.3	<5.0	5.0	7779642
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	0.50	7779642
Dissolved Calcium (Ca)	mg/L	195	207	0.050	7778597
RDL = Reportable Detection Limit					

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Maxxam Job #: B503295
Report Date: 2015/01/21

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Sampler Initials: HM

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		LN0251	LN0252		
Sampling Date		2015/01/12 00:00	2015/01/12 00:00		
COC Number		2015-01-14A	2015-01-14A		
	Units	**MW12-07-01**	**MW12-07-02**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	32.2	24.7	0.050	7778597
Dissolved Potassium (K)	mg/L	2.84	3.18	0.050	7778597
Dissolved Sodium (Na)	mg/L	71.7	83.8	0.050	7778597
Dissolved Sulphur (S)	mg/L	231	148	3.0	7778597
RDL = Reportable Detection Limit					

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Maxxam Job #: B503295
Report Date: 2015/01/21

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Sampler Initials: HM

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample containers and preservation received were not in compliance. Maxxam added HCl to stabilize Mercury in these samples prior to analysis.

Results relate only to the items tested.

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Maxxam Job #: B503295
Report Date: 2015/01/21

QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Sampler Initials: HM

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7778987	Total Dissolved Solids	2015/01/16	99	80 - 120	94	80 - 120	<10	mg/L	NC	20
7779313	Alkalinity (PP as CaCO3)	2015/01/16					<0.50	mg/L	NC	20
7779313	Alkalinity (Total as CaCO3)	2015/01/16	NC	80 - 120	95	80 - 120	<0.50	mg/L	0.055	20
7779313	Bicarbonate (HCO3)	2015/01/16					<0.50	mg/L	0.052	20
7779313	Carbonate (CO3)	2015/01/16					<0.50	mg/L	NC	20
7779313	Hydroxide (OH)	2015/01/16					<0.50	mg/L	NC	20
7779314	Conductivity	2015/01/16			100	80 - 120	1.0, RDL=1.0	uS/cm	0.58	20
7779315	pH	2015/01/16			101	97 - 103			0.24	N/A
7779427	Fluoride (F)	2015/01/15	97	80 - 120	96	80 - 120	<0.010	mg/L	0	20
7779642	Dissolved Aluminum (Al)	2015/01/16	99	80 - 120	101	80 - 120	<3.0	ug/L	NC	20
7779642	Dissolved Antimony (Sb)	2015/01/16	103	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
7779642	Dissolved Arsenic (As)	2015/01/16	104	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
7779642	Dissolved Barium (Ba)	2015/01/16	NC	80 - 120	100	80 - 120	<1.0	ug/L	4.0	20
7779642	Dissolved Beryllium (Be)	2015/01/16	98	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
7779642	Dissolved Bismuth (Bi)	2015/01/16	99	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
7779642	Dissolved Boron (B)	2015/01/16					<50	ug/L	NC	20
7779642	Dissolved Cadmium (Cd)	2015/01/16	95	80 - 120	98	80 - 120	<0.010	ug/L	NC	20
7779642	Dissolved Chromium (Cr)	2015/01/16	101	80 - 120	96	80 - 120	<1.0	ug/L	NC	20
7779642	Dissolved Cobalt (Co)	2015/01/16	100	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
7779642	Dissolved Copper (Cu)	2015/01/16	96	80 - 120	100	80 - 120	<0.20	ug/L	1.8	20
7779642	Dissolved Iron (Fe)	2015/01/16	98	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
7779642	Dissolved Lead (Pb)	2015/01/16	101	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
7779642	Dissolved Lithium (Li)	2015/01/16	101	80 - 120	100	80 - 120	<5.0	ug/L	NC	20
7779642	Dissolved Manganese (Mn)	2015/01/16	101	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
7779642	Dissolved Molybdenum (Mo)	2015/01/16	103	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
7779642	Dissolved Nickel (Ni)	2015/01/16	99	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
7779642	Dissolved Phosphorus (P)	2015/01/16					<10	ug/L		
7779642	Dissolved Selenium (Se)	2015/01/16	98	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
7779642	Dissolved Silicon (Si)	2015/01/16					<100	ug/L	1.4	20
7779642	Dissolved Silver (Ag)	2015/01/16	93	80 - 120	91	80 - 120	<0.020	ug/L	NC	20
7779642	Dissolved Strontium (Sr)	2015/01/16	NC	80 - 120	100	80 - 120	<1.0	ug/L	1.6	20
7779642	Dissolved Thallium (Tl)	2015/01/16	98	80 - 120	90	80 - 120	<0.050	ug/L	NC	20

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Maxxam Job #: B503295
Report Date: 2015/01/21

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Sampler Initials: HM

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7779642	Dissolved Tin (Sn)	2015/01/16	100	80 - 120	95	80 - 120	<5.0	ug/L	NC	20
7779642	Dissolved Titanium (Ti)	2015/01/16	104	80 - 120	108	80 - 120	<5.0	ug/L	NC	20
7779642	Dissolved Uranium (U)	2015/01/16	104	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
7779642	Dissolved Vanadium (V)	2015/01/16	109	80 - 120	92	80 - 120	<5.0	ug/L	NC	20
7779642	Dissolved Zinc (Zn)	2015/01/16	95	80 - 120	98	80 - 120	<5.0	ug/L	NC	20
7779642	Dissolved Zirconium (Zr)	2015/01/16					<0.50	ug/L	NC	20
7780701	Nitrate plus Nitrite (N)	2015/01/16	NC	80 - 120	107	80 - 120	<0.020	mg/L	1.8	25
7780703	Nitrite (N)	2015/01/16	NC	80 - 120	102	80 - 120	<0.0050	mg/L	0.58	20
7780737	Dissolved Chloride (Cl)	2015/01/16	NC	80 - 120	98	80 - 120	<0.50	mg/L	0.27	20
7780738	Dissolved Sulphate (SO4)	2015/01/16	NC	80 - 120	88	80 - 120	0.59, RDL=0.50	mg/L	5.9	20
7782086	Total Ammonia (N)	2015/01/19	111	80 - 120	109	80 - 120	<0.0050	mg/L	NC	20
7782160	Dissolved Chloride (Cl)	2015/01/19			98	80 - 120	<0.50	mg/L		
7783860	Dissolved Mercury (Hg)	2015/01/21	90	80 - 120	95	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

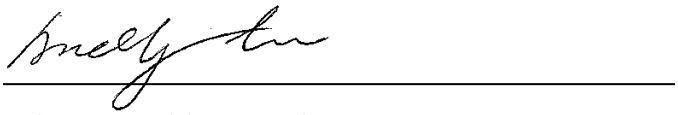
Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B503295
Report Date: 2015/01/21

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Sampler Initials: HM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Data Validation Coordinator

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Click here to get the COC number

Maxxam Job #: B503295 **COC #:** 2015-01-14 A Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name:	Minto Explorations Ltd
Contact Name:	Elvina Wong
Address:	Suite 900 - 999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	

Report To:

Company Name:	Minto Explorations Ltd
Contact Name:	Minto Environment
Address:	Suite 900-999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	minto_environment@mintomine.com

PO #:	
Quotation #:	
Project # :	
Proj. Name:	Minto Env. Monitoring
Location:	Yukon
Sampled by:	Helaina.M, Phil. E

REGULATORY REQUIREMENTS:

- ☐ CSR
- ☑ CCME
- ☐ BC Water Quality
- ☐ Other
- ☐ DRINKING WATER

SERVICE REQUESTED:

- ◉ Regular Turn Around Time (TAT) (5 days for most tests)
- **RUSH** (Please contact the lab) ○ 1 Day ○ 2 Day ○ 3 Day
- Date Required:

SPECIAL INSTRUCTIONS:

Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Use Only: Lab Identification	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM)	Field Filtered? Y/N	Total Metals	Field Acidified? Y/N	Nitrate ☑	Nitrite ☑	Ammonia ☑	Total Suspended Solids (TSS) ☐ TDS ☑	pH ☑	Conductivity ☑	Alkalinity ☑	Chloride ☑	Fluoride ☑	Sulphate ☑	Number of Containers
1	MW12-07-01	LN0251	Ground W	1/12/2015 0:00	x	x			x			x	x	x		x			3
2	MW12-07-02	LN0252	Ground W	1/12/2015 0:00	x	x			x			x	x	x		x			3
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

B503295

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Helaina Moses	12-Jan-15	6:30

Print name and sign

Received by:	Date (yy/mm/dd):	Time (24 hr):
Laurel Berthier	2015/01/15	10:05

Laboratory Use Only

Time Sensitive ☑

Temperature on Receipt (°C): A) 1 B) 1 C) 1

Just sampled & rec'd on ice: ☐

Custody Seal	Yes	No
Present?	☐	☑
Intact?	☐	☐ NA

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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Success Through Science®

Your P.O. #: 208977
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-02-17 B

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/02/23
Report #: R1808190
Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B513093
Received: 2015/02/18, 12:50

Sample Matrix: Water
Samples Received: 14

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	4	2015/02/19	2015/02/19	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	4	N/A	2015/02/19	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	4	N/A	2015/02/19	BBY6SOP-00026	SM 22 2510 B m
Fluoride	4	N/A	2015/02/19	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	4	N/A	2015/02/20	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	4	N/A	2015/02/23	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	4	N/A	2015/02/20	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	4	N/A	2015/02/19	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	4	N/A	2015/02/20	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	4	N/A	2015/02/19	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	4	N/A	2015/02/19	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	4	N/A	2015/02/19	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	2	N/A	2015/02/19	BBY7 WI-00004	BCMOE Reqs 08/14
Filter and HNO3 Preserve for Metals	2	N/A	2015/02/20	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	4	N/A	2015/02/19	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	14	N/A	2015/02/19	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	2	2015/02/20	2015/02/21	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	2	2015/02/20	2015/02/23	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: 208977
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-02-17 B

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/02/23
Report #: R1808190
Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B513093
Received: 2015/02/18, 12:50

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020

==========

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Maxxam Job #: B513093
Report Date: 2015/02/23

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LS1868		LS1869	LS1870	LS1871	LS1872		
Sampling Date		2015/02/16 11:45		2015/02/16 13:35	2015/02/16 14:25	2015/02/16 14:45	2015/02/16 15:00		
COC Number		2015-02-17 B		2015-02-17 B	2015-02-17 B	2015-02-17 B	2015-02-17 B		
	Units	MW12-05-01	QC Batch	MW12-05-03	MW12-05-03	MW12-05-03	MW12-05-03	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	0.0466	7813131	0.0514				0.0050	7813131
Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD				N/A	ONSITE
Nitrate (N)	mg/L	<0.020	7811083	<0.020				0.020	7811083
Misc. Inorganics									
Fluoride (F)	mg/L	1.10	7813174	1.20				0.010	7813174
Alkalinity (Total as CaCO3)	mg/L	165	7812536	238				0.50	7812490
Alkalinity (PP as CaCO3)	mg/L	<0.50	7812536	<0.50				0.50	7812490
Bicarbonate (HCO3)	mg/L	202	7812536	290				0.50	7812490
Carbonate (CO3)	mg/L	<0.50	7812536	<0.50				0.50	7812490
Hydroxide (OH)	mg/L	<0.50	7812536	<0.50				0.50	7812490
Anions									
Dissolved Sulphate (SO4)	mg/L	744	7812792	794	788	786	772	5.0	7812783
Dissolved Chloride (Cl)	mg/L	14	7812789	9.7				0.50	7812776
Nutrients									
Total Ammonia (N)	mg/L	0.066	7814466	0.032				0.0050	7814466
Nitrate plus Nitrite (N)	mg/L	0.059	7813125	0.061				0.020	7813125
Physical Properties									
Conductivity	uS/cm	1740	7812534	1820				1.0	7812524
pH	pH	7.96	7812531	7.86				N/A	7812526
Physical Properties									
Total Dissolved Solids	mg/L	1340	7813570	1440				10	7813570

RDL = Reportable Detection Limit

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Maxxam Job #: B513093
Report Date: 2015/02/23

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LS1873		LS1874		LS1875		LS1876		
Sampling Date		2015/02/16 15:10		2015/02/16 15:30		2015/02/16 15:45		2015/02/16 15:55		
COC Number		2015-02-17 B		2015-02-17 B		2015-02-17 B		2015-02-17 B		
	Units	MW12-05-03	QC Batch	MW12-05-03	QC Batch	MW12-05-03	QC Batch	MW12-05-03	RDL	QC Batch
Anions										
Dissolved Sulphate (SO4)	mg/L	786	7812783	777	7812792	778	7812783	795	5.0	7812792

RDL = Reportable Detection Limit

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Maxxam Job #: B513093
Report Date: 2015/02/23

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LS1877		LS1878		LS1879		LS1880		
Sampling Date		2015/02/16 16:20		2015/02/16 16:30		2015/02/16 16:40		2015/02/16 16:55		
COC Number		2015-02-17 B		2015-02-17 B		2015-02-17 B		2015-02-17 B		
	Units	MW12-05-03	QC Batch	MW12-05-03	QC Batch	MW12-05-03	QC Batch	MW12-05-01	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L		7813131		7813131		7813131	0.0457	0.0050	7813131
Calculated Parameters										
Filter and HNO3 Preservation	N/A		ONSITE		ONSITE		ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L		7811083		7811083		7811083	<0.020	0.020	7811083
Misc. Inorganics										
Fluoride (F)	mg/L		7813174		7813174		7813174	1.10	0.010	7813174
Alkalinity (Total as CaCO3)	mg/L		7812490		7812490		7812490	167	0.50	7812536
Alkalinity (PP as CaCO3)	mg/L		7812490		7812490		7812490	<0.50	0.50	7812536
Bicarbonate (HCO3)	mg/L		7812490		7812490		7812490	203	0.50	7812536
Carbonate (CO3)	mg/L		7812490		7812490		7812490	<0.50	0.50	7812536
Hydroxide (OH)	mg/L		7812490		7812490		7812490	<0.50	0.50	7812536
Anions										
Dissolved Sulphate (SO4)	mg/L	786	7812783	800	7812792	780	7812783	805	5.0	7812792
Dissolved Chloride (Cl)	mg/L							13	0.50	7812789
Nutrients										
Total Ammonia (N)	mg/L							0.11	0.0050	7814466
Nitrate plus Nitrite (N)	mg/L							0.054	0.020	7813125
Physical Properties										
Conductivity	uS/cm							1750	1.0	7812534
pH	pH							7.96	N/A	7812531
Physical Properties										
Total Dissolved Solids	mg/L							1370	10	7814670

RDL = Reportable Detection Limit
N/A = Not Applicable

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Maxxam Job #: B513093
Report Date: 2015/02/23

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LS1881		
Sampling Date		2015/02/16 17:30		
COC Number		2015-02-17 B		
	Units	MW12-05-03	RDL	QC Batch
ANIONS				
Nitrite (N)	mg/L	0.0543	0.0050	7813131
Calculated Parameters				
Filter and HNO3 Preservation	N/A	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	0.020	7811083
Misc. Inorganics				
Fluoride (F)	mg/L	1.20	0.010	7813174
Alkalinity (Total as CaCO3)	mg/L	240	0.50	7812536
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	7812536
Bicarbonate (HCO3)	mg/L	292	0.50	7812536
Carbonate (CO3)	mg/L	<0.50	0.50	7812536
Hydroxide (OH)	mg/L	<0.50	0.50	7812536
Anions				
Dissolved Sulphate (SO4)	mg/L	739	5.0	7812792
Dissolved Chloride (Cl)	mg/L	9.8	0.50	7812789
Nutrients				
Total Ammonia (N)	mg/L	0.043	0.0050	7814466
Nitrate plus Nitrite (N)	mg/L	0.061	0.020	7813125
Physical Properties				
Conductivity	uS/cm	1800	1.0	7812534
pH	pH	7.92	N/A	7812531
Physical Properties				
Total Dissolved Solids	mg/L	1390	10	7814670

RDL = Reportable Detection Limit
N/A = Not Applicable

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Maxxam Job #: B513093
Report Date: 2015/02/23

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		LS1868	LS1869	LS1880	LS1881		
Sampling Date		2015/02/16 11:45	2015/02/16 13:35	2015/02/16 16:55	2015/02/16 17:30		
COC Number		2015-02-17 B	2015-02-17 B	2015-02-17 B	2015-02-17 B		
	Units	MW12-05-01	MW12-05-03	MW12-05-01	MW12-05-03	RDL	QC Batch
Misc. Inorganics							
Dissolved Hardness (CaCO3)	mg/L	757	839	764	857	0.50	7810915
Elements							
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	7816000
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	7.5	9.8	6.9	4.7	3.0	7812846
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	7812846
Dissolved Arsenic (As)	ug/L	1.04	0.42	1.07	0.28	0.10	7812846
Dissolved Barium (Ba)	ug/L	68.4	63.3	68.0	67.7	1.0	7812846
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7812846
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	7812846
Dissolved Boron (B)	ug/L	175	178	143	137	50	7812846
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	7812846
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	7812846
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	7812846
Dissolved Copper (Cu)	ug/L	0.42	0.28	0.21	<0.20	0.20	7812846
Dissolved Iron (Fe)	ug/L	24.0	1680	49.3	1740	5.0	7812846
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7812846
Dissolved Lithium (Li)	ug/L	7.0	5.1	7.7	6.7	5.0	7812846
Dissolved Manganese (Mn)	ug/L	112	2130	121	2250	1.0	7812846
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.1	<1.0	<1.0	1.0	7812846
Dissolved Nickel (Ni)	ug/L	<1.0	1.1	<1.0	<1.0	1.0	7812846
Dissolved Phosphorus (P)	ug/L	21	12	11	<10	10	7812846
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7812846
Dissolved Silicon (Si)	ug/L	7450	7910	7600	8200	100	7812846
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	7812846
Dissolved Strontium (Sr)	ug/L	6840	9070	7050	9580	1.0	7812846
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	7812846
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7812846
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7812846
Dissolved Uranium (U)	ug/L	1.13	1.47	1.11	1.59	0.10	7812846
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7812846
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	6.9	5.0	7812846
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	7812846
Dissolved Calcium (Ca)	mg/L	250	222	252	226	0.050	7811234
RDL = Reportable Detection Limit							

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Maxxam Job #: B513093
Report Date: 2015/02/23

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		LS1868	LS1869	LS1880	LS1881		
Sampling Date		2015/02/16 11:45	2015/02/16 13:35	2015/02/16 16:55	2015/02/16 17:30		
COC Number		2015-02-17 B	2015-02-17 B	2015-02-17 B	2015-02-17 B		
	Units	**MW12-05-01**	**MW12-05-03**	**MW12-05-01**	**MW12-05-03**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	32.2	69.3	32.5	70.8	0.050	7811234
Dissolved Potassium (K)	mg/L	3.47	4.17	3.63	4.07	0.050	7811234
Dissolved Sodium (Na)	mg/L	127	107	129	106	0.050	7811234
Dissolved Sulphur (S)	mg/L	275	277	306	260	3.0	7811234
RDL = Reportable Detection Limit							

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Maxxam Job #: B513093
Report Date: 2015/02/23

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample containers and preservation received were not in compliance. Maxxam added HCl to stabilize Mercury in these samples prior to analysis.

Results relate only to the items tested.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B513093
Report Date: 2015/02/23

QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7812490	Alkalinity (PP as CaCO3)	2015/02/19					<0.50	mg/L	NC	20
7812490	Alkalinity (Total as CaCO3)	2015/02/19			97	80 - 120	<0.50	mg/L	0.36	20
7812490	Bicarbonate (HCO3)	2015/02/19					<0.50	mg/L	0.38	20
7812490	Carbonate (CO3)	2015/02/19					<0.50	mg/L	NC	20
7812490	Hydroxide (OH)	2015/02/19					<0.50	mg/L	NC	20
7812524	Conductivity	2015/02/19			100	80 - 120	<1.0	uS/cm	0	20
7812526	pH	2015/02/19			101	97 - 103			0.26	N/A
7812531	pH	2015/02/19			101	97 - 103			0	N/A
7812534	Conductivity	2015/02/19			99	80 - 120	<1.0	uS/cm	0.39	20
7812536	Alkalinity (PP as CaCO3)	2015/02/19					<0.50	mg/L	NC	20
7812536	Alkalinity (Total as CaCO3)	2015/02/19	NC	80 - 120	96	80 - 120	<0.50	mg/L	1.1	20
7812536	Bicarbonate (HCO3)	2015/02/19					<0.50	mg/L	1.1	20
7812536	Carbonate (CO3)	2015/02/19					<0.50	mg/L	NC	20
7812536	Hydroxide (OH)	2015/02/19					<0.50	mg/L	NC	20
7812776	Dissolved Chloride (Cl)	2015/02/19	NC	80 - 120	97	80 - 120	<0.50	mg/L	0.71	20
7812783	Dissolved Sulphate (SO4)	2015/02/19	NC	80 - 120	91	80 - 120	0.51, RDL=0.50	mg/L	1.4	20
7812789	Dissolved Chloride (Cl)	2015/02/19	87	80 - 120	99	80 - 120	<0.50	mg/L	0.87	20
7812792	Dissolved Sulphate (SO4)	2015/02/19	NC	80 - 120	93	80 - 120	<0.50	mg/L	NC	20
7812846	Dissolved Aluminum (Al)	2015/02/19	112	80 - 120	100	80 - 120	<3.0	ug/L	NC	20
7812846	Dissolved Antimony (Sb)	2015/02/19	115	80 - 120	105	80 - 120	<0.50	ug/L	NC	20
7812846	Dissolved Arsenic (As)	2015/02/19	NC	80 - 120	101	80 - 120	<0.10	ug/L	11	20
7812846	Dissolved Barium (Ba)	2015/02/19	NC	80 - 120	108	80 - 120	<1.0	ug/L	6.9	20
7812846	Dissolved Beryllium (Be)	2015/02/19	111	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
7812846	Dissolved Bismuth (Bi)	2015/02/19	106	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
7812846	Dissolved Boron (B)	2015/02/19					<50	ug/L	6.8	20
7812846	Dissolved Cadmium (Cd)	2015/02/19	106	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
7812846	Dissolved Chromium (Cr)	2015/02/19	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
7812846	Dissolved Cobalt (Co)	2015/02/19	100	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
7812846	Dissolved Copper (Cu)	2015/02/19	97	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
7812846	Dissolved Iron (Fe)	2015/02/19	NC	80 - 120	103	80 - 120	<5.0	ug/L	8.8	20
7812846	Dissolved Lead (Pb)	2015/02/19	119	80 - 120	106	80 - 120	<0.20	ug/L	NC	20

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Maxxam Job #: B513093
Report Date: 2015/02/23

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7812846	Dissolved Lithium (Li)	2015/02/19	NC	80 - 120	101	80 - 120	<5.0	ug/L	6.6	20
7812846	Dissolved Manganese (Mn)	2015/02/19	NC	80 - 120	102	80 - 120	<1.0	ug/L	6.3	20
7812846	Dissolved Molybdenum (Mo)	2015/02/19	NC	80 - 120	95	80 - 120	<1.0	ug/L	NC	20
7812846	Dissolved Nickel (Ni)	2015/02/19	95	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
7812846	Dissolved Phosphorus (P)	2015/02/19					<10	ug/L		
7812846	Dissolved Selenium (Se)	2015/02/19	100	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
7812846	Dissolved Silicon (Si)	2015/02/19					<100	ug/L	8.9	20
7812846	Dissolved Silver (Ag)	2015/02/19	90	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
7812846	Dissolved Strontium (Sr)	2015/02/19	NC	80 - 120	106	80 - 120	<1.0	ug/L	5.4	20
7812846	Dissolved Thallium (Tl)	2015/02/19	96	80 - 120	90	80 - 120	<0.050	ug/L	NC	20
7812846	Dissolved Tin (Sn)	2015/02/19	110	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
7812846	Dissolved Titanium (Ti)	2015/02/19	118	80 - 120	110	80 - 120	<5.0	ug/L	NC	20
7812846	Dissolved Uranium (U)	2015/02/19	119	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
7812846	Dissolved Vanadium (V)	2015/02/19	106	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
7812846	Dissolved Zinc (Zn)	2015/02/19	103	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
7812846	Dissolved Zirconium (Zr)	2015/02/19					<0.50	ug/L	NC	20
7813125	Nitrate plus Nitrite (N)	2015/02/19	102	80 - 120	105	80 - 120	<0.020	mg/L	1.8	25
7813131	Nitrite (N)	2015/02/19	100	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20
7813174	Fluoride (F)	2015/02/19	NC	80 - 120	92	80 - 120	<0.010	mg/L	0	20
7813570	Total Dissolved Solids	2015/02/21	102	80 - 120	100	80 - 120	<10	mg/L	0.20	20
7814466	Total Ammonia (N)	2015/02/20	103	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20
7814670	Total Dissolved Solids	2015/02/23	102	80 - 120	104	80 - 120	12, RDL=10	mg/L	4.7	20

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Maxxam Job #: B513093
Report Date: 2015/02/23

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7816000	Dissolved Mercury (Hg)	2015/02/23	96	80 - 120	96	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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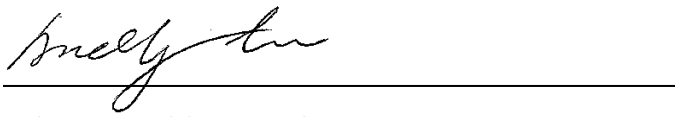
Maxxam Job #: B513093
Report Date: 2015/02/23

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 208977
Sampler Initials: SR

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Data Validation Coordinator

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Maxxam Job #: B513093 **COC #:** Click here to get the COC number 2015-02-17 B Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name: Minto Explorations Ltd
Contact Name: Elvina Wong
Address: Suite 900 - 999 West Hastings St, Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail

Report To:

Company Name: Minto Explorations Ltd
Contact Name: Minto Environment
Address: Suite 900-999 West Hastings St, Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail: minto_environment@mintomine.com

PO #: 208977
Quotation #:
Project # :
Proj. Name: Minto Env. Monitoring
Location: Yukon
Sampled by: Shaun Roberts, Martin Crill

REGULATORY REQUIREMENTS:
☐ CSR
☑ CCME
☐ BC Water Quality
☐ Other
☐ DRINKING WATER

SERVICE REQUESTED:
◉ Regular Turn Around Time (TAT) (5 days for most tests) ☐
RUSH (Please contact the lab) ☑
○ 1 Day ○ 2 Day ○ 3 Day
Date Required:

