



ANALYTICAL SUMMARY REPORT

October 30, 2020

Lehrkinds Big Spring
201 1st Ave N
Lewistown, MT 59457-1725

Work Order: B20101705

Project Name: Lehrkinds Big Spring MT0001229

Energy Laboratories Inc Billings MT received the following 4 samples for Lehrkinds Big Spring on 10/21/2020 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B20101705-001	Source Spigot By Distilled	10/20/20 13:30	10/21/20	Drinking Water	Metals by ICP/ICPMS, Drinking Water Alkalinity Color Chloride Sulfate/Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite Odor pH Metals Digestion by E200.2 Preparation for TDS A2540 C Solids, Total Dissolved Turbidity
B20101705-002	Distilled Water Holding Tank	10/20/20 13:35	10/21/20	Drinking Water	Same As Above
B20101705-003	Big Spring 4-1 Gal Plastic	10/21/20 13:00	10/21/20	Drinking Water	Metals by ICP/ICPMS, Drinking Water Alkalinity Color 515.4-Herbicides, Chlorinated SDWA Chloride Sulfate/Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite Odor pH Metals Digestion by E200.2 Herbicide Liquid-Liquid Microextraction E515.4 Preparation for TDS A2540 C 531-Pesticides, Carbamates SDWA Solids, Total Dissolved Semi-Volatile Organic Compounds E525.2 Extraction 525-Semi-Volatile Organic Compounds, SDWA Turbidity 524-Purgeable Organics, SDWA
B20101705-004	Distilled 1 Gal Plastic	10/20/20 11:00	10/21/20	Drinking Water	

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:



CLIENT: Lehrkinds Big Spring
Project: Lehrkinds Big Spring MT0001229
Work Order: B20101705

Report Date: 10/30/20

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, PO Box 247, Casper, WY, EPA Number WY00002.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring
Client Sample ID: Source Spigot By Distilled
PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER
Facility ID: TP001
Sampling Point/Location: EP502 / Source Spigot By Dis
Project ID: Lehrkinds Big Spring MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

Lab ID: B20101705-001
Report Date: 10/30/20
Collection Date: 10/20/20 13:30
Date Received: 10/21/20
Matrix: Drinking Water
Federal ID#: MT00005

Contact Phone #: (406) 538-3433

Sample Type: RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL PROPERTIES							
1925 pH	7.8	s.u.	H	0.1		A4500-H B	10/22/20 10:58 / jpv
pH Measurement Temp	12	C				A4500-H B	10/22/20 10:58 / jpv
1905 Color	ND	c.u.		5		A2120 B	10/22/20 11:00 / mrc
1920 Odor	3	T.O.N.				A2150 B	10/21/20 10:12 / pjw
Odor Measurement Temp	60	°C				A2150 B	10/21/20 10:12 / pjw
pH at Time of Color Analysis	7.8	s.u.		0.1		A2120 B	10/22/20 11:00 / mrc
0100 Turbidity	0.2	NTU		0.1		A2130 B	10/21/20 17:22 / pjw
1930 Solids, Total Dissolved TDS @ 180 C	298	mg/L		10		A2540 C	10/22/20 10:13 / gie
INORGANICS							
1927 Alkalinity, Total as CaCO3	165	mg/L		4		A2320 B	10/22/20 18:23 / trp
1928 Bicarbonate as HCO3	202	mg/L		4		A2320 B	10/22/20 18:23 / trp
1929 Carbonate as CO3	ND	mg/L		4		A2320 B	10/22/20 18:23 / trp
1017 Chloride	1	mg/L		1		E300.0	10/23/20 06:16 / mrc
1055 Sulfate	85	mg/L		1		E300.0	10/23/20 06:16 / mrc
1025 Fluoride	0.6	mg/L		0.1		E300.0	10/23/20 06:16 / mrc
NUTRIENTS							
1038 Nitrogen, Nitrate+Nitrite as N	0.18	mg/L		0.01	10	E353.2	10/22/20 11:19 / ean
METALS, TOTAL							
1002 Aluminum	ND	mg/L		0.03		E200.7	10/26/20 11:41 / rlh
1074 Antimony	ND	mg/L		0.001	0.006	E200.8	10/26/20 15:32 / pap
1005 Arsenic	ND	mg/L		0.001	0.01	E200.8	10/26/20 15:32 / pap
1010 Barium	ND	mg/L		0.05	2	E200.7	10/26/20 11:41 / rlh
1075 Beryllium	ND	mg/L		0.001	0.004	E200.7	10/26/20 11:41 / rlh
1079 Boron	ND	mg/L		0.05		E200.7	10/26/20 11:41 / rlh
1015 Cadmium	ND	mg/L		0.001	0.005	E200.8	10/26/20 15:32 / pap
1016 Calcium	67	mg/L		1		E200.7	10/26/20 11:41 / rlh
1020 Chromium	ND	mg/L		0.005	0.1	E200.7	10/26/20 11:41 / rlh
1022 Copper	0.006	mg/L		0.005	1.3	E200.8	10/26/20 15:32 / pap
1028 Iron	ND	mg/L		0.02		E200.7	10/26/20 11:41 / rlh
1030 Lead	ND	mg/L		0.001	0.015	E200.8	10/26/20 15:32 / pap
1083 Lithium	ND	mg/L		0.1		E200.7	10/26/20 11:41 / rlh
1031 Magnesium	19	mg/L		1		E200.7	10/26/20 11:41 / rlh
1032 Manganese	ND	mg/L		0.001		E200.7	10/26/20 11:41 / rlh

