



Your P.O. #: 700585603
Your Project #: R.116548.001
Site Location: Burin Site Dredging, NL
Your C.O.C. #: 47690

Attention: Matt Maloney

MDI Contracting
37 Deborah Lynn Heights
Paradise, NL
Canada A1L 3E6

Report Date: 2021/07/12
Report #: R6715196
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1H5911

Received: 2021/06/25, 09:16

Sample Matrix: Sediment
Samples Received: 30

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Benzo(b/j)fluoranthene Sum (leachates)	8	N/A	2021/07/12	N/A	Auto Calc.
Benzo(b/j)fluoranthene Sum (leachates)	4	N/A	2021/07/09	N/A	Auto Calc.
Metals Leach TCLP/CGSB extraction	18	2021/07/06	2021/07/07	ATL SOP 00058	EPA 6020B R2 m
Metals Leach TCLP/CGSB extraction	4	2021/07/07	2021/07/09	ATL SOP 00058	EPA 6020B R2 m
Metals Leach TCLP/CGSB extraction	7	2021/07/08	2021/07/09	ATL SOP 00058	EPA 6020B R2 m
Metals Leach TCLP/CGSB extraction	1	2021/07/09	2021/07/09	ATL SOP 00058	EPA 6020B R2 m
PAH in Leachate by GC/MS (SIM)	4	2021/07/08	2021/07/08	ATL SOP 00103	EPA 8270E R6 m
PAH in Leachate by GC/MS (SIM)	8	2021/07/09	2021/07/09	ATL SOP 00103	EPA 8270E R6 m
TCLP Inorganic extraction - pH	18	N/A	2021/07/06	ATL SOP 00035	EPA 1311 m
TCLP Inorganic extraction - pH	4	N/A	2021/07/07	ATL SOP 00035	EPA 1311 m
TCLP Inorganic extraction - pH	8	N/A	2021/07/08	ATL SOP 00035	EPA 1311 m
TCLP Inorganic extraction - Weight	18	N/A	2021/07/06	ATL SOP 00035	EPA 1311 m
TCLP Inorganic extraction - Weight	4	N/A	2021/07/07	ATL SOP 00035	EPA 1311 m
TCLP Inorganic extraction - Weight	8	N/A	2021/07/08	ATL SOP 00035	EPA 1311 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.



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This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Atena Georgescu, Project Manager II

Email: Atena.Georgescu@bureauveritas.com

Phone# (902)420-0203 Ext:239

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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BV Labs Job #: C1H5911

Report Date: 2021/07/12

MDI Contracting

Client Project #: R.116548.001

Site Location: Burin Site Dredging, NL

Your P.O. #: 700585603

RESULTS OF ANALYSES OF SEDIMENT

BV Labs ID		PYI094	PYI094	PYI104		PYI105	PYI106	PYI107	PYI108	
Sampling Date		2021/04/20 11:50	2021/04/20 11:50	2021/05/20 12:00		2021/05/20 12:10	2021/05/20 12:20	2021/05/20 12:30	2021/05/20 12:40	
COC Number		47690	47690	47690		47690	47690	47690	47690	
	UNITS	SED 10 T	SED 10 T Lab-Dup	SED 10 M	QC Batch	SED 10 B	SED 9 T	SED 9 M	SED 9 B	QC Batch

Inorganics										
Sample Weight (as received)	g	100	100	100	7448783	100	100	100	100	7446755
Initial pH	N/A	5.0	5.0	5.0	7448787	5.0	5.0	5.0	5.0	7446781
Final pH	N/A	5.3	5.3	5.5	7448787	5.5	5.8	5.9	5.9	7446781

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

BV Labs ID		PYI109	PYI109	PYI110	PYI111		PYI112		PYI113	
Sampling Date		2021/05/20 12:50	2021/05/20 12:50	2021/05/20 13:00	2021/05/20 13:10		2021/05/20 13:20		2021/05/20 15:30	
COC Number		47690	47690	47690	47690		47690		47690	
	UNITS	SED 8 T	SED 8 T Lab-Dup	SED 8 M	SED 8 B	QC Batch	SED 7 T	QC Batch	SED 7 M	QC Batch

Inorganics										
Sample Weight (as received)	g	100	100	100	100	7446755	100	7448783	100	7446755
Initial pH	N/A	5.0	5.0	5.0	5.0	7446781	5.0	7448787	5.0	7446781
Final pH	N/A	5.6	5.8	5.5	6.2	7446781	5.2	7448787	5.5	7446781

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

BV Labs ID		PYI114		PYI115		PYI116	PYI117	PYI118	PYI119	
Sampling Date		2021/05/20 13:40		2021/05/20 13:50		2021/05/20 14:00	2021/05/20 14:10	2021/05/20 16:00	2021/05/20 16:30	
COC Number		47690		47690		47690	47690	47690	47690	
	UNITS	SED 7 B	QC Batch	SED 6 T	QC Batch	SED 6 M	SED 6 B	SED 5 T	SED 5 M	QC Batch

Inorganics										
Sample Weight (as received)	g	100	7446755	100	7448783	100	100	100	100	7446755
Initial pH	N/A	4.9	7446781	5.0	7448787	5.0	5.0	5.0	5.0	7446781
Final pH	N/A	5.3	7446781	5.2	7448787	5.1	5.6	6.0	5.9	7446781

QC Batch = Quality Control Batch



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Client Project #: R.116548.001
Site Location: Burin Site Dredging, NL
Your P.O. #: 700585603

RESULTS OF ANALYSES OF SEDIMENT

BV Labs ID		PYI120	PYI120	PYI121	PYI122		PYI123	PYI124	
Sampling Date		2021/05/21 08:00	2021/05/21 08:00	2021/05/21 08:30	2021/05/21 09:00		2021/05/21 10:00	2021/05/21 10:30	
COC Number		47690	47690	47690	47690		47690	47690	
	UNITS	SED 4 T	SED 4 T Lab-Dup	SED 4 M	SED 4 B	QC Batch	SED 3 T	SED 3 M	QC Batch

Inorganics									
Sample Weight (as received)	g	100	100	100	100	7452065	100	100	7446755
Initial pH	N/A	5.0	5.0	5.0	5.0	7452066	5.0	5.0	7446781
Final pH	N/A	5.6	5.7	5.7	6.0	7452066	5.5	5.6	7446781
QC Batch = Quality Control Batch									
Lab-Dup = Laboratory Initiated Duplicate									

BV Labs ID		PYI125		PYI126		PYI127	PYI128	PYI129	PYI130	
Sampling Date		2021/05/21 11:00		2021/05/21 11:15		2021/05/21 11:25	2021/05/21 11:40	2021/05/21 11:55	2021/05/21 12:15	
COC Number		47690		47690		47690	47690	47690	47690	
	UNITS	SED 3 B	QC Batch	SED 2 T	QC Batch	SED 2 M	SED 2 B	SED 1 T	SED 1 M	QC Batch

Inorganics										
Sample Weight (as received)	g	100	7452065	100	7446755	100	100	100	100	7452065
Initial pH	N/A	5.0	7452066	5.0	7446781	5.0	5.0	5.0	5.0	7452066
Final pH	N/A	5.9	7452066	5.5	7446781	5.3	5.3	5.2	5.3	7452066
QC Batch = Quality Control Batch										

BV Labs ID		PYI131	PYJ025	
Sampling Date		2021/05/21 12:25	2021/05/20 16:30	
COC Number		47690	47690	
	UNITS	SED 1 B	SED 5 B	QC Batch

Inorganics				
Sample Weight (as received)	g	100	100	7446755
Initial pH	N/A	5.0	5.0	7446781
Final pH	N/A	5.4	6.1	7446781
QC Batch = Quality Control Batch				

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ELEMENTS BY ICP/MS (SEDIMENT)

BV Labs ID		PYI094	PYI094	PYI104		PYI105	PYI106	PYI107		
Sampling Date		2021/04/20 11:50	2021/04/20 11:50	2021/05/20 12:00		2021/05/20 12:10	2021/05/20 12:20	2021/05/20 12:30		
COC Number		47690	47690	47690		47690	47690	47690		
	UNITS	SED 10 T	SED 10 T Lab-Dup	SED 10 M	QC Batch	SED 10 B	SED 9 T	SED 9 M	RDL	QC Batch

Metals										
Leachable Aluminum (Al)	ug/L	ND	ND	ND	7448311	ND	ND	ND	100	7445916
Leachable Antimony (Sb)	ug/L	ND	ND	ND	7448311	ND	ND	ND	20	7445916
Leachable Arsenic (As)	ug/L	25	24	ND	7448311	ND	ND	ND	20	7445916
Leachable Barium (Ba)	ug/L	160	120	54	7448311	160	ND	79	50	7445916
Leachable Beryllium (Be)	ug/L	ND	ND	ND	7448311	ND	ND	ND	20	7445916
Leachable Boron (B)	ug/L	1700	1800	1500	7448311	1700	1200	1300	500	7445916
Leachable Cadmium (Cd)	ug/L	ND	ND	ND	7448311	ND	ND	ND	3.0	7445916
Leachable Calcium (Ca)	ug/L	290000	330000	400000	7448311	380000	460000	530000	1000	7445916
Leachable Chromium (Cr)	ug/L	ND	ND	ND	7448311	ND	ND	ND	20	7445916
Leachable Cobalt (Co)	ug/L	ND	ND	ND	7448311	ND	ND	ND	10	7445916
Leachable Copper (Cu)	ug/L	ND	ND	ND	7448311	ND	ND	ND	20	7445916
Leachable Iron (Fe)	ug/L	2000	2200	3500	7448311	4300	6300	1100	500	7445916
Leachable Lead (Pb)	ug/L	ND	ND	ND	7448311	ND	ND	ND	5.0	7445916
Leachable Lithium (Li)	ug/L	24	25	24	7448311	ND	ND	ND	20	7445916
Leachable Magnesium (Mg)	ug/L	80000	80000	85000	7448311	91000	89000	100000	1000	7445916
Leachable Manganese (Mn)	ug/L	55	54	85	7448311	78	48	38	20	7445916
Leachable Molybdenum (Mo)	ug/L	ND	ND	ND	7448311	ND	ND	26	20	7445916
Leachable Nickel (Ni)	ug/L	23	21	25	7448311	ND	ND	ND	20	7445916
Leachable Potassium (K)	ug/L	18000	17000	15000	7448311	18000	16000	16000	1000	7445916
Leachable Selenium (Se)	ug/L	ND	ND	ND	7448311	ND	ND	ND	10	7445916
Leachable Silver (Ag)	ug/L	ND	ND	ND	7448311	ND	ND	ND	5.0	7445916
Leachable Strontium (Sr)	ug/L	2700	3000	3600	7448311	3500	4100	5000	50	7445916
Leachable Thallium (Tl)	ug/L	ND	ND	ND	7448311	ND	ND	ND	1.0	7445916
Leachable Tin (Sn)	ug/L	ND	ND	ND	7448311	ND	ND	ND	20	7445916
Leachable Uranium (U)	ug/L	ND	ND	ND	7448311	ND	ND	ND	1.0	7445916
Leachable Vanadium (V)	ug/L	ND	ND	ND	7448311	ND	ND	ND	20	7445916
Leachable Zinc (Zn)	ug/L	57	51	71	7448311	60	ND	ND	50	7445916