SPECIAL INSTRUCTIONS:
Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Use Only: Lab Identification	Sample Type	Date/Time(24hr) Sampled	Field Filtered? Y/N	Field Acidified? Y/N	Field Acidified? Y/N	Dissolved Metals (DM)	Total Metals	Nitrate	Nitrite	Ammonia	Total Suspended Solids (TSS)	TDS	pH	Conductivity	Chloride	Fluoride	Alkalinity	Sulphate	Sulphate	Number of Containers
1	MW12-05-01	LS1868	Ground W	16/02/2015 11:45		☑		x		x		x	x		x	x	x	x	x			3
2	MW12-05-03	LS1869	Ground W	16/02/2015 13:35		☑		x		x		x	x		x	x	x	x	x			3
3	MW12-05-03	LS1870	Ground W	16/02/2015 14:25																x		1
4	MW12-05-03	LS1871	Ground W	16/02/2015 14:45																x		1
5	MW12-05-03	LS1872	Ground W	16/02/2015 15:00																x		1
6	MW12-05-03	LS1873	Ground W	16/02/2015 15:10																x		1
7	MW12-05-03	LS1874	Ground W	16/02/2015 15:30																x		1
8	MW12-05-03	LS1875	Ground W	16/02/2015 15:45																x		1
9	MW12-05-03	LS1876	Ground W	16/02/2015 15:55																x		1
10	MW12-05-03	LS1877	Ground W	16/02/2015 16:20																x		1
11	MW12-05-03	LS1878	Ground W	16/02/2015 16:30																x		1
12	MW12-05-03	LS1879	Ground W	16/02/2015 16:40																x		1
13	MW12-05-01	LS1880	Ground W	16/02/2015 16:55	x	x		x		x		x	x		x	x	x	x				3
14	MW12-05-03	LS1881	Ground W	16/02/2015 17:30	x	x		x		x		x	x		x	x	x	x				3

B513093

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Shaun Roberts	2/17/2015	9:00

Print name and sign

Received by :	Date (yy/mm/dd):	Time (24 hr):
Laurel Berthier	2015/02/18	12:50

Time Sensitive ☑

Laboratory Use Only

Temperature on Receipt (°C): A) 1 B) 2 C) 1
Just sampled & rec'd on ice: ☐

Custody Seal: Present? ☐ Yes ☐ No ☑ Intact? ☐ Yes ☐ No ☐ N/A

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

Maxxam Analytics Success Through Science ©

Success Through Science®

Your P.O. #: 208977
Your Project #: MINTO ENV. MONITORING
Your C.O.C. #: 2015-03-23A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/03/27
Report #: R1836727
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B523706
Received: 2015/03/24, 09:50

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	2	2015/03/25	2015/03/25	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	2	N/A	2015/03/25	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	2	N/A	2015/03/25	BBY6SOP-00026	SM 22 2510 B m
Fluoride	2	N/A	2015/03/26	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	2	N/A	2015/03/27	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	2	N/A	2015/03/26	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	2	N/A	2015/03/27	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	2	N/A	2015/03/26	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	2	N/A	2015/03/26	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	2	N/A	2015/03/25	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	2	N/A	2015/03/25	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	2	N/A	2015/03/26	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	2	N/A	2015/03/26	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	2	N/A	2015/03/25	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	2	N/A	2015/03/25	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	2	2015/03/25	2015/03/26	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: 208977
Your Project #: MINTO ENV. MONITORING
Your C.O.C. #: 2015-03-23A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/03/27
Report #: R1836727
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B523706
Received: 2015/03/24, 09:50

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
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Maxxam Job #: B523706
Report Date: 2015/03/27

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Your P.O. #: 208977
Sampler Initials: PE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LY0073	LY0074		
Sampling Date		2015/03/20 12:00	2015/03/20 12:30		
COC Number		2015-03-23A	2015-03-23A		
	Units	MW12-07-01	MW12-07-02	RDL	QC Batch
ANIONS					
Nitrite (N)	mg/L	0.309 (1)	0.283 (1)	0.0050	7847252
Calculated Parameters					
Filter and HNO3 Preservation	N/A	FIELD	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.174	0.117	0.020	7845407
Misc. Inorganics					
Fluoride (F)	mg/L	0.950	1.30	0.010	7848362
Alkalinity (Total as CaCO3)	mg/L	337	101	0.50	7846674
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	7846674
Bicarbonate (HCO3)	mg/L	411	124	0.50	7846674
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	7846674
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	7846674
Anions					
Dissolved Sulphate (SO4)	mg/L	425	680	5.0	7847251
Dissolved Chloride (Cl)	mg/L	3.4	0.99	0.50	7847245
Nutrients					
Total Ammonia (N)	mg/L	0.30	0.069	0.0050	7848399
Nitrate plus Nitrite (N)	mg/L	0.483 (1)	0.400 (1)	0.020	7847247
Physical Properties					
Conductivity	uS/cm	1470	1390	1.0	7846686
pH	pH	7.38	7.83	N/A	7846687
Physical Properties					
Total Dissolved Solids	mg/L	1270	1060	10	7846650

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample arrived to laboratory past recommended hold time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B523706
Report Date: 2015/03/27

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Your P.O. #: 208977
Sampler Initials: PE

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		LY0073	LY0074		
Sampling Date		2015/03/20 12:00	2015/03/20 12:30		
COC Number		2015-03-23A	2015-03-23A		
	Units	MW12-07-01	MW12-07-02	RDL	QC Batch
Misc. Inorganics					
Dissolved Hardness (CaCO3)	mg/L	720	661	0.50	7845357
Elements					
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	0.010	7847730
Dissolved Metals by ICPMS					
Dissolved Aluminum (Al)	ug/L	14.6	5.1	3.0	7847139
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	7847139
Dissolved Arsenic (As)	ug/L	0.77	1.96	0.10	7847139
Dissolved Barium (Ba)	ug/L	47.7	13.7	1.0	7847139
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	7847139
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	7847139
Dissolved Boron (B)	ug/L	557	240	50	7847139
Dissolved Cadmium (Cd)	ug/L	0.027	<0.010	0.010	7847139
Dissolved Chromium (Cr)	ug/L	1.2	<1.0	1.0	7847139
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	7847139
Dissolved Copper (Cu)	ug/L	0.38	0.81	0.20	7847139
Dissolved Iron (Fe)	ug/L	698	229	5.0	7847139
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	0.20	7847139
Dissolved Lithium (Li)	ug/L	21.6	23.6	5.0	7847139
Dissolved Manganese (Mn)	ug/L	481	116	1.0	7847139
Dissolved Molybdenum (Mo)	ug/L	1.0	19.0	1.0	7847139
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	7847139
Dissolved Phosphorus (P)	ug/L	<10	<10	10	7847139
Dissolved Selenium (Se)	ug/L	0.82	0.11	0.10	7847139
Dissolved Silicon (Si)	ug/L	9410	6650	100	7847139
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	7847139
Dissolved Strontium (Sr)	ug/L	10100	10200	1.0	7847139
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7847139
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	7847139
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	7847139
Dissolved Uranium (U)	ug/L	<0.10	1.53	0.10	7847139
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	7847139
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	7847139
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	0.50	7847139
Dissolved Calcium (Ca)	mg/L	245	212	0.050	7845604
Dissolved Magnesium (Mg)	mg/L	26.5	31.7	0.050	7845604
RDL = Reportable Detection Limit					

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Maxxam Job #: B523706
Report Date: 2015/03/27

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Your P.O. #: 208977
Sampler Initials: PE

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		LY0073	LY0074		
Sampling Date		2015/03/20 12:00	2015/03/20 12:30		
COC Number		2015-03-23A	2015-03-23A		
	Units	**MW12-07-01**	**MW12-07-02**	**RDL**	**QC Batch**
Dissolved Potassium (K)	mg/L	3.22	2.80	0.050	7845604
Dissolved Sodium (Na)	mg/L	77.2	66.8	0.050	7845604
Dissolved Sulphur (S)	mg/L	153	238	3.0	7845604
RDL = Reportable Detection Limit					

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Maxxam Job #: B523706
Report Date: 2015/03/27

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Your P.O. #: 208977
Sampler Initials: PE

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample containers and preservation received were not in compliance. Maxxam added HCl to stabilize Mercury in these samples prior to analysis.

Results relate only to the items tested.

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Maxxam Job #: B523706
Report Date: 2015/03/27

QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Your P.O. #: 208977
Sampler Initials: PE

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7846650	Total Dissolved Solids	2015/03/26	NC	80 - 120	98	80 - 120	<10	mg/L	2.0	20
7846674	Alkalinity (PP as CaCO3)	2015/03/25					<0.50	mg/L	NC	20
7846674	Alkalinity (Total as CaCO3)	2015/03/25	NC	80 - 120	90	80 - 120	<0.50	mg/L	0.43	20
7846674	Bicarbonate (HCO3)	2015/03/25					<0.50	mg/L	0.44	20
7846674	Carbonate (CO3)	2015/03/25					<0.50	mg/L	NC	20
7846674	Hydroxide (OH)	2015/03/25					<0.50	mg/L	NC	20
7846686	Conductivity	2015/03/25			98	80 - 120	<1.0	uS/cm	0.13	20
7846687	pH	2015/03/25			102	97 - 103			0.13	N/A
7847139	Dissolved Aluminum (Al)	2015/03/26	99	80 - 120	110	80 - 120	<3.0	ug/L	NC	20
7847139	Dissolved Antimony (Sb)	2015/03/26	103	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
7847139	Dissolved Arsenic (As)	2015/03/26	NC	80 - 120	105	80 - 120	<0.10	ug/L	0.64	20
7847139	Dissolved Barium (Ba)	2015/03/26	NC	80 - 120	106	80 - 120	<1.0	ug/L	3.3	20
7847139	Dissolved Beryllium (Be)	2015/03/26	99	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
7847139	Dissolved Bismuth (Bi)	2015/03/26	86	80 - 120	107	80 - 120	<1.0	ug/L	NC	20
7847139	Dissolved Boron (B)	2015/03/26					<50	ug/L	5.4	20
7847139	Dissolved Cadmium (Cd)	2015/03/26	98	80 - 120	103	80 - 120	<0.010	ug/L	NC	20
7847139	Dissolved Chromium (Cr)	2015/03/26	95	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
7847139	Dissolved Cobalt (Co)	2015/03/26	92	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
7847139	Dissolved Copper (Cu)	2015/03/26	92	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
7847139	Dissolved Iron (Fe)	2015/03/26	NC	80 - 120	107	80 - 120	<5.0	ug/L	0.052	20
7847139	Dissolved Lead (Pb)	2015/03/26	95	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
7847139	Dissolved Lithium (Li)	2015/03/26	NC	80 - 120	101	80 - 120	<5.0	ug/L	1.7	20
7847139	Dissolved Manganese (Mn)	2015/03/26	NC	80 - 120	104	80 - 120	<1.0	ug/L	0.40	20
7847139	Dissolved Molybdenum (Mo)	2015/03/26	NC	80 - 120	104	80 - 120	<1.0	ug/L	4.2	20
7847139	Dissolved Nickel (Ni)	2015/03/26	86	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
7847139	Dissolved Phosphorus (P)	2015/03/26					<10	ug/L		
7847139	Dissolved Selenium (Se)	2015/03/26	89	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
7847139	Dissolved Silicon (Si)	2015/03/26					<100	ug/L	4.4	20
7847139	Dissolved Silver (Ag)	2015/03/26	79 (1)	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
7847139	Dissolved Strontium (Sr)	2015/03/26	NC	80 - 120	105	80 - 120	<1.0	ug/L	3.5	20
7847139	Dissolved Thallium (Tl)	2015/03/26	93	80 - 120	103	80 - 120	<0.050	ug/L	NC	20

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Maxxam Job #: B523706
Report Date: 2015/03/27

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Your P.O. #: 208977
Sampler Initials: PE

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7847139	Dissolved Tin (Sn)	2015/03/26	90	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
7847139	Dissolved Titanium (Ti)	2015/03/26	108	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
7847139	Dissolved Uranium (U)	2015/03/26	93	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
7847139	Dissolved Vanadium (V)	2015/03/26	103	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
7847139	Dissolved Zinc (Zn)	2015/03/26	95	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
7847139	Dissolved Zirconium (Zr)	2015/03/26					<0.50	ug/L	NC	20
7847245	Dissolved Chloride (Cl)	2015/03/25	98	80 - 120	99	80 - 120	<0.50	mg/L	3.1	20
7847247	Nitrate plus Nitrite (N)	2015/03/25	NC	80 - 120	101	80 - 120	<0.020	mg/L	1.6	25
7847251	Dissolved Sulphate (SO4)	2015/03/25	NC	80 - 120	92	80 - 120	<0.50	mg/L	1.3	20
7847252	Nitrite (N)	2015/03/25	NC	80 - 120	99	80 - 120	<0.0050	mg/L	0.29	20
7847730	Dissolved Mercury (Hg)	2015/03/26	95	80 - 120	93	80 - 120	<0.010	ug/L	NC	20
7848362	Fluoride (F)	2015/03/26	99	80 - 120	96	80 - 120	<0.010	mg/L	3.1	20
7848399	Total Ammonia (N)	2015/03/26	93	80 - 120	112	80 - 120	<0.0050	mg/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B523706
Report Date: 2015/03/27

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Your P.O. #: 208977
Sampler Initials: PE

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Rob Reinert, Data Validation Coordinator

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Maxxam Job #: B523706 **COC #:** Click here to get the COC number 2015-03-23 A Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name: Minto Explorations Ltd
Contact Name: Elvina Wong
Address: Suite 900 - 999 West Hastings St, Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail

Report To:

Company Name: Minto Explorations Ltd
Contact Name: Minto Environment
Address: Suite 900-999 West Hastings St, Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail: minto_environment@mintomine.com

PO #: 208977
Quotation #:
Project # :
Proj. Name: Minto Env. Monitoring
Location: Yukon
Sampled by: PE/MC

REGULATORY REQUIREMENTS:

☐ CSR
☑ CCME
☐ BC Water Quality
☐ Other
☐ DRINKING WATER

SERVICE REQUESTED:

◉ Regular Turn Around Time (TAT)
(5 days for most tests)
RUSH (Please contact the lab)
○ 1 Day ○ 2 Day ○ 3 Day
Date Required:

SPECIAL INSTRUCTIONS:
Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Use Only: Lab Identification	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DIM) Field Filtered?	Total Metals Field Acidified?	Nitrate ☑ Nitrite ☑ Ammonia ☑ Field Acidified?	Total Suspended Solids (TSS) TDS ☑	pH ☑ Conductivity ☑ Alkalinity ☑	Chloride ☑ Fluoride ☑ Sulphate ☑	Number of Containers
					Y ☑ N ☐	Y ☑ N ☐	Y ☐ N ☑				
1	MW12-07-01	LY0073	Ground W	15/03/20 12:00	x	x	x	x	x	x	3
2	MW12-07-02	LY0074	Ground W	15/03/20 12:30	x	x	x	x	x	x	3
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

B523706

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Martin Crill	15/03/23	08:00

Print name and sign

Received by:	Date (yy/mm/dd):	Time (24 hr):
[signature]	2015/03/24	09:50

Laboratory Use Only

Time Sensitive ☑

Temperature on Receipt (°C): A) B) C)
Just sampled & rec'd on ice: ☐

Custody Seal Present? Yes ☐ No ☑
Intact? Yes ☐ No ☐ N/A

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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Success Through Science®

Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-04-25 A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/05/04
Report #: R1868255
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B533921
Received: 2015/04/27, 13:15

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	3	2015/04/28	2015/04/28	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	3	N/A	2015/04/28	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	3	N/A	2015/04/28	BBY6SOP-00026	SM 22 2510 B m
Fluoride	3	N/A	2015/04/29	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	3	N/A	2015/04/30	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	1	N/A	2015/04/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAF	2	N/A	2015/05/01	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	3	N/A	2015/04/30	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	3	N/A	2015/04/30	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	3	N/A	2015/04/29	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	3	N/A	2015/04/28	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	3	N/A	2015/04/28	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	3	N/A	2015/04/28	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	3	N/A	2015/04/28	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	3	N/A	2015/04/28	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	3	N/A	2015/04/28	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	3	2015/04/30	2015/05/02	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

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Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-04-25 A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/05/04
Report #: R1868255
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B533921
Received: 2015/04/27, 13:15

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
This report has been generated and distributed using a secure automated process.
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Job #: B533921
Report Date: 2015/05/04

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: HM

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		MD0358		MD0359		MD0360		
Sampling Date		2015/04/24 11:15		2015/04/24 11:25		2015/04/24		
COC Number		2015-04-25 A		2015-04-25 A		2015-04-25 A		
	Units	MW12-07-01	QC Batch	MW12-07-02	QC Batch	DUP	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	0.255 (1)	7885180	0.286 (1)	7885180	0.184 (1)	0.0050	7885180
Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.122	7883288	0.129	7883288	0.084	0.020	7883288
Misc. Inorganics								
Fluoride (F)	mg/L	1.00	7887455	1.40	7887455	1.40	0.010	7887455
Alkalinity (Total as CaCO3)	mg/L	356	7885160	101	7885131	101	0.50	7885160
Alkalinity (PP as CaCO3)	mg/L	<0.50	7885160	<0.50	7885131	<0.50	0.50	7885160
Bicarbonate (HCO3)	mg/L	435	7885160	123	7885131	123	0.50	7885160
Carbonate (CO3)	mg/L	<0.50	7885160	<0.50	7885131	<0.50	0.50	7885160
Hydroxide (OH)	mg/L	<0.50	7885160	<0.50	7885131	<0.50	0.50	7885160
Anions								
Dissolved Sulphate (SO4)	mg/L	423	7885505	667	7885505	644	5.0	7885505
Dissolved Chloride (Cl)	mg/L	3.5	7885503	1.3	7885503	1.3	0.50	7885503
Nutrients								
Total Ammonia (N)	mg/L	0.31	7886683	0.074	7886683	0.059	0.0050	7886683
Nitrate plus Nitrite (N)	mg/L	0.377 (1)	7885175	0.415 (1)	7885175	0.268 (1)	0.020	7885175
Physical Properties								
Conductivity	uS/cm	1520	7885162	1420	7885138	1420	1.0	7885162
pH	pH	7.39	7885163	7.77	7885139	7.75	N/A	7885163
Physical Properties								
Total Dissolved Solids	mg/L	1270	7887844	1090	7887844	1070	10	7887844

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

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Maxxam Job #: B533921
Report Date: 2015/05/04

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: HM

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MD0358		MD0359	MD0360		
Sampling Date		2015/04/24 11:15		2015/04/24 11:25	2015/04/24		
COC Number		2015-04-25 A		2015-04-25 A	2015-04-25 A		
	Units	MW12-07-01	QC Batch	MW12-07-02	DUP	RDL	QC Batch
Misc. Inorganics							
Dissolved Hardness (CaCO3)	mg/L	754	7883191	675	678	0.50	7883191
Elements							
Dissolved Mercury (Hg)	ug/L	<0.010	7887350	<0.010	<0.010	0.010	7888627
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	15.3	7885678	6.6	8.1	3.0	7885678
Dissolved Antimony (Sb)	ug/L	<0.50	7885678	<0.50	<0.50	0.50	7885678
Dissolved Arsenic (As)	ug/L	0.98	7885678	2.09	2.14	0.10	7885678
Dissolved Barium (Ba)	ug/L	51.4	7885678	14.2	13.3	1.0	7885678
Dissolved Beryllium (Be)	ug/L	<0.10	7885678	<0.10	<0.10	0.10	7885678
Dissolved Bismuth (Bi)	ug/L	<1.0	7885678	<1.0	<1.0	1.0	7885678
Dissolved Boron (B)	ug/L	641	7885678	318	322	50	7885678
Dissolved Cadmium (Cd)	ug/L	<0.010	7885678	<0.010	<0.010	0.010	7885678
Dissolved Chromium (Cr)	ug/L	1.3	7885678	<1.0	<1.0	1.0	7885678
Dissolved Cobalt (Co)	ug/L	<0.50	7885678	<0.50	<0.50	0.50	7885678
Dissolved Copper (Cu)	ug/L	0.23	7885678	<0.20	<0.20	0.20	7885678
Dissolved Iron (Fe)	ug/L	619	7885678	262	250	5.0	7885678
Dissolved Lead (Pb)	ug/L	<0.20	7885678	<0.20	<0.20	0.20	7885678
Dissolved Lithium (Li)	ug/L	24.3	7885678	28.1	28.6	5.0	7885678
Dissolved Manganese (Mn)	ug/L	559	7885678	122	118	1.0	7885678
Dissolved Molybdenum (Mo)	ug/L	1.6	7885678	21.2	21.7	1.0	7885678
Dissolved Nickel (Ni)	ug/L	<1.0	7885678	<1.0	<1.0	1.0	7885678
Dissolved Phosphorus (P)	ug/L	17	7885678	11	11	10	7885678
Dissolved Selenium (Se)	ug/L	0.42	7885678	<0.10	<0.10	0.10	7885678
Dissolved Silicon (Si)	ug/L	9380	7885678	7050	6920	100	7885678
Dissolved Silver (Ag)	ug/L	<0.020	7885678	<0.020	<0.020	0.020	7885678
Dissolved Strontium (Sr)	ug/L	10700	7885678	10700	11100	1.0	7885678
Dissolved Thallium (Tl)	ug/L	<0.050	7885678	<0.050	<0.050	0.050	7885678
Dissolved Tin (Sn)	ug/L	<5.0	7885678	<5.0	<5.0	5.0	7885678
Dissolved Titanium (Ti)	ug/L	<5.0	7885678	<5.0	<5.0	5.0	7885678
Dissolved Uranium (U)	ug/L	<0.10	7885678	1.54	1.65	0.10	7885678
Dissolved Vanadium (V)	ug/L	<5.0	7885678	<5.0	<5.0	5.0	7885678
Dissolved Zinc (Zn)	ug/L	<5.0	7885678	<5.0	6.4	5.0	7885678
Dissolved Zirconium (Zr)	ug/L	<0.50	7885678	<0.50	<0.50	0.50	7885678
Dissolved Calcium (Ca)	mg/L	254	7883193	212	215	0.050	7883193
RDL = Reportable Detection Limit							

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Maxxam Job #: B533921
Report Date: 2015/05/04

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: HM

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MD0358		MD0359	MD0360		
Sampling Date		2015/04/24 11:15		2015/04/24 11:25	2015/04/24		
COC Number		2015-04-25 A		2015-04-25 A	2015-04-25 A		
	Units	**MW12-07-01**	**QC Batch**	**MW12-07-02**	**DUP**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	29.1	7883193	35.3	34.2	0.050	7883193
Dissolved Potassium (K)	mg/L	3.44	7883193	2.87	3.00	0.050	7883193
Dissolved Sodium (Na)	mg/L	82.5	7883193	72.0	71.8	0.050	7883193
Dissolved Sulphur (S)	mg/L	175	7883193	270	283	3.0	7883193
RDL = Reportable Detection Limit							

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Maxxam Job #: B533921
Report Date: 2015/05/04

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: HM

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample containers and preservation received were not in compliance. Maxxam added HCl to stabilize Mercury in these samples prior to analysis.

Results relate only to the items tested.

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Maxxam Job #: B533921
Report Date: 2015/05/04

QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: HM

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7885131	Alkalinity (PP as CaCO3)	2015/04/28					<0.50	mg/L	NC	20
7885131	Alkalinity (Total as CaCO3)	2015/04/28	NC	80 - 120	93	80 - 120	<0.50	mg/L	1.2	20
7885131	Bicarbonate (HCO3)	2015/04/28					<0.50	mg/L	1.2	20
7885131	Carbonate (CO3)	2015/04/28					<0.50	mg/L	NC	20
7885131	Hydroxide (OH)	2015/04/28					<0.50	mg/L	NC	20
7885138	Conductivity	2015/04/28			102	80 - 120	<1.0	uS/cm	0.91	20
7885139	pH	2015/04/28			102	97 - 103			1.7	N/A
7885160	Alkalinity (PP as CaCO3)	2015/04/28					<0.50	mg/L	NC	20
7885160	Alkalinity (Total as CaCO3)	2015/04/28	111	80 - 120	96	80 - 120	<0.50	mg/L	4.7	20
7885160	Bicarbonate (HCO3)	2015/04/28					<0.50	mg/L	2.3	20
7885160	Carbonate (CO3)	2015/04/28					<0.50	mg/L	NC	20
7885160	Hydroxide (OH)	2015/04/28					<0.50	mg/L		
7885162	Conductivity	2015/04/28			98	80 - 120	<1.0	uS/cm	0.072	20
7885163	pH	2015/04/28			101	97 - 103			0.26	N/A
7885175	Nitrate plus Nitrite (N)	2015/04/28	105	80 - 120	105	80 - 120	<0.020	mg/L	NC	25
7885180	Nitrite (N)	2015/04/28	101	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20
7885503	Dissolved Chloride (Cl)	2015/04/28	110	80 - 120	96	80 - 120	0.94, RDL=0.50	mg/L	3.5	20
7885505	Dissolved Sulphate (SO4)	2015/04/28	106	80 - 120	91	80 - 120	<0.50	mg/L	10	20
7885678	Dissolved Aluminum (Al)	2015/04/29	99	80 - 120	103	80 - 120	<3.0	ug/L		
7885678	Dissolved Antimony (Sb)	2015/04/29	100	80 - 120	98	80 - 120	<0.50	ug/L		
7885678	Dissolved Arsenic (As)	2015/04/29	96	80 - 120	96	80 - 120	<0.10	ug/L		
7885678	Dissolved Barium (Ba)	2015/04/29	NC	80 - 120	101	80 - 120	<1.0	ug/L		
7885678	Dissolved Beryllium (Be)	2015/04/29	97	80 - 120	100	80 - 120	<0.10	ug/L		
7885678	Dissolved Bismuth (Bi)	2015/04/29	96	80 - 120	97	80 - 120	<1.0	ug/L		
7885678	Dissolved Boron (B)	2015/04/29					<50	ug/L		
7885678	Dissolved Cadmium (Cd)	2015/04/29	96	80 - 120	97	80 - 120	<0.010	ug/L		
7885678	Dissolved Chromium (Cr)	2015/04/29	92	80 - 120	94	80 - 120	<1.0	ug/L		
7885678	Dissolved Cobalt (Co)	2015/04/29	89	80 - 120	94	80 - 120	<0.50	ug/L		
7885678	Dissolved Copper (Cu)	2015/04/29	91	80 - 120	94	80 - 120	<0.20	ug/L		
7885678	Dissolved Iron (Fe)	2015/04/29	99	80 - 120	107	80 - 120	<5.0	ug/L		
7885678	Dissolved Lead (Pb)	2015/04/29	94	80 - 120	97	80 - 120	<0.20	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: HM