Report Definitions: RL - Analyte Reporting Limit
 QCL - Quality Control Limit
 H - Analysis performed past the method holding time

MCL - Maximum Contaminant Level
 ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring
Client Sample ID: Source Spigot By Distilled
PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER
Facility ID: TP001
Sampling Point/Location: EP502 / Source Spigot By Dis
Project ID: Lehrkinds Big Spring MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

Contact Phone #: (406) 538-3433

Sample Type: RT

Lab ID: B20101705-001
Report Date: 10/30/20
Collection Date: 10/20/20 13:30
Date Received: 10/21/20
Matrix: Drinking Water
Federal ID#: MT00005

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS, TOTAL							
1035 Mercury	ND	mg/L		0.0001	0.002	E200.8	10/26/20 15:32 / pap
1036 Nickel	ND	mg/L		0.01		E200.7	10/26/20 11:41 / rih
1042 Potassium	ND	mg/L		1		E200.7	10/26/20 11:41 / rih
1045 Selenium	ND	mg/L		0.001	0.05	E200.8	10/26/20 15:32 / pap
1049 Silica	6.0	mg/L		0.2		E200.7	10/26/20 11:41 / rih
SILI Silicon	2.8	mg/L		0.1		E200.7	10/26/20 11:41 / rih
1052 Sodium	2	mg/L		1		E200.7	10/26/20 11:41 / rih
1051 Strontium	0.62	mg/L		0.01		E200.7	10/26/20 11:41 / rih
1085 Thallium	ND	mg/L		0.0005	0.002	E200.8	10/26/20 15:32 / pap
1087 Titanium	ND	mg/L		0.005		E200.7	10/26/20 11:41 / rih
1088 Vanadium	ND	mg/L	L	0.02		E200.7	10/26/20 11:41 / rih
1095 Zinc	ND	mg/L		0.01		E200.7	10/26/20 11:41 / rih

Report Definitions: RL - Analyte Reporting Limit
QCL - Quality Control Limit
L - Lowest available reporting limit for the analytical method used

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring
Client Sample ID: Distilled Water Holding Tank
PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER
Facility ID: TP001
Sampling Point/Location: EP502 / Distilled Water Hold
Project ID: Lehrkinds Big Spring MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

Lab ID: B20101705-002
Report Date: 10/30/20
Collection Date: 10/20/20 13:35
Date Received: 10/21/20
Matrix: Drinking Water
Federal ID#: MT00005