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

ND = Not detected

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VERITAS

BV Labs Job #: C1H5911

Report Date: 2021/07/12

MDI Contracting

Client Project #: R.116548.001

Site Location: Burin Site Dredging, NL

Your P.O. #: 700585603

ELEMENTS BY ICP/MS (SEDIMENT)

BV Labs ID		PYI108	PYI109	PYI109	PYI110	PYI111		PYI112		
Sampling Date		2021/05/20 12:40	2021/05/20 12:50	2021/05/20 12:50	2021/05/20 13:00	2021/05/20 13:10		2021/05/20 13:20		
COC Number		47690	47690	47690	47690	47690		47690		
	UNITS	SED 9 B	SED 8 T	SED 8 T Lab-Dup	SED 8 M	SED 8 B	QC Batch	SED 7 T	RDL	QC Batch

Metals										
Leachable Aluminum (Al)	ug/L	ND	ND	ND	130	ND	7445916	320	100	7448311
Leachable Antimony (Sb)	ug/L	ND	ND	ND	ND	ND	7445916	ND	20	7448311
Leachable Arsenic (As)	ug/L	ND	23	ND	52	ND	7445916	23	20	7448311
Leachable Barium (Ba)	ug/L	ND	57	69	140	ND	7445916	130	50	7448311
Leachable Beryllium (Be)	ug/L	ND	ND	ND	ND	ND	7445916	ND	20	7448311
Leachable Boron (B)	ug/L	1300	1500	1900	2000	1600	7445916	2800	500	7448311
Leachable Cadmium (Cd)	ug/L	ND	ND	ND	ND	ND	7445916	ND	3.0	7448311
Leachable Calcium (Ca)	ug/L	490000	380000	450000	270000	610000	7445916	210000	1000	7448311
Leachable Chromium (Cr)	ug/L	ND	ND	ND	ND	ND	7445916	ND	20	7448311
Leachable Cobalt (Co)	ug/L	ND	ND	ND	ND	ND	7445916	ND	10	7448311
Leachable Copper (Cu)	ug/L	ND	ND	ND	ND	ND	7445916	ND	20	7448311
Leachable Iron (Fe)	ug/L	11000	11000	ND (1)	7500	5500	7445916	890	500	7448311
Leachable Lead (Pb)	ug/L	ND	ND	ND	ND	ND	7445916	ND	5.0	7448311
Leachable Lithium (Li)	ug/L	ND	ND	ND	ND	ND	7445916	22	20	7448311
Leachable Magnesium (Mg)	ug/L	92000	86000	110000	110000	96000	7445916	78000	1000	7448311
Leachable Manganese (Mn)	ug/L	66	380	480	210	230	7445916	130	20	7448311
Leachable Molybdenum (Mo)	ug/L	ND	ND	ND	ND	36	7445916	ND	20	7448311
Leachable Nickel (Ni)	ug/L	ND	ND	ND	ND	26	7445916	ND	20	7448311
Leachable Potassium (K)	ug/L	15000	15000	16000	20000	15000	7445916	19000	1000	7448311
Leachable Selenium (Se)	ug/L	ND	ND	ND	ND	ND	7445916	ND	10	7448311
Leachable Silver (Ag)	ug/L	ND	ND	ND	ND	ND	7445916	ND	5.0	7448311
Leachable Strontium (Sr)	ug/L	4500	2700	3000	2700	4000	7445916	1700	50	7448311
Leachable Thallium (Tl)	ug/L	ND	ND	ND	ND	ND	7445916	ND	1.0	7448311
Leachable Tin (Sn)	ug/L	ND	ND	ND	ND	ND	7445916	ND	20	7448311
Leachable Uranium (U)	ug/L	ND	ND	ND	ND	2.9	7445916	ND	1.0	7448311
Leachable Vanadium (V)	ug/L	ND	ND	ND	ND	ND	7445916	ND	20	7448311
Leachable Zinc (Zn)	ug/L	ND	120	ND	ND	ND	7445916	150	50	7448311

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

ND = Not detected

(1) Poor RPD due to sample inhomogeneity.



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BV Labs Job #: C1H5911
Report Date: 2021/07/12

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Client Project #: R.116548.001
Site Location: Burin Site Dredging, NL
Your P.O. #: 700585603

ELEMENTS BY ICP/MS (SEDIMENT)

BV Labs ID		PYI113	PYI114		PYI115		PYI116	PYI117		
Sampling Date		2021/05/20 15:30	2021/05/20 13:40		2021/05/20 13:50		2021/05/20 14:00	2021/05/20 14:10		
COC Number		47690	47690		47690		47690	47690		
	UNITS	SED 7 M	SED 7 B	QC Batch	SED 6 T	QC Batch	SED 6 M	SED 6 B	RDL	QC Batch

Metals										
Leachable Aluminum (Al)	ug/L	ND	250	7445916	300	7448311	440	120	100	7445916
Leachable Antimony (Sb)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	20	7445916
Leachable Arsenic (As)	ug/L	ND	ND	7445916	25	7448311	ND	ND	20	7445916
Leachable Barium (Ba)	ug/L	200	210	7445916	160	7448311	170	220	50	7445916
Leachable Beryllium (Be)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	20	7445916
Leachable Boron (B)	ug/L	1800	2500	7445916	2600	7448311	2600	1700	500	7445916
Leachable Cadmium (Cd)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	3.0	7445916
Leachable Calcium (Ca)	ug/L	360000	240000	7445916	210000	7448311	130000	300000	1000	7445916
Leachable Chromium (Cr)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	20	7445916
Leachable Cobalt (Co)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	10	7445916
Leachable Copper (Cu)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	20	7445916
Leachable Iron (Fe)	ug/L	9400	ND	7445916	1300	7448311	1200	21000	500	7445916
Leachable Lead (Pb)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	5.0	7445916
Leachable Lithium (Li)	ug/L	ND	ND	7445916	24	7448311	ND	ND	20	7445916
Leachable Magnesium (Mg)	ug/L	81000	76000	7445916	73000	7448311	71000	87000	1000	7445916
Leachable Manganese (Mn)	ug/L	100	58	7445916	100	7448311	83	260	20	7445916
Leachable Molybdenum (Mo)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	20	7445916
Leachable Nickel (Ni)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	20	7445916
Leachable Potassium (K)	ug/L	18000	18000	7445916	19000	7448311	19000	18000	1000	7445916
Leachable Selenium (Se)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	10	7445916
Leachable Silver (Ag)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	5.0	7445916
Leachable Strontium (Sr)	ug/L	2800	1800	7445916	1800	7448311	1200	2400	50	7445916
Leachable Thallium (Tl)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	1.0	7445916
Leachable Tin (Sn)	ug/L	ND	ND	7445916	ND	7448311	ND	ND	20	7445916
Leachable Uranium (U)	ug/L	ND	1.0	7445916	ND	7448311	ND	ND	1.0	7445916
Leachable Vanadium (V)	ug/L	ND	ND	7445916	20	7448311	24	ND	20	7445916
Leachable Zinc (Zn)	ug/L	200	84	7445916	120	7448311	67	55	50	7445916

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

ND = Not detected

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BV Labs Job #: C1H5911

Report Date: 2021/07/12

MDI Contracting

Client Project #: R.116548.001

Site Location: Burin Site Dredging, NL

Your P.O. #: 700585603

ELEMENTS BY ICP/MS (SEDIMENT)

BV Labs ID		PYI118	PYI119		PYI120	PYI120	PYI121	PYI122		
Sampling Date		2021/05/20 16:00	2021/05/20 16:30		2021/05/21 08:00	2021/05/21 08:00	2021/05/21 08:30	2021/05/21 09:00		
COC Number		47690	47690		47690	47690	47690	47690		
	UNITS	SED 5 T	SED 5 M	QC Batch	SED 4 T	SED 4 T Lab-Dup	SED 4 M	SED 4 B	RDL	QC Batch