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7885678	Dissolved Lithium (Li)	2015/04/29	98	80 - 120	105	80 - 120	<5.0	ug/L		
7885678	Dissolved Manganese (Mn)	2015/04/29	94	80 - 120	96	80 - 120	<1.0	ug/L		
7885678	Dissolved Molybdenum (Mo)	2015/04/29	NC	80 - 120	98	80 - 120	<1.0	ug/L		
7885678	Dissolved Nickel (Ni)	2015/04/29	91	80 - 120	94	80 - 120	<1.0	ug/L		
7885678	Dissolved Phosphorus (P)	2015/04/29					<10	ug/L		
7885678	Dissolved Selenium (Se)	2015/04/29	93	80 - 120	94	80 - 120	<0.10	ug/L		
7885678	Dissolved Silicon (Si)	2015/04/29					<100	ug/L		
7885678	Dissolved Silver (Ag)	2015/04/29	98	80 - 120	81	80 - 120	<0.020	ug/L		
7885678	Dissolved Strontium (Sr)	2015/04/29	NC	80 - 120	98	80 - 120	<1.0	ug/L		
7885678	Dissolved Thallium (Tl)	2015/04/29	83	80 - 120	100	80 - 120	<0.050	ug/L		
7885678	Dissolved Tin (Sn)	2015/04/29	96	80 - 120	97	80 - 120	<5.0	ug/L		
7885678	Dissolved Titanium (Ti)	2015/04/29	98	80 - 120	93	80 - 120	<5.0	ug/L		
7885678	Dissolved Uranium (U)	2015/04/29	93	80 - 120	94	80 - 120	<0.10	ug/L		
7885678	Dissolved Vanadium (V)	2015/04/29	92	80 - 120	95	80 - 120	<5.0	ug/L		
7885678	Dissolved Zinc (Zn)	2015/04/29	98	80 - 120	94	80 - 120	<5.0	ug/L		
7885678	Dissolved Zirconium (Zr)	2015/04/29					<0.50	ug/L		
7886683	Total Ammonia (N)	2015/04/29	NC	80 - 120	95	80 - 120	<0.0050	mg/L	0.41	20
7887350	Dissolved Mercury (Hg)	2015/04/30	83	80 - 120	88	80 - 120	<0.010	ug/L	NC	20
7887455	Fluoride (F)	2015/04/29	NC	80 - 120	102	80 - 120	<0.010	mg/L	0	20
7887844	Total Dissolved Solids	2015/05/02	101	80 - 120	102	80 - 120	<10	mg/L	1.7	20
7888627	Dissolved Mercury (Hg)	2015/05/01	91	80 - 120	89	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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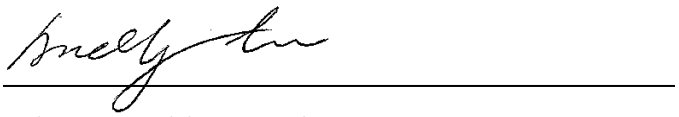
Maxxam Job #: B533921
Report Date: 2015/05/04

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: HM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Data Validation Coordinator

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Click here to get the COC number

Maxxam Job #: B533921 **COC #:** 2015-04-25 A Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name:	Minto Explorations Ltd
Contact Name:	Elvina Wong
Address:	Suite 900 - 999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	

Report To:

Company Name:	Minto Explorations Ltd
Contact Name:	Minto Environment
Address:	Suite 900-999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	minto_environment@mintomine.com

PO #:	214158
Quotation #:	
Project # :	
Proj. Name:	Minto Env. Monitoring
Location:	Yukon
Sampled by:	HelainaM, ChrisH

REGULATORY REQUIREMENTS:

- ☐ CSR
- ☑ CCME
- ☐ BC Water Quality
- ☐ Other
- ☐ DRINKING WATER

SERVICE REQUESTED:

- ◉ Regular Turn Around Time (TAT) (5 days for most tests)
- **RUSH** (Please contact the lab) ○ 1 Day ○ 2 Day ○ 3 Day
- Date Required:

SPECIAL INSTRUCTIONS:

Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Use Only: Lab Identification	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM)	Field Filtered? Y/N	Total Metals	Field Acidified? Y/N	Nitrate ☑	Nitrite ☑	Total Suspended Solids (TSS)	Ammonia ☑	pH ☑	Conductivity ☑	Chloride ☑	Alkalinity ☑	Fluoride ☑	Sulphate ☑	Number of Containers
1	MW12-07-01	MD0358	Ground W	24/04/2015 11:15	x	x			x		x		x		x				3
2	MW12-07-02	MD0359	Ground W	24/04/2015 11:25	x	x			x		x		x		x				3
3		MD0360																	
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

B533921

Print name and sign

Print name and sign

2015/04/27

Laboratory Use Only

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):	Received by:	Date (yy/mm/dd):	Time (24 hr):	Time Sensitive	Temperature on Receipt (°C)	Custody Seal	Yes	No
Helaina Moses	25-Apr-15	7:30		2015/04/27	13:10 13:15	☑	A) 2 B) 3 C) 2 Just sampled & rec'd on ice: ☐	Present? ☐ Intact? ☐	☐ ☐	☑ N/A

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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Your P.O. #: 214158
Your Project #: MINTO ENV MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-05-06 A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/05/15
Report #: R1921313
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B537498
Received: 2015/05/07, 09:35

Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	9	2015/05/07	2015/05/07	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	9	N/A	2015/05/08	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	9	N/A	2015/05/07	BBY6SOP-00026	SM 22 2510 B m
Fluoride	9	N/A	2015/05/08	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	9	N/A	2015/05/11	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	9	N/A	2015/05/15	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	9	N/A	2015/05/11	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	9	N/A	2015/05/08	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	9	N/A	2015/05/11	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	9	N/A	2015/05/08	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	9	N/A	2015/05/08	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	9	N/A	2015/05/08	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	9	N/A	2015/05/08	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	9	N/A	2015/05/07	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	7	N/A	2015/05/08	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate by Automated Colourimetry	2	N/A	2015/05/11	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	5	2015/05/08	2015/05/11	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	4	2015/05/11	2015/05/12	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

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Your P.O. #: 214158
Your Project #: MINTO ENV MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-05-06 A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/05/15
Report #: R1921313
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B537498
Received: 2015/05/07, 09:35

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
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Maxxam Job #: B537498
Report Date: 2015/05/15

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV MONITORING
Site Location: YUKON
Your P.O. #: 214158

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		ME7292	ME7293			ME7294		ME7295		
Sampling Date		2015/05/04 14:00	2015/05/04 15:00			2015/05/04 15:30		2015/05/04 16:15		
COC Number		2015-05-06 A	2015-05-06 A			2015-05-06 A		2015-05-06 A		
	Units	MW12-05-01	MW12-05-03	RDL	QC Batch	MW12-05-05	QC Batch	MW12-05-07	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	0.0416 (1)	0.0276 (1)	0.0050	7896018	0.0460 (1)	7896018	0.0149 (1)	0.0050	7896018
Calculated Parameters										
Filter and HNO3 Preservation	N/A	FIELD	FIELD	N/A	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	<0.020	0.020	7894446	0.425	7894446	<0.020	0.020	7894446
Misc. Inorganics										
Fluoride (F)	mg/L	1.20	1.20	0.010	7898128	0.540	7898128	0.540	0.010	7898128
Alkalinity (Total as CaCO3)	mg/L	164	242	0.50	7895168	206	7895168	226	0.50	7895168
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	7895168	<0.50	7895168	<0.50	0.50	7895168
Bicarbonate (HCO3)	mg/L	200	295	0.50	7895168	251	7895168	276	0.50	7895168
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	7895168	<0.50	7895168	<0.50	0.50	7895168
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	7895168	<0.50	7895168	<0.50	0.50	7895168
Anions										
Dissolved Sulphate (SO4)	mg/L	822	812	5.0	7896587	62.4	7898881	41.0	0.50	7896587
Dissolved Chloride (Cl)	mg/L	13	9.4	0.50	7896585	5.6	7896585	6.1	0.50	7896585
Nutrients										
Total Ammonia (N)	mg/L	0.15	0.040	0.0050	7898428	0.036	7898428	0.080	0.0050	7898449
Nitrate plus Nitrite (N)	mg/L	0.057 (1)	0.042 (1)	0.020	7896014	0.471 (1)	7896014	<0.020 (1)	0.020	7896014
Physical Properties										
Conductivity	uS/cm	1810	1840	1.0	7895170	511	7895170	518	1.0	7895170
pH	pH	7.88	7.81	N/A	7895169	7.89	7895169	8.06	N/A	7895169
Physical Properties										
Total Dissolved Solids	mg/L	1380	1490	10	7895008	316	7895008	288	10	7895008

RDL = Reportable Detection Limit

N/A = Not Applicable

(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

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Maxxam Job #: B537498
Report Date: 2015/05/15

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV MONITORING
Site Location: YUKON
Your P.O. #: 214158

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		ME7296		ME7297			ME7298		
Sampling Date		2015/05/04		2015/05/05 14:35			2015/05/05 15:20		
COC Number		2015-05-06 A		2015-05-06 A			2015-05-06 A		
	Units	DUP	QC Batch	MW12-06-02	RDL	QC Batch	MW12-06-04	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	0.0494 (1)	7896018	0.183	0.0050	7896018	0.173	0.0050	7896018
Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	N/A	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	7894446	0.051	0.020	7894446	0.049	0.020	7894446
Misc. Inorganics									
Fluoride (F)	mg/L	1.20	7898128	1.50	0.010	7898128	1.30	0.010	7898128
Alkalinity (Total as CaCO3)	mg/L	164	7895168	354	0.50	7895168	404	0.50	7895168
Alkalinity (PP as CaCO3)	mg/L	<0.50	7895168	<0.50	0.50	7895168	<0.50	0.50	7895168
Bicarbonate (HCO3)	mg/L	200	7895168	432	0.50	7895168	493	0.50	7895168
Carbonate (CO3)	mg/L	<0.50	7895168	<0.50	0.50	7895168	<0.50	0.50	7895168
Hydroxide (OH)	mg/L	<0.50	7895168	<0.50	0.50	7895168	<0.50	0.50	7895168
Anions									
Dissolved Sulphate (SO4)	mg/L	817	7896587	204	5.0	7898881	168	0.50	7896587
Dissolved Chloride (Cl)	mg/L	12	7896585	1.9	0.50	7896585	1.5	0.50	7896585
Nutrients									
Total Ammonia (N)	mg/L	0.14	7898428	0.057	0.0050	7898428	0.019	0.0050	7898449
Nitrate plus Nitrite (N)	mg/L	0.062 (1)	7896014	0.233	0.020	7896014	0.222	0.020	7896014
Physical Properties									
Conductivity	uS/cm	1790	7895170	992	1.0	7895170	1010	1.0	7895170
pH	pH	7.86	7895169	7.67	N/A	7895169	7.81	N/A	7895169
Physical Properties									
Total Dissolved Solids	mg/L	1400	7895008	612	10	7897500	604	10	7897500

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

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Report Date: 2015/05/15

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV MONITORING
Site Location: YUKON
Your P.O. #: 214158

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		ME7299		ME7300		
Sampling Date		2015/05/05 15:45		2015/05/05		
COC Number		2015-05-06 A		2015-05-06 A		
	Units	MW12-06-06	QC Batch	DUP	RDL	QC Batch
ANIONS						
Nitrite (N)	mg/L	0.0629	7896018	0.176	0.0050	7896018
Calculated Parameters						
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.893	7894446	0.066	0.020	7894446
Misc. Inorganics						
Fluoride (F)	mg/L	0.650	7898128	1.30	0.010	7898128
Alkalinity (Total as CaCO3)	mg/L	310	7895168	401	0.50	7895168
Alkalinity (PP as CaCO3)	mg/L	<0.50	7895168	<0.50	0.50	7895168
Bicarbonate (HCO3)	mg/L	378	7895168	490	0.50	7895168
Carbonate (CO3)	mg/L	<0.50	7895168	<0.50	0.50	7895168
Hydroxide (OH)	mg/L	<0.50	7895168	<0.50	0.50	7895168
Anions						
Dissolved Sulphate (SO4)	mg/L	145	7896587	166	0.50	7896587
Dissolved Chloride (Cl)	mg/L	5.1	7896585	1.2	0.50	7896585
Nutrients						
Total Ammonia (N)	mg/L	0.033	7898428	0.014	0.0050	7898449
Nitrate plus Nitrite (N)	mg/L	0.956	7896014	0.242	0.020	7896014
Physical Properties						
Conductivity	uS/cm	836	7895170	1010	1.0	7895170
pH	pH	7.87	7895169	7.91	N/A	7895169
Physical Properties						
Total Dissolved Solids	mg/L	478	7897500	594	10	7897500

RDL = Reportable Detection Limit
N/A = Not Applicable

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MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV MONITORING
Site Location: YUKON
Your P.O. #: 214158

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		ME7292	ME7293	ME7294	ME7295	ME7296	ME7297		
Sampling Date		2015/05/04 14:00	2015/05/04 15:00	2015/05/04 15:30	2015/05/04 16:15	2015/05/04	2015/05/05 14:35		
COC Number		2015-05-06 A	2015-05-06 A	2015-05-06 A	2015-05-06 A	2015-05-06 A	2015-05-06 A		
	Units	**MW12-05-01**	**MW12-05-03**	**MW12-05-05**	**MW12-05-07**	**DUP**	**MW12-06-02**	**RDL**	**QC Batch**
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	743	821	222	227	757	492	0.50	7894334
Elements									
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7903310
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	9.0	7.3	3.5	6.3	8.9	5.3	3.0	7895904
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7895904
Dissolved Arsenic (As)	ug/L	2.16	0.77	0.43	0.46	1.40	6.17	0.10	7895904
Dissolved Barium (Ba)	ug/L	63.3	55.9	73.4	929	67.9	46.0	1.0	7895904
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7895904
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7895904
Dissolved Boron (B)	ug/L	199	102	51	<50	193	311	50	7895904
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7895904
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7895904
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7895904
Dissolved Copper (Cu)	ug/L	<0.20	<0.20	0.66	<0.20	<0.20	<0.20	0.20	7895904
Dissolved Iron (Fe)	ug/L	31.1	1900	28.2	194	26.6	1220	5.0	7895904
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7895904
Dissolved Lithium (Li)	ug/L	7.3	6.6	<5.0	<5.0	7.3	9.7	5.0	7895904
Dissolved Manganese (Mn)	ug/L	109	2520	181	683	111	37.7	1.0	7895904
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	4.1	3.8	<1.0	5.9	1.0	7895904
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7895904
Dissolved Phosphorus (P)	ug/L	18	<10	<10	53	14	<10	10	7895904
Dissolved Selenium (Se)	ug/L	0.14	<0.10	<0.10	<0.10	<0.10	0.13	0.10	7895904
Dissolved Silicon (Si)	ug/L	7870	8800	6310	6450	7920	12200	100	7895904
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7895904
Dissolved Strontium (Sr)	ug/L	6730	8050	786	742	6950	10800	1.0	7895904
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7895904
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7895904
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7895904
Dissolved Uranium (U)	ug/L	0.93	1.09	2.44	1.91	0.91	2.45	0.10	7895904
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7895904
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	6.7	<5.0	<5.0	8.5	5.0	7895904
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7895904
Dissolved Calcium (Ca)	mg/L	246	215	47.6	52.1	251	142	0.050	7894371

RDL = Reportable Detection Limit

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MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV MONITORING
Site Location: YUKON
Your P.O. #: 214158

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		ME7292	ME7293	ME7294	ME7295	ME7296	ME7297		
Sampling Date		2015/05/04 14:00	2015/05/04 15:00	2015/05/04 15:30	2015/05/04 16:15	2015/05/04	2015/05/05 14:35		
COC Number		2015-05-06 A	2015-05-06 A	2015-05-06 A	2015-05-06 A	2015-05-06 A	2015-05-06 A		
	Units	**MW12-05-01**	**MW12-05-03**	**MW12-05-05**	**MW12-05-07**	**DUP**	**MW12-06-02**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	31.5	69.1	25.1	23.6	31.7	33.5	0.050	7894371
Dissolved Potassium (K)	mg/L	3.51	4.08	2.25	2.05	3.40	3.81	0.050	7894371
Dissolved Sodium (Na)	mg/L	122	102	15.5	14.6	124	39.8	0.050	7894371
Dissolved Sulphur (S)	mg/L	278	265	18.2	15.7	282	66.6	3.0	7894371

RDL = Reportable Detection Limit

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Report Date: 2015/05/15

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV MONITORING
Site Location: YUKON
Your P.O. #: 214158

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		ME7298	ME7299	ME7300		
Sampling Date		2015/05/05 15:20	2015/05/05 15:45	2015/05/05		
COC Number		2015-05-06 A	2015-05-06 A	2015-05-06 A		
	Units	MW12-06-04	MW12-06-06	DUP	RDL	QC Batch
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	468	371	478	0.50	7894334
Elements						
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	0.010	7903310
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	3.1	<3.0	3.2	3.0	7895904
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	7895904
Dissolved Arsenic (As)	ug/L	2.32	0.19	2.19	0.10	7895904
Dissolved Barium (Ba)	ug/L	20.0	14.7	19.8	1.0	7895904
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	7895904
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	7895904
Dissolved Boron (B)	ug/L	148	88	144	50	7895904
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	0.010	7895904
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	7895904
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	0.50	7895904
Dissolved Copper (Cu)	ug/L	0.54	<0.20	72.2	0.20	7895904
Dissolved Iron (Fe)	ug/L	667	10.6	651	5.0	7895904
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	0.20	7895904
Dissolved Lithium (Li)	ug/L	6.6	<5.0	6.7	5.0	7895904
Dissolved Manganese (Mn)	ug/L	44.2	21.5	46.3	1.0	7895904
Dissolved Molybdenum (Mo)	ug/L	8.5	6.0	8.7	1.0	7895904
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	1.0	7895904
Dissolved Phosphorus (P)	ug/L	<10	<10	<10	10	7895904
Dissolved Selenium (Se)	ug/L	<0.10	0.23	<0.10	0.10	7895904
Dissolved Silicon (Si)	ug/L	9110	7090	8910	100	7895904
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	7895904
Dissolved Strontium (Sr)	ug/L	2980	1540	3030	1.0	7895904
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	0.050	7895904
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	7895904
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	7895904
Dissolved Uranium (U)	ug/L	5.83	3.84	5.71	0.10	7895904
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	7895904
Dissolved Zinc (Zn)	ug/L	13.4	8.4	13.8	5.0	7895904
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	0.50	7895904
Dissolved Calcium (Ca)	mg/L	103	76.1	101	0.050	7894371
RDL = Reportable Detection Limit						

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MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV MONITORING
Site Location: YUKON
Your P.O. #: 214158

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		ME7298	ME7299	ME7300		
Sampling Date		2015/05/05 15:20	2015/05/05 15:45	2015/05/05		
COC Number		2015-05-06 A	2015-05-06 A	2015-05-06 A		
	Units	**MW12-06-04**	**MW12-06-06**	**DUP**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	51.2	44.1	54.7	0.050	7894371
Dissolved Potassium (K)	mg/L	3.66	3.32	3.84	0.050	7894371
Dissolved Sodium (Na)	mg/L	31.5	27.6	33.0	0.050	7894371
Dissolved Sulphur (S)	mg/L	52.2	44.9	55.5	3.0	7894371
RDL = Reportable Detection Limit						

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MINTO EXPLORATIONS LTD.
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GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV MONITORING
Site Location: YUKON
Your P.O. #: 214158

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7895008	Total Dissolved Solids	2015/05/11	99	80 - 120	102	80 - 120	12, RDL=10	mg/L	15	20
7895168	Alkalinity (PP as CaCO3)	2015/05/07					<0.50	mg/L	NC	20
7895168	Alkalinity (Total as CaCO3)	2015/05/07	NC	80 - 120	96	80 - 120	<0.50	mg/L	0.35	20
7895168	Bicarbonate (HCO3)	2015/05/07					<0.50	mg/L	0.34	20
7895168	Carbonate (CO3)	2015/05/07					<0.50	mg/L	NC	20
7895168	Hydroxide (OH)	2015/05/07					<0.50	mg/L	NC	20
7895169	pH	2015/05/07			102	97 - 103			0.13	N/A
7895170	Conductivity	2015/05/07			100	80 - 120	<1.0	uS/cm	0.48	20
7895904	Dissolved Aluminum (Al)	2015/05/08	99	80 - 120	96	80 - 120	<3.0	ug/L	NC	20
7895904	Dissolved Antimony (Sb)	2015/05/08	108	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
7895904	Dissolved Arsenic (As)	2015/05/08	NC	80 - 120	98	80 - 120	<0.10	ug/L	0.45	20
7895904	Dissolved Barium (Ba)	2015/05/08	NC	80 - 120	98	80 - 120	<1.0	ug/L	0.12	20
7895904	Dissolved Beryllium (Be)	2015/05/08	104	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
7895904	Dissolved Bismuth (Bi)	2015/05/08	98	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
7895904	Dissolved Boron (B)	2015/05/08					<50	ug/L	NC	20
7895904	Dissolved Cadmium (Cd)	2015/05/08	101	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
7895904	Dissolved Chromium (Cr)	2015/05/08	98	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
7895904	Dissolved Cobalt (Co)	2015/05/08	94	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
7895904	Dissolved Copper (Cu)	2015/05/08	91	80 - 120	97	80 - 120	<0.20	ug/L	NC	20
7895904	Dissolved Iron (Fe)	2015/05/08	NC	80 - 120	103	80 - 120	<5.0	ug/L	0.031	20
7895904	Dissolved Lead (Pb)	2015/05/08	104	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
7895904	Dissolved Lithium (Li)	2015/05/08	NC	80 - 120	102	80 - 120	<5.0	ug/L	0.38	20
7895904	Dissolved Manganese (Mn)	2015/05/08	NC	80 - 120	96	80 - 120	<1.0	ug/L	3.9	20
7895904	Dissolved Molybdenum (Mo)	2015/05/08	NC	80 - 120	93	80 - 120	<1.0	ug/L	1.2	20
7895904	Dissolved Nickel (Ni)	2015/05/08	90	80 - 120	95	80 - 120	<1.0	ug/L	NC	20
7895904	Dissolved Phosphorus (P)	2015/05/08					<10	ug/L		
7895904	Dissolved Selenium (Se)	2015/05/08	102	80 - 120	95	80 - 120	<0.10	ug/L	NC	20
7895904	Dissolved Silicon (Si)	2015/05/08					<100	ug/L	1.7	20
7895904	Dissolved Silver (Ag)	2015/05/08	99	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
7895904	Dissolved Strontium (Sr)	2015/05/08	NC	80 - 120	95	80 - 120	<1.0	ug/L	0.51	20
7895904	Dissolved Thallium (Tl)	2015/05/08	104	80 - 120	96	80 - 120	<0.050	ug/L	NC	20
7895904	Dissolved Tin (Sn)	2015/05/08	106	80 - 120	99	80 - 120	<5.0	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV MONITORING
Site Location: YUKON
Your P.O. #: 214158

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7895904	Dissolved Titanium (Ti)	2015/05/08	100	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7895904	Dissolved Uranium (U)	2015/05/08	101	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
7895904	Dissolved Vanadium (V)	2015/05/08	101	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
7895904	Dissolved Zinc (Zn)	2015/05/08	96	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7895904	Dissolved Zirconium (Zr)	2015/05/08					<0.50	ug/L	NC	20
7896014	Nitrate plus Nitrite (N)	2015/05/08	101	80 - 120	108	80 - 120	<0.020	mg/L	0.45	25
7896018	Nitrite (N)	2015/05/08			103	80 - 120	<0.0050	mg/L	1.2	20
7896585	Dissolved Chloride (Cl)	2015/05/08	NC	80 - 120	105	80 - 120	<0.50	mg/L	0.86	20
7896587	Dissolved Sulphate (SO4)	2015/05/08	NC	80 - 120	97	80 - 120	<0.50	mg/L	1.5	20
7897500	Total Dissolved Solids	2015/05/12	100	80 - 120	90	80 - 120	<10	mg/L	5.4	20
7898128	Fluoride (F)	2015/05/08	NC	80 - 120	96	80 - 120	<0.010	mg/L	0	20
7898428	Total Ammonia (N)	2015/05/11			104	80 - 120	<0.0050	mg/L	1.4	20
7898449	Total Ammonia (N)	2015/05/11	NC	80 - 120	98	80 - 120	<0.0050	mg/L	1.1	20
7898881	Dissolved Sulphate (SO4)	2015/05/11	96	80 - 120	100	80 - 120	<0.50	mg/L	NC	20
7903310	Dissolved Mercury (Hg)	2015/05/15	88	80 - 120	91	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

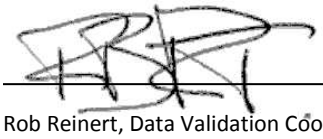
Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B537498
Report Date: 2015/05/15

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV MONITORING
Site Location: YUKON
Your P.O. #: 214158

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Rob Reinert, Data Validation Coordinator

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Click here to get the COC number

Maxxam Job #: B537498 **COC #:** 2015-05-06 A Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name: Minto Explorations Ltd
Contact Name: Elvina Wong
Address: Suite 900 - 999 West Hastings St
Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail

Report To:

Company Name: Minto Explorations Ltd
Contact Name: Minto Environment
Address: Suite 900-999 West Hastings St
Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail minto_environment@mintomine.com

PO #: 214158
Quotation #:
Project # :
Proj. Name: Minto Env. Monitoring
Location: Yukon
Sampled by: Chris Harry

REGULATORY REQUIREMENTS:

☐ CSR
☑ CCME
☐ BC Water Quality
☐ Other
☐ DRINKING WATER

SERVICE REQUESTED:

◉ Regular Turn Around Time (TAT)
(5 days for most tests)
RUSH (Please contact the lab)
○ 1 Day ○ 2 Day ○ 3 Day
Date Required:

SPECIAL INSTRUCTIONS:
Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Identification (Lab Use Only)	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM)	Field Filtered? Y/N	Total Metals	Field Acidified? Y/N	Nitrate ☑	Field Acidified? Y/N	Ammonia ☑	Total Suspended Solids (TSS) ☐	TDS ☑	pH ☑	Conductivity ☑	Alkalinity ☑	Chloride ☑	Fluoride ☑	Sulphate ☑	Number of Containers
1	MW12-05-01	ME7292	Ground W	04/05/2015 14:00	x	x			x		x	x		x	x	x	x	x	x	3
2	MW12-05-03	ME7293	Ground W	04/05/2015 15:00	x	x			x		x	x		x	x	x	x	x	x	3
3	MW12-05-05	ME7294	Ground W	04/05/2015 15:30	x	x			x		x	x		x	x	x	x	x	x	3
4	MW12-05-07	ME7295	Ground W	04/05/2015 16:15	x	x			x		x	x		x	x	x	x	x	x	3
5	DUP	ME7296	Ground W	04/05/2015	x	x			x		x	x		x	x	x	x	x	x	3
6	MW12-06-02	ME7297	Ground W	05/05/2015 14:35	x	x			x		x	x		x	x	x	x	x	x	3
7	MW12-06-04	ME7298	Ground W	05/05/2015 15:20	x	x			x		x	x		x	x	x	x	x	x	3
8	MW12-06-06	ME7299	Ground W	05/05/2015 15:45	x	x			x		x	x		x	x	x	x	x	x	3
9	DUP	ME7300	Ground W	05/05/2015	x	x			x		x	x		x	x	x	x	x	x	3
10																				
11																				
12																				