Contact Phone #: (406) 538-3433

Sample Type: RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL PROPERTIES							
1925 pH	5.6	s.u.	H	0.1		A4500-H B	10/22/20 11:01 / jpv
pH Measurement Temp	12	C				A4500-H B	10/22/20 11:01 / jpv
1905 Color	ND	c.u.		5		A2120 B	10/22/20 11:00 / mrc
1920 Odor	1	T.O.N.				A2150 B	10/21/20 10:25 / pjw
Odor Measurement Temp	60	°C				A2150 B	10/21/20 10:25 / pjw
pH at Time of Color Analysis	5.6	s.u.		0.1		A2120 B	10/22/20 11:00 / mrc
0100 Turbidity	ND	NTU		0.1		A2130 B	10/21/20 17:24 / pjw
1930 Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	10/22/20 10:13 / gie
- TDS did not obtain the minimum residue requirement of 2.5 mg residue.							
INORGANICS							
1927 Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	10/22/20 18:30 / trp
1928 Bicarbonate as HCO3	ND	mg/L		4		A2320 B	10/22/20 18:30 / trp
1929 Carbonate as CO3	ND	mg/L		4		A2320 B	10/22/20 18:30 / trp
1017 Chloride	ND	mg/L		1		E300.0	10/23/20 06:32 / mrc
1055 Sulfate	ND	mg/L		1		E300.0	10/23/20 06:32 / mrc
1025 Fluoride	ND	mg/L		0.1		E300.0	10/23/20 06:32 / mrc
NUTRIENTS							
1038 Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01	10	E353.2	10/22/20 11:20 / ean
METALS, TOTAL							
1002 Aluminum	ND	mg/L		0.03		E200.7	10/26/20 11:57 / rih
1074 Antimony	ND	mg/L		0.001	0.006	E200.8	10/26/20 16:17 / pap
1005 Arsenic	ND	mg/L		0.001	0.01	E200.8	10/26/20 16:17 / pap
1010 Barium	ND	mg/L		0.05	2	E200.7	10/26/20 11:57 / rih
1075 Beryllium	ND	mg/L		0.001	0.004	E200.7	10/26/20 11:57 / rih
1079 Boron	ND	mg/L		0.05		E200.7	10/26/20 11:57 / rih
1015 Cadmium	ND	mg/L		0.001	0.005	E200.8	10/26/20 16:17 / pap
1016 Calcium	ND	mg/L		1		E200.7	10/26/20 11:57 / rih
1020 Chromium	ND	mg/L		0.005	0.1	E200.7	10/26/20 11:57 / rih
1022 Copper	ND	mg/L		0.005	1.3	E200.8	10/26/20 16:17 / pap
1028 Iron	ND	mg/L		0.02		E200.7	10/26/20 11:57 / rih
1030 Lead	ND	mg/L		0.001	0.015	E200.8	10/26/20 16:17 / pap
1083 Lithium	ND	mg/L		0.1		E200.7	10/26/20 11:57 / rih
1031 Magnesium	ND	mg/L		1		E200.7	10/26/20 11:57 / rih
1032 Manganese	ND	mg/L		0.001		E200.8	10/26/20 16:17 / pap

Report Definitions: RL - Analyte Reporting Limit
 QCL - Quality Control Limit
 H - Analysis performed past the method holding time

MCL - Maximum Contaminant Level
 ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring
Client Sample ID: Distilled Water Holding Tank
PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER
Facility ID: TP001
Sampling Point/Location: EP502 / Distilled Water Hold
Project ID: Lehrkinds Big Spring MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

Contact Phone #: (406) 538-3433

Sample Type: RT

Lab ID: B20101705-002
Report Date: 10/30/20
Collection Date: 10/20/20 13:35
Date Received: 10/21/20
Matrix: Drinking Water
Federal ID#: MT00005

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS, TOTAL							
1035 Mercury	ND	mg/L		0.0001	0.002	E200.8	10/26/20 16:17 / pap
1036 Nickel	ND	mg/L		0.01		E200.7	10/26/20 11:57 / rih
1042 Potassium	ND	mg/L		1		E200.7	10/26/20 11:57 / rih
1045 Selenium	ND	mg/L		0.001	0.05	E200.8	10/26/20 16:17 / pap
1049 Silica	ND	mg/L		0.2		E200.7	10/26/20 11:57 / rih
SILI Silicon	ND	mg/L		0.1		E200.7	10/26/20 11:57 / rih
1052 Sodium	ND	mg/L		1		E200.7	10/26/20 11:57 / rih
1051 Strontium	ND	mg/L		0.01		E200.7	10/26/20 11:57 / rih
1085 Thallium	ND	mg/L		0.0005	0.002	E200.8	10/26/20 16:17 / pap
1087 Titanium	ND	mg/L		0.005		E200.7	10/26/20 11:57 / rih
1088 Vanadium	ND	mg/L	L	0.02		E200.7	10/26/20 11:57 / rih
1095 Zinc	ND	mg/L		0.01		E200.7	10/26/20 11:57 / rih