Metals										
Leachable Aluminum (Al)	ug/L	ND	ND	7445916	130	100	150	ND	100	7450811
Leachable Antimony (Sb)	ug/L	ND	ND	7445916	ND	ND	ND	ND	20	7450811
Leachable Arsenic (As)	ug/L	ND	ND	7445916	ND	ND	20	ND	20	7450811
Leachable Barium (Ba)	ug/L	ND	67	7445916	150	110	170	110	50	7450811
Leachable Beryllium (Be)	ug/L	ND	ND	7445916	ND	ND	ND	ND	20	7450811
Leachable Boron (B)	ug/L	1500	1500	7445916	1500	1300	1500	1500	500	7450811
Leachable Cadmium (Cd)	ug/L	ND	ND	7445916	ND	ND	ND	ND	3.0	7450811
Leachable Calcium (Ca)	ug/L	530000	450000	7445916	340000	490000 (1)	510000	630000	1000	7450811
Leachable Chromium (Cr)	ug/L	ND	ND	7445916	ND	ND	ND	ND	20	7450811
Leachable Cobalt (Co)	ug/L	ND	ND	7445916	ND	ND	13	ND	10	7450811
Leachable Copper (Cu)	ug/L	ND	ND	7445916	ND	ND	ND	ND	20	7450811
Leachable Iron (Fe)	ug/L	ND	6700	7445916	40000	34000	47000	2400	500	7450811
Leachable Lead (Pb)	ug/L	ND	ND	7445916	ND	ND	ND	ND	5.0	7450811
Leachable Lithium (Li)	ug/L	ND	ND	7445916	33	35	48	25	20	7450811
Leachable Magnesium (Mg)	ug/L	96000	86000	7445916	72000	65000	76000	75000	1000	7450811
Leachable Manganese (Mn)	ug/L	150	390	7445916	620	880 (1)	1800	130	20	7450811
Leachable Molybdenum (Mo)	ug/L	ND	ND	7445916	26	30	32	46	20	7450811
Leachable Nickel (Ni)	ug/L	ND	ND	7445916	ND	23	23	33	20	7450811
Leachable Potassium (K)	ug/L	17000	16000	7445916	18000	16000	20000	19000	1000	7450811
Leachable Selenium (Se)	ug/L	ND	ND	7445916	ND	ND	ND	ND	10	7450811
Leachable Silver (Ag)	ug/L	ND	ND	7445916	ND	ND	ND	ND	5.0	7450811
Leachable Strontium (Sr)	ug/L	3900	3200	7445916	2100	2600	2400	3400	50	7450811
Leachable Thallium (Tl)	ug/L	ND	ND	7445916	ND	ND	ND	ND	1.0	7450811
Leachable Tin (Sn)	ug/L	ND	ND	7445916	ND	ND	ND	ND	20	7450811
Leachable Uranium (U)	ug/L	ND	ND	7445916	ND	1.9	2.6	3.6	1.0	7450811
Leachable Vanadium (V)	ug/L	ND	ND	7445916	ND	ND	ND	ND	20	7450811
Leachable Zinc (Zn)	ug/L	ND	ND	7445916	51	250 (1)	99	86	50	7450811

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

ND = Not detected

(1) Poor RPD due to sample inhomogeneity. Insufficient sample for repeat analysis.



BV Labs Job #: C1H5911
Report Date: 2021/07/12

MDI Contracting
Client Project #: R.116548.001
Site Location: Burin Site Dredging, NL
Your P.O. #: 700585603

ELEMENTS BY ICP/MS (SEDIMENT)

BV Labs ID		PYI123	PYI124		PYI125		PYI126		
Sampling Date		2021/05/21 10:00	2021/05/21 10:30		2021/05/21 11:00		2021/05/21 11:15		
COC Number		47690	47690		47690		47690		
	UNITS	SED 3 T	SED 3 M	QC Batch	SED 3 B	QC Batch	SED 2 T	RDL	QC Batch

Metals									
Leachable Aluminum (Al)	ug/L	ND	ND	7445916	ND	7450811	220	100	7445916
Leachable Antimony (Sb)	ug/L	ND	ND	7445916	ND	7450811	ND	20	7445916
Leachable Arsenic (As)	ug/L	ND	ND	7445916	ND	7450811	ND	20	7445916
Leachable Barium (Ba)	ug/L	160	140	7445916	120	7450811	120	50	7445916
Leachable Beryllium (Be)	ug/L	ND	ND	7445916	ND	7450811	ND	20	7445916
Leachable Boron (B)	ug/L	1700	1400	7445916	1700	7450811	1700	500	7445916
Leachable Cadmium (Cd)	ug/L	ND	ND	7445916	ND	7450811	ND	3.0	7445916
Leachable Calcium (Ca)	ug/L	330000	380000	7445916	540000	7450811	330000	1000	7445916
Leachable Chromium (Cr)	ug/L	ND	ND	7445916	ND	7450811	ND	20	7445916
Leachable Cobalt (Co)	ug/L	ND	ND	7445916	ND	7450811	ND	10	7445916
Leachable Copper (Cu)	ug/L	ND	ND	7445916	ND	7450811	ND	20	7445916
Leachable Iron (Fe)	ug/L	14000	13000	7445916	7800	7450811	15000	500	7445916
Leachable Lead (Pb)	ug/L	ND	ND	7445916	ND	7450811	ND	5.0	7445916
Leachable Lithium (Li)	ug/L	ND	ND	7445916	27	7450811	ND	20	7445916
Leachable Magnesium (Mg)	ug/L	83000	89000	7445916	84000	7450811	88000	1000	7445916
Leachable Manganese (Mn)	ug/L	150	120	7445916	210	7450811	840	20	7445916
Leachable Molybdenum (Mo)	ug/L	ND	ND	7445916	41	7450811	ND	20	7445916
Leachable Nickel (Ni)	ug/L	ND	ND	7445916	ND	7450811	37	20	7445916
Leachable Potassium (K)	ug/L	17000	18000	7445916	18000	7450811	15000	1000	7445916
Leachable Selenium (Se)	ug/L	ND	ND	7445916	ND	7450811	ND	10	7445916
Leachable Silver (Ag)	ug/L	ND	ND	7445916	ND	7450811	ND	5.0	7445916
Leachable Strontium (Sr)	ug/L	2700	3400	7445916	3500	7450811	2200	50	7445916
Leachable Thallium (Tl)	ug/L	ND	ND	7445916	ND	7450811	ND	1.0	7445916
Leachable Tin (Sn)	ug/L	ND	ND	7445916	ND	7450811	ND	20	7445916
Leachable Uranium (U)	ug/L	ND	ND	7445916	2.7	7450811	ND	1.0	7445916
Leachable Vanadium (V)	ug/L	ND	ND	7445916	ND	7450811	ND	20	7445916
Leachable Zinc (Zn)	ug/L	50	ND	7445916	58	7450811	130	50	7445916

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not detected



BUREAU
VERITAS

BV Labs Job #: C1H5911
Report Date: 2021/07/12

MDI Contracting
Client Project #: R.116548.001
Site Location: Burin Site Dredging, NL
Your P.O. #: 700585603

ELEMENTS BY ICP/MS (SEDIMENT)

BV Labs ID		PYI127	PYI128	PYI129	PYI130		PYI131	PYJ025		
Sampling Date		2021/05/21 11:25	2021/05/21 11:40	2021/05/21 11:55	2021/05/21 12:15		2021/05/21 12:25	2021/05/20 16:30		
COC Number		47690	47690	47690	47690		47690	47690		
	UNITS	SED 2 M	SED 2 B	SED 1 T	SED 1 M	QC Batch	SED 1 B	SED 5 B	RDL	QC Batch
Metals										
Leachable Aluminum (Al)	ug/L	180	180	210	330	7450811	200	ND	100	7445916
Leachable Antimony (Sb)	ug/L	ND	ND	ND	ND	7450811	ND	ND	20	7445916
Leachable Arsenic (As)	ug/L	ND	ND	ND	ND	7450811	ND	ND	20	7445916
Leachable Barium (Ba)	ug/L	140	140	170	140	7450811	180	ND	50	7445916
Leachable Beryllium (Be)	ug/L	ND	ND	ND	ND	7450811	ND	ND	20	7445916
Leachable Boron (B)	ug/L	1600	1600	1900	2400	7450811	1700	620	500	7445916
Leachable Cadmium (Cd)	ug/L	ND	ND	ND	ND	7450811	ND	ND	3.0	7445916
Leachable Calcium (Ca)	ug/L	270000	280000	220000	260000	7450811	240000	640000	1000	7445916
Leachable Chromium (Cr)	ug/L	ND	ND	ND	ND	7450811	ND	ND	20	7445916
Leachable Cobalt (Co)	ug/L	ND	ND	ND	ND	7450811	ND	ND	10	7445916
Leachable Copper (Cu)	ug/L	ND	ND	ND	ND	7450811	ND	ND	20	7445916
Leachable Iron (Fe)	ug/L	21000	17000	19000	20000	7450811	48000	ND	500	7445916
Leachable Lead (Pb)	ug/L	ND	ND	ND	ND	7450811	ND	ND	5.0	7445916
Leachable Lithium (Li)	ug/L	27	26	32	31	7450811	ND	ND	20	7445916
Leachable Magnesium (Mg)	ug/L	69000	73000	74000	100000	7450811	79000	43000	1000	7445916
Leachable Manganese (Mn)	ug/L	660	510	370	620	7450811	480	210	20	7445916
Leachable Molybdenum (Mo)	ug/L	ND	ND	ND	ND	7450811	ND	33	20	7445916
Leachable Nickel (Ni)	ug/L	ND	65	ND	ND	7450811	ND	ND	20	7445916
Leachable Potassium (K)	ug/L	18000	18000	19000	19000	7450811	19000	8000	1000	7445916
Leachable Selenium (Se)	ug/L	ND	ND	ND	ND	7450811	ND	ND	10	7445916
Leachable Silver (Ag)	ug/L	ND	ND	ND	ND	7450811	ND	ND	5.0	7445916
Leachable Strontium (Sr)	ug/L	2000	2200	1600	1900	7450811	1700	3700	50	7445916
Leachable Thallium (Tl)	ug/L	ND	ND	ND	ND	7450811	ND	ND	1.0	7445916
Leachable Tin (Sn)	ug/L	ND	ND	ND	ND	7450811	ND	ND	20	7445916
Leachable Uranium (U)	ug/L	ND	ND	ND	ND	7450811	ND	1.4	1.0	7445916
Leachable Vanadium (V)	ug/L	ND	ND	ND	ND	7450811	ND	ND	20	7445916
Leachable Zinc (Zn)	ug/L	ND	100	ND	ND	7450811	ND	61	50	7445916
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
ND = Not detected										

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VERITAS

BV Labs Job #: C1H5911

Report Date: 2021/07/12

MDI Contracting

Client Project #: R.116548.001

Site Location: Burin Site Dredging, NL

Your P.O. #: 700585603

SEMI-VOLATILE ORGANICS BY GC-MS (SEDIMENT)

BV Labs ID		PYI094			PYI094			PYI104	PYI112		
Sampling Date		2021/04/20 11:50			2021/04/20 11:50			2021/05/20 12:00	2021/05/20 13:20		
COC Number		47690			47690			47690	47690		
	UNITS	SED 10 T	RDL	QC Batch	SED 10 T Lab-Dup	RDL	QC Batch	SED 10 M	SED 7 T	RDL	QC Batch