B537498

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Chris Harry	6-May-15	6:30

Print name and sign

Received by:	Date (yy/mm/dd):	Time (24 hr):	Time Sensitive
[signature]	2015/05/07	09:35	☑

Laboratory Use Only

Temperature on Receipt (°C): A) 1 B) 1 C) 2
Just sampled & rec'd on ice: ☐

Custody Seal	Yes	No
Present?	☐	☑
Intact?	☐	☐ NA

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

Maxxam Analytics Success Through Science ©

Success Through Science®

Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-05-11B

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/05/22
Report #: R1962790
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B538895
Received: 2015/05/12, 10:40

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	1	2015/05/12	2015/05/12	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	1	N/A	2015/05/13	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	1	N/A	2015/05/12	BBY6SOP-00026	SM 22 2510 B m
Fluoride	1	N/A	2015/05/13	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2015/05/22	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	1	N/A	2015/05/19	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	1	N/A	2015/05/19	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	1	N/A	2015/05/15	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	1	N/A	2015/05/13	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	1	N/A	2015/05/13	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	1	N/A	2015/05/13	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	1	N/A	2015/05/13	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	1	N/A	2015/05/15	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	1	N/A	2015/05/12	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	1	N/A	2015/05/13	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	1	2015/05/13	2015/05/14	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

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Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-05-11B

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/05/22
Report #: R1962790
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B538895
Received: 2015/05/12, 10:40

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
This report has been generated and distributed using a secure automated process.
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Maxxam Job #: B538895
Report Date: 2015/05/22

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		MF5606		
Sampling Date		2015/05/09 10:15		
COC Number		2015-05-11B		
	Units	**MW11-04A**	**RDL**	**QC Batch**
ANIONS				
Nitrite (N)	mg/L	0.0132 (1)	0.0050	7901359
Calculated Parameters				
Filter and HNO3 Preservation	N/A	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	1.63	0.020	7899100
Misc. Inorganics				
Fluoride (F)	mg/L	0.100	0.010	7901376
Alkalinity (Total as CaCO3)	mg/L	85.2	0.50	7899868
Alkalinity (PP as CaCO3)	mg/L	62.3	0.50	7899868
Bicarbonate (HCO3)	mg/L	<0.50	0.50	7899868
Carbonate (CO3)	mg/L	27.5	0.50	7899868
Hydroxide (OH)	mg/L	13.4	0.50	7899868
Anions				
Dissolved Sulphate (SO4)	mg/L	5.74	0.50	7901354
Dissolved Chloride (Cl)	mg/L	2.3	0.50	7901352
Nutrients				
Total Ammonia (N)	mg/L	0.087	0.0050	7902028
Nitrate plus Nitrite (N)	mg/L	1.65 (1)	0.020	7901358
Physical Properties				
Conductivity	uS/cm	287	1.0	7899869
pH	pH	10.9	N/A	7899871
Physical Properties				
Total Dissolved Solids	mg/L	154	10	7900393

RDL = Reportable Detection Limit

N/A = Not Applicable

(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

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Maxxam Job #: B538895
Report Date: 2015/05/22

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MF5606		
Sampling Date		2015/05/09 10:15		
COC Number		2015-05-11B		
	Units	MW11-04A	RDL	QC Batch
Misc. Inorganics				
Dissolved Hardness (CaCO3)	mg/L	136	0.50	7905310
Elements				
Dissolved Mercury (Hg)	ug/L	<0.010	0.010	7904932
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	764	3.0	7900469
Dissolved Antimony (Sb)	ug/L	0.78	0.50	7900469
Dissolved Arsenic (As)	ug/L	3.67	0.10	7900469
Dissolved Barium (Ba)	ug/L	152	1.0	7900469
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	7900469
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7900469
Dissolved Boron (B)	ug/L	<50	50	7900469
Dissolved Cadmium (Cd)	ug/L	0.010	0.010	7900469
Dissolved Chromium (Cr)	ug/L	2.9	1.0	7900469
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7900469
Dissolved Copper (Cu)	ug/L	103	0.20	7900469
Dissolved Iron (Fe)	ug/L	6.8	5.0	7900469
Dissolved Lead (Pb)	ug/L	<0.20	0.20	7900469
Dissolved Lithium (Li)	ug/L	11.4	5.0	7900469
Dissolved Manganese (Mn)	ug/L	<1.0	1.0	7900469
Dissolved Molybdenum (Mo)	ug/L	2.7	1.0	7900469
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	7900469
Dissolved Phosphorus (P)	ug/L	17	10	7900469
Dissolved Selenium (Se)	ug/L	2.35	0.10	7900469
Dissolved Silicon (Si)	ug/L	6360	100	7900469
Dissolved Silver (Ag)	ug/L	<0.020	0.020	7900469
Dissolved Strontium (Sr)	ug/L	356	1.0	7900469
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7900469
Dissolved Tin (Sn)	ug/L	<5.0	5.0	7900469
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7900469
Dissolved Uranium (U)	ug/L	<0.10	0.10	7900469
Dissolved Vanadium (V)	ug/L	16.9	5.0	7900469
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7900469
Dissolved Zirconium (Zr)	ug/L	<0.50	0.50	7900469
Dissolved Calcium (Ca)	mg/L	54.3	0.050	7905423
RDL = Reportable Detection Limit				

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Maxxam Job #: B538895
Report Date: 2015/05/22

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MF5606		
Sampling Date		2015/05/09 10:15		
COC Number		2015-05-11B		
	Units	**MW11-04A**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	0.055	0.050	7899178
Dissolved Potassium (K)	mg/L	4.18	0.050	7905423
Dissolved Sodium (Na)	mg/L	5.16	0.050	7899178
Dissolved Sulphur (S)	mg/L	<3.0	3.0	7899178
RDL = Reportable Detection Limit				

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Maxxam Job #: B538895
Report Date: 2015/05/22

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample container and preservation received was not in compliance. Maxxam added HCl to stabilize Mercury in this sample prior to analysis.

Sample MF5606, Na, K, Ca, Mg, S by CRC ICPMS (diss.): Test repeated.

Results relate only to the items tested.

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Maxxam Job #: B538895
Report Date: 2015/05/22

QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7899868	Alkalinity (PP as CaCO3)	2015/05/12					<0.50	mg/L	NC	20
7899868	Alkalinity (Total as CaCO3)	2015/05/12	NC	80 - 120	98	80 - 120	<0.50	mg/L	0.67	20
7899868	Bicarbonate (HCO3)	2015/05/12					<0.50	mg/L	0.67	20
7899868	Carbonate (CO3)	2015/05/12					<0.50	mg/L	NC	20
7899868	Hydroxide (OH)	2015/05/12					<0.50	mg/L	NC	20
7899869	Conductivity	2015/05/12			100	80 - 120	<1.0	uS/cm	0.78	20
7899871	pH	2015/05/12			102	97 - 103			0.75	N/A
7900393	Total Dissolved Solids	2015/05/14	100	80 - 120	98	80 - 120	<10	mg/L	4.1	20
7900469	Dissolved Aluminum (Al)	2015/05/15	NC	80 - 120	99	80 - 120	<3.0	ug/L	0.31	20
7900469	Dissolved Antimony (Sb)	2015/05/15	NC	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
7900469	Dissolved Arsenic (As)	2015/05/15	101	80 - 120	104	80 - 120	<0.10	ug/L	2.0	20
7900469	Dissolved Barium (Ba)	2015/05/15	NC	80 - 120	102	80 - 120	<1.0	ug/L	6.5	20
7900469	Dissolved Beryllium (Be)	2015/05/15	96	80 - 120	94	80 - 120	<0.10	ug/L	NC	20
7900469	Dissolved Bismuth (Bi)	2015/05/15	95	80 - 120	96	80 - 120	<1.0	ug/L	NC	20
7900469	Dissolved Boron (B)	2015/05/15					<50	ug/L	NC	20
7900469	Dissolved Cadmium (Cd)	2015/05/15	98	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
7900469	Dissolved Chromium (Cr)	2015/05/15	97	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
7900469	Dissolved Cobalt (Co)	2015/05/15	96	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
7900469	Dissolved Copper (Cu)	2015/05/15	NC	80 - 120	99	80 - 120	<0.20	ug/L	2.6	20
7900469	Dissolved Iron (Fe)	2015/05/15	100	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
7900469	Dissolved Lead (Pb)	2015/05/15	104	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
7900469	Dissolved Lithium (Li)	2015/05/15	NC	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
7900469	Dissolved Manganese (Mn)	2015/05/15	99	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
7900469	Dissolved Molybdenum (Mo)	2015/05/15	NC	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
7900469	Dissolved Nickel (Ni)	2015/05/15	95	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
7900469	Dissolved Phosphorus (P)	2015/05/15					<10	ug/L	NC	20
7900469	Dissolved Selenium (Se)	2015/05/15	92	80 - 120	97	80 - 120	<0.10	ug/L	8.2	20
7900469	Dissolved Silicon (Si)	2015/05/15					<100	ug/L	3.1	20
7900469	Dissolved Silver (Ag)	2015/05/15	100	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
7900469	Dissolved Strontium (Sr)	2015/05/15	NC	80 - 120	101	80 - 120	<1.0	ug/L	4.9	20

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Maxxam Job #: B538895
Report Date: 2015/05/22

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7900469	Dissolved Thallium (Tl)	2015/05/15	98	80 - 120	94	80 - 120	<0.050	ug/L	NC	20
7900469	Dissolved Tin (Sn)	2015/05/15	101	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
7900469	Dissolved Titanium (Ti)	2015/05/15	94	80 - 120	98	80 - 120	<5.0	ug/L	NC	20
7900469	Dissolved Uranium (U)	2015/05/15	95	80 - 120	93	80 - 120	<0.10	ug/L	NC	20
7900469	Dissolved Vanadium (V)	2015/05/15	NC	80 - 120	106	80 - 120	<5.0	ug/L	NC	20
7900469	Dissolved Zinc (Zn)	2015/05/15	100	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
7900469	Dissolved Zirconium (Zr)	2015/05/15					<0.50	ug/L	NC	20
7901352	Dissolved Chloride (Cl)	2015/05/13	NC	80 - 120	99	80 - 120	<0.50	mg/L	1.9	20
7901354	Dissolved Sulphate (SO4)	2015/05/13	NC	80 - 120	96	80 - 120	<0.50	mg/L	3.4	20
7901358	Nitrate plus Nitrite (N)	2015/05/13	NC	80 - 120	106	80 - 120	<0.020	mg/L	0.61	25
7901359	Nitrite (N)	2015/05/13	95	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20
7901376	Fluoride (F)	2015/05/13	100	80 - 120	104	80 - 120	<0.010	mg/L	0	20
7902028	Total Ammonia (N)	2015/05/13	101	80 - 120	103	80 - 120	0.0053, RDL=0.0050	mg/L	NC	20
7904932	Dissolved Mercury (Hg)	2015/05/19	100	80 - 120	107	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

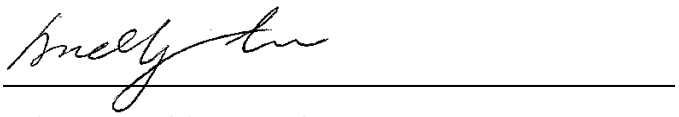
Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B538895
Report Date: 2015/05/22

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Data Validation Coordinator

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Maxxam Job #: B538895

Click here to get the COC number

COC #: 2015-05-11 B

Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name:	Minto Explorations Ltd
Contact Name:	Elvina Wong
Address:	Suite 900 - 999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	

Report To:

Company Name:	Minto Explorations Ltd
Contact Name:	Minto Environment
Address:	Suite 900-999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	minto_environment@mintomine.com

PO #:	214158
Quotation #:	
Project # :	
Proj. Name:	Minto Env. Monitoring
Location:	Yukon
Sampled by:	Shaun R, Norma A

REGULATORY REQUIREMENTS:

- ☐ CSR
- ☑ CCME
- ☐ BC Water Quality
- ☐ Other
- ☐ DRINKING WATER

SERVICE REQUESTED:

- ◉ Regular Turn Around Time (TAT) (5 days for most tests)
- **RUSH** (Please contact the lab) ○ 1 Day ○ 2 Day ○ 3 Day
- Date Required:

SPECIAL INSTRUCTIONS:

Return Cooler ☐ **Ship Sample Bottles (please specify)** ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Use Only: Lab Identification	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM) Field Filtered? Y/N	Total Metals Field Acidified? Y/N	Nitrate	Nitrite	Total Suspended Solids (TSS)	pH	Conductivity	Alkalinity	Chloride	Fluoride	Sulphate	Number of Containers
1	MW11-04A	MF5606	Ground W	09/05/15 10:15	x	x		x	x	x	x	x				3
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

B538895

Laboratory Use Only

Print name and sign	Date (yy/mm/dd):	Time (24hr):	Print name and sign	Date (yy/mm/dd):	Time (24 hr):	Time Sensitive	Temperature on Receipt (°C)	Custody Seal	Yes	No
*Relinquished By:			Received by :				A) 1 B) 1 C) 1	Present?	☐	☑
Shaun Roberts	15/05/11	10:00		2015/05/12	10:40	☑	Just sampled & rec'd on ice: ☐	Intact?	☐	☐ N/A

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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Success Through Science®

Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-05-23B

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/05/29
Report #: R1967253
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B542844
Received: 2015/05/25, 10:25

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	3	2015/05/26	2015/05/26	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	3	N/A	2015/05/26	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	3	N/A	2015/05/26	BBY6SOP-00026	SM 22 2510 B m
Fluoride	3	N/A	2015/05/25	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	3	N/A	2015/05/28	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	3	N/A	2015/05/29	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	3	N/A	2015/05/28	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	3	N/A	2015/05/27	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	3	N/A	2015/05/28	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	3	N/A	2015/05/26	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	3	N/A	2015/05/26	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	3	N/A	2015/05/27	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	3	N/A	2015/05/26	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	3	N/A	2015/05/26	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	3	N/A	2015/05/26	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	3	2015/05/26	2015/05/27	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

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Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-05-23B

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/05/29
Report #: R1967253
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B542844
Received: 2015/05/25, 10:25

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
This report has been generated and distributed using a secure automated process.
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Maxxam Job #: B542844
Report Date: 2015/05/29

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		MH5227		MH5228		MH5229		
Sampling Date		2015/05/22 16:00		2015/05/22 16:45		2015/05/22		
COC Number		2015-05-23B		2015-05-23B		2015-05-23B		
	Units	MW12-07-01	RDL	MW12-07-02	QC Batch	DUP	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	0.680 (1)	0.025	0.248 (1)	7913692	0.228 (1)	0.0050	7913692
Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	N/A	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.306	0.025	0.091	7911304	0.093	0.020	7911304
Misc. Inorganics								
Fluoride (F)	mg/L	0.980	0.010	1.30	7913212	1.30	0.010	7913212
Alkalinity (Total as CaCO3)	mg/L	376	0.50	104	7913070	106	0.50	7913058
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	<0.50	7913070	<0.50	0.50	7913058
Bicarbonate (HCO3)	mg/L	459	0.50	127	7913070	129	0.50	7913058
Carbonate (CO3)	mg/L	<0.50	0.50	<0.50	7913070	<0.50	0.50	7913058
Hydroxide (OH)	mg/L	<0.50	0.50	<0.50	7913070	<0.50	0.50	7913058
Anions								
Dissolved Sulphate (SO4)	mg/L	420	5.0	662	7913928	674	5.0	7913928
Dissolved Chloride (Cl)	mg/L	4.1	0.50	0.80	7913924	1.1	0.50	7913924
Nutrients								
Total Ammonia (N)	mg/L	0.33	0.0050	0.079	7916413	0.057	0.0050	7916413
Nitrate plus Nitrite (N)	mg/L	0.986 (1)	0.020	0.338 (1)	7913691	0.321 (1)	0.020	7913691
Physical Properties								
Conductivity	uS/cm	1530	1.0	1420	7913069	1430	1.0	7913061
pH	pH	7.84	N/A	8.04	7913067	8.11	N/A	7913063
Physical Properties								
Total Dissolved Solids	mg/L	1400	10	1120	7912189	1140	10	7912189

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

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Maxxam Job #: B542844
Report Date: 2015/05/29

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MH5227	MH5228	MH5229		
Sampling Date		2015/05/22 16:00	2015/05/22 16:45	2015/05/22		
COC Number		2015-05-23B	2015-05-23B	2015-05-23B		
	Units	MW12-07-01	MW12-07-02	DUP	RDL	QC Batch
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	780	656	643	0.50	7911298
Elements						
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	0.010	7916616
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	14.4	8.2	10.1	3.0	7913291
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	7913291
Dissolved Arsenic (As)	ug/L	2.49	2.43	2.61	0.10	7913291
Dissolved Barium (Ba)	ug/L	55.2	15.2	15.2	1.0	7913291
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	7913291
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	7913291
Dissolved Boron (B)	ug/L	639	297	289	50	7913291
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	0.010	7913291
Dissolved Chromium (Cr)	ug/L	1.1	<1.0	<1.0	1.0	7913291
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	0.50	7913291
Dissolved Copper (Cu)	ug/L	0.49	0.39	0.65	0.20	7913291
Dissolved Iron (Fe)	ug/L	469	205	208	5.0	7913291
Dissolved Lead (Pb)	ug/L	1.04	<0.20	<0.20	0.20	7913291
Dissolved Lithium (Li)	ug/L	23.5	25.6	26.2	5.0	7913291
Dissolved Manganese (Mn)	ug/L	531	115	112	1.0	7913291
Dissolved Molybdenum (Mo)	ug/L	1.4	19.8	20.5	1.0	7913291
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	1.0	7913291
Dissolved Phosphorus (P)	ug/L	<10	<10	<10	10	7913291
Dissolved Selenium (Se)	ug/L	1.29	0.11	0.13	0.10	7913291
Dissolved Silicon (Si)	ug/L	9410	6250	6150	100	7913291
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	7913291
Dissolved Strontium (Sr)	ug/L	10900	10900	10700	1.0	7913291
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	0.050	7913291
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	7913291
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	7913291
Dissolved Uranium (U)	ug/L	<0.10	1.53	1.50	0.10	7913291
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	7913291
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	5.0	7913291
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	0.50	7913291
Dissolved Calcium (Ca)	mg/L	266	208	204	0.050	7911301
RDL = Reportable Detection Limit						

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Maxxam Job #: B542844
Report Date: 2015/05/29

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MH5227	MH5228	MH5229		
Sampling Date		2015/05/22 16:00	2015/05/22 16:45	2015/05/22		
COC Number		2015-05-23B	2015-05-23B	2015-05-23B		
	Units	**MW12-07-01**	**MW12-07-02**	**DUP**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	27.9	33.4	32.4	0.050	7911301
Dissolved Potassium (K)	mg/L	3.39	2.88	2.69	0.050	7911301
Dissolved Sodium (Na)	mg/L	84.6	72.3	70.8	0.050	7911301
Dissolved Sulphur (S)	mg/L	168	257	232	3.0	7911301
RDL = Reportable Detection Limit						

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Maxxam Job #: B542844
Report Date: 2015/05/29

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample containers and preservation received were not in compliance. Maxxam added HCl to stabilize Mercury in these samples prior to analysis.

Results relate only to the items tested.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B542844
Report Date: 2015/05/29

QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7912189	Total Dissolved Solids	2015/05/27	101	80 - 120	106	80 - 120	<10	mg/L	7.1	20
7913058	Alkalinity (PP as CaCO3)	2015/05/26					<0.50	mg/L	NC	20
7913058	Alkalinity (Total as CaCO3)	2015/05/26	NC	80 - 120	99	80 - 120	0.68, RDL=0.50	mg/L	3.5	20
7913058	Bicarbonate (HCO3)	2015/05/26					0.83, RDL=0.50	mg/L	3.5	20
7913058	Carbonate (CO3)	2015/05/26					<0.50	mg/L	NC	20
7913058	Hydroxide (OH)	2015/05/26					<0.50	mg/L	NC	20
7913061	Conductivity	2015/05/26			100	80 - 120	<1.0	uS/cm	0.53	20
7913063	pH	2015/05/26			102	97 - 103			0.89	N/A
7913067	pH	2015/05/26			102	97 - 103			0.50	N/A
7913069	Conductivity	2015/05/26			100	80 - 120	<1.0	uS/cm	0.090	20
7913070	Alkalinity (PP as CaCO3)	2015/05/26					<0.50	mg/L	NC	20
7913070	Alkalinity (Total as CaCO3)	2015/05/26	NC	80 - 120	97	80 - 120	0.64, RDL=0.50	mg/L	1.7	20
7913070	Bicarbonate (HCO3)	2015/05/26					0.78, RDL=0.50	mg/L	0.55	20
7913070	Carbonate (CO3)	2015/05/26					<0.50	mg/L	NC	20
7913070	Hydroxide (OH)	2015/05/26					<0.50	mg/L	NC	20
7913212	Fluoride (F)	2015/05/25	NC	80 - 120	98	80 - 120	<0.010	mg/L	0	20
7913291	Dissolved Aluminum (Al)	2015/05/27	101	80 - 120	102	80 - 120	<3.0	ug/L	NC	20
7913291	Dissolved Antimony (Sb)	2015/05/27	108	80 - 120	107	80 - 120	<0.50	ug/L	NC	20
7913291	Dissolved Arsenic (As)	2015/05/27	NC	80 - 120	101	80 - 120	<0.10	ug/L	2.0	20
7913291	Dissolved Barium (Ba)	2015/05/27	NC	80 - 120	102	80 - 120	<1.0	ug/L	2.6	20
7913291	Dissolved Beryllium (Be)	2015/05/27	103	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
7913291	Dissolved Bismuth (Bi)	2015/05/27	100	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
7913291	Dissolved Boron (B)	2015/05/27					<50	ug/L	NC	20
7913291	Dissolved Cadmium (Cd)	2015/05/27	102	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
7913291	Dissolved Chromium (Cr)	2015/05/27	95	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
7913291	Dissolved Cobalt (Co)	2015/05/27	90	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
7913291	Dissolved Copper (Cu)	2015/05/27	87	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
7913291	Dissolved Iron (Fe)	2015/05/27	NC	80 - 120	102	80 - 120	<5.0	ug/L	0.049	20
7913291	Dissolved Lead (Pb)	2015/05/27	104	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
7913291	Dissolved Lithium (Li)	2015/05/27	NC	80 - 120	96	80 - 120	<5.0	ug/L	1.4	20

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Maxxam Job #: B542844
Report Date: 2015/05/29

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7913291	Dissolved Manganese (Mn)	2015/05/27	NC	80 - 120	101	80 - 120	<1.0	ug/L	0.18	20
7913291	Dissolved Molybdenum (Mo)	2015/05/27	NC	80 - 120	98	80 - 120	<1.0	ug/L	1.7	20
7913291	Dissolved Nickel (Ni)	2015/05/27	90	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
7913291	Dissolved Phosphorus (P)	2015/05/27					<10	ug/L		
7913291	Dissolved Selenium (Se)	2015/05/27	103	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
7913291	Dissolved Silicon (Si)	2015/05/27					<100	ug/L	3.6	20
7913291	Dissolved Silver (Ag)	2015/05/27	100	80 - 120	89	80 - 120	<0.020	ug/L	NC	20
7913291	Dissolved Strontium (Sr)	2015/05/27	NC	80 - 120	98	80 - 120	<1.0	ug/L	3.4	20
7913291	Dissolved Thallium (Tl)	2015/05/27	107	80 - 120	94	80 - 120	<0.050	ug/L	NC	20
7913291	Dissolved Tin (Sn)	2015/05/27	106	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
7913291	Dissolved Titanium (Ti)	2015/05/27	90	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
7913291	Dissolved Uranium (U)	2015/05/27	100	80 - 120	94	80 - 120	<0.10	ug/L	NC	20
7913291	Dissolved Vanadium (V)	2015/05/27	95	80 - 120	98	80 - 120	<5.0	ug/L	NC	20
7913291	Dissolved Zinc (Zn)	2015/05/27	94	80 - 120	100	80 - 120	<5.0	ug/L	NC	20
7913291	Dissolved Zirconium (Zr)	2015/05/27					<0.50	ug/L	NC	20
7913691	Nitrate plus Nitrite (N)	2015/05/26	NC	80 - 120	103	80 - 120	<0.020	mg/L	1.1	25
7913692	Nitrite (N)	2015/05/26	NC	80 - 120	103	80 - 120	<0.0050	mg/L	1.0	20
7913924	Dissolved Chloride (Cl)	2015/05/26	107	80 - 120	99	80 - 120	<0.50	mg/L	0.87	20
7913928	Dissolved Sulphate (SO4)	2015/05/26	NC	80 - 120	90	80 - 120	<0.50	mg/L	0.50	20
7916413	Total Ammonia (N)	2015/05/28	NC	80 - 120	110	80 - 120	0.0090, RDL=0.0050	mg/L	0.73	20

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Maxxam Job #: B542844
Report Date: 2015/05/29

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7916616	Dissolved Mercury (Hg)	2015/05/29	108	80 - 120	106	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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Maxxam Job #: B542844
Report Date: 2015/05/29

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Rob Reinert, Data Validation Coordinator

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Click here to get the COC number

Maxxam Job #: B542844 **COC #:** 2015-05-23 B Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name:	Minto Explorations Ltd
Contact Name:	Elvina Wong
Address:	Suite 900 - 999 West Hastings St Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	

Report To:

Company Name:	Minto Explorations Ltd
Contact Name:	Minto Environment
Address:	Suite 900-999 West Hastings St Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	minto_environment@mintomine.com

PO #:	214158
Quotation #:	
Project # :	
Proj. Name:	Minto Env. Monitoring
Location:	Yukon
Sampled by:	Chris Harry

REGULATORY REQUIREMENTS:
- ☐ CSR
- ☑ CCME
- ☐ BC Water Quality
- ☐ Other
- ☐ DRINKING WATER

SERVICE REQUESTED:
- ◉ Regular Turn Around Time (TAT) (5 days for most tests) ☐
- **RUSH** (Please contact the lab) ☑
- ○ 1 Day ○ 2 Day ○ 3 Day
- Date Required:

SPECIAL INSTRUCTIONS:
Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Identification (Lab Use Only)	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM)	Total Metals	Nitrate	Total Suspended Solids (TSS)	pH	Chloride	Field Filtered?	Field Acidified?	Field Acidified?	Nitrite	Ammonia	TDS	Conductivity	Alkalinity	Fluoride	Sulphate	Number of Containers
							☑	☑	☑	☑				☑	☑	☑	☑	☑	☑	☑	
											Y N	Y N	Y N								
1	MW12-07-01	MH5227	Ground W	22/05/2015 16:00	x	x	x	x	x	x		☑			☑			☑		☑	3
2	MW12-07-02	MH5228	Ground W	22/05/2015 16:45	x	x	x	x	x	x		☑			☑			☑		☑	3
3	DUP	MH5229	Ground W	22/05/2015	x	x	x	x	x	x		☑			☑			☑		☑	3
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

B542844

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Chris Harry	23-May-15	7:00

Print name and sign

Received by:	Date (yy/mm/dd):	Time (24 hr):
Laurel Berthier	2015/05/25	10:25

Time Sensitive ☑

Laboratory Use Only

Temperature on Receipt (°C): A) 3 B) 1 C) 2

Just sampled & rec'd on ice: ☐

Custody Seal	Yes	No
Present?	☐	☑
Intact?	☐	☐

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-07-18b

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/07/24
Report #: R2002827
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B561260
Received: 2015/07/20, 10:00

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	3	2015/07/21	2015/07/21	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	3	N/A	2015/07/21	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	3	N/A	2015/07/21	BBY6SOP-00026	SM 22 2510 B m
Fluoride	3	N/A	2015/07/21	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	3	N/A	2015/07/22	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	3	N/A	2015/07/24	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	3	N/A	2015/07/22	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	3	N/A	2015/07/22	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	3	N/A	2015/07/22	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	3	N/A	2015/07/23	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	3	N/A	2015/07/21	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	3	N/A	2015/07/21	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	3	N/A	2015/07/22	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	3	N/A	2015/07/21	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	3	N/A	2015/07/21	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	3	2015/07/21	2015/07/22	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

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Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-07-18b

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/07/24
Report #: R2002827
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B561260
Received: 2015/07/20, 10:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
This report has been generated and distributed using a secure automated process.
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Maxxam Job #: B561260
Report Date: 2015/07/24

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		MR7743	MR7744		MR7745		
Sampling Date		2015/07/18 09:20	2015/07/18 09:50		2015/07/18		
COC Number		2015-07-18b	2015-07-18b		2015-07-18b		
	Units	MW12-07-01	MW12-07-02	QC Batch	DUP	RDL	QC Batch
ANIONS							
Nitrite (N)	mg/L	0.438	0.151	7974626	0.233	0.0050	7974626
Calculated Parameters							
Filter and HNO3 Preservation	N/A	FIELD	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.237	0.077	7972492	0.115	0.020	7972492
Misc. Inorganics							
Fluoride (F)	mg/L	1.00	1.30	7974664	1.30	0.010	7974667
Alkalinity (Total as CaCO3)	mg/L	385	106	7974479	105	0.50	7974479
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	7974479	<0.50	0.50	7974479
Bicarbonate (HCO3)	mg/L	470	129	7974479	128	0.50	7974479
Carbonate (CO3)	mg/L	<0.50	<0.50	7974479	<0.50	0.50	7974479
Hydroxide (OH)	mg/L	<0.50	<0.50	7974479	<0.50	0.50	7974479
Anions							
Dissolved Sulphate (SO4)	mg/L	401	675	7974601	671	5.0	7974601
Dissolved Chloride (Cl)	mg/L	5.2	1.0	7974598	1.2	0.50	7974598
Nutrients							
Total Ammonia (N)	mg/L	0.44	0.039	7975938	0.050	0.0050	7975938
Nitrate plus Nitrite (N)	mg/L	0.675 (1)	0.228 (1)	7974619	0.347 (1)	0.020	7974619
Physical Properties							
Conductivity	uS/cm	1480	1410	7974478	1410	1.0	7974478
pH	pH	7.49	7.90	7974477	7.92	N/A	7974477
Physical Properties							
Total Dissolved Solids	mg/L	1280	1020	7973765	1110	10	7973765

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past recommended hold time.