Report Definitions: RL - Analyte Reporting Limit
QCL - Quality Control Limit
L - Lowest available reporting limit for the analytical method used

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring
Client Sample ID: Big Spring 4-1 Gal Plastic
PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER
Facility ID: TP001
Sampling Point/Location: EP502 / Big Spring 4-1 Gal P
Project ID: Lehrkinds Big Spring MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

Lab ID: B20101705-003
Report Date: 10/30/20
Collection Date: 10/21/20 13:00
Date Received: 10/21/20
Matrix: Drinking Water
Federal ID#: MT00005

Contact Phone #: (406) 538-3433

Sample Type: RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL PROPERTIES							
1925 pH	8.0	s.u.	H	0.1		A4500-H B	10/22/20 11:04 / jpv
pH Measurement Temp	13	C				A4500-H B	10/22/20 11:04 / jpv
1905 Color	ND	c.u.		5		A2120 B	10/22/20 11:00 / mrc
1920 Odor	2	T.O.N.				A2150 B	10/22/20 09:40 / pjw
Odor Measurement Temp	60	°C				A2150 B	10/22/20 09:40 / pjw
pH at Time of Color Analysis	8.0	s.u.		0.1		A2120 B	10/22/20 11:00 / mrc
0100 Turbidity	0.1	NTU		0.1		A2130 B	10/21/20 17:26 / pjw
1930 Solids, Total Dissolved TDS @ 180 C	297	mg/L		10		A2540 C	10/22/20 10:13 / gie
INORGANICS							
1927 Alkalinity, Total as CaCO3	168	mg/L		4		A2320 B	10/22/20 18:35 / trp
1928 Bicarbonate as HCO3	205	mg/L		4		A2320 B	10/22/20 18:35 / trp
1929 Carbonate as CO3	ND	mg/L		4		A2320 B	10/22/20 18:35 / trp
1017 Chloride	1	mg/L		1		E300.0	10/23/20 06:48 / mrc
1055 Sulfate	85	mg/L		1		E300.0	10/23/20 06:48 / mrc
1025 Fluoride	0.6	mg/L		0.1		E300.0	10/23/20 06:48 / mrc
NUTRIENTS							
1038 Nitrogen, Nitrate+Nitrite as N	0.18	mg/L		0.01	10	E353.2	10/22/20 11:29 / ean
METALS, TOTAL							
1002 Aluminum	ND	mg/L		0.03		E200.7	10/26/20 12:01 / rlh
1074 Antimony	ND	mg/L		0.001	0.006	E200.8	10/26/20 16:48 / pap
1005 Arsenic	ND	mg/L		0.001	0.01	E200.8	10/26/20 16:48 / pap
1010 Barium	ND	mg/L		0.05	2	E200.7	10/26/20 12:01 / rlh
1075 Beryllium	ND	mg/L		0.001	0.004	E200.7	10/26/20 12:01 / rlh
1079 Boron	ND	mg/L		0.05		E200.7	10/26/20 12:01 / rlh
1015 Cadmium	ND	mg/L		0.001	0.005	E200.8	10/26/20 16:48 / pap
1016 Calcium	67	mg/L		1		E200.7	10/26/20 12:01 / rlh
1020 Chromium	ND	mg/L		0.005	0.1	E200.7	10/26/20 12:01 / rlh
1022 Copper	ND	mg/L		0.005	1.3	E200.8	10/26/20 16:48 / pap
1028 Iron	ND	mg/L		0.02		E200.7	10/26/20 12:01 / rlh
1030 Lead	ND	mg/L		0.001	0.015	E200.8	10/26/20 16:48 / pap
1083 Lithium	ND	mg/L		0.1		E200.7	10/26/20 12:01 / rlh
1031 Magnesium	19	mg/L		1		E200.7	10/26/20 12:01 / rlh
1032 Manganese	ND	mg/L		0.001		E200.7	10/26/20 12:01 / rlh