Polyaromatic Hydrocarbons

Leachable 1-Methylnaphthalene	ug/L	ND	0.50	7450561	ND	0.50	7450561	ND	ND	0.50	7450561
Leachable 2-Methylnaphthalene	ug/L	ND	0.50	7450561	ND	0.50	7450561	ND	ND	0.50	7450561
Leachable Acenaphthene	ug/L	0.24	0.10	7450561	0.24	0.10	7450561	0.11	ND	0.10	7450561
Leachable Acenaphthylene	ug/L	ND	0.10	7450561	ND	0.10	7450561	ND	ND	0.10	7450561
Leachable Anthracene	ug/L	0.28	0.10	7450561	0.27	0.10	7450561	0.23	ND	0.10	7450561
Leachable Benzo(a)anthracene	ug/L	0.15	0.10	7450561	0.12	0.10	7450561	ND	ND	0.10	7450561
Leachable Benzo(a)pyrene	ug/L	ND	0.10	7450561	ND	0.10	7450561	ND	ND	0.10	7450561
Leachable Benzo(b)fluoranthene	ug/L	ND	0.10	7450561	ND	0.10	7450561	ND	ND	0.10	7450561
Leachable Benzo(b,j)fluoranthene	ug/L	ND	0.20	7432368				ND	ND	0.20	7432368
Leachable Benzo(g,h,i)perylene	ug/L	ND	0.10	7450561	ND	0.10	7450561	ND	ND	0.10	7450561
Leachable Benzo(j)fluoranthene	ug/L	ND	0.10	7450561	ND	0.10	7450561	ND	ND	0.10	7450561
Leachable Benzo(k)fluoranthene	ug/L	ND	0.10	7450561	ND	0.10	7450561	ND	ND	0.10	7450561
Leachable Chrysene	ug/L	0.13	0.10	7450561	ND	0.10	7450561	ND	ND	0.10	7450561
Leachable Dibenzo(a,h)anthracene	ug/L	ND	0.10	7450561	ND	0.10	7450561	ND	ND	0.10	7450561
Leachable Fluoranthene	ug/L	6.4	0.10	7450561	6.4	0.10	7450561	5.2	1.5	0.10	7450561
Leachable Fluorene	ug/L	0.55	0.10	7450561	0.56	0.10	7450561	0.45	ND	0.10	7450561
Leachable Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	7450561	ND	0.10	7450561	ND	ND	0.10	7450561
Leachable Naphthalene	ug/L	2.0	2.0	7450561	2.0	2.0	7450561	ND	ND	2.0	7450561
Leachable Perylene	ug/L	ND	0.10	7450561	ND	0.10	7450561	ND	ND	0.10	7450561
Leachable Phenanthrene	ug/L	0.21	0.10	7450561	0.21	0.10	7450561	0.24	ND	0.10	7450561
Leachable Pyrene	ug/L	2.9	0.10	7450561	2.9	0.10	7450561	2.2	0.60	0.10	7450561

Surrogate Recovery (%)

Leachable D10-Anthracene	%	91		7450561	87		7450561	79	80		7450561
Leachable D14-Terphenyl	%	95		7450561	92		7450561	72	77		7450561
Leachable D8-Acenaphthylene	%	90		7450561	89		7450561	90	81		7450561

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

ND = Not detected



BV Labs Job #: C1H5911
Report Date: 2021/07/12

MDI Contracting
Client Project #: R.116548.001
Site Location: Burin Site Dredging, NL
Your P.O. #: 700585603

SEMI-VOLATILE ORGANICS BY GC-MS (SEDIMENT)

BV Labs ID		PY115		PY120			PY120		
Sampling Date		2021/05/20 13:50		2021/05/21 08:00			2021/05/21 08:00		
COC Number		47690		47690			47690		
	UNITS	SED 6 T	QC Batch	SED 4 T	RDL	QC Batch	SED 4 T Lab-Dup	RDL	QC Batch
Polyaromatic Hydrocarbons									
Leachable 1-Methylnaphthalene	ug/L	ND	7450561	ND	0.50	7453230	ND	0.50	7453230
Leachable 2-Methylnaphthalene	ug/L	ND	7450561	ND	0.50	7453230	ND	0.50	7453230
Leachable Acenaphthene	ug/L	ND	7450561	0.32	0.10	7453230	0.82 (1)	0.10	7453230
Leachable Acenaphthylene	ug/L	ND	7450561	ND	0.10	7453230	ND	0.10	7453230
Leachable Anthracene	ug/L	ND	7450561	0.46	0.10	7453230	0.42	0.10	7453230
Leachable Benzo(a)anthracene	ug/L	ND	7450561	0.25	0.10	7453230	0.18	0.10	7453230
Leachable Benzo(a)pyrene	ug/L	ND	7450561	ND	0.10	7453230	ND	0.10	7453230
Leachable Benzo(b)fluoranthene	ug/L	ND	7450561	ND	0.10	7453230	ND	0.10	7453230
Leachable Benzo(b,j)fluoranthene	ug/L	ND	7432368	ND	0.20	7432368			
Leachable Benzo(g,h,i)perylene	ug/L	ND	7450561	ND	0.10	7453230	ND	0.10	7453230
Leachable Benzo(j)fluoranthene	ug/L	ND	7450561	ND	0.10	7453230	ND	0.10	7453230
Leachable Benzo(k)fluoranthene	ug/L	ND	7450561	ND	0.10	7453230	ND	0.10	7453230
Leachable Chrysene	ug/L	ND	7450561	0.21	0.10	7453230	0.16	0.10	7453230
Leachable Dibenzo(a,h)anthracene	ug/L	ND	7450561	ND	0.10	7453230	ND	0.10	7453230
Leachable Fluoranthene	ug/L	1.7	7450561	11	0.10	7453230	10	0.10	7453230
Leachable Fluorene	ug/L	0.10	7450561	1.0	0.10	7453230	0.97	0.10	7453230
Leachable Indeno(1,2,3-cd)pyrene	ug/L	ND	7450561	ND	0.10	7453230	ND	0.10	7453230
Leachable Naphthalene	ug/L	ND	7450561	2.2	2.0	7453230	2.0	2.0	7453230
Leachable Perylene	ug/L	ND	7450561	ND	0.10	7453230	ND	0.10	7453230
Leachable Phenanthrene	ug/L	ND	7450561	0.27	0.10	7453230	0.25	0.10	7453230
Leachable Pyrene	ug/L	0.85	7450561	5.5	0.10	7453230	4.7	0.10	7453230
Surrogate Recovery (%)									
Leachable D10-Anthracene	%	82	7450561	75		7453230	70		7453230
Leachable D14-Terphenyl	%	81	7450561	83		7453230	70		7453230
Leachable D8-Acenaphthylene	%	85	7450561	85		7453230	80		7453230
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate ND = Not detected (1) Duplicate: results are outside acceptance limit due to possible sample in-homogeneity. Insufficient sample for repeat analysis									

BUREAU
VERITAS

BV Labs Job #: C1H5911

Report Date: 2021/07/12

MDI Contracting

Client Project #: R.116548.001

Site Location: Burin Site Dredging, NL

Your P.O. #: 700585603

SEMI-VOLATILE ORGANICS BY GC-MS (SEDIMENT)

BV Labs ID		PYI121	PYI122	PYI125	PYI127		PYI128		PYI129		
Sampling Date		2021/05/21 08:30	2021/05/21 09:00	2021/05/21 11:00	2021/05/21 11:25		2021/05/21 11:40		2021/05/21 11:55		
COC Number		47690	47690	47690	47690		47690		47690		
	UNITS	SED 4 M	SED 4 B	SED 3 B	SED 2 M	RDL	SED 2 B	RDL	SED 1 T	RDL	QC Batch

Polyaromatic Hydrocarbons

Leachable 1-Methylnaphthalene	ug/L	ND	ND	ND	ND	0.50	ND	0.50	ND	0.50	7453230
Leachable 2-Methylnaphthalene	ug/L	ND	ND	ND	ND	0.50	ND	0.50	ND	0.50	7453230
Leachable Acenaphthene	ug/L	0.15	4.2	2.0	0.47	0.10	ND	0.10	ND	0.10	7453230
Leachable Acenaphthylene	ug/L	ND	ND	ND	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Anthracene	ug/L	0.39	0.33	0.30	0.25	0.10	ND (1)	0.16	ND (1)	0.18	7453230
Leachable Benzo(a)anthracene	ug/L	0.11	ND	ND	ND	0.10	0.12	0.10	ND	0.10	7453230
Leachable Benzo(a)pyrene	ug/L	ND	ND	ND	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Benzo(b)fluoranthene	ug/L	ND	ND	ND	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Benzo(b/j)fluoranthene	ug/L	ND	ND	ND	ND	0.20	ND	0.20	ND	0.20	7432368
Leachable Benzo(g,h,i)perylene	ug/L	ND	ND	ND	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Benzo(j)fluoranthene	ug/L	ND	ND	ND	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Chrysene	ug/L	ND	ND	ND	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Dibenzo(a,h)anthracene	ug/L	ND	ND	ND	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Fluoranthene	ug/L	6.4	4.0	3.7	3.9	0.10	6.0	0.10	5.0	0.10	7453230
Leachable Fluorene	ug/L	0.59	2.4	1.6	0.33	0.10	0.16	0.10	ND (1)	0.13	7453230
Leachable Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Naphthalene	ug/L	ND	ND	ND	ND	2.0	ND	2.0	ND	2.0	7453230
Leachable Perylene	ug/L	ND	ND	ND	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Phenanthrene	ug/L	0.14	0.12	0.11	ND	0.10	ND	0.10	ND	0.10	7453230
Leachable Pyrene	ug/L	2.9	1.6	1.4	1.5	0.10	2.7	0.10	2.3	0.10	7453230

Surrogate Recovery (%)

Leachable D10-Anthracene	%	71	80	76	67		68		57		7453230
Leachable D14-Terphenyl	%	76	77	70	78		98		74		7453230
Leachable D8-Acenaphthylene	%	82	86	89	82		84		83		7453230

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

ND = Not detected

(1) Elevated PAH RDL(s) due to matrix / co-extractive interference.