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Maxxam Job #: B561260
Report Date: 2015/07/24

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MR7743	MR7744	MR7745		
Sampling Date		2015/07/18 09:20	2015/07/18 09:50	2015/07/18		
COC Number		2015-07-18b	2015-07-18b	2015-07-18b		
	Units	MW12-07-01	MW12-07-02	DUP	RDL	QC Batch
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	705	604	610	0.50	7972652
Elements						
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	0.010	7978596
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	18.8	17.1	17.8	3.0	7973845
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	7973845
Dissolved Arsenic (As)	ug/L	0.68	1.89	1.83	0.10	7973845
Dissolved Barium (Ba)	ug/L	46.4	13.2	12.5	1.0	7973845
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	7973845
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	7973845
Dissolved Boron (B)	ug/L	587	237	247	50	7973845
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	0.010	7973845
Dissolved Chromium (Cr)	ug/L	1.1	<1.0	<1.0	1.0	7973845
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	0.50	7973845
Dissolved Copper (Cu)	ug/L	0.28	0.95	0.91	0.20	7973845
Dissolved Iron (Fe)	ug/L	333	230	228	5.0	7973845
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	0.20	7973845
Dissolved Lithium (Li)	ug/L	22.8	25.4	25.9	5.0	7973845
Dissolved Manganese (Mn)	ug/L	438	108	107	1.0	7973845
Dissolved Molybdenum (Mo)	ug/L	<1.0	18.6	18.6	1.0	7973845
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	1.0	7973845
Dissolved Phosphorus (P)	ug/L	15	<10	12	10	7973845
Dissolved Selenium (Se)	ug/L	0.47	<0.10	<0.10	0.10	7973845
Dissolved Silicon (Si)	ug/L	9560	6010	5970	100	7973845
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	7973845
Dissolved Strontium (Sr)	ug/L	9340	9600	9740	1.0	7973845
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	0.050	7973845
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	7973845
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	7973845
Dissolved Uranium (U)	ug/L	<0.10	1.52	1.56	0.10	7973845
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	7973845
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	10.8	5.0	7973845
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	0.50	7973845
Dissolved Calcium (Ca)	mg/L	240	191	192	0.050	7972653
RDL = Reportable Detection Limit						

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Maxxam Job #: B561260
Report Date: 2015/07/24

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MR7743	MR7744	MR7745		
Sampling Date		2015/07/18 09:20	2015/07/18 09:50	2015/07/18		
COC Number		2015-07-18b	2015-07-18b	2015-07-18b		
	Units	**MW12-07-01**	**MW12-07-02**	**DUP**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	25.6	30.8	31.6	0.050	7972653
Dissolved Potassium (K)	mg/L	2.97	2.49	2.55	0.050	7972653
Dissolved Sodium (Na)	mg/L	80.8	67.3	67.7	0.050	7972653
Dissolved Sulphur (S)	mg/L	154	238	239	3.0	7972653
RDL = Reportable Detection Limit						

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Maxxam Job #: B561260
Report Date: 2015/07/24

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample containers and preservation received were not in compliance. Maxxam added HCl to stabilize Mercury in these samples prior to analysis.

Results relate only to the items tested.

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Maxxam Job #: B561260
Report Date: 2015/07/24

QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7973765	Total Dissolved Solids	2015/07/22	101	80 - 120	108	80 - 120	<10	mg/L	1.1	20
7973845	Dissolved Aluminum (Al)	2015/07/21	101	80 - 120	106	80 - 120	<3.0	ug/L	NC	20
7973845	Dissolved Antimony (Sb)	2015/07/21	95	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
7973845	Dissolved Arsenic (As)	2015/07/21	101	80 - 120	100	80 - 120	<0.10	ug/L	1.2	20
7973845	Dissolved Barium (Ba)	2015/07/21	NC	80 - 120	99	80 - 120	<1.0	ug/L	1.6	20
7973845	Dissolved Beryllium (Be)	2015/07/21	98	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
7973845	Dissolved Bismuth (Bi)	2015/07/21	85	80 - 120	93	80 - 120	<1.0	ug/L	NC	20
7973845	Dissolved Boron (B)	2015/07/21					<50	ug/L	NC	20
7973845	Dissolved Cadmium (Cd)	2015/07/21	94	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
7973845	Dissolved Chromium (Cr)	2015/07/21	97	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
7973845	Dissolved Cobalt (Co)	2015/07/21	90	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
7973845	Dissolved Copper (Cu)	2015/07/21	87	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
7973845	Dissolved Iron (Fe)	2015/07/21	NC	80 - 120	101	80 - 120	<5.0	ug/L	0.31	20
7973845	Dissolved Lead (Pb)	2015/07/21	90	80 - 120	95	80 - 120	<0.20	ug/L	NC	20
7973845	Dissolved Lithium (Li)	2015/07/21	NC	80 - 120	96	80 - 120	<5.0	ug/L	12	20
7973845	Dissolved Manganese (Mn)	2015/07/21	NC	80 - 120	98	80 - 120	<1.0	ug/L	0.077	20
7973845	Dissolved Molybdenum (Mo)	2015/07/21	NC	80 - 120	93	80 - 120	<1.0	ug/L	0.033	20
7973845	Dissolved Nickel (Ni)	2015/07/21	86	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
7973845	Dissolved Phosphorus (P)	2015/07/21					<10	ug/L		
7973845	Dissolved Selenium (Se)	2015/07/21	96	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
7973845	Dissolved Silicon (Si)	2015/07/21					<100	ug/L	0.97	20
7973845	Dissolved Silver (Ag)	2015/07/21	95	80 - 120	91	80 - 120	<0.020	ug/L	NC	20
7973845	Dissolved Strontium (Sr)	2015/07/21	NC	80 - 120	97	80 - 120	<1.0	ug/L	1.8	20
7973845	Dissolved Thallium (Tl)	2015/07/21	93	80 - 120	90	80 - 120	<0.050	ug/L	NC	20
7973845	Dissolved Tin (Sn)	2015/07/21	96	80 - 120	100	80 - 120	<5.0	ug/L	NC	20
7973845	Dissolved Titanium (Ti)	2015/07/21	106	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
7973845	Dissolved Uranium (U)	2015/07/21	NC	80 - 120	94	80 - 120	<0.10	ug/L	5.0	20
7973845	Dissolved Vanadium (V)	2015/07/21	99	80 - 120	95	80 - 120	<5.0	ug/L	NC	20
7973845	Dissolved Zinc (Zn)	2015/07/21	84	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
7973845	Dissolved Zirconium (Zr)	2015/07/21					<0.50	ug/L	NC	20

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Maxxam Job #: B561260
Report Date: 2015/07/24

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7974477	pH	2015/07/21			102	97 - 103			1.4	N/A
7974478	Conductivity	2015/07/21			100	80 - 120	<1.0	uS/cm	0	20
7974479	Alkalinity (PP as CaCO3)	2015/07/21					<0.50	mg/L	NC	20
7974479	Alkalinity (Total as CaCO3)	2015/07/21	99	80 - 120	99	80 - 120	<0.50	mg/L	4.2	20
7974479	Bicarbonate (HCO3)	2015/07/21					<0.50	mg/L	4.2	20
7974479	Carbonate (CO3)	2015/07/21					<0.50	mg/L	NC	20
7974479	Hydroxide (OH)	2015/07/21					<0.50	mg/L	NC	20
7974598	Dissolved Chloride (Cl)	2015/07/21	NC	80 - 120	102	80 - 120	<0.50	mg/L	0.78	20
7974601	Dissolved Sulphate (SO4)	2015/07/21	113	80 - 120	96	80 - 120	<0.50	mg/L	NC	20
7974619	Nitrate plus Nitrite (N)	2015/07/22	85	80 - 120	105	80 - 120	<0.020	mg/L	NC	25
7974626	Nitrite (N)	2015/07/21			103	80 - 120	<0.0050	mg/L	NC	20
7974664	Fluoride (F)	2015/07/21	103	80 - 120	96	80 - 120	<0.010	mg/L	NC	20
7974667	Fluoride (F)	2015/07/21	NC	80 - 120	96	80 - 120	<0.010	mg/L	0	20
7975938	Total Ammonia (N)	2015/07/22	111	80 - 120	98	80 - 120	<0.0050	mg/L	4.2	20
7978596	Dissolved Mercury (Hg)	2015/07/24	91	80 - 120	96	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B561260
Report Date: 2015/07/24

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Rob Reinert, Data Validation Coordinator

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Click here to get the COC number

Maxxam Job #: B561260 **COC #:** 2015-07-18 B Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name:	Minto Explorations Ltd
Contact Name:	Elvina Wong
Address:	Suite 900 - 999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	

Report To:

Company Name:	Minto Explorations Ltd
Contact Name:	Minto Environment
Address:	Suite 900-999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	minto_environment@mintomine.com

PO #:	214158
Quotation #:	
Project # :	
Proj. Name:	Minto Env. Monitoring
Location:	Yukon
Sampled by:	Chris H, Helaina M

REGULATORY REQUIREMENTS:

- ☐ CSR
- ☑ CCME
- ☐ BC Water Quality
- ☐ Other
- ☐ DRINKING WATER

SERVICE REQUESTED:

- ◉ Regular Turn Around Time (TAT) (5 days for most tests)
- **RUSH** (Please contact the lab) ○ 1 Day ○ 2 Day ○ 3 Day
- Date Required:

SPECIAL INSTRUCTIONS:

Return Cooler ☐ **Ship Sample Bottles (please specify)** ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Identification (Lab Use Only)	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM) Field Filtered? Y ☐ N ☑	Field Acidified? Y ☑ N ☐	Total Metals Field Acidified? Y ☐ N ☐	Nitrate ☑ Nitrite ☑	Ammonia ☑	Total Suspended Solids (TSS) ☐ TDS ☑	pH ☑ Conductivity ☑	Alkalinity ☑	Chloride ☑ Fluoride ☑	Sulphate ☑	Number of Containers
1	MW12-07-01		Ground W	18/07/2015 9:20	x	x		x	x	x	x	x	x	x	3
2	MW12-07-02		Ground W	18/07/2015 9:50	x	x		x	x	x	x	x	x	x	3
3	DUP		Ground W	18/07/2015	x	x		x	x	x	x	x	x	x	3
4															
5															
6															
7															
8															
9															
10															
11															
12															

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Chris Harry	18-Jul-15	11:00

Print name and sign

Received by :	Date (yy/mm/dd):	Time (24 hr):
[signature]	2015/07/20	10:00

Time Sensitive ☑

Laboratory Use Only

Temperature on Receipt (°C)					Custody Seal	Yes	No
A) 2	B) 3	C) 3			Present?	☐	☑
Just sampled & rec'd on ice: ☐					Intact?	☐	☐ NA

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

Maxxam Analytics Success Through Science ©

Success Through Science®

Your P.O. #: 214158
Your Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-08-12A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/08/20
Report #: R2027914
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B569369
Received: 2015/08/13, 08:55

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	8	2015/08/13	2015/08/14	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	8	N/A	2015/08/13	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	8	N/A	2015/08/14	BBY6SOP-00026	SM 22 2510 B m
Fluoride	8	N/A	2015/08/14	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	8	N/A	2015/08/18	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	8	N/A	2015/08/18	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	8	N/A	2015/08/18	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	8	N/A	2015/08/18	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	8	N/A	2015/08/14	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	8	N/A	2015/08/13	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	8	N/A	2015/08/13	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	8	N/A	2015/08/13	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	7	N/A	2015/08/13	BBY7 WI-00004	BCMOE Reqs 08/14
Filter and HNO3 Preserve for Metals	1	N/A	2015/08/18	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	8	N/A	2015/08/14	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	6	N/A	2015/08/13	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate by Automated Colourimetry	2	N/A	2015/08/14	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	5	2015/08/14	2015/08/17	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	3	2015/08/17	2015/08/20	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

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Your P.O. #: 214158
Your Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-08-12A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/08/20
Report #: R2027914
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B569369
Received: 2015/08/13, 08:55

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
This report has been generated and distributed using a secure automated process.
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Maxxam Job #: B569369
Report Date: 2015/08/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		MW4791	MW4792		MW4793		MW4794		
Sampling Date		2015/08/08 11:10	2015/08/08 13:25		2015/08/08 14:10		2015/08/08 14:35		
COC Number		2015-08-12A	2015-08-12A		2015-08-12A		2015-08-12A		
	UNITS	MW12-05-01	MW12-05-03	RDL	MW12-05-05	QC Batch	MW12-05-07	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	0.0505 (1)	0.0555 (1)	0.0050	0.0503 (1)	8001540	0.0187 (1)	0.0050	8001540
Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD	FIELD	N/A	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.021	<0.020	0.020	0.547	8000605	<0.020	0.020	8000605
Misc. Inorganics									
Fluoride (F)	mg/L	1.20	1.20	0.010	0.560	8002159	0.550	0.010	8002150
Alkalinity (Total as CaCO3)	mg/L	164	249	0.50	206	8002071	233	0.50	8002071
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	<0.50	8002071	<0.50	0.50	8002071
Bicarbonate (HCO3)	mg/L	200	304	0.50	251	8002071	284	0.50	8002071
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	<0.50	8002071	<0.50	0.50	8002071
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	<0.50	8002071	<0.50	0.50	8002071
Anions									
Dissolved Sulphate (SO4)	mg/L	849	783	5.0	54.9	8002093	45.2	0.50	8004876
Dissolved Chloride (Cl)	mg/L	16	9.9	0.50	15	8002079	6.4	0.50	8002079
Nutrients									
Total Ammonia (N)	mg/L	0.059	0.059	0.0050	0.054	8002820	0.10	0.0050	8002820
Nitrate plus Nitrite (N)	mg/L	0.072 (1)	0.068 (1)	0.020	0.597 (1)	8001539	0.024 (1)	0.020	8001539
Physical Properties									
Conductivity	uS/cm	1870	1840	1.0	547	8002073	525	1.0	8002073
pH	pH	8.07	8.09	N/A	8.19	8002075	8.25	N/A	8002075
Physical Properties									
Total Dissolved Solids	mg/L	1540	1570	10	338	8001516	336	10	8001516

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample arrived to laboratory past recommended hold time.

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Maxxam Job #: B569369
Report Date: 2015/08/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		MW4795	MW4796			MW4797		MW4798		
Sampling Date		2015/08/11 09:40	2015/08/11 10:15			2015/08/08		2015/08/11 10:15		
COC Number		2015-08-12A	2015-08-12A			2015-08-12A		2015-08-12A		
	UNITS	MW12-07-01	MW12-07-02	RDL	QC Batch	DUP	QC Batch	F-BL	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	0.295	0.219	0.0050	8001540	0.0341 (1)	8001540	<0.0050	0.0050	8001540
Calculated Parameters										
Filter and HNO3 Preservation	N/A	FIELD	FIELD	N/A	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.148	0.111	0.020	8000605	<0.020	8000605	<0.020	0.020	8000605
Misc. Inorganics										
Fluoride (F)	mg/L	1.10	1.40	0.010	8002150	0.550	8002159	<0.010	0.010	8002150
Alkalinity (Total as CaCO3)	mg/L	380	104	0.50	8002071	232	8002071	0.63	0.50	8002071
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	8002071	<0.50	8002071	<0.50	0.50	8002071
Bicarbonate (HCO3)	mg/L	464	127	0.50	8002071	283	8002071	0.77	0.50	8002071
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	8002071	<0.50	8002071	<0.50	0.50	8002071
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	8002071	<0.50	8002071	<0.50	0.50	8002071
Anions										
Dissolved Sulphate (SO4)	mg/L	399	659	5.0	8002093	43.2	8004876	<0.50	0.50	8002093
Dissolved Chloride (Cl)	mg/L	5.4	0.99	0.50	8002079	6.6	8002079	<0.50	0.50	8002079
Nutrients										
Total Ammonia (N)	mg/L	1.2	0.049	0.0050	8002820	0.085	8002820	0.0097	0.0050	8002820
Nitrate plus Nitrite (N)	mg/L	0.443	0.331	0.020	8001539	0.040 (1)	8001539	<0.020	0.020	8001539
Physical Properties										
Conductivity	uS/cm	1530	1420	1.0	8002073	525	8002073	1.0	1.0	8002073
pH	pH	7.73	7.91	N/A	8002075	8.28	8002075	5.71	N/A	8002075
Physical Properties										
Total Dissolved Solids	mg/L	1280	1160	10	8004397	332	8001516	22	10	8004397

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample arrived to laboratory past recommended hold time.

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Maxxam Job #: B569369
Report Date: 2015/08/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MW4791	MW4792	MW4793	MW4794	MW4795	MW4796		
Sampling Date		2015/08/08 11:10	2015/08/08 13:25	2015/08/08 14:10	2015/08/08 14:35	2015/08/11 09:40	2015/08/11 10:15		
COC Number		2015-08-12A	2015-08-12A	2015-08-12A	2015-08-12A	2015-08-12A	2015-08-12A		
	UNITS	MW12-05-01	MW12-05-03	MW12-05-05	MW12-05-07	MW12-07-01	MW12-07-02	RDL	QC Batch
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	771	828	234	241	698	640	0.50	8000563
Elements									
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8006126
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	10.0	7.3	10.6	9.2	11.6	8.9	3.0	8002343
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8002343
Dissolved Arsenic (As)	ug/L	1.02	0.33	0.20	0.29	0.80	1.82	0.10	8002343
Dissolved Barium (Ba)	ug/L	53.8	50.8	71.9	933	49.1	16.0	1.0	8002343
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8002343
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8002343
Dissolved Boron (B)	ug/L	186	104	104	<50	623	556	50	8002343
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	0.011	<0.010	<0.010	<0.010	0.010	8002343
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8002343
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8002343
Dissolved Copper (Cu)	ug/L	<0.20	0.23	0.49	<0.20	0.21	<0.20	0.20	8002343
Dissolved Iron (Fe)	ug/L	26.7	1620	15.9	141	282	212	5.0	8002343
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8002343
Dissolved Lithium (Li)	ug/L	6.3	5.1	<5.0	<5.0	21.8	25.4	5.0	8002343
Dissolved Manganese (Mn)	ug/L	114	2630	172	736	403	110	1.0	8002343
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	3.5	2.8	<1.0	20.0	1.0	8002343
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8002343
Dissolved Phosphorus (P)	ug/L	<10	<10	<10	51	<10	<10	10	8002343
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	0.12	<0.10	0.38	0.15	0.10	8002343
Dissolved Silicon (Si)	ug/L	7320	8020	6220	6190	8690	5950	100	8002343
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8002343
Dissolved Strontium (Sr)	ug/L	7110	8050	792	756	9800	10600	1.0	8002343
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8002343
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8002343
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8002343
Dissolved Uranium (U)	ug/L	0.95	1.14	2.47	1.76	<0.10	1.61	0.10	8002343
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8002343
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	12.9	<5.0	<5.0	6.4	5.0	8002343
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8002343
Dissolved Calcium (Ca)	mg/L	252	209	46.8	52.1	237	200	0.050	8000564
RDL = Reportable Detection Limit									

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Maxxam Job #: B569369
Report Date: 2015/08/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MW4791	MW4792	MW4793	MW4794	MW4795	MW4796		
Sampling Date		2015/08/08 11:10	2015/08/08 13:25	2015/08/08 14:10	2015/08/08 14:35	2015/08/11 09:40	2015/08/11 10:15		
COC Number		2015-08-12A	2015-08-12A	2015-08-12A	2015-08-12A	2015-08-12A	2015-08-12A		
	UNITS	**MW12-05-01**	**MW12-05-03**	**MW12-05-05**	**MW12-05-07**	**MW12-07-01**	**MW12-07-02**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	34.1	74.3	28.5	26.9	25.7	33.8	0.050	8000564
Dissolved Potassium (K)	mg/L	3.02	3.63	2.02	1.93	2.70	2.50	0.050	8000564
Dissolved Sodium (Na)	mg/L	134	111	19.3	16.8	79.0	73.4	0.050	8000564
Dissolved Sulphur (S)	mg/L	298	268	17.4	11.5	140	230	3.0	8000564
RDL = Reportable Detection Limit									

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Maxxam Job #: B569369
Report Date: 2015/08/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MW4797	MW4798		
Sampling Date		2015/08/08	2015/08/11 10:15		
COC Number		2015-08-12A	2015-08-12A		
	UNITS	DUP	F-BL	RDL	QC Batch
Misc. Inorganics					
Dissolved Hardness (CaCO3)	mg/L	258	<0.50	0.50	8000563
Elements					
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	0.010	8006126
Dissolved Metals by ICPMS					
Dissolved Aluminum (Al)	ug/L	7.0	<3.0	3.0	8002343
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	8002343
Dissolved Arsenic (As)	ug/L	0.24	<0.10	0.10	8002343
Dissolved Barium (Ba)	ug/L	966	<1.0	1.0	8002343
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	8002343
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	8002343
Dissolved Boron (B)	ug/L	<50	<50	50	8002343
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	0.010	8002343
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	8002343
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	8002343
Dissolved Copper (Cu)	ug/L	1.58	0.22	0.20	8002343
Dissolved Iron (Fe)	ug/L	216	<5.0	5.0	8002343
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	0.20	8002343
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	5.0	8002343
Dissolved Manganese (Mn)	ug/L	724	<1.0	1.0	8002343
Dissolved Molybdenum (Mo)	ug/L	3.1	<1.0	1.0	8002343
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	8002343
Dissolved Phosphorus (P)	ug/L	49	<10	10	8002343
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	0.10	8002343
Dissolved Silicon (Si)	ug/L	6400	<100	100	8002343
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	8002343
Dissolved Strontium (Sr)	ug/L	738	<1.0	1.0	8002343
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	8002343
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	8002343
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	8002343
Dissolved Uranium (U)	ug/L	1.78	<0.10	0.10	8002343
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	8002343
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	8002343
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	0.50	8002343
Dissolved Calcium (Ca)	mg/L	54.6	<0.050	0.050	8000564
RDL = Reportable Detection Limit					

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Maxxam Job #: B569369
Report Date: 2015/08/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MW4797	MW4798		
Sampling Date		2015/08/08	2015/08/11 10:15		
COC Number		2015-08-12A	2015-08-12A		
	UNITS	DUP	F-BL	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	29.5	<0.050	0.050	8000564
Dissolved Potassium (K)	mg/L	1.85	<0.050	0.050	8000564
Dissolved Sodium (Na)	mg/L	16.9	<0.050	0.050	8000564
Dissolved Sulphur (S)	mg/L	15.3	<3.0	3.0	8000564
RDL = Reportable Detection Limit					

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Maxxam Job #: B569369
Report Date: 2015/08/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample container and preservation received was not in compliance. Maxxam added HCl to stabilize Mercury in this sample prior to analysis.

Results relate only to the items tested.