Report Definitions: RL - Analyte Reporting Limit
 QCL - Quality Control Limit
 H - Analysis performed past the method holding time

MCL - Maximum Contaminant Level
 ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring
Client Sample ID: Big Spring 4-1 Gal Plastic
PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER
Facility ID: TP001
Sampling Point/Location: EP502 / Big Spring 4-1 Gal P
Project ID: Lehrkinds Big Spring MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

Lab ID: B20101705-003
Report Date: 10/30/20
Collection Date: 10/21/20 13:00
Date Received: 10/21/20
Matrix: Drinking Water
Federal ID#: MT00005

Contact Phone #: (406) 538-3433

Sample Type: RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS, TOTAL							
1035 Mercury	ND	mg/L		0.0001	0.002	E200.8	10/26/20 16:48 / pap
1036 Nickel	ND	mg/L		0.01		E200.7	10/26/20 12:01 / rih
1042 Potassium	ND	mg/L		1		E200.7	10/26/20 12:01 / rih
1045 Selenium	ND	mg/L		0.001	0.05	E200.8	10/26/20 16:48 / pap
1049 Silica	6.0	mg/L		0.2		E200.7	10/26/20 12:01 / rih
SILI Silicon	2.8	mg/L		0.1		E200.7	10/26/20 12:01 / rih
1052 Sodium	2	mg/L		1		E200.7	10/26/20 12:01 / rih
1051 Strontium	0.62	mg/L		0.01		E200.7	10/26/20 12:01 / rih
1085 Thallium	ND	mg/L		0.0005	0.002	E200.8	10/26/20 16:48 / pap
1087 Titanium	ND	mg/L		0.005		E200.7	10/26/20 12:01 / rih
1088 Vanadium	ND	mg/L	L	0.02		E200.7	10/26/20 12:01 / rih
1095 Zinc	ND	mg/L		0.01		E200.7	10/26/20 12:01 / rih
VOLATILE ORGANIC COMPOUNDS							
2990 Benzene	ND	ug/L		0.50	5	E524.2	10/22/20 16:08 / ams
2993 Bromobenzene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2430 Bromochloromethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2943 Bromodichloromethane	0.21	ug/L	J	0.50		E524.2	10/22/20 16:08 / ams
2942 Bromoform	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2214 Bromomethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2422 n-Butylbenzene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2428 sec-Butylbenzene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2426 tert-Butylbenzene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2982 Carbon tetrachloride	ND	ug/L		0.50	5	E524.2	10/22/20 16:08 / ams
2989 Chlorobenzene	ND	ug/L		0.50	100	E524.2	10/22/20 16:08 / ams
2944 Chlorodibromomethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2216 Chloroethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2941 Chloroform	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2210 Chloromethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2965 2-Chlorotoluene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2966 4-Chlorotoluene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2931 1,2-Dibromo-3-chloropropane	ND	ug/L		1.0	0.2	E524.2	10/22/20 16:08 / ams
2408 Dibromomethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2968 1,2-Dichlorobenzene	ND	ug/L		0.50	600	E524.2	10/22/20 16:08 / ams
2967 1,3-Dichlorobenzene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2969 1,4-Dichlorobenzene	ND	ug/L		0.50	75	E524.2	10/22/20 16:08 / ams

Report Definitions: RL - Analyte Reporting Limit
QCL - Quality Control Limit
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
L - Lowest available reporting limit for the analytical method used



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring
Client Sample ID: Big Spring 4-1 Gal Plastic
PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER
Facility ID: TP001
Sampling Point/Location: EP502 / Big Spring 4-1 Gal P
Project ID: Lehrkinds Big Spring MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

Lab ID: B20101705-003
Report Date: 10/30/20
Collection Date: 10/21/20 13:00
Date Received: 10/21/20
Matrix: Drinking Water
Federal ID#: MT00005