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VERITAS

BV Labs Job #: C1H5911
Report Date: 2021/07/12

MDI Contracting
Client Project #: R.116548.001
Site Location: Burin Site Dredging, NL
Your P.O. #: 700585603

SEMI-VOLATILE ORGANICS BY GC-MS (SEDIMENT)

BV Labs ID		PYI130		
Sampling Date		2021/05/21 12:15		
COC Number		47690		
	UNITS	SED 1 M	RDL	QC Batch
Polyaromatic Hydrocarbons				
Leachable 1-Methylnaphthalene	ug/L	ND	0.50	7453230
Leachable 2-Methylnaphthalene	ug/L	ND	0.50	7453230
Leachable Acenaphthene	ug/L	ND	0.10	7453230
Leachable Acenaphthylene	ug/L	ND	0.10	7453230
Leachable Anthracene	ug/L	ND (1)	0.23	7453230
Leachable Benzo(a)anthracene	ug/L	ND	0.10	7453230
Leachable Benzo(a)pyrene	ug/L	ND	0.10	7453230
Leachable Benzo(b)fluoranthene	ug/L	ND	0.10	7453230
Leachable Benzo(b/j)fluoranthene	ug/L	ND	0.20	7432368
Leachable Benzo(g,h,i)perylene	ug/L	ND	0.10	7453230
Leachable Benzo(j)fluoranthene	ug/L	ND	0.10	7453230
Leachable Benzo(k)fluoranthene	ug/L	ND	0.10	7453230
Leachable Chrysene	ug/L	ND	0.10	7453230
Leachable Dibenzo(a,h)anthracene	ug/L	ND	0.10	7453230
Leachable Fluoranthene	ug/L	4.7	0.10	7453230
Leachable Fluorene	ug/L	ND (1)	0.12	7453230
Leachable Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	7453230
Leachable Naphthalene	ug/L	ND	2.0	7453230
Leachable Perylene	ug/L	ND	0.10	7453230
Leachable Phenanthrene	ug/L	ND	0.10	7453230
Leachable Pyrene	ug/L	2.2	0.10	7453230
Surrogate Recovery (%)				
Leachable D10-Anthracene	%	66		7453230
Leachable D14-Terphenyl	%	75		7453230
Leachable D8-Acenaphthylene	%	85		7453230
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected (1) Elevated PAH RDL(s) due to matrix / co-extractive interference.				



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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.2°C
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Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7445916	BAN	Matrix Spike [PYI109-01]	Leachable Antimony (Sb)	2021/07/07		105	%	75 - 125
			Leachable Arsenic (As)	2021/07/07		96	%	75 - 125
			Leachable Barium (Ba)	2021/07/07		92	%	75 - 125
			Leachable Beryllium (Be)	2021/07/07		94	%	75 - 125
			Leachable Boron (B)	2021/07/07		98	%	75 - 125
			Leachable Cadmium (Cd)	2021/07/07		96	%	75 - 125
			Leachable Chromium (Cr)	2021/07/07		92	%	75 - 125
			Leachable Cobalt (Co)	2021/07/07		93	%	75 - 125
			Leachable Copper (Cu)	2021/07/07		95	%	75 - 125
			Leachable Lead (Pb)	2021/07/07		94	%	75 - 125
			Leachable Lithium (Li)	2021/07/07		100	%	75 - 125
			Leachable Manganese (Mn)	2021/07/07		95	%	75 - 125
			Leachable Molybdenum (Mo)	2021/07/07		101	%	75 - 125
			Leachable Nickel (Ni)	2021/07/07		92	%	75 - 125
			Leachable Selenium (Se)	2021/07/07		97	%	75 - 125
			Leachable Silver (Ag)	2021/07/07		93	%	75 - 125
			Leachable Strontium (Sr)	2021/07/07		NC	%	75 - 125
			Leachable Thallium (Tl)	2021/07/07		94	%	75 - 125
			Leachable Tin (Sn)	2021/07/07		98	%	75 - 125
			Leachable Uranium (U)	2021/07/07		99	%	75 - 125
7445916	BAN	Spiked Blank	Leachable Vanadium (V)	2021/07/07		95	%	75 - 125
			Leachable Zinc (Zn)	2021/07/07		97	%	75 - 125
			Leachable Antimony (Sb)	2021/07/07		104	%	75 - 125
			Leachable Arsenic (As)	2021/07/07		96	%	75 - 125
			Leachable Barium (Ba)	2021/07/07		96	%	75 - 125
			Leachable Beryllium (Be)	2021/07/07		93	%	75 - 125
			Leachable Boron (B)	2021/07/07		93	%	75 - 125
			Leachable Cadmium (Cd)	2021/07/07		97	%	75 - 125
			Leachable Chromium (Cr)	2021/07/07		94	%	75 - 125
			Leachable Cobalt (Co)	2021/07/07		94	%	75 - 125
			Leachable Copper (Cu)	2021/07/07		96	%	75 - 125
			Leachable Lead (Pb)	2021/07/07		96	%	75 - 125
			Leachable Lithium (Li)	2021/07/07		98	%	75 - 125
			Leachable Manganese (Mn)	2021/07/07		97	%	75 - 125
			Leachable Molybdenum (Mo)	2021/07/07		101	%	75 - 125
			Leachable Nickel (Ni)	2021/07/07		95	%	75 - 125
			Leachable Selenium (Se)	2021/07/07		97	%	75 - 125
			Leachable Silver (Ag)	2021/07/07		94	%	75 - 125
			Leachable Strontium (Sr)	2021/07/07		97	%	75 - 125
			Leachable Thallium (Tl)	2021/07/07		95	%	75 - 125
7445916	BAN	Method Blank	Leachable Tin (Sn)	2021/07/07		98	%	75 - 125
			Leachable Uranium (U)	2021/07/07		104	%	75 - 125
			Leachable Vanadium (V)	2021/07/07		95	%	75 - 125
			Leachable Zinc (Zn)	2021/07/07		96	%	75 - 125
7445916	BAN	Method Blank	Leachable Aluminum (Al)	2021/07/07	ND, RDL=100		ug/L	
			Leachable Antimony (Sb)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Arsenic (As)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Barium (Ba)	2021/07/07	ND, RDL=50		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Leachable Beryllium (Be)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Boron (B)	2021/07/07	ND, RDL=500		ug/L	
			Leachable Cadmium (Cd)	2021/07/07	ND, RDL=3.0		ug/L	
			Leachable Calcium (Ca)	2021/07/07	ND, RDL=1000		ug/L	
			Leachable Chromium (Cr)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Cobalt (Co)	2021/07/07	ND, RDL=10		ug/L	
			Leachable Copper (Cu)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Iron (Fe)	2021/07/07	ND, RDL=500		ug/L	
			Leachable Lead (Pb)	2021/07/07	ND, RDL=5.0		ug/L	
			Leachable Lithium (Li)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Magnesium (Mg)	2021/07/07	ND, RDL=1000		ug/L	
			Leachable Manganese (Mn)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Molybdenum (Mo)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Nickel (Ni)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Potassium (K)	2021/07/07	1100, RDL=1000 (1)		ug/L	
			Leachable Selenium (Se)	2021/07/07	ND, RDL=10		ug/L	
			Leachable Silver (Ag)	2021/07/07	ND, RDL=5.0		ug/L	
			Leachable Strontium (Sr)	2021/07/07	ND, RDL=50		ug/L	
			Leachable Thallium (Tl)	2021/07/07	ND, RDL=1.0		ug/L	
			Leachable Tin (Sn)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Uranium (U)	2021/07/07	ND, RDL=1.0		ug/L	
			Leachable Vanadium (V)	2021/07/07	ND, RDL=20		ug/L	
			Leachable Zinc (Zn)	2021/07/07	ND, RDL=50		ug/L	
7445916	BAN	RPD [PYI109-01]	Leachable Aluminum (Al)	2021/07/07	NC		%	35
			Leachable Antimony (Sb)	2021/07/07	NC		%	35
			Leachable Arsenic (As)	2021/07/07	15		%	35
			Leachable Barium (Ba)	2021/07/07	19		%	35
			Leachable Beryllium (Be)	2021/07/07	NC		%	35
			Leachable Boron (B)	2021/07/07	25		%	35
			Leachable Cadmium (Cd)	2021/07/07	NC		%	35
			Leachable Calcium (Ca)	2021/07/07	16		%	35