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Maxxam Job #: B569369
Report Date: 2015/08/20

QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8001516	Total Dissolved Solids	2015/08/17	103	80 - 120	102	80 - 120	<10	mg/L	4.9	20
8001539	Nitrate plus Nitrite (N)	2015/08/13	NC	80 - 120	107	80 - 120	<0.020	mg/L	1.3	25
8001540	Nitrite (N)	2015/08/13	NC	80 - 120	103	80 - 120	<0.0050	mg/L	0.79	20
8002071	Alkalinity (PP as CaCO3)	2015/08/14					<0.50	mg/L	NC	20
8002071	Alkalinity (Total as CaCO3)	2015/08/14	NC	80 - 120	101	80 - 120	<0.50	mg/L	0.46	20
8002071	Bicarbonate (HCO3)	2015/08/14					<0.50	mg/L	0.46	20
8002071	Carbonate (CO3)	2015/08/14					<0.50	mg/L	NC	20
8002071	Hydroxide (OH)	2015/08/14					<0.50	mg/L	NC	20
8002073	Conductivity	2015/08/14			102	80 - 120	1.0, RDL=1.0	uS/cm	0.053	20
8002075	pH	2015/08/14			102	97 - 103			0.71	N/A
8002079	Dissolved Chloride (Cl)	2015/08/13	NC	80 - 120	99	80 - 120	<0.50	mg/L	0.020	20
8002093	Dissolved Sulphate (SO4)	2015/08/13	NC	80 - 120	95	80 - 120	<0.50	mg/L	2.4	20
8002150	Fluoride (F)	2015/08/14	104	80 - 120	100	80 - 120	<0.010	mg/L	3.4	20
8002159	Fluoride (F)	2015/08/14	NC	80 - 120	100	80 - 120	<0.010	mg/L	0	20
8002343	Dissolved Aluminum (Al)	2015/08/18	NC	80 - 120	111	80 - 120	<3.0	ug/L	9.4	20
8002343	Dissolved Antimony (Sb)	2015/08/18	117	80 - 120	108	80 - 120	<0.50	ug/L	NC	20
8002343	Dissolved Arsenic (As)	2015/08/18	NC	80 - 120	100	80 - 120	<0.10	ug/L	2.0	20
8002343	Dissolved Barium (Ba)	2015/08/18	107	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
8002343	Dissolved Beryllium (Be)	2015/08/18	100	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
8002343	Dissolved Bismuth (Bi)	2015/08/18	97	80 - 120	107	80 - 120	<1.0	ug/L	NC	20
8002343	Dissolved Boron (B)	2015/08/18					<50	ug/L	3.9	20
8002343	Dissolved Cadmium (Cd)	2015/08/18	99	80 - 120	101	80 - 120	<0.010	ug/L		
8002343	Dissolved Chromium (Cr)	2015/08/18	97	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
8002343	Dissolved Cobalt (Co)	2015/08/18	95	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
8002343	Dissolved Copper (Cu)	2015/08/18	NC	80 - 120	103	80 - 120	<0.20	ug/L		
8002343	Dissolved Iron (Fe)	2015/08/18	91	80 - 120	103	80 - 120	<5.0	ug/L	12	20
8002343	Dissolved Lead (Pb)	2015/08/18	100	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
8002343	Dissolved Lithium (Li)	2015/08/18	NC	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
8002343	Dissolved Manganese (Mn)	2015/08/18	99	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
8002343	Dissolved Molybdenum (Mo)	2015/08/18	NC	80 - 120	107	80 - 120	<1.0	ug/L	NC	20

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Maxxam Job #: B569369
Report Date: 2015/08/20

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8002343	Dissolved Nickel (Ni)	2015/08/18	93	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
8002343	Dissolved Phosphorus (P)	2015/08/18					<10	ug/L		
8002343	Dissolved Selenium (Se)	2015/08/18	90	80 - 120	93	80 - 120	<0.10	ug/L	NC	20
8002343	Dissolved Silicon (Si)	2015/08/18					<100	ug/L	6.8	20
8002343	Dissolved Silver (Ag)	2015/08/18	102	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
8002343	Dissolved Strontium (Sr)	2015/08/18	NC	80 - 120	100	80 - 120	<1.0	ug/L	2.9	20
8002343	Dissolved Thallium (Tl)	2015/08/18	101	80 - 120	101	80 - 120	<0.050	ug/L	NC	20
8002343	Dissolved Tin (Sn)	2015/08/18	108	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
8002343	Dissolved Titanium (Ti)	2015/08/18	104	80 - 120	100	80 - 120	<5.0	ug/L	NC	20
8002343	Dissolved Uranium (U)	2015/08/18	104	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
8002343	Dissolved Vanadium (V)	2015/08/18	99	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
8002343	Dissolved Zinc (Zn)	2015/08/18	NC	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
8002343	Dissolved Zirconium (Zr)	2015/08/18					<0.50	ug/L	NC	20
8002820	Total Ammonia (N)	2015/08/14	113	80 - 120	110	80 - 120	0.0077, RDL=0.0050	mg/L	5.0	20
8004397	Total Dissolved Solids	2015/08/20	NC	80 - 120	92	80 - 120	<10	mg/L	1.5	20
8004876	Dissolved Sulphate (SO4)	2015/08/14			99	80 - 120	<0.50	mg/L	NC	20
8006126	Dissolved Mercury (Hg)	2015/08/18	90	80 - 120	92	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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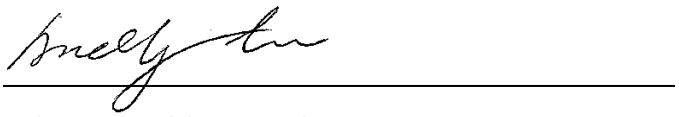
Maxxam Job #: B569369
Report Date: 2015/08/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: SR

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Data Validation Coordinator

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Maxxam Job #: B569369 **COC #:** 2015-08-12 A (Click here to get the COC number) Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name: Minto Explorations Ltd
Contact Name: Elvina Wong
Address: Suite 900 - 999 West Hastings St, Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail

Report To:

Company Name: Minto Explorations Ltd
Contact Name: Minto Environment
Address: Suite 900-999 West Hastings St, Vancouver, B.C. PC: V6C 2W2
Phone / Fax#: Ph: 604-684-8894 Fax: 604-688-2120
E-mail minto_environment@mintomine.com

PO #: 214158
Quotation #:
Project # :
Proj. Name: Minto Env. Monitoring
Location: Yukon
Sampled by: S. Roberts, D. Potvin

REGULATORY REQUIREMENTS:

☐ CSR
☑ CCME
☐ BC Water Quality
☐ Other
☐ DRINKING WATER

SERVICE REQUESTED:

◉ Regular Turn Around Time (TAT) (5 days for most tests)
RUSH (Please contact the lab) ○ 1 Day ○ 2 Day ○ 3 Day
Date Required:

SPECIAL INSTRUCTIONS:
Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Use Only: Lab Identification	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM)	Field Filtered? Y N	Total Metals	Field Acidified? Y N	Nitrate ☑	Nitrite ☑	Ammonia ☑	Total Suspended Solids (TSS) ☐	TDS ☑	pH ☑	Conductivity ☑	Alkalinity ☑	Chloride ☑	Fluoride ☑	Sulphate ☑	Number of Containers
1	MW12-05-01	MW4791	Ground W	15/08/08 11:10	x	x		x	x		x	x		x	x	x	x	x	x	3
2	MW12-05-03	MW4792	Ground W	15/08/08 13:25	x	x		x	x		x	x		x	x	x	x	x	x	3
3	MW12-05-05	MW4793	Ground W	15/08/08 14:10	x	x		x	x		x	x		x	x	x	x	x	x	3
4	MW12-05-07	MW4794	Ground W	15/08/08 14:35	x	x		x	x		x	x		x	x	x	x	x	x	3
5	MW12-07-01	MW4795	Ground W	15/08/11 09:40	x	x		x	x		x	x		x	x	x	x	x	x	3
6	MW12-07-02	MW4796	Ground W	15/08/11 10:15	x	x		x	x		x	x		x	x	x	x	x	x	3
7	DUP	MW4797	Ground W	15/08/08	x	x		x	x		x	x		x	x	x	x	x	x	3
8	F-BL	MW4798	Ground W	15/08/11 10:15	x	x		x	x		x	x		x	x	x	x	x	x	3
9																				
10																				
11																				
12																				

B569369

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Shaun Roberts	15/08/12	9:00

Print name and sign

Received by :	Date (yy/mm/dd):	Time (24 hr):	Time Sensitive
[signature]	2015/08/13	08:55	☑

Laboratory Use Only

Temperature on Receipt (°C) A) 4 B) 4 C) 4
Just sampled & rec'd on ice: ☐

Custody Seal	Yes	No
Present?	☐	☑
Intact?	☐	☑ N/A

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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Success Through Science®

Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-10-12 A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/10/20
Report #: R2061568
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B590087
Received: 2015/10/13, 10:00

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	5	2015/10/16	2015/10/16	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	5	N/A	2015/10/14	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	5	N/A	2015/10/16	BBY6SOP-00026	SM 22 2510 B m
Fluoride	5	N/A	2015/10/13	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	5	N/A	2015/10/15	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	5	N/A	2015/10/20	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	5	N/A	2015/10/15	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	5	N/A	2015/10/15	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	5	N/A	2015/10/16	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	5	N/A	2015/10/14	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	5	N/A	2015/10/14	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	5	N/A	2015/10/15	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	2	N/A	2015/10/15	BBY7 WI-00004	BCMOE Reqs 08/14
Filter and HNO3 Preserve for Metals	3	N/A	2015/10/17	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	5	N/A	2015/10/16	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	5	N/A	2015/10/14	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	5	2015/10/15	2015/10/17	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-10-12 A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/10/20
Report #: R2061568
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B590087
Received: 2015/10/13, 10:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Morgan Melnychuk, Burnaby Project Manager
Email: MMelnychuk@maxxam.ca
Phone# (604)638-8034 Ext:8034
==========
This report has been generated and distributed using a secure automated process.
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Maxxam Job #: B590087
Report Date: 2015/10/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		NJ2469	NJ2470		NJ2471			NJ2472		
Sampling Date		2015/10/10 11:00	2015/10/10 11:30		2015/10/11 16:40			2015/10/11 17:15		
COC Number		2015-10-12 A	2015-10-12 A		2015-10-12 A			2015-10-12 A		
	UNITS	MW12-DP4	MW13-DP5	RDL	MW12-07-01	RDL	QC Batch	MW12-07-02	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	0.100 (1)	<0.0050 (1)	0.0050	0.590	0.025	8074327	0.222	0.0050	8074327
Calculated Parameters										
Filter and HNO3 Preservation	N/A	FIELD	FIELD	N/A	FIELD	N/A	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	5.86	10.6	0.20	0.274	0.025	8071773	0.107	0.020	8071773
Misc. Inorganics										
Fluoride (F)	mg/L	0.300	0.380	0.010	1.00	0.010	8072703	1.30	0.010	8072703
Alkalinity (Total as CaCO3)	mg/L	297	282	0.50	373	0.50	8076877	105	0.50	8076877
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	<0.50	0.50	8076877	<0.50	0.50	8076877
Bicarbonate (HCO3)	mg/L	362	344	0.50	455	0.50	8076877	128	0.50	8076877
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	<0.50	0.50	8076877	<0.50	0.50	8076877
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	<0.50	0.50	8076877	<0.50	0.50	8076877
Anions										
Dissolved Sulphate (SO4)	mg/L	158	172	0.50	380	5.0	8074624	673	5.0	8074624
Dissolved Chloride (Cl)	mg/L	21	22	0.50	5.1	0.50	8074618	1.3	0.50	8074618
Nutrients										
Total Ammonia (N)	mg/L	0.16	0.080	0.0050	1.6	0.0050	8077550	0.24	0.0050	8077549
Nitrate plus Nitrite (N)	mg/L	5.96 (1)	10.6 (1)	0.20	0.863	0.020	8074326	0.329	0.020	8074326
Physical Properties										
Conductivity	uS/cm	953	985	1.0	1480	1.0	8076881	1440	1.0	8076881
pH	pH	8.11	8.24	N/A	7.94	N/A	8076882	8.01	N/A	8076882
Physical Properties										
Total Dissolved Solids	mg/L	638	656	10	1220	10	8074988	1120	10	8074988

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B590087
Report Date: 2015/10/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		NJ2473		
Sampling Date		2015/10/11		
COC Number		2015-10-12 A		
	UNITS	DUP	RDL	QC Batch
ANIONS				
Nitrite (N)	mg/L	0.218	0.0050	8074327
Calculated Parameters				
Filter and HNO3 Preservation	N/A	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.110	0.020	8071773
Misc. Inorganics				
Fluoride (F)	mg/L	1.30	0.010	8072703
Alkalinity (Total as CaCO3)	mg/L	105	0.50	8076877
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8076877
Bicarbonate (HCO3)	mg/L	128	0.50	8076877
Carbonate (CO3)	mg/L	<0.50	0.50	8076877
Hydroxide (OH)	mg/L	<0.50	0.50	8076877
Anions				
Dissolved Sulphate (SO4)	mg/L	690	5.0	8074624
Dissolved Chloride (Cl)	mg/L	1.3	0.50	8074618
Nutrients				
Total Ammonia (N)	mg/L	0.15	0.0050	8077549
Nitrate plus Nitrite (N)	mg/L	0.329	0.020	8074326
Physical Properties				
Conductivity	uS/cm	1450	1.0	8076881
pH	pH	8.02	N/A	8076882
Physical Properties				
Total Dissolved Solids	mg/L	1130	10	8074988

RDL = Reportable Detection Limit
N/A = Not Applicable

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Maxxam Job #: B590087
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MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		NJ2469	NJ2470	NJ2471	NJ2472	NJ2473		
Sampling Date		2015/10/10 11:00	2015/10/10 11:30	2015/10/11 16:40	2015/10/11 17:15	2015/10/11		
COC Number		2015-10-12 A	2015-10-12 A	2015-10-12 A	2015-10-12 A	2015-10-12 A		
	UNITS	MW12-DP4	MW13-DP5	MW12-07-01	MW12-07-02	DUP	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	469	490	718	644	677	0.50	8071571
Elements								
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8080932
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	19.2	17.6	22.7	19.2	18.9	3.0	8073245
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8073245
Dissolved Arsenic (As)	ug/L	0.38	0.34	1.00	1.76	1.89	0.10	8073245
Dissolved Barium (Ba)	ug/L	250	178	50.5	13.7	12.3	1.0	8073245
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8073245
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8073245
Dissolved Boron (B)	ug/L	<50	<50	620	264	257	50	8073245
Dissolved Cadmium (Cd)	ug/L	0.179	0.047	0.011	<0.010	<0.010	0.010	8073245
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8073245
Dissolved Cobalt (Co)	ug/L	0.80	<0.50	<0.50	<0.50	<0.50	0.50	8073245
Dissolved Copper (Cu)	ug/L	7.36	8.03	<0.20	0.42	<0.20	0.20	8073245
Dissolved Iron (Fe)	ug/L	17.3	10.4	173	231	233	5.0	8073245
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8073245
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	24.3	24.4	25.1	5.0	8073245
Dissolved Manganese (Mn)	ug/L	1470	2.1	343	111	110	1.0	8073245
Dissolved Molybdenum (Mo)	ug/L	7.7	8.6	<1.0	19.7	20.0	1.0	8073245
Dissolved Nickel (Ni)	ug/L	4.0	1.6	1.9	<1.0	<1.0	1.0	8073245
Dissolved Phosphorus (P)	ug/L	14	<10	11	<10	<10	10	8073245
Dissolved Selenium (Se)	ug/L	3.12	5.47	0.35	<0.10	<0.10	0.10	8073245
Dissolved Silicon (Si)	ug/L	6490	6630	10500	6920	7220	100	8073245
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8073245
Dissolved Strontium (Sr)	ug/L	1040	1320	9520	10300	9520	1.0	8073245
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8073245
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8073245
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8073245
Dissolved Uranium (U)	ug/L	4.22	3.91	0.16	1.56	1.44	0.10	8073245
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8073245
Dissolved Zinc (Zn)	ug/L	6.9	<5.0	<5.0	<5.0	<5.0	5.0	8073245
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8073245
Dissolved Calcium (Ca)	mg/L	119	123	244	207	217	0.050	8071950
RDL = Reportable Detection Limit								

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Maxxam Job #: B590087
Report Date: 2015/10/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		NJ2469	NJ2470	NJ2471	NJ2472	NJ2473		
Sampling Date		2015/10/10 11:00	2015/10/10 11:30	2015/10/11 16:40	2015/10/11 17:15	2015/10/11		
COC Number		2015-10-12 A	2015-10-12 A	2015-10-12 A	2015-10-12 A	2015-10-12 A		
	UNITS	**MW12-DP4**	**MW13-DP5**	**MW12-07-01**	**MW12-07-02**	**DUP**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	41.8	44.3	26.7	30.7	33.0	0.050	8071950
Dissolved Potassium (K)	mg/L	4.13	4.81	3.15	2.70	2.67	0.050	8071950
Dissolved Sodium (Na)	mg/L	21.2	22.6	82.2	69.1	68.0	0.050	8071950
Dissolved Sulphur (S)	mg/L	58.0	64.0	156	255	251	3.0	8071950
RDL = Reportable Detection Limit								

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MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
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GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample container and preservation received was not in compliance. Maxxam added HCl to stabilize Mercury in this sample prior to analysis.

Results relate only to the items tested.

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Maxxam Job #: B590087
Report Date: 2015/10/20

QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8072703	Fluoride (F)	2015/10/13	NC	80 - 120	96	80 - 120	<0.010	mg/L	2.6	20
8073245	Dissolved Aluminum (Al)	2015/10/15	100	80 - 120	103	80 - 120	<3.0	ug/L	NC	20
8073245	Dissolved Antimony (Sb)	2015/10/15	108	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
8073245	Dissolved Arsenic (As)	2015/10/15	NC	80 - 120	99	80 - 120	<0.10	ug/L	0.76	20
8073245	Dissolved Barium (Ba)	2015/10/15	NC	80 - 120	98	80 - 120	<1.0	ug/L	3.4	20
8073245	Dissolved Beryllium (Be)	2015/10/15	98	80 - 120	92	80 - 120	<0.10	ug/L	NC	20
8073245	Dissolved Bismuth (Bi)	2015/10/15	101	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
8073245	Dissolved Boron (B)	2015/10/15					<50	ug/L	NC	20
8073245	Dissolved Cadmium (Cd)	2015/10/15	97	80 - 120	94	80 - 120	<0.010	ug/L	NC	20
8073245	Dissolved Chromium (Cr)	2015/10/15	93	80 - 120	94	80 - 120	<1.0	ug/L	NC	20
8073245	Dissolved Cobalt (Co)	2015/10/15	92	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
8073245	Dissolved Copper (Cu)	2015/10/15	91	80 - 120	97	80 - 120	<0.20	ug/L	NC	20
8073245	Dissolved Iron (Fe)	2015/10/15	NC	80 - 120	111	80 - 120	<5.0	ug/L	1.8	20
8073245	Dissolved Lead (Pb)	2015/10/15	94	80 - 120	91	80 - 120	<0.20	ug/L	NC	20
8073245	Dissolved Lithium (Li)	2015/10/15	NC	80 - 120	91	80 - 120	<5.0	ug/L	1.9	20
8073245	Dissolved Manganese (Mn)	2015/10/15	NC	80 - 120	98	80 - 120	<1.0	ug/L	0.28	20
8073245	Dissolved Molybdenum (Mo)	2015/10/15	NC	80 - 120	102	80 - 120	<1.0	ug/L	11	20
8073245	Dissolved Nickel (Ni)	2015/10/15	94	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
8073245	Dissolved Phosphorus (P)	2015/10/15					<10	ug/L		
8073245	Dissolved Selenium (Se)	2015/10/15	97	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
8073245	Dissolved Silicon (Si)	2015/10/15					<100	ug/L	7.1	20
8073245	Dissolved Silver (Ag)	2015/10/15	115	80 - 120	92	80 - 120	<0.020	ug/L	NC	20
8073245	Dissolved Strontium (Sr)	2015/10/15	NC	80 - 120	97	80 - 120	<1.0	ug/L	6.3	20
8073245	Dissolved Thallium (Tl)	2015/10/15	98	80 - 120	84	80 - 120	<0.050	ug/L	NC	20
8073245	Dissolved Tin (Sn)	2015/10/15	106	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
8073245	Dissolved Titanium (Ti)	2015/10/15	101	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
8073245	Dissolved Uranium (U)	2015/10/15	95	80 - 120	91	80 - 120	<0.10	ug/L	NC	20
8073245	Dissolved Vanadium (V)	2015/10/15	97	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
8073245	Dissolved Zinc (Zn)	2015/10/15	96	80 - 120	109	80 - 120	<5.0	ug/L	NC	20
8073245	Dissolved Zirconium (Zr)	2015/10/15					<0.50	ug/L	NC	20

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Maxxam Job #: B590087
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QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8074326	Nitrate plus Nitrite (N)	2015/10/14	99	80 - 120	107	80 - 120	<0.020	mg/L	NC	25
8074327	Nitrite (N)	2015/10/14	96	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20
8074618	Dissolved Chloride (Cl)	2015/10/14	89	80 - 120	94	80 - 120	<0.50	mg/L	1.9	20
8074624	Dissolved Sulphate (SO4)	2015/10/14	NC	80 - 120	86	80 - 120	<0.50	mg/L	2.2	20
8074988	Total Dissolved Solids	2015/10/17	94	80 - 120	94	80 - 120	<10	mg/L	7.1	20
8076877	Alkalinity (PP as CaCO3)	2015/10/16					<0.50	mg/L	NC	20
8076877	Alkalinity (Total as CaCO3)	2015/10/16	NC	80 - 120	98	80 - 120	<0.50	mg/L	0.38	20
8076877	Bicarbonate (HCO3)	2015/10/16					<0.50	mg/L	0.38	20
8076877	Carbonate (CO3)	2015/10/16					<0.50	mg/L	NC	20
8076877	Hydroxide (OH)	2015/10/16					<0.50	mg/L	NC	20
8076881	Conductivity	2015/10/16			100	80 - 120	<1.0	uS/cm	0.72	20
8076882	pH	2015/10/16			101	97 - 103			0.49	N/A
8077549	Total Ammonia (N)	2015/10/16	NC	80 - 120	106	80 - 120	0.0065, RDL=0.0050	mg/L	2.4	20
8077550	Total Ammonia (N)	2015/10/16	NC	80 - 120	108	80 - 120	<0.0050	mg/L	0.048	20
8080932	Dissolved Mercury (Hg)	2015/10/20	103	80 - 120	110	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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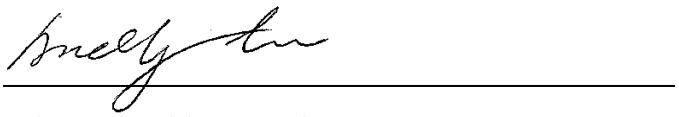
Maxxam Job #: B590087
Report Date: 2015/10/20

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Data Validation Coordinator

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Maxxam Job #: B590087 COC #: 2015-10-12 A (Click here to get the COC number) Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name:	Minto Explorations Ltd
Contact Name:	Elvina Wong
Address:	Suite 900 - 999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	

Report To:

Company Name:	Minto Explorations Ltd
Contact Name:	Minto Environment
Address:	Suite 900-999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	minto_environment@mintomine.com

PO #:	214158
Quotation #:	
Project # :	
Proj. Name:	Minto Env. Monitoring
Location:	Yukon
Sampled by:	Chris Harry

REGULATORY REQUIREMENTS:
- ☐ CSR
- ☑ CCME
- ☐ BC Water Quality
- ☐ Other
- ☐ DRINKING WATER

SERVICE REQUESTED:
- ◉ Regular Turn Around Time (TAT) (5 days for most tests)
- **RUSH** (Please contact the lab) ○ 1 Day ○ 2 Day ○ 3 Day
- Date Required:

SPECIAL INSTRUCTIONS:
Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

Lab Use Only

	Sample Identification	Lab Identification	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM)	Field Filtered? Y/N	Total Metals	Field Acidified? Y/N	Nitrate ☑	Nitrite ☑	Ammonia ☑	Total Suspended Solids (TSS) ☐	TDS ☑	pH ☑	Conductivity ☑	Alkalinity ☑	Chloride ☑	Fluoride ☑	Sulphate ☑	Number of Containers
1	MW12-DP4	NJ2469	Ground W	10/10/2015 11:00	x	x			x		x	x		x	x	x	x			3
2	MW13-DP5	NJ2470	Ground W	10/10/2015 11:30	x	x			x		x	x		x	x	x	x			3
3	MW12-07-01	NJ2471	Ground W	11/10/2015 16:40	x	x			x		x	x		x	x	x	x			3
4	MW12-07-02	NJ2472	Ground W	11/10/2015 17:15	x	x			x		x	x		x	x	x	x			3
5	DUP	NJ2473	Ground W	11/10/2015	x	x			x		x	x		x	x	x	x			3
6																				
7																				
8																				
9																				
10																				
11																				
12																				

B590087

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Chris Harry	12-Oct-15	7:45

Print name and sign

Received by :	Date (yy/mm/dd):	Time (24 hr):
Laurel Berthier	2015/10/13	10:00

Time Sensitive ☑

Laboratory Use Only

Temperature on Receipt (°C) A) 3 B) 4 C) 6

Just sampled & rec'd on ice: ☐

Custody Seal	Yes	No
Present?	☐	☑
Intact?	☐	☐ N/A

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-08-19A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/08/26
Report #: R2030511
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B571780
Received: 2015/08/20, 10:20

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	8	2015/08/21	2015/08/21	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	8	N/A	2015/08/21	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	8	N/A	2015/08/21	BBY6SOP-00026	SM 22 2510 B m
Fluoride	8	N/A	2015/08/21	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	8	N/A	2015/08/25	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	8	N/A	2015/08/25	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	8	N/A	2015/08/25	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	8	N/A	2015/08/25	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	8	N/A	2015/08/24	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	4	N/A	2015/08/20	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrate + Nitrite (N)	4	N/A	2015/08/21	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	4	N/A	2015/08/20	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	4	N/A	2015/08/21	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	4	N/A	2015/08/20	BBY6SOP-00010	SM 22 4500-NO3 I m
Nitrogen - Nitrate (as N)	4	N/A	2015/08/21	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	7	N/A	2015/08/21	BBY7 WI-00004	BCMOE Reqs 08/14
Filter and HNO3 Preserve for Metals	1	N/A	2015/08/25	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	8	N/A	2015/08/21	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	8	N/A	2015/08/21	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	2	2015/08/22	2015/08/24	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	6	2015/08/24	2015/08/25	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: 214158
Your Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-08-19A

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/08/26
Report #: R2030511
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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B571780
Received: 2015/08/20, 10:20

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ken Pomeroy, Project Manager
Email: KPomeroy@maxxam.ca
Phone# (604)638-5020
==========
This report has been generated and distributed using a secure automated process.
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Maxxam Job #: B571780
Report Date: 2015/08/26