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Leachable Chromium (Cr)	2021/07/07	NC		%	35
			Leachable Cobalt (Co)	2021/07/07	NC		%	35
			Leachable Copper (Cu)	2021/07/07	NC		%	35
			Leachable Iron (Fe)	2021/07/07	183 (2)		%	35
			Leachable Lead (Pb)	2021/07/07	NC		%	35
			Leachable Lithium (Li)	2021/07/07	NC		%	35
			Leachable Magnesium (Mg)	2021/07/07	23		%	35
			Leachable Manganese (Mn)	2021/07/07	24		%	35
			Leachable Molybdenum (Mo)	2021/07/07	NC		%	35
			Leachable Nickel (Ni)	2021/07/07	NC		%	35
			Leachable Potassium (K)	2021/07/07	5.6		%	35
			Leachable Selenium (Se)	2021/07/07	NC		%	35
			Leachable Silver (Ag)	2021/07/07	NC		%	35
			Leachable Strontium (Sr)	2021/07/07	12		%	35
			Leachable Thallium (Tl)	2021/07/07	NC		%	35
			Leachable Tin (Sn)	2021/07/07	NC		%	35
			Leachable Uranium (U)	2021/07/07	NC		%	35
			Leachable Vanadium (V)	2021/07/07	NC		%	35
			Leachable Zinc (Zn)	2021/07/07	NC		%	35
7446755	EPU	Method Blank	Sample Weight (as received)	2021/07/06	NA		g	
7446755	EPU	RPD [PYI109-01]	Sample Weight (as received)	2021/07/06	0.021		%	N/A
7448311	MLB	Matrix Spike [PYI094-01]	Leachable Antimony (Sb)	2021/07/09		104	%	75 - 125
			Leachable Arsenic (As)	2021/07/09		98	%	75 - 125
			Leachable Barium (Ba)	2021/07/09		97	%	75 - 125
			Leachable Beryllium (Be)	2021/07/09		97	%	75 - 125
			Leachable Boron (B)	2021/07/09		98	%	75 - 125
			Leachable Cadmium (Cd)	2021/07/09		94	%	75 - 125
			Leachable Chromium (Cr)	2021/07/09		94	%	75 - 125
			Leachable Cobalt (Co)	2021/07/09		93	%	75 - 125
			Leachable Copper (Cu)	2021/07/09		94	%	75 - 125
			Leachable Lead (Pb)	2021/07/09		94	%	75 - 125
			Leachable Lithium (Li)	2021/07/09		99	%	75 - 125
			Leachable Manganese (Mn)	2021/07/09		98	%	75 - 125
			Leachable Molybdenum (Mo)	2021/07/09		99	%	75 - 125
			Leachable Nickel (Ni)	2021/07/09		95	%	75 - 125
			Leachable Selenium (Se)	2021/07/09		95	%	75 - 125
			Leachable Silver (Ag)	2021/07/09		95	%	75 - 125
			Leachable Strontium (Sr)	2021/07/09		NC	%	75 - 125
			Leachable Thallium (Tl)	2021/07/09		95	%	75 - 125
			Leachable Tin (Sn)	2021/07/09		99	%	75 - 125
			Leachable Uranium (U)	2021/07/09		99	%	75 - 125
			Leachable Vanadium (V)	2021/07/09		101	%	75 - 125
			Leachable Zinc (Zn)	2021/07/09		95	%	75 - 125
7448311	MLB	Spiked Blank	Leachable Antimony (Sb)	2021/07/09		106	%	75 - 125
			Leachable Arsenic (As)	2021/07/09		100	%	75 - 125
			Leachable Barium (Ba)	2021/07/09		99	%	75 - 125
			Leachable Beryllium (Be)	2021/07/09		97	%	75 - 125
			Leachable Boron (B)	2021/07/09		99	%	75 - 125
			Leachable Cadmium (Cd)	2021/07/09		95	%	75 - 125
			Leachable Chromium (Cr)	2021/07/09		95	%	75 - 125
			Leachable Cobalt (Co)	2021/07/09		95	%	75 - 125
			Leachable Copper (Cu)	2021/07/09		97	%	75 - 125
			Leachable Lead (Pb)	2021/07/09		95	%	75 - 125



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Your P.O. #: 700585603

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7448311	MLB	Method Blank	Leachable Lithium (Li)	2021/07/09		101	%	75 - 125
			Leachable Manganese (Mn)	2021/07/09		96	%	75 - 125
			Leachable Molybdenum (Mo)	2021/07/09		99	%	75 - 125
			Leachable Nickel (Ni)	2021/07/09		98	%	75 - 125
			Leachable Selenium (Se)	2021/07/09		97	%	75 - 125
			Leachable Silver (Ag)	2021/07/09		94	%	75 - 125
			Leachable Strontium (Sr)	2021/07/09		98	%	75 - 125
			Leachable Thallium (Tl)	2021/07/09		97	%	75 - 125
			Leachable Tin (Sn)	2021/07/09		99	%	75 - 125
			Leachable Uranium (U)	2021/07/09		100	%	75 - 125
			Leachable Vanadium (V)	2021/07/09		100	%	75 - 125
			Leachable Zinc (Zn)	2021/07/09		98	%	75 - 125
			Leachable Aluminum (Al)	2021/07/09	ND, RDL=100		ug/L	
			Leachable Antimony (Sb)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Arsenic (As)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Barium (Ba)	2021/07/09	ND, RDL=50		ug/L	
			Leachable Beryllium (Be)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Boron (B)	2021/07/09	ND, RDL=500		ug/L	
			Leachable Cadmium (Cd)	2021/07/09	ND, RDL=3.0		ug/L	
			Leachable Calcium (Ca)	2021/07/09	ND, RDL=1000		ug/L	
			Leachable Chromium (Cr)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Cobalt (Co)	2021/07/09	ND, RDL=10		ug/L	
			Leachable Copper (Cu)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Iron (Fe)	2021/07/09	ND, RDL=500		ug/L	
			Leachable Lead (Pb)	2021/07/09	ND, RDL=5.0		ug/L	
			Leachable Lithium (Li)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Magnesium (Mg)	2021/07/09	ND, RDL=1000		ug/L	
			Leachable Manganese (Mn)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Molybdenum (Mo)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Nickel (Ni)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Potassium (K)	2021/07/09	ND, RDL=1000		ug/L	
			Leachable Selenium (Se)	2021/07/09	ND, RDL=10		ug/L	
			Leachable Silver (Ag)	2021/07/09	ND, RDL=5.0		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7448311	MLB	RPD [PYI094-01]	Leachable Strontium (Sr)	2021/07/09	ND, RDL=50		ug/L	
			Leachable Thallium (Tl)	2021/07/09	ND, RDL=1.0		ug/L	
			Leachable Tin (Sn)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Uranium (U)	2021/07/09	ND, RDL=1.0		ug/L	
			Leachable Vanadium (V)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Zinc (Zn)	2021/07/09	ND, RDL=50		ug/L	
			Leachable Aluminum (Al)	2021/07/09	NC		%	35
			Leachable Antimony (Sb)	2021/07/09	NC		%	35
			Leachable Arsenic (As)	2021/07/09	4.0		%	35
			Leachable Barium (Ba)	2021/07/09	25		%	35
			Leachable Beryllium (Be)	2021/07/09	NC		%	35
			Leachable Boron (B)	2021/07/09	2.7		%	35
			Leachable Cadmium (Cd)	2021/07/09	NC		%	35
			Leachable Calcium (Ca)	2021/07/09	14		%	35
			Leachable Chromium (Cr)	2021/07/09	NC		%	35
			Leachable Cobalt (Co)	2021/07/09	NC		%	35
			Leachable Copper (Cu)	2021/07/09	NC		%	35
			Leachable Iron (Fe)	2021/07/09	9.9		%	35
			Leachable Lead (Pb)	2021/07/09	NC		%	35
			Leachable Lithium (Li)	2021/07/09	5.5		%	35
			Leachable Magnesium (Mg)	2021/07/09	0.93		%	35
			Leachable Manganese (Mn)	2021/07/09	2.1		%	35
			Leachable Molybdenum (Mo)	2021/07/09	NC		%	35
			Leachable Nickel (Ni)	2021/07/09	9.6		%	35
			Leachable Potassium (K)	2021/07/09	3.6		%	35
			Leachable Selenium (Se)	2021/07/09	NC		%	35
			Leachable Silver (Ag)	2021/07/09	NC		%	35
			Leachable Strontium (Sr)	2021/07/09	11		%	35
			Leachable Thallium (Tl)	2021/07/09	NC		%	35
			Leachable Tin (Sn)	2021/07/09	NC		%	35
			Leachable Uranium (U)	2021/07/09	NC		%	35
			Leachable Vanadium (V)	2021/07/09	NC		%	35
			Leachable Zinc (Zn)	2021/07/09	11		%	35
7448783	EPU	Method Blank	Sample Weight (as received)	2021/07/07	NA		g	
7448783	EPU	RPD [PYI094-01]	Sample Weight (as received)	2021/07/07	0.0050		%	N/A
7450561	APY	Matrix Spike [PYI094-01]	Leachable 1-Methylnaphthalene	2021/07/08		94	%	50 - 130
			Leachable 2-Methylnaphthalene	2021/07/08		90	%	50 - 130
			Leachable Acenaphthene	2021/07/08		86	%	50 - 130
			Leachable Acenaphthylene	2021/07/08		96	%	50 - 130
			Leachable Anthracene	2021/07/08		85	%	50 - 130
			Leachable Benzo(a)anthracene	2021/07/08		60	%	50 - 130
			Leachable Benzo(a)pyrene	2021/07/08		46 (3)	%	50 - 130
			Leachable Benzo(b)fluoranthene	2021/07/08		54	%	50 - 130
			Leachable Benzo(g,h,i)perylene	2021/07/08		37 (3)	%	50 - 130
			Leachable Benzo(j)fluoranthene	2021/07/08		58	%	50 - 130
			Leachable Benzo(k)fluoranthene	2021/07/08		54	%	50 - 130
			Leachable Chrysene	2021/07/08		62	%	50 - 130



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7450561	APY	Leachate Blank	Leachable D10-Anthracene	2021/07/08		73	%	50 - 130
			Leachable D14-Terphenyl	2021/07/08		63	%	50 - 130
			Leachable D8-Acenaphthylene	2021/07/08		89	%	50 - 130
			Leachable Dibenzo(a,h)anthracene	2021/07/08		22 (3)	%	50 - 130
			Leachable Fluoranthene	2021/07/08		NC	%	50 - 130
			Leachable Fluorene	2021/07/08		75	%	50 - 130
			Leachable Indeno(1,2,3-cd)pyrene	2021/07/08		31 (3)	%	50 - 130
			Leachable Naphthalene	2021/07/08		NC	%	50 - 130
			Leachable Perylene	2021/07/08		49 (3)	%	50 - 130
			Leachable Phenanthrene	2021/07/08		87	%	50 - 130
			Leachable Pyrene	2021/07/08		NC	%	50 - 130
			Leachable 1-Methylnaphthalene	2021/07/08	ND, RDL=0.50		ug/L	
			Leachable 2-Methylnaphthalene	2021/07/08	ND, RDL=0.50		ug/L	
			Leachable Acenaphthene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Acenaphthylene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Anthracene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(a)anthracene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(a)pyrene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(b)fluoranthene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(g,h,i)perylene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(j)fluoranthene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(k)fluoranthene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Chrysene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable D10-Anthracene	2021/07/08		90	%	50 - 130
			Leachable D14-Terphenyl	2021/07/08		99	%	50 - 130
			Leachable D8-Acenaphthylene	2021/07/08		91	%	50 - 130
			Leachable Dibenzo(a,h)anthracene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Fluoranthene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Fluorene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Indeno(1,2,3-cd)pyrene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Naphthalene	2021/07/08	ND, RDL=2.0		ug/L	
			Leachable Perylene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Phenanthrene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Pyrene	2021/07/08	ND, RDL=0.10		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7450561	APY	Spiked Blank	Leachable 1-Methylnaphthalene	2021/07/08		107	%	50 - 130
			Leachable 2-Methylnaphthalene	2021/07/08		113	%	50 - 130
			Leachable Acenaphthene	2021/07/08		108	%	50 - 130
			Leachable Acenaphthylene	2021/07/08		104	%	50 - 130
			Leachable Anthracene	2021/07/08		117	%	50 - 130
			Leachable Benzo(a)anthracene	2021/07/08		111	%	50 - 130
			Leachable Benzo(a)pyrene	2021/07/08		100	%	50 - 130
			Leachable Benzo(b)fluoranthene	2021/07/08		115	%	50 - 130
			Leachable Benzo(g,h,i)perylene	2021/07/08		92	%	50 - 130
			Leachable Benzo(j)fluoranthene	2021/07/08		115	%	50 - 130
			Leachable Benzo(k)fluoranthene	2021/07/08		110	%	50 - 130
			Leachable Chrysene	2021/07/08		116	%	50 - 130
			Leachable D10-Anthracene	2021/07/08		86	%	50 - 130
			Leachable D14-Terphenyl	2021/07/08		96	%	50 - 130
			Leachable D8-Acenaphthylene	2021/07/08		93	%	50 - 130
			Leachable Dibenzo(a,h)anthracene	2021/07/08		58	%	50 - 130
			Leachable Fluoranthene	2021/07/08		121	%	50 - 130
			Leachable Fluorene	2021/07/08		115	%	50 - 130
			Leachable Indeno(1,2,3-cd)pyrene	2021/07/08		75	%	50 - 130
			Leachable Naphthalene	2021/07/08		111	%	50 - 130
			Leachable Perylene	2021/07/08		110	%	50 - 130
			Leachable Phenanthrene	2021/07/08		115	%	50 - 130
			Leachable Pyrene	2021/07/08		118	%	50 - 130
7450561	APY	Method Blank	Leachable 1-Methylnaphthalene	2021/07/08	ND, RDL=0.50		ug/L	
			Leachable 2-Methylnaphthalene	2021/07/08	ND, RDL=0.50		ug/L	
			Leachable Acenaphthene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Acenaphthylene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Anthracene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(a)anthracene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(a)pyrene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(b)fluoranthene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(g,h,i)perylene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(j)fluoranthene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Benzo(k)fluoranthene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Chrysene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable D10-Anthracene	2021/07/08		97	%	50 - 130
			Leachable D14-Terphenyl	2021/07/08		100	%	50 - 130
			Leachable D8-Acenaphthylene	2021/07/08		97	%	50 - 130
			Leachable Dibenzo(a,h)anthracene	2021/07/08	ND, RDL=0.10		ug/L	



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7450561	APY	RPD [PYI094-01]	Leachable Fluoranthene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Fluorene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Indeno(1,2,3-cd)pyrene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Naphthalene	2021/07/08	ND, RDL=2.0		ug/L	
			Leachable Perylene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Phenanthrene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable Pyrene	2021/07/08	ND, RDL=0.10		ug/L	
			Leachable 1-Methylnaphthalene	2021/07/08	NC		%	40
			Leachable 2-Methylnaphthalene	2021/07/08	NC		%	40
			Leachable Acenaphthene	2021/07/08	0.71		%	40
			Leachable Acenaphthylene	2021/07/08	NC		%	40
			Leachable Anthracene	2021/07/08	1.5		%	40
			Leachable Benzo(a)anthracene	2021/07/08	26		%	40
			Leachable Benzo(a)pyrene	2021/07/08	NC		%	40
			Leachable Benzo(b)fluoranthene	2021/07/08	NC		%	40
			Leachable Benzo(g,h,i)perylene	2021/07/08	NC		%	40
			Leachable Benzo(j)fluoranthene	2021/07/08	NC		%	40
			Leachable Benzo(k)fluoranthene	2021/07/08	NC		%	40
			Leachable Chrysene	2021/07/08	25		%	40
			Leachable Dibenzo(a,h)anthracene	2021/07/08	NC		%	40
			Leachable Fluoranthene	2021/07/08	0.090		%	40
			Leachable Fluorene	2021/07/08	1.3		%	40
			Leachable Indeno(1,2,3-cd)pyrene	2021/07/08	NC		%	40
			Leachable Naphthalene	2021/07/08	1.0		%	40
			Leachable Perylene	2021/07/08	NC		%	40
			Leachable Phenanthrene	2021/07/08	3.8		%	40
			Leachable Pyrene	2021/07/08	1.7		%	40
7450811	MLB	Matrix Spike [PYI120-01]	Leachable Antimony (Sb)	2021/07/09		108	%	75 - 125
			Leachable Arsenic (As)	2021/07/09		99	%	75 - 125
			Leachable Barium (Ba)	2021/07/09		98	%	75 - 125
			Leachable Beryllium (Be)	2021/07/09		99	%	75 - 125
			Leachable Boron (B)	2021/07/09		100	%	75 - 125
			Leachable Cadmium (Cd)	2021/07/09		97	%	75 - 125
			Leachable Chromium (Cr)	2021/07/09		96	%	75 - 125
			Leachable Cobalt (Co)	2021/07/09		95	%	75 - 125
			Leachable Copper (Cu)	2021/07/09		97	%	75 - 125
			Leachable Lead (Pb)	2021/07/09		97	%	75 - 125
			Leachable Lithium (Li)	2021/07/09		102	%	75 - 125
			Leachable Manganese (Mn)	2021/07/09		99	%	75 - 125
			Leachable Molybdenum (Mo)	2021/07/09		103	%	75 - 125
			Leachable Nickel (Ni)	2021/07/09		98	%	75 - 125
			Leachable Selenium (Se)	2021/07/09		98	%	75 - 125
			Leachable Silver (Ag)	2021/07/09		98	%	75 - 125
			Leachable Strontium (Sr)	2021/07/09		NC	%	75 - 125
			Leachable Thallium (Tl)	2021/07/09		97	%	75 - 125
			Leachable Tin (Sn)	2021/07/09		100	%	75 - 125



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7450811	MLB	Spiked Blank	Leachable Uranium (U)	2021/07/09		100	%	75 - 125
			Leachable Vanadium (V)	2021/07/09		102	%	75 - 125
			Leachable Zinc (Zn)	2021/07/09		96	%	75 - 125
			Leachable Antimony (Sb)	2021/07/09		103	%	75 - 125
			Leachable Arsenic (As)	2021/07/09		97	%	75 - 125
			Leachable Barium (Ba)	2021/07/09		96	%	75 - 125
			Leachable Beryllium (Be)	2021/07/09		97	%	75 - 125
			Leachable Boron (B)	2021/07/09		101	%	75 - 125
			Leachable Cadmium (Cd)	2021/07/09		94	%	75 - 125
			Leachable Chromium (Cr)	2021/07/09		94	%	75 - 125
			Leachable Cobalt (Co)	2021/07/09		93	%	75 - 125
			Leachable Copper (Cu)	2021/07/09		96	%	75 - 125
			Leachable Lead (Pb)	2021/07/09		94	%	75 - 125
			Leachable Lithium (Li)	2021/07/09		101	%	75 - 125
			Leachable Manganese (Mn)	2021/07/09		96	%	75 - 125
			Leachable Molybdenum (Mo)	2021/07/09		100	%	75 - 125
			Leachable Nickel (Ni)	2021/07/09		95	%	75 - 125
			Leachable Selenium (Se)	2021/07/09		96	%	75 - 125
			Leachable Silver (Ag)	2021/07/09		94	%	75 - 125
			Leachable Strontium (Sr)	2021/07/09		97	%	75 - 125
			Leachable Thallium (Tl)	2021/07/09		95	%	75 - 125
			Leachable Tin (Sn)	2021/07/09		101	%	75 - 125
			Leachable Uranium (U)	2021/07/09		98	%	75 - 125
			Leachable Vanadium (V)	2021/07/09		99	%	75 - 125
			Leachable Zinc (Zn)	2021/07/09		97	%	75 - 125
7450811	MLB	Method Blank	Leachable Aluminum (Al)	2021/07/09	ND, RDL=100		ug/L	
			Leachable Antimony (Sb)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Arsenic (As)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Barium (Ba)	2021/07/09	ND, RDL=50		ug/L	
			Leachable Beryllium (Be)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Boron (B)	2021/07/09	ND, RDL=500		ug/L	
			Leachable Cadmium (Cd)	2021/07/09	ND, RDL=3.0		ug/L	
			Leachable Calcium (Ca)	2021/07/09	ND, RDL=1000		ug/L	
			Leachable Chromium (Cr)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Cobalt (Co)	2021/07/09	ND, RDL=10		ug/L	
			Leachable Copper (Cu)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Iron (Fe)	2021/07/09	ND, RDL=500		ug/L	
			Leachable Lead (Pb)	2021/07/09	ND, RDL=5.0		ug/L	
			Leachable Lithium (Li)	2021/07/09	ND, RDL=20		ug/L	