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		MX8560		MX8561		MX8562		MX8563		
Sampling Date		2015/08/17 15:00		2015/08/18 15:30		2015/08/18 16:00		2015/08/17		
COC Number		2015-08-19A		2015-08-19A		2015-08-19A		2015-08-19A		
	UNITS	MW12-06-02	QC Batch	MW12-06-04	QC Batch	MW12-06-06	QC Batch	DUP	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	0.114	8009552	0.143	8009552	0.0672	8009552	0.139	0.0050	8009552
Calculated Parameters										
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.033	8008717	0.040	8008717	1.04	8008717	0.044	0.020	8008717
Misc. Inorganics										
Fluoride (F)	mg/L	1.50	8011211	1.30	8011211	0.660	8011211	1.30	0.010	8011211
Alkalinity (Total as CaCO3)	mg/L	348	8011082	393	8011082	305	8011082	397	0.50	8011082
Alkalinity (PP as CaCO3)	mg/L	<0.50	8011082	<0.50	8011082	<0.50	8011082	<0.50	0.50	8011082
Bicarbonate (HCO3)	mg/L	424	8011082	480	8011082	372	8011082	484	0.50	8011082
Carbonate (CO3)	mg/L	<0.50	8011082	<0.50	8011082	<0.50	8011082	<0.50	0.50	8011082
Hydroxide (OH)	mg/L	<0.50	8011082	<0.50	8011082	<0.50	8011082	<0.50	0.50	8011082
Anions										
Dissolved Sulphate (SO4)	mg/L	199	8011364	171	8011364	146	8011364	166	0.50	8011364
Dissolved Chloride (Cl)	mg/L	1.3	8011363	0.96	8011363	5.7	8011363	1.1	0.50	8011363
Nutrients										
Total Ammonia (N)	mg/L	0.066	8013562	0.028	8013560	0.025	8013560	0.023	0.0050	8013562
Nitrate plus Nitrite (N)	mg/L	0.147	8009551	0.183	8009551	1.10	8009551	0.183	0.020	8009551
Physical Properties										
Conductivity	uS/cm	986	8011091	980	8011091	819	8011091	992	1.0	8011091
pH	pH	8.13	8011092	8.02	8011092	8.03	8011092	8.09	N/A	8011092
Physical Properties										
Total Dissolved Solids	mg/L	658	8011657	616	8011657	480	8012688	620	10	8012688

RDL = Reportable Detection Limit
N/A = Not Applicable

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Maxxam Job #: B571780
Report Date: 2015/08/26

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		MX8564		MX8565		MX8566	MX8567		
Sampling Date		2015/08/18 13:45		2015/08/18 14:30		2015/08/18 16:00	2015/08/18		
COC Number		2015-08-19A		2015-08-19A		2015-08-19A	2015-08-19A		
	UNITS	MW09-03-01	QC Batch	MW09-03-02	QC Batch	MW09-03-03	DUP	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	0.119	8011027	0.0507	8011027	0.0117	0.127	0.0050	8011027
Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.134	8008717	<0.020	8008717	0.501	0.131	0.020	8008717
Misc. Inorganics									
Fluoride (F)	mg/L	0.850	8011211	0.650	8011211	0.460	0.860	0.010	8011211
Alkalinity (Total as CaCO3)	mg/L	127	8011082	434	8011063	82.1	129	0.50	8011082
Alkalinity (PP as CaCO3)	mg/L	<0.50	8011082	<0.50	8011063	<0.50	<0.50	0.50	8011082
Bicarbonate (HCO3)	mg/L	155	8011082	529	8011063	100	158	0.50	8011082
Carbonate (CO3)	mg/L	<0.50	8011082	<0.50	8011063	<0.50	<0.50	0.50	8011082
Hydroxide (OH)	mg/L	<0.50	8011082	<0.50	8011063	<0.50	<0.50	0.50	8011082
Anions									
Dissolved Sulphate (SO4)	mg/L	21.6	8011364	<0.50	8011364	11.9	21.5	0.50	8011364
Dissolved Chloride (Cl)	mg/L	<0.50	8011363	3.8	8011363	1.7	0.68	0.50	8011363
Nutrients									
Total Ammonia (N)	mg/L	0.076	8013560	0.21	8013560	0.040	0.040	0.0050	8013560
Nitrate plus Nitrite (N)	mg/L	0.252	8011021	0.054	8011021	0.513	0.258	0.020	8011021
Physical Properties									
Conductivity	uS/cm	292	8011091	790	8011069	189	297	1.0	8011091
pH	pH	8.10	8011092	7.86	8011071	7.94	8.11	N/A	8011092
Physical Properties									
Total Dissolved Solids	mg/L	146	8012688	458	8012688	92	146	10	8012688

RDL = Reportable Detection Limit
N/A = Not Applicable

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Maxxam Job #: B571780
Report Date: 2015/08/26

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MX8560	MX8561	MX8562	MX8563	MX8564	MX8565		
Sampling Date		2015/08/17 15:00	2015/08/18 15:30	2015/08/18 16:00	2015/08/17	2015/08/18 13:45	2015/08/18 14:30		
COC Number		2015-08-19A	2015-08-19A	2015-08-19A	2015-08-19A	2015-08-19A	2015-08-19A		
	UNITS	MW12-06-02	MW12-06-04	MW12-06-06	DUP	MW09-03-01	MW09-03-02	RDL	QC Batch
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	480	499	414	503	142	422	0.50	8008711
Elements									
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8014170
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	10.2	8.1	5.9	7.4	8.2	7.6	3.0	8013305
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8013305
Dissolved Arsenic (As)	ug/L	3.78	1.88	0.13	2.01	<0.10	0.38	0.10	8013305
Dissolved Barium (Ba)	ug/L	28.1	18.5	14.5	19.0	39.9	402	1.0	8013305
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8013305
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8013305
Dissolved Boron (B)	ug/L	165	109	93	114	97	285	50	8013305
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8013305
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8013305
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8013305
Dissolved Copper (Cu)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	2.22	0.20	8013305
Dissolved Iron (Fe)	ug/L	1230	767	14.5	721	7.0	14700	5.0	8013305
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8013305
Dissolved Lithium (Li)	ug/L	9.1	7.3	<5.0	6.6	<5.0	<5.0	5.0	8013305
Dissolved Manganese (Mn)	ug/L	34.1	47.3	20.8	46.8	59.5	12400	1.0	8013305
Dissolved Molybdenum (Mo)	ug/L	8.3	8.1	6.0	8.4	4.3	11.1	1.0	8013305
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8013305
Dissolved Phosphorus (P)	ug/L	<10	<10	<10	<10	<10	<10	10	8013305
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	0.15	<0.10	<0.10	0.18	0.10	8013305
Dissolved Silicon (Si)	ug/L	9730	8340	6760	8070	4210	8350	100	8013305
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8013305
Dissolved Strontium (Sr)	ug/L	11000	2890	1610	3130	684	1380	1.0	8013305
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8013305
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8013305
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8013305
Dissolved Uranium (U)	ug/L	2.48	5.69	4.05	6.01	1.74	0.31	0.10	8013305
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8013305
Dissolved Zinc (Zn)	ug/L	5.9	6.9	6.6	6.3	5.9	9.5	5.0	8013305
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8013305
Dissolved Calcium (Ca)	mg/L	132	101	79.7	103	41.4	133	0.050	8008713

RDL = Reportable Detection Limit

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Maxxam Job #: B571780
Report Date: 2015/08/26

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MX8560	MX8561	MX8562	MX8563	MX8564	MX8565		
Sampling Date		2015/08/17 15:00	2015/08/18 15:30	2015/08/18 16:00	2015/08/17	2015/08/18 13:45	2015/08/18 14:30		
COC Number		2015-08-19A	2015-08-19A	2015-08-19A	2015-08-19A	2015-08-19A	2015-08-19A		
	UNITS	MW12-06-02	MW12-06-04	MW12-06-06	DUP	MW09-03-01	MW09-03-02	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	36.5	60.0	52.2	59.9	9.35	21.9	0.050	8008713
Dissolved Potassium (K)	mg/L	3.25	3.45	3.07	3.34	2.37	3.50	0.050	8008713
Dissolved Sodium (Na)	mg/L	40.2	35.3	30.9	33.2	5.24	13.8	0.050	8008713
Dissolved Sulphur (S)	mg/L	66.1	55.8	55.4	55.8	6.3	<3.0	3.0	8008713

RDL = Reportable Detection Limit

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Maxxam Job #: B571780
Report Date: 2015/08/26

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MX8566	MX8567		
Sampling Date		2015/08/18 16:00	2015/08/18		
COC Number		2015-08-19A	2015-08-19A		
	UNITS	MW09-03-03	DUP	RDL	QC Batch
Misc. Inorganics					
Dissolved Hardness (CaCO3)	mg/L	95.2	138	0.50	8008711
Elements					
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	0.010	8014170
Dissolved Metals by ICPMS					
Dissolved Aluminum (Al)	ug/L	8.2	10.5	3.0	8013305
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	8013305
Dissolved Arsenic (As)	ug/L	<0.10	<0.10	0.10	8013305
Dissolved Barium (Ba)	ug/L	24.6	40.9	1.0	8013305
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	8013305
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	8013305
Dissolved Boron (B)	ug/L	64	96	50	8013305
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	0.010	8013305
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	8013305
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	8013305
Dissolved Copper (Cu)	ug/L	1.78	<0.20	0.20	8013305
Dissolved Iron (Fe)	ug/L	107	16.0	5.0	8013305
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	0.20	8013305
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	5.0	8013305
Dissolved Manganese (Mn)	ug/L	354	61.1	1.0	8013305
Dissolved Molybdenum (Mo)	ug/L	5.7	4.0	1.0	8013305
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	8013305
Dissolved Phosphorus (P)	ug/L	<10	<10	10	8013305
Dissolved Selenium (Se)	ug/L	0.31	<0.10	0.10	8013305
Dissolved Silicon (Si)	ug/L	4250	4150	100	8013305
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	8013305
Dissolved Strontium (Sr)	ug/L	224	710	1.0	8013305
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	8013305
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	8013305
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	8013305
Dissolved Uranium (U)	ug/L	0.97	1.57	0.10	8013305
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	8013305
Dissolved Zinc (Zn)	ug/L	9.8	23.2	5.0	8013305
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	0.50	8013305
Dissolved Calcium (Ca)	mg/L	31.3	40.1	0.050	8008713
RDL = Reportable Detection Limit					

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Maxxam Job #: B571780
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MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		MX8566	MX8567		
Sampling Date		2015/08/18 16:00	2015/08/18		
COC Number		2015-08-19A	2015-08-19A		
	UNITS	**MW09-03-03**	**DUP**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	4.14	9.28	0.050	8008713
Dissolved Potassium (K)	mg/L	1.52	2.48	0.050	8008713
Dissolved Sodium (Na)	mg/L	3.56	5.19	0.050	8008713
Dissolved Sulphur (S)	mg/L	3.9	8.7	3.0	8008713
RDL = Reportable Detection Limit					

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Maxxam Job #: B571780
Report Date: 2015/08/26

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample containers and preservation received were not in compliance. Maxxam added HCl to stabilize Mercury in these samples prior to analysis.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8009551	Nitrate plus Nitrite (N)	2015/08/20			105	80 - 120	<0.020	mg/L		
8009552	Nitrite (N)	2015/08/20			103	80 - 120	<0.0050	mg/L		
8011021	Nitrate plus Nitrite (N)	2015/08/21	107	80 - 120	106	80 - 120	<0.020	mg/L	NC	25
8011027	Nitrite (N)	2015/08/21	101	80 - 120	101	80 - 120	<0.0050	mg/L	NC	20
8011063	Alkalinity (PP as CaCO3)	2015/08/21					<0.50	mg/L	NC	20
8011063	Alkalinity (Total as CaCO3)	2015/08/21	105	80 - 120	99	80 - 120	0.50, RDL=0.50	mg/L	1.0	20
8011063	Bicarbonate (HCO3)	2015/08/21					0.61, RDL=0.50	mg/L	1.0	20
8011063	Carbonate (CO3)	2015/08/21					<0.50	mg/L	NC	20
8011063	Hydroxide (OH)	2015/08/21					<0.50	mg/L	NC	20
8011069	Conductivity	2015/08/21			98	80 - 120	<1.0	uS/cm	1.7	20
8011071	pH	2015/08/21			101	97 - 103			1.0	N/A
8011082	Alkalinity (PP as CaCO3)	2015/08/21					<0.50	mg/L		
8011082	Alkalinity (Total as CaCO3)	2015/08/21	NC	80 - 120	96	80 - 120	<0.50	mg/L		
8011082	Bicarbonate (HCO3)	2015/08/21					<0.50	mg/L		
8011082	Carbonate (CO3)	2015/08/21					<0.50	mg/L		
8011082	Hydroxide (OH)	2015/08/21					<0.50	mg/L		
8011091	Conductivity	2015/08/21			99	80 - 120	1.3, RDL=1.0	uS/cm		
8011092	pH	2015/08/21			101	97 - 103				
8011211	Fluoride (F)	2015/08/21	101	80 - 120	100	80 - 120	0.014, RDL=0.010	mg/L	0	20
8011363	Dissolved Chloride (Cl)	2015/08/21	89	80 - 120	96	80 - 120	<0.50	mg/L	NC	20
8011364	Dissolved Sulphate (SO4)	2015/08/21	NC	80 - 120	88	80 - 120	<0.50	mg/L	0.77	20
8011657	Total Dissolved Solids	2015/08/24	103	80 - 120	94	80 - 120	10, RDL=10	mg/L	2.7	20
8012688	Total Dissolved Solids	2015/08/25	101	80 - 120	98	80 - 120	<10	mg/L	1.8	20
8013305	Dissolved Aluminum (Al)	2015/08/25	112	80 - 120	116	80 - 120	<3.0	ug/L	NC	20
8013305	Dissolved Antimony (Sb)	2015/08/25	112	80 - 120	116	80 - 120	<0.50	ug/L	NC	20
8013305	Dissolved Arsenic (As)	2015/08/25	97	80 - 120	95	80 - 120	<0.10	ug/L	NC	20
8013305	Dissolved Barium (Ba)	2015/08/25	105	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
8013305	Dissolved Beryllium (Be)	2015/08/25	103	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
8013305	Dissolved Bismuth (Bi)	2015/08/25	108	80 - 120	110	80 - 120	<1.0	ug/L	NC	20
8013305	Dissolved Boron (B)	2015/08/25					<50	ug/L	NC	20

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Maxxam Job #: B571780
Report Date: 2015/08/26

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8013305	Dissolved Cadmium (Cd)	2015/08/25	107	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
8013305	Dissolved Chromium (Cr)	2015/08/25	100	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
8013305	Dissolved Cobalt (Co)	2015/08/25	96	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
8013305	Dissolved Copper (Cu)	2015/08/25	93	80 - 120	91	80 - 120	<0.20	ug/L	NC	20
8013305	Dissolved Iron (Fe)	2015/08/25	115	80 - 120	112	80 - 120	<5.0	ug/L	NC	20
8013305	Dissolved Lead (Pb)	2015/08/25	106	80 - 120	108	80 - 120	<0.20	ug/L	NC	20
8013305	Dissolved Lithium (Li)	2015/08/25	103	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
8013305	Dissolved Manganese (Mn)	2015/08/25	106	80 - 120	106	80 - 120	<1.0	ug/L	NC	20
8013305	Dissolved Molybdenum (Mo)	2015/08/25	107	80 - 120	115	80 - 120	<1.0	ug/L	NC	20
8013305	Dissolved Nickel (Ni)	2015/08/25	93	80 - 120	93	80 - 120	<1.0	ug/L	NC	20
8013305	Dissolved Phosphorus (P)	2015/08/25					<10	ug/L	NC	20
8013305	Dissolved Selenium (Se)	2015/08/25	99	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
8013305	Dissolved Silicon (Si)	2015/08/25					<100	ug/L	NC	20
8013305	Dissolved Silver (Ag)	2015/08/25	106	80 - 120	105	80 - 120	<0.020	ug/L	NC	20
8013305	Dissolved Strontium (Sr)	2015/08/25	110	80 - 120	109	80 - 120	<1.0	ug/L	NC	20
8013305	Dissolved Thallium (Tl)	2015/08/25	92	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
8013305	Dissolved Tin (Sn)	2015/08/25	108	80 - 120	107	80 - 120	<5.0	ug/L	NC	20
8013305	Dissolved Titanium (Ti)	2015/08/25	97	80 - 120	95	80 - 120	<5.0	ug/L	NC	20
8013305	Dissolved Uranium (U)	2015/08/25	106	80 - 120	108	80 - 120	<0.10	ug/L	NC	20
8013305	Dissolved Vanadium (V)	2015/08/25	98	80 - 120	98	80 - 120	<5.0	ug/L	NC	20
8013305	Dissolved Zinc (Zn)	2015/08/25	109	80 - 120	105	80 - 120	<5.0	ug/L	NC	20
8013305	Dissolved Zirconium (Zr)	2015/08/25					<0.50	ug/L	NC	20
8013560	Total Ammonia (N)	2015/08/24	NC	80 - 120	108	80 - 120	<0.0050	mg/L	0.42	20
8013562	Total Ammonia (N)	2015/08/24	94	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20

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Maxxam Job #: B571780
Report Date: 2015/08/26

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8014170	Dissolved Mercury (Hg)	2015/08/25	100	80 - 120	100	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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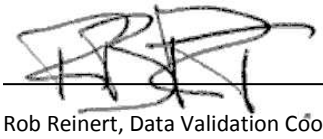
Maxxam Job #: B571780
Report Date: 2015/08/26

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV. MONITORING
Site Location: YUKON
Your P.O. #: 214158

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Rob Reinert, Data Validation Coordinator

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Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Maxxam Job #: B571780 COC #: 2015-08-19 A (Click here to get the COC number) Page: 1 of 1

Invoice To: Require Report? Yes ☑ No ☐

Company Name:	Minto Explorations Ltd
Contact Name:	Elvina Wong
Address:	Suite 900 - 999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	

Report To:

Company Name:	Minto Explorations Ltd
Contact Name:	Minto Environment
Address:	Suite 900-999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	minto_environment@mintomine.com

PO #:	214158
Quotation #:	
Project # :	
Proj. Name:	Minto Env. Monitoring
Location:	Yukon
Sampled by:	Chris Harry

REGULATORY REQUIREMENTS:

- ☐ CSR
- ☑ CCME
- ☐ BC Water Quality
- ☐ Other
- ☐ DRINKING WATER

SERVICE REQUESTED:

- ◉ Regular Turn Around Time (TAT) (5 days for most tests) ☐
- **RUSH** (Please contact the lab) ☑
- ○ 1 Day ○ 2 Day ○ 3 Day
- Date Required:

SPECIAL INSTRUCTIONS:

Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Use Only: Lab Identification	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM) Field Filtered? Y N	Total Metals Field Acidified? Y N	Nitrate ☑ Nitrite ☑ Ammonia ☑	Total Suspended Solids (TSS) ☐ TDS ☑	pH ☑ Conductivity ☑ Alkalinity ☑	Chloride ☑ Fluoride ☑ Sulphate ☑	Number of Containers
1	MW12-06-02	MX85760	Ground W	17/08/2015 15:00	x x		x	x	x	x	3
2	MW12-06-04	MX85761	Ground W	17/08/2015 15:30	x x		x	x	x	x	3
3	MW12-06-06	MX85762	Ground W	17/08/2015 16:00	x x		x	x	x	x	3
4	DUP	MX85763	Ground W	17/08/2015	x x		x	x	x	x	3
5	MW09-03-01	MX85764	Ground W	18/08/2015 13:45	x x		x	x	x	x	3
6	MW09-03-02	MX85765	Ground W	18/08/2015 14:30	x x		x	x	x	x	3
7	MW09-03-03	MX85766	Ground W	18/08/2015 16:00	x x		x	x	x	x	3
8	DUP	MX85767	Ground W	18/08/2015	x x		x	x	x	x	3
9											
10											
11											
12											

B571780

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Chris Harry	19-Aug-15	7:00

Print name and sign

Received by:	Date (yy/mm/dd):	Time (24 hr):
[illegible]	2015/08/20	10:20

Laboratory Use Only

Time Sensitive ☑

Temperature on Receipt (°C): A) 2 B) 2 C) 5

Just sampled & rec'd on ice: ☐

Custody Seal	Yes	No
Present?	☐	☑
Intact?	☐	☐ N/A

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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Your P.O. #: 214158
Your Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-09-21 A, 08412057

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/09/28
Report #: R2048928
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B582719
Received: 2015/09/22, 10:00

Sample Matrix: Water
Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	13	2015/09/23	2015/09/23	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	13	N/A	2015/09/23	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	13	N/A	2015/09/23	BBY6SOP-00026	SM 22 2510 B m
Fluoride	13	N/A	2015/09/24	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	13	N/A	2015/09/25	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	13	N/A	2015/09/28	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	13	N/A	2015/09/25	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	13	N/A	2015/09/24	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	13	N/A	2015/09/23	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	13	N/A	2015/09/23	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	13	N/A	2015/09/23	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	13	N/A	2015/09/24	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	13	N/A	2015/09/28	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	13	N/A	2015/09/23	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	11	N/A	2015/09/23	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate by Automated Colourimetry	2	N/A	2015/09/24	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	12	2015/09/24	2015/09/26	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	1	2015/09/25	2015/09/28	BBY6SOP-00033	SM 22 2540 C m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: 214158
Your Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your C.O.C. #: 2015-09-21 A, 08412057

Attention:MINTO DISTRIBUTION LIST

MINTO EXPLORATIONS LTD.
Yukon/Whitehorse
2 - 25 Pilgrim Way
Whitehorse, YT
CANADA Y1A 6E6

Report Date: 2015/09/28
Report #: R2048928
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B582719
Received: 2015/09/22, 10:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Morgan Melnychuk, Burnaby Project Manager
Email: MMelnychuk@maxxam.ca
Phone# (604)638-8034 Ext:8034
==========
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Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		NE5351		NE5352		NE5353		NE5354		
Sampling Date		2015/09/19 09:00		2015/09/19 09:30		2015/09/19 10:15		2015/09/19 10:45		
COC Number		2015-09-21 A		2015-09-21 A		2015-09-21 A		2015-09-21 A		
	UNITS	MW12-05-01	QC Batch	MW12-05-03	RDL	MW12-05-05	QC Batch	MW12-05-07	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	0.0277 (1)	8048278	0.0392 (1)	0.0050	0.0300 (1)	8048278	0.0107 (1)	0.0050	8048278
Calculated Parameters										
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	N/A	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	8046086	<0.020	0.020	0.495	8046086	<0.020	0.020	8046086
Misc. Inorganics										
Fluoride (F)	mg/L	1.30	8049953	1.30	0.010	0.570	8049953	0.560	0.010	8049953
Alkalinity (Total as CaCO3)	mg/L	156	8050104	246	0.50	204	8050104	231	0.50	8050104
Alkalinity (PP as CaCO3)	mg/L	<0.50	8050104	<0.50	0.50	<0.50	8050104	1.92	0.50	8050104
Bicarbonate (HCO3)	mg/L	190	8050104	300	0.50	249	8050104	277	0.50	8050104
Carbonate (CO3)	mg/L	<0.50	8050104	<0.50	0.50	<0.50	8050104	2.30	0.50	8050104
Hydroxide (OH)	mg/L	<0.50	8050104	<0.50	0.50	<0.50	8050104	<0.50	0.50	8050104
Anions										
Dissolved Sulphate (SO4)	mg/L	895	8048385	806	5.0	57.2	8048385	43.9	0.50	8048385
Dissolved Chloride (Cl)	mg/L	13	8048349	9.0	0.50	5.6	8048349	5.9	0.50	8048349
Nutrients										
Total Ammonia (N)	mg/L	0.088	8048229	0.033	0.0050	0.022	8048224	0.069	0.0050	8048229
Nitrate plus Nitrite (N)	mg/L	0.038 (1)	8048274	0.045 (1)	0.020	0.525 (1)	8048274	<0.020 (1)	0.020	8048274
Physical Properties										
Conductivity	uS/cm	1850	8050102	1820	1.0	501	8050102	512	1.0	8050102
pH	pH	8.14	8050099	8.18	N/A	8.24	8050099	8.32	N/A	8050099
Physical Properties										
Total Dissolved Solids	mg/L	1480	8049124	1420	10	302	8049124	292	10	8049124

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

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Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		NE5355		NE5356			NE5357		
Sampling Date		2015/09/19		2015/09/19 13:30			2015/09/19 13:55		
COC Number		2015-09-21 A		2015-09-21 A			2015-09-21 A		
	UNITS	DUP1	QC Batch	MW12-06-02	RDL	QC Batch	MW12-06-04	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	0.0394 (1)	8048278	0.0931 (1)	0.0050	8048278	0.243 (1)	0.0050	8048278
Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	N/A	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	8046086	0.025	0.020	8046086	0.074	0.020	8046086
Misc. Inorganics									
Fluoride (F)	mg/L	1.30	8049953	1.50	0.010	8049953	1.30	0.010	8049953
Alkalinity (Total as CaCO3)	mg/L	246	8050104	355	0.50	8050104	405	0.50	8050104
Alkalinity (PP as CaCO3)	mg/L	<0.50	8050104	<0.50	0.50	8050104	<0.50	0.50	8050104
Bicarbonate (HCO3)	mg/L	300	8050104	433	0.50	8050104	495	0.50	8050104
Carbonate (CO3)	mg/L	<0.50	8050104	<0.50	0.50	8050104	<0.50	0.50	8050104
Hydroxide (OH)	mg/L	<0.50	8050104	<0.50	0.50	8050104	<0.50	0.50	8050104
Anions									
Dissolved Sulphate (SO4)	mg/L	805	8048385	218	5.0	8050273	169	0.50	8048385
Dissolved Chloride (Cl)	mg/L	8.8	8048349	1.5	0.50	8048349	1.4	0.50	8048349
Nutrients									
Total Ammonia (N)	mg/L	0.051	8048229	0.075	0.0050	8048229	0.014	0.0050	8048224
Nitrate plus Nitrite (N)	mg/L	0.043 (1)	8048274	0.118 (1)	0.020	8048274	0.317 (1)	0.020	8048274
Physical Properties									
Conductivity	uS/cm	1820	8050102	994	1.0	8050102	991	1.0	8050102
pH	pH	8.15	8050099	8.19	N/A	8050099	8.21	N/A	8050099
Physical Properties									
Total Dissolved Solids	mg/L	1430	8049124	650	10	8049124	636	10	8049124

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		NE5358		NE5359		NE5372		NE5373		
Sampling Date		2015/09/19 14:30		2015/09/19		2015/09/19 16:30		2015/09/19 16:45		
COC Number		2015-09-21 A		2015-09-21 A		08412057		08412057		
	UNITS	MW12-06-06	QC Batch	DUP2	QC Batch	MW09-03-01	QC Batch	MW09-03-02	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	0.0542 (1)	8048278	0.216 (1)	8048278	0.246 (1)	8048278	0.215 (1)	0.0050	8048278
Calculated Parameters										
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	1.13	8046086	0.060	8046086	0.146	8046086	<0.020	0.020	8046086
Misc. Inorganics										
Fluoride (F)	mg/L	0.670	8049953	1.30	8049953	0.880	8049953	0.660	0.010	8049953
Alkalinity (Total as CaCO3)	mg/L	304	8050104	405	8050104	131	8050104	434	0.50	8050104
Alkalinity (PP as CaCO3)	mg/L	<0.50	8050104	<0.50	8050104	<0.50	8050104	<0.50	0.50	8050104
Bicarbonate (HCO3)	mg/L	371	8050104	494	8050104	160	8050104	529	0.50	8050104
Carbonate (CO3)	mg/L	<0.50	8050104	<0.50	8050104	<0.50	8050104	<0.50	0.50	8050104
Hydroxide (OH)	mg/L	<0.50	8050104	<0.50	8050104	<0.50	8050104	<0.50	0.50	8050104
Anions										
Dissolved Sulphate (SO4)	mg/L	143	8048385	182	8050273	21.7	8048385	<0.50	0.50	8048385
Dissolved Chloride (Cl)	mg/L	5.8	8048349	1.6	8048349	0.86	8048349	3.9	0.50	8048349
Nutrients										
Total Ammonia (N)	mg/L	0.013	8048229	0.018	8048224	0.024	8048224	0.18	0.0050	8048229
Nitrate plus Nitrite (N)	mg/L	1.18 (1)	8048274	0.276 (1)	8048274	0.392 (1)	8048274	0.231 (1)	0.020	8048274
Physical Properties										
Conductivity	uS/cm	835	8050102	994	8050102	296	8050102	785	1.0	8050102
pH	pH	8.25	8050099	8.20	8050099	8.21	8050099	8.20	N/A	8050099
Physical Properties										
Total Dissolved Solids	mg/L	494	8049124	626	8049124	166	8049124	496	10	8049124

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

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Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		NE5374		NE5375		
Sampling Date		2015/09/19 18:00		2015/09/19		
COC Number		08412057		08412057		
	UNITS	MW09-03-03	QC Batch	DUP3	RDL	QC Batch
ANIONS						
Nitrite (N)	mg/L	0.0073 (1)	8048278	0.199 (1)	0.0050	8048278
Calculated Parameters						
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.484	8046086	0.139	0.020	8046086
Misc. Inorganics						
Fluoride (F)	mg/L	0.480	8049953	0.870	0.010	8049953
Alkalinity (Total as CaCO3)	mg/L	81.6	8050113	132	0.50	8050104
Alkalinity (PP as CaCO3)	mg/L	<0.50	8050113	<0.50	0.50	8050104
Bicarbonate (HCO3)	mg/L	99.5	8050113	161	0.50	8050104
Carbonate (CO3)	mg/L	<0.50	8050113	<0.50	0.50	8050104
Hydroxide (OH)	mg/L	<0.50	8050113	<0.50	0.50	8050104
Anions						
Dissolved Sulphate (SO4)	mg/L	9.99	8048385	22.8	0.50	8048385
Dissolved Chloride (Cl)	mg/L	0.89	8048349	0.83	0.50	8048349
Nutrients						
Total Ammonia (N)	mg/L	0.075	8048224	0.032	0.0050	8048229
Nitrate plus Nitrite (N)	mg/L	0.491 (1)	8048274	0.338 (1)	0.020	8048274
Physical Properties						
Conductivity	uS/cm	183	8050112	300	1.0	8050102
pH	pH	7.97	8050110	8.21	N/A	8050099
Physical Properties						
Total Dissolved Solids	mg/L	118	8049124	168	10	8050519

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past hold time: sample was received on the hold time expiry date which did not allow sufficient time for preparation and analysis.