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7450811	MLB	RPD [PYI120-01]	Leachable Magnesium (Mg)	2021/07/09	ND, RDL=1000		ug/L	
			Leachable Manganese (Mn)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Molybdenum (Mo)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Nickel (Ni)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Potassium (K)	2021/07/09	1200, RDL=1000 (4)		ug/L	
			Leachable Selenium (Se)	2021/07/09	ND, RDL=10		ug/L	
			Leachable Silver (Ag)	2021/07/09	ND, RDL=5.0		ug/L	
			Leachable Strontium (Sr)	2021/07/09	ND, RDL=50		ug/L	
			Leachable Thallium (Tl)	2021/07/09	ND, RDL=1.0		ug/L	
			Leachable Tin (Sn)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Uranium (U)	2021/07/09	ND, RDL=1.0		ug/L	
			Leachable Vanadium (V)	2021/07/09	ND, RDL=20		ug/L	
			Leachable Zinc (Zn)	2021/07/09	ND, RDL=50		ug/L	
			Leachable Aluminum (Al)	2021/07/09	23		%	35
			Leachable Antimony (Sb)	2021/07/09	NC		%	35
			Leachable Arsenic (As)	2021/07/09	NC		%	35
			Leachable Barium (Ba)	2021/07/09	33		%	35
			Leachable Beryllium (Be)	2021/07/09	NC		%	35
			Leachable Boron (B)	2021/07/09	14		%	35
			Leachable Cadmium (Cd)	2021/07/09	NC		%	35
			Leachable Calcium (Ca)	2021/07/09	36 (5)		%	35
			Leachable Chromium (Cr)	2021/07/09	NC		%	35
			Leachable Cobalt (Co)	2021/07/09	NC		%	35
			Leachable Copper (Cu)	2021/07/09	NC		%	35
			Leachable Iron (Fe)	2021/07/09	16		%	35
			Leachable Lead (Pb)	2021/07/09	NC		%	35
			Leachable Lithium (Li)	2021/07/09	6.4		%	35
			Leachable Magnesium (Mg)	2021/07/09	11		%	35
			Leachable Manganese (Mn)	2021/07/09	35 (5)		%	35
			Leachable Molybdenum (Mo)	2021/07/09	13		%	35
			Leachable Nickel (Ni)	2021/07/09	12		%	35
			Leachable Potassium (K)	2021/07/09	17		%	35
			Leachable Selenium (Se)	2021/07/09	NC		%	35
			Leachable Silver (Ag)	2021/07/09	NC		%	35
			Leachable Strontium (Sr)	2021/07/09	21		%	35
			Leachable Thallium (Tl)	2021/07/09	NC		%	35
			Leachable Tin (Sn)	2021/07/09	NC		%	35
			Leachable Uranium (U)	2021/07/09	NC		%	35
			Leachable Vanadium (V)	2021/07/09	NC		%	35
			Leachable Zinc (Zn)	2021/07/09	131 (5)		%	35



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7452065	EPU	Method Blank	Sample Weight (as received)	2021/07/08	NA		g	
7452065	EPU	RPD [PYI120-01]	Sample Weight (as received)	2021/07/08	0.16		%	N/A
7453230	APY	Matrix Spike [PYI120-01]	Leachable 1-Methylnaphthalene	2021/07/09		94	%	50 - 130
			Leachable 2-Methylnaphthalene	2021/07/09		98	%	50 - 130
			Leachable Acenaphthene	2021/07/09		306 (3)	%	50 - 130
			Leachable Acenaphthylene	2021/07/09		94	%	50 - 130
			Leachable Anthracene	2021/07/09		80	%	50 - 130
			Leachable Benzo(a)anthracene	2021/07/09		73	%	50 - 130
			Leachable Benzo(a)pyrene	2021/07/09		60	%	50 - 130
			Leachable Benzo(b)fluoranthene	2021/07/09		69	%	50 - 130
			Leachable Benzo(g,h,i)perylene	2021/07/09		53	%	50 - 130
			Leachable Benzo(j)fluoranthene	2021/07/09		62	%	50 - 130
			Leachable Benzo(k)fluoranthene	2021/07/09		51	%	50 - 130
			Leachable Chrysene	2021/07/09		77	%	50 - 130
			Leachable D10-Anthracene	2021/07/09		55	%	50 - 130
			Leachable D14-Terphenyl	2021/07/09		58	%	50 - 130
			Leachable D8-Acenaphthylene	2021/07/09		66	%	50 - 130
			Leachable Dibenzo(a,h)anthracene	2021/07/09		33 (3)	%	50 - 130
			Leachable Fluoranthene	2021/07/09		NC	%	50 - 130
			Leachable Fluorene	2021/07/09		NC	%	50 - 130
			Leachable Indeno(1,2,3-cd)pyrene	2021/07/09		44 (3)	%	50 - 130
			Leachable Naphthalene	2021/07/09		NC	%	50 - 130
			Leachable Perylene	2021/07/09		71	%	50 - 130
			Leachable Phenanthrene	2021/07/09		87	%	50 - 130
			Leachable Pyrene	2021/07/09		NC	%	50 - 130
7453230	APY	Leachate Blank	Leachable 1-Methylnaphthalene	2021/07/09	ND, RDL=0.50		ug/L	
			Leachable 2-Methylnaphthalene	2021/07/09	ND, RDL=0.50		ug/L	
			Leachable Acenaphthene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Acenaphthylene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Anthracene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(a)anthracene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(a)pyrene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(b)fluoranthene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(g,h,i)perylene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(j)fluoranthene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(k)fluoranthene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Chrysene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable D10-Anthracene	2021/07/09		88	%	50 - 130
			Leachable D14-Terphenyl	2021/07/09		99	%	50 - 130
			Leachable D8-Acenaphthylene	2021/07/09		94	%	50 - 130

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7453230	APY	Spiked Blank	Leachable Dibenzo(a,h)anthracene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Fluoranthene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Fluorene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Indeno(1,2,3-cd)pyrene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Naphthalene	2021/07/09	ND, RDL=2.0		ug/L	
			Leachable Perylene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Phenanthrene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Pyrene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable 1-Methylnaphthalene	2021/07/09		103	%	50 - 130
			Leachable 2-Methylnaphthalene	2021/07/09		109	%	50 - 130
			Leachable Acenaphthene	2021/07/09		102	%	50 - 130
			Leachable Acenaphthylene	2021/07/09		100	%	50 - 130
			Leachable Anthracene	2021/07/09		114	%	50 - 130
			Leachable Benzo(a)anthracene	2021/07/09		107	%	50 - 130
			Leachable Benzo(a)pyrene	2021/07/09		95	%	50 - 130
			Leachable Benzo(b)fluoranthene	2021/07/09		112	%	50 - 130
			Leachable Benzo(g,h,i)perylene	2021/07/09		87	%	50 - 130
			Leachable Benzo(j)fluoranthene	2021/07/09		113	%	50 - 130
			Leachable Benzo(k)fluoranthene	2021/07/09		104	%	50 - 130
			Leachable Chrysene	2021/07/09		111	%	50 - 130
			Leachable D10-Anthracene	2021/07/09		88	%	50 - 130
			Leachable D14-Terphenyl	2021/07/09		98	%	50 - 130
			Leachable D8-Acenaphthylene	2021/07/09		93	%	50 - 130
			Leachable Dibenzo(a,h)anthracene	2021/07/09		57	%	50 - 130
			Leachable Fluoranthene	2021/07/09		117	%	50 - 130
			Leachable Fluorene	2021/07/09		110	%	50 - 130
			Leachable Indeno(1,2,3-cd)pyrene	2021/07/09		70	%	50 - 130
			Leachable Naphthalene	2021/07/09		106	%	50 - 130
			Leachable Perylene	2021/07/09		108	%	50 - 130
			Leachable Phenanthrene	2021/07/09		111	%	50 - 130
			Leachable Pyrene	2021/07/09		115	%	50 - 130
7453230	APY	Method Blank	Leachable 1-Methylnaphthalene	2021/07/09	ND, RDL=0.50		ug/L	
			Leachable 2-Methylnaphthalene	2021/07/09	ND, RDL=0.50		ug/L	
			Leachable Acenaphthene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Acenaphthylene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Anthracene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(a)anthracene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(a)pyrene	2021/07/09	ND, RDL=0.10		ug/L	



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Report Date: 2021/07/12

MDI Contracting
Client Project #: R.116548.001
Site Location: Burin Site Dredging, NL
Your P.O. #: 700585603

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7453230	APY	RPD [PYI120-01]	Leachable Benzo(b)fluoranthene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(g,h,i)perylene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(j)fluoranthene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Benzo(k)fluoranthene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Chrysene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable D10-Anthracene	2021/07/09		74	%	50 - 130
			Leachable D14-Terphenyl	2021/07/09		75	%	50 - 130
			Leachable D8-Acenaphthylene	2021/07/09		73	%	50 - 130
			Leachable Dibenzo(a,h)anthracene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Fluoranthene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Fluorene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Indeno(1,2,3-cd)pyrene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Naphthalene	2021/07/09	ND, RDL=2.0		ug/L	
			Leachable Perylene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Phenanthrene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable Pyrene	2021/07/09	ND, RDL=0.10		ug/L	
			Leachable 1-Methylnaphthalene	2021/07/09	NC		%	40
			Leachable 2-Methylnaphthalene	2021/07/09	NC		%	40
			Leachable Acenaphthene	2021/07/09	86 (6)		%	40
			Leachable Acenaphthylene	2021/07/09	NC		%	40
			Leachable Anthracene	2021/07/09	9.5		%	40
			Leachable Benzo(a)anthracene	2021/07/09	31		%	40
			Leachable Benzo(a)pyrene	2021/07/09	NC		%	40
			Leachable Benzo(b)fluoranthene	2021/07/09	NC		%	40
			Leachable Benzo(g,h,i)perylene	2021/07/09	NC		%	40
			Leachable Benzo(j)fluoranthene	2021/07/09	NC		%	40
			Leachable Benzo(k)fluoranthene	2021/07/09	NC		%	40
			Leachable Chrysene	2021/07/09	27		%	40
			Leachable Dibenzo(a,h)anthracene	2021/07/09	NC		%	40
			Leachable Fluoranthene	2021/07/09	12		%	40
			Leachable Fluorene	2021/07/09	7.5		%	40
			Leachable Indeno(1,2,3-cd)pyrene	2021/07/09	NC		%	40
			Leachable Naphthalene	2021/07/09	7.2		%	40
			Leachable Perylene	2021/07/09	NC		%	40
			Leachable Phenanthrene	2021/07/09	8.5		%	40



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Leachable Pyrene	2021/07/09	14		%	40
<p>N/A = Not Applicable</p> <p>Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>Leachate Blank: A blank matrix containing all reagents used in the leaching procedure. Used to determine any process contamination.</p> <p>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.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)</p> <p>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 (absolute difference $\leq 2 \times$ RDL).</p> <p>(1) Low level lab contamination.</p> <p>(2) Poor RPD due to sample inhomogeneity.</p> <p>(3) Matrix Spike: results are outside acceptance limit due to probable matrix interference.</p> <p>(4) Lab contamination.</p> <p>(5) Poor RPD due to sample inhomogeneity. Insufficient sample for repeat analysis.</p> <p>(6) Duplicate: results are outside acceptance limit due to possible sample in-homogeneity. Insufficient sample for repeat analysis.</p>								



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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

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Mike MacGillivray, Scientific Specialist (Inorganics)

Phil Deveau, Scientific Specialist (Organics)

Rosemarie MacDonald, Scientific Specialist (Organics)

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.