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Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		NE5351	NE5352	NE5353	NE5354	NE5355	NE5356		
Sampling Date		2015/09/19 09:00	2015/09/19 09:30	2015/09/19 10:15	2015/09/19 10:45	2015/09/19	2015/09/19 13:30		
COC Number		2015-09-21 A	2015-09-21 A	2015-09-21 A	2015-09-21 A	2015-09-21 A	2015-09-21 A		
	UNITS	MW12-05-01	MW12-05-03	MW12-05-05	MW12-05-07	DUP1	MW12-06-02	RDL	QC Batch
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	771	819	226	236	822	484	0.50	8045953
Elements									
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8053442
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	8.8	21.2	9.7	7.4	6.9	4.8	3.0	8047944
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8047944
Dissolved Arsenic (As)	ug/L	0.98	0.37	0.22	0.34	0.32	4.09	0.10	8047944
Dissolved Barium (Ba)	ug/L	51.8	47.7	66.4	786	49.4	44.1	1.0	8047944
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8047944
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8047944
Dissolved Boron (B)	ug/L	89	81	<50	<50	77	154	50	8047944
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	0.030	0.010	<0.010	0.015	0.010	8047944
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8047944
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8047944
Dissolved Copper (Cu)	ug/L	<0.20	2.35	0.99	<0.20	<0.20	<0.20	0.20	8047944
Dissolved Iron (Fe)	ug/L	24.5	1490	24.8	157	1430	1210	5.0	8047944
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8047944
Dissolved Lithium (Li)	ug/L	8.3	6.0	<5.0	<5.0	6.5	9.9	5.0	8047944
Dissolved Manganese (Mn)	ug/L	116	2630	166	731	2600	38.6	1.0	8047944
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	3.8	2.8	<1.0	7.0	1.0	8047944
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	1.0	8047944
Dissolved Phosphorus (P)	ug/L	<10	13	<10	49	13	<10	10	8047944
Dissolved Selenium (Se)	ug/L	0.23	<0.10	0.14	0.16	<0.10	<0.10	0.10	8047944
Dissolved Silicon (Si)	ug/L	7070	8080	6040	6440	8270	10500	100	8047944
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8047944
Dissolved Strontium (Sr)	ug/L	6970	8210	791	729	8010	10400	1.0	8047944
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8047944
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8047944
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8047944
Dissolved Uranium (U)	ug/L	0.93	1.14	2.36	1.76	1.18	2.53	0.10	8047944
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8047944
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	11.4	<5.0	<5.0	<5.0	5.0	8047944
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8047944
Dissolved Calcium (Ca)	mg/L	254	209	47.1	51.7	215	132	0.050	8045954

RDL = Reportable Detection Limit

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Maxxam Job #: B582719
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MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		NE5351	NE5352	NE5353	NE5354	NE5355	NE5356		
Sampling Date		2015/09/19 09:00	2015/09/19 09:30	2015/09/19 10:15	2015/09/19 10:45	2015/09/19	2015/09/19 13:30		
COC Number		2015-09-21 A	2015-09-21 A	2015-09-21 A	2015-09-21 A	2015-09-21 A	2015-09-21 A		
	UNITS	**MW12-05-01**	**MW12-05-03**	**MW12-05-05**	**MW12-05-07**	**DUP1**	**MW12-06-02**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	33.4	71.8	26.2	26.0	69.5	37.4	0.050	8045954
Dissolved Potassium (K)	mg/L	3.16	3.79	1.91	1.88	3.81	3.47	0.050	8045954
Dissolved Sodium (Na)	mg/L	135	106	16.3	15.7	104	41.0	0.050	8045954
Dissolved Sulphur (S)	mg/L	300	268	19.0	18.1	268	67.8	3.0	8045954
RDL = Reportable Detection Limit									

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Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		NE5357	NE5358	NE5359	NE5372	NE5373	NE5374		
Sampling Date		2015/09/19 13:55	2015/09/19 14:30	2015/09/19	2015/09/19 16:30	2015/09/19 16:45	2015/09/19 18:00		
COC Number		2015-09-21 A	2015-09-21 A	2015-09-21 A	08412057	08412057	08412057		
	UNITS	MW12-06-04	MW12-06-06	DUP2	MW09-03-01	MW09-03-02	MW09-03-03	RDL	QC Batch
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	468	376	473	137	382	85.3	0.50	8045953
Elements									
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8053442
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	12.0	14.2	8.9	5.9	6.8	<3.0	3.0	8047944
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8047944
Dissolved Arsenic (As)	ug/L	2.29	0.16	2.19	0.13	0.54	<0.10	0.10	8047944
Dissolved Barium (Ba)	ug/L	18.6	14.0	17.9	39.1	370	14.9	1.0	8047944
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8047944
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8047944
Dissolved Boron (B)	ug/L	131	77	134	135	662	<50	50	8047944
Dissolved Cadmium (Cd)	ug/L	0.017	0.026	0.032	0.021	0.010	<0.010	0.010	8047944
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8047944
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8047944
Dissolved Copper (Cu)	ug/L	<0.20	1.55	0.45	0.21	1.22	1.63	0.20	8047944
Dissolved Iron (Fe)	ug/L	719	33.4	738	<5.0	12800	43.0	5.0	8047944
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8047944
Dissolved Lithium (Li)	ug/L	6.7	<5.0	6.5	<5.0	<5.0	<5.0	5.0	8047944
Dissolved Manganese (Mn)	ug/L	46.8	22.6	47.6	58.3	12100	49.3	1.0	8047944
Dissolved Molybdenum (Mo)	ug/L	8.0	4.8	8.4	3.5	11.7	4.7	1.0	8047944
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8047944
Dissolved Phosphorus (P)	ug/L	12	<10	13	<10	<10	<10	10	8047944
Dissolved Selenium (Se)	ug/L	0.14	0.21	0.11	0.12	0.24	0.25	0.10	8047944
Dissolved Silicon (Si)	ug/L	8360	6870	8430	4620	8570	4530	100	8047944
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8047944
Dissolved Strontium (Sr)	ug/L	2890	1470	2890	663	1170	164	1.0	8047944
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8047944
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8047944
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8047944
Dissolved Uranium (U)	ug/L	5.57	3.86	5.53	1.51	0.23	0.88	0.10	8047944
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8047944
Dissolved Zinc (Zn)	ug/L	11.8	8.1	9.1	5.0	15.1	<5.0	5.0	8047944
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8047944
Dissolved Calcium (Ca)	mg/L	96.8	73.9	98.5	40.1	120	27.9	0.050	8045954

RDL = Reportable Detection Limit

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Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		NE5357	NE5358	NE5359	NE5372	NE5373	NE5374		
Sampling Date		2015/09/19 13:55	2015/09/19 14:30	2015/09/19	2015/09/19 16:30	2015/09/19 16:45	2015/09/19 18:00		
COC Number		2015-09-21 A	2015-09-21 A	2015-09-21 A	08412057	08412057	08412057		
	UNITS	**MW12-06-04**	**MW12-06-06**	**DUP2**	**MW09-03-01**	**MW09-03-02**	**MW09-03-03**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	54.8	46.4	55.2	9.04	19.9	3.81	0.050	8045954
Dissolved Potassium (K)	mg/L	3.34	2.96	3.36	2.34	3.25	1.54	0.050	8045954
Dissolved Sodium (Na)	mg/L	33.0	28.4	33.1	5.42	14.4	3.29	0.050	8045954
Dissolved Sulphur (S)	mg/L	51.2	43.5	57.7	5.3	<3.0	3.5	3.0	8045954
RDL = Reportable Detection Limit									

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Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		NE5375		
Sampling Date		2015/09/19		
COC Number		08412057		
	UNITS	DUP3	RDL	QC Batch
Misc. Inorganics				
Dissolved Hardness (CaCO3)	mg/L	137	0.50	8045953
Elements				
Dissolved Mercury (Hg)	ug/L	<0.010	0.010	8053442
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	6.7	3.0	8047944
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8047944
Dissolved Arsenic (As)	ug/L	0.14	0.10	8047944
Dissolved Barium (Ba)	ug/L	39.8	1.0	8047944
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	8047944
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	8047944
Dissolved Boron (B)	ug/L	132	50	8047944
Dissolved Cadmium (Cd)	ug/L	0.026	0.010	8047944
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	8047944
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	8047944
Dissolved Copper (Cu)	ug/L	0.25	0.20	8047944
Dissolved Iron (Fe)	ug/L	<5.0	5.0	8047944
Dissolved Lead (Pb)	ug/L	<0.20	0.20	8047944
Dissolved Lithium (Li)	ug/L	<5.0	5.0	8047944
Dissolved Manganese (Mn)	ug/L	55.7	1.0	8047944
Dissolved Molybdenum (Mo)	ug/L	3.7	1.0	8047944
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	8047944
Dissolved Phosphorus (P)	ug/L	<10	10	8047944
Dissolved Selenium (Se)	ug/L	<0.10	0.10	8047944
Dissolved Silicon (Si)	ug/L	4660	100	8047944
Dissolved Silver (Ag)	ug/L	<0.020	0.020	8047944
Dissolved Strontium (Sr)	ug/L	643	1.0	8047944
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8047944
Dissolved Tin (Sn)	ug/L	<5.0	5.0	8047944
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	8047944
Dissolved Uranium (U)	ug/L	1.47	0.10	8047944
Dissolved Vanadium (V)	ug/L	<5.0	5.0	8047944
Dissolved Zinc (Zn)	ug/L	5.0	5.0	8047944
Dissolved Zirconium (Zr)	ug/L	<0.50	0.50	8047944
Dissolved Calcium (Ca)	mg/L	40.0	0.050	8045954
RDL = Reportable Detection Limit				

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Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		NE5375		
Sampling Date		2015/09/19		
COC Number		08412057		
	UNITS	**DUP3**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	9.01	0.050	8045954
Dissolved Potassium (K)	mg/L	2.31	0.050	8045954
Dissolved Sodium (Na)	mg/L	5.28	0.050	8045954
Dissolved Sulphur (S)	mg/L	6.4	3.0	8045954
RDL = Reportable Detection Limit				

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Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

GENERAL COMMENTS

Effective October 1, 2013, the BC MOE SAMPLE PRESERVATION & HOLDING TIME REQUIREMENTS states that Mercury in water requires a glass or PTFE container with Hydrochloric Acid (HCl) preservation. Sample container and preservation received was not in compliance. Maxxam added HCl to stabilize Mercury in this sample prior to analysis.

Results relate only to the items tested.

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Maxxam Job #: B582719
Report Date: 2015/09/28

QUALITY ASSURANCE REPORT

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8047944	Dissolved Aluminum (Al)	2015/09/24	104	80 - 120	107	80 - 120	<3.0	ug/L	NC	20
8047944	Dissolved Antimony (Sb)	2015/09/24	99	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
8047944	Dissolved Arsenic (As)	2015/09/24	100	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
8047944	Dissolved Barium (Ba)	2015/09/24	NC	80 - 120	102	80 - 120	<1.0	ug/L	0.94	20
8047944	Dissolved Beryllium (Be)	2015/09/24	102	80 - 120	105	80 - 120	<0.10	ug/L	NC	20
8047944	Dissolved Bismuth (Bi)	2015/09/24	94	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
8047944	Dissolved Boron (B)	2015/09/24					<50	ug/L	NC	20
8047944	Dissolved Cadmium (Cd)	2015/09/24	100	80 - 120	98	80 - 120	<0.010	ug/L	NC	20
8047944	Dissolved Chromium (Cr)	2015/09/24	98	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
8047944	Dissolved Cobalt (Co)	2015/09/24	97	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
8047944	Dissolved Copper (Cu)	2015/09/24	97	80 - 120	104	80 - 120	<0.20	ug/L	3.7	20
8047944	Dissolved Iron (Fe)	2015/09/24	92	80 - 120	106	80 - 120	<5.0	ug/L	2.2	20
8047944	Dissolved Lead (Pb)	2015/09/24	94	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
8047944	Dissolved Lithium (Li)	2015/09/24	101	80 - 120	106	80 - 120	<5.0	ug/L	NC	20
8047944	Dissolved Manganese (Mn)	2015/09/24	NC	80 - 120	102	80 - 120	<1.0	ug/L	3.3	20
8047944	Dissolved Molybdenum (Mo)	2015/09/24	NC	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
8047944	Dissolved Nickel (Ni)	2015/09/24	99	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
8047944	Dissolved Phosphorus (P)	2015/09/24					<10	ug/L	NC	20
8047944	Dissolved Selenium (Se)	2015/09/24	100	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
8047944	Dissolved Silicon (Si)	2015/09/24					<100	ug/L	4.2	20
8047944	Dissolved Silver (Ag)	2015/09/24	99	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
8047944	Dissolved Strontium (Sr)	2015/09/24	NC	80 - 120	96	80 - 120	<1.0	ug/L	2.9	20
8047944	Dissolved Thallium (Tl)	2015/09/24	94	80 - 120	99	80 - 120	<0.050	ug/L	NC	20
8047944	Dissolved Tin (Sn)	2015/09/24	99	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
8047944	Dissolved Titanium (Ti)	2015/09/24	107	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
8047944	Dissolved Uranium (U)	2015/09/24	95	80 - 120	99	80 - 120	<0.10	ug/L	0.45	20
8047944	Dissolved Vanadium (V)	2015/09/24	97	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
8047944	Dissolved Zinc (Zn)	2015/09/24	95	80 - 120	104	80 - 120	<5.0	ug/L	NC	20
8047944	Dissolved Zirconium (Zr)	2015/09/24					<0.50	ug/L	NC	20

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Maxxam Job #: B582719
Report Date: 2015/09/28

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8048224	Total Ammonia (N)	2015/09/23	103	80 - 120	103	80 - 120	0.0064, RDL=0.0050	mg/L	NC	20
8048229	Total Ammonia (N)	2015/09/23	NC	80 - 120	99	80 - 120	0.0062, RDL=0.0050	mg/L	3.2	20
8048274	Nitrate plus Nitrite (N)	2015/09/23	NC	80 - 120	105	80 - 120	<0.020	mg/L	0.21	25
8048278	Nitrite (N)	2015/09/23	98	80 - 120	100	80 - 120	<0.0050	mg/L	1.7	20
8048349	Dissolved Chloride (Cl)	2015/09/23	105	80 - 120	100	80 - 120	<0.50	mg/L	0.15	20
8048385	Dissolved Sulphate (SO4)	2015/09/23	NC	80 - 120	100	80 - 120	0.74, RDL=0.50	mg/L	11	20
8049124	Total Dissolved Solids	2015/09/26	101	80 - 120	98	80 - 120	<10	mg/L	1.3	20
8049953	Fluoride (F)	2015/09/24	102	80 - 120	100	80 - 120	0.012, RDL=0.010	mg/L	0	20
8050099	pH	2015/09/23			101	97 - 103			0.84	N/A
8050102	Conductivity	2015/09/23			101	80 - 120	<1.0	uS/cm	3.5	20
8050104	Alkalinity (PP as CaCO3)	2015/09/23					<0.50	mg/L	NC	20
8050104	Alkalinity (Total as CaCO3)	2015/09/23	NC	80 - 120	95	80 - 120	<0.50	mg/L	0.93	20
8050104	Bicarbonate (HCO3)	2015/09/23					<0.50	mg/L	0.93	20
8050104	Carbonate (CO3)	2015/09/23					<0.50	mg/L	NC	20
8050104	Hydroxide (OH)	2015/09/23					<0.50	mg/L	NC	20
8050110	pH	2015/09/23			101	97 - 103			0.25	N/A
8050112	Conductivity	2015/09/23			100	80 - 120	<1.0	uS/cm	8.2	20
8050113	Alkalinity (PP as CaCO3)	2015/09/23					<0.50	mg/L	NC	20
8050113	Alkalinity (Total as CaCO3)	2015/09/23	NC	80 - 120	98	80 - 120	0.83, RDL=0.50	mg/L	0.089	20
8050113	Bicarbonate (HCO3)	2015/09/23					1.01, RDL=0.50	mg/L	0.089	20
8050113	Carbonate (CO3)	2015/09/23					<0.50	mg/L	NC	20
8050113	Hydroxide (OH)	2015/09/23					<0.50	mg/L	NC	20
8050273	Dissolved Sulphate (SO4)	2015/09/24	120	80 - 120	95	80 - 120	<0.50	mg/L	NC	20
8050519	Total Dissolved Solids	2015/09/28	NC	80 - 120	98	80 - 120	<10	mg/L		

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Maxxam Job #: B582719
Report Date: 2015/09/28

QUALITY ASSURANCE REPORT(CONT'D)

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8053442	Dissolved Mercury (Hg)	2015/09/28	100	80 - 120	99	80 - 120	<0.010	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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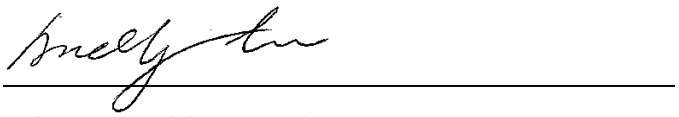
Maxxam Job #: B582719
Report Date: 2015/09/28

MINTO EXPLORATIONS LTD.
Client Project #: MINTO ENV.MONITORING
Site Location: YUKON
Your P.O. #: 214158
Sampler Initials: CH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Data Validation Coordinator

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Maxxam Job #: B582719 COC #: 2015-09-21 A (Click here to get the COC number) Page: 1 of 2

Invoice To: Require Report? Yes ☑ No ☐

Company Name:	Minto Explorations Ltd
Contact Name:	Elvina Wong
Address:	Suite 900 - 999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	

Report To:

Company Name:	Minto Explorations Ltd
Contact Name:	Minto Environment
Address:	Suite 900-999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	minto_environment@mintomine.com

PO #:	214158
Quotation #:	
Project # :	
Proj. Name:	Minto Env. Monitoring
Location:	Yukon
Sampled by:	Chris Harry

REGULATORY REQUIREMENTS:
- ☐ CSR
- ☑ CCME
- ☐ BC Water Quality
- ☐ Other
- ☐ DRINKING WATER

SERVICE REQUESTED:
- ◉ Regular Turn Around Time (TAT) (5 days for most tests)
- **RUSH** (Please contact the lab) ○ 1 Day ○ 2 Day ○ 3 Day
- Date Required:

SPECIAL INSTRUCTIONS:
Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Identification (Lab Use Only)	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM)	Field Filtered?	Total Metals	Field Acidified?	Nitrate	Nitrite	Ammonia	Total Suspended Solids (TSS)	TDS	pH	Conductivity	Alkalinity	Chloride	Fluoride	Sulphate	Number of Containers
					Y N	Y N		Y N												
1	MW12-07-01	NE5351	Ground W	18/09/2015 15:30	x	x			x		x	x		x	x	x	x			3
2	MW12-07-02	NE5352	Ground W	18/09/2015 16:00	x	x			x		x	x		x	x	x	x			3
3	DUP	NE	Ground W	18/09/2015	x	x			x		x	x		x	x	x	x			3
4	MW12-05-01	NE5351	Ground W	19/09/2015 9:00	x	x			x		x	x		x	x	x	x			3
5	MW12-05-03	NE5352	Ground W	19/09/2015 9:30	x	x			x		x	x		x	x	x	x			3
6	MW12-05-05	NE5353	Ground W	19/09/2015 10:15	x	x			x		x	x		x	x	x	x			3
7	MW12-05-07	NE5354	Ground W	19/09/2015 10:45	x	x			x		x	x		x	x	x	x			3
8	DUP1	NE5355	Ground W	19/09/2015	x	x			x		x	x		x	x	x	x			3
9	MW12-06-02	NE5356	Ground W	19/09/2015 13:30	x	x			x		x	x		x	x	x	x			3
10	MW12-06-04	NE5357	Ground W	19/09/2015 13:55	x	x			x		x	x		x	x	x	x			3
11	MW12-06-06	NE5358	Ground W	19/09/2015 14:30	x	x			x		x	x		x	x	x	x			3
12	DUP2	NE5359	Ground W	19/09/2015	x	x			x		x	x		x	x	x	x			3

B582719

Print name and sign	Date (yy/mm/dd):	Time (24hr):	Print name and sign	Date (yy/mm/dd):	Time (24 hr):	Time Sensitive	Laboratory Use Only			
*Relinquished By:			Received by:				Temperature on Receipt (°C)	Custody Seal	Yes	No
Chris Harry	21-Sep-15	8:00	[signature]	2015/09/22	10:00	☑	A) 1 B) 2 C) 4	Present?	☐	☑
							Just sampled & rec'd on ice: ☐	Intact?	☐	☐ NA

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

BBY FCD-00077R2_C

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CHAIN OF CUSTODY RECORD

Maxxam Job #: B582719 COC: 08412057 Click here to get the COC number Page: 2 of 2

Invoice To: Require Report? Yes ☑ No ☐

Company Name:	Minto Explorations Ltd
Contact Name:	Elvina Wong
Address:	Suite 900 - 999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	

Report To:

Company Name:	Minto Explorations Ltd
Contact Name:	Minto Environment
Address:	Suite 900-999 West Hastings St
	Vancouver, B.C. PC: V6C 2W2
Phone / Fax#:	Ph: 604-684-8894 Fax: 604-688-2120
E-mail	minto_environment@mintomine.com

PO #:	214158
Quotation #:	
Project # :	
Proj. Name:	Minto Env. Monitoring
Location:	Yukon
Sampled by:	Chris Harry

REGULATORY REQUIREMENTS:

- ☐ CSR
- ☑ CCME
- ☐ BC Water Quality
- ☐ Other
- ☐ DRINKING WATER

SERVICE REQUESTED:

- ◉ Regular Turn Around Time (TAT) (5 days for most tests) ☐
- **RUSH** (Please contact the lab) ☑
- ○ 1 Day ○ 2 Day ○ 3 Day
- Date Required:

SPECIAL INSTRUCTIONS:

Return Cooler ☐ Ship Sample Bottles (please specify) ☐

ANALYSIS REQUESTED

	Sample Identification	Lab Identification (Lab Use Only)	Sample Type	Date/Time(24hr) Sampled	Dissolved Metals (DM)	Field Filtered?	Total Metals	Field Acidified?	Nitrate	Nitrite	Total Suspended Solids (TSS)	pH	Conductivity	Alkalinity	Chloride	Fluoride	TDS	Sulphate	Number of Containers
						Y N		Y N		Ammonia									
1	MW09-03-01	NE 5372	Ground W	19/09/2015 16:30	x	x			x	x	x	x	x	x	x	x			3
2	MW09-03-02	NE 5373	Ground W	19/09/2015 16:45	x	x			x	x	x	x	x	x	x	x			3
3	MW09-03-03	NE 5374	Ground W	19/09/2015 18:00	x	x			x	x	x	x	x	x	x	x			3
4	DUP3	NE5375	Ground W	19/09/2015	x	x			x	x	x	x	x	x	x	x			3
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

B582719

Print name and sign

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):
Chris Harry	21-Sep-15	8:00

Print name and sign

Received by :	Date (yy/mm/dd):	Time (24 hr):
[signature]	2015/09/22	10:00

Time Sensitive ☑

Laboratory Use Only

Temperature on Receipt (°C): A) 1 B) 2 C) 4

Just sampled & rec'd on ice: ☐

Custody Seal	Yes	No
Present?	☐	☑
Intact?	☐	☐ N/A

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

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