Contact Phone #: (406) 538-3433

Sample Type: RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
2212 Dichlorodifluoromethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2978 1,1-Dichloroethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2980 1,2-Dichloroethane	ND	ug/L		0.50	5	E524.2	10/22/20 16:08 / ams
2946 1,2-Dibromoethane	ND	ug/L		0.50	0.05	E524.2	10/22/20 16:08 / ams
2977 1,1-Dichloroethene	ND	ug/L		0.50	7	E524.2	10/22/20 16:08 / ams
2380 cis-1,2-Dichloroethene	ND	ug/L		0.50	70	E524.2	10/22/20 16:08 / ams
2979 trans-1,2-Dichloroethene	ND	ug/L		0.50	100	E524.2	10/22/20 16:08 / ams
2983 1,2-Dichloropropane	ND	ug/L		0.50	5	E524.2	10/22/20 16:08 / ams
2412 1,3-Dichloropropane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2416 2,2-Dichloropropane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2410 1,1-Dichloropropene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2413 cis-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2224 trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2992 Ethylbenzene	ND	ug/L		0.50	700	E524.2	10/22/20 16:08 / ams
2246 Hexachlorobutadiene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2994 Isopropylbenzene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2030 p-Isopropyltoluene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2251 Methyl tert-butyl ether (MTBE)	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2964 Methylene chloride	ND	ug/L		0.50	5	E524.2	10/22/20 16:08 / ams
2248 Naphthalene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2998 n-Propylbenzene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2996 Styrene	ND	ug/L		0.50	100	E524.2	10/22/20 16:08 / ams
2986 1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2988 1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2987 Tetrachloroethene	ND	ug/L		0.50	5	E524.2	10/22/20 16:08 / ams
2991 Toluene	ND	ug/L		0.50	1000	E524.2	10/22/20 16:08 / ams
2420 1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2378 1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	10/22/20 16:08 / ams
2981 1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	10/22/20 16:08 / ams
2985 1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	10/22/20 16:08 / ams
2984 Trichloroethene	ND	ug/L		0.50	5	E524.2	10/22/20 16:08 / ams
2218 Trichlorofluoromethane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2414 1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2950 Trihalomethanes, Total	0.21	ug/L	J	0.50	80	E524.2	10/22/20 16:08 / ams
2418 1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2424 1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams

Report Definitions: RL - Analyte Reporting Limit
 QCL - Quality Control Limit
 J - Estimated value - analyte was present but less than the Reporting Limit (RL)
 MCL - Maximum Contaminant Level
 ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring
Client Sample ID: Big Spring 4-1 Gal Plastic
PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER
Facility ID: TP001
Sampling Point/Location: EP502 / Big Spring 4-1 Gal P
Project ID: Lehrkinds Big Spring MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

Lab ID: B20101705-003
Report Date: 10/30/20
Collection Date: 10/21/20 13:00
Date Received: 10/21/20
Matrix: Drinking Water
Federal ID#: MT00005

Contact Phone #: (406) 538-3433

Sample Type: RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
VOLATILE ORGANIC COMPOUNDS							
2976 Vinyl chloride	ND	ug/L		0.50	2	E524.2	10/22/20 16:08 / ams
2963 m+p-Xylenes	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2997 o-Xylene	ND	ug/L		0.50		E524.2	10/22/20 16:08 / ams
2955 Xylenes, Total	ND	ug/L		0.50	10000	E524.2	10/22/20 16:08 / ams
Surr: p-Bromofluorobenzene	115	%REC				E524.2	10/22/20 16:08 / ams
Surr: 1,2-Dichloroethane-d4	106	%REC				E524.2	10/22/20 16:08 / ams
Surr: Toluene-d8	108	%REC				E524.2	10/22/20 16:08 / ams
SEMI-VOLATILE ORGANIC COMPOUNDS							
2051 Alachlor	ND	ug/L		0.10	2	E525.2	10/28/20 23:14 / jlb
2356 Aldrin	ND	ug/L		0.10		E525.2	10/28/20 23:14 / jlb
2388 Aroclor 1016	ND	ug/L		0.080		E525.2	10/28/20 23:14 / jlb
2390 Aroclor 1221	ND	ug/L		2.0		E525.2	10/28/20 23:14 / jlb
2392 Aroclor 1232	ND	ug/L		0.50		E525.2	10/28/20 23:14 / jlb
2394 Aroclor 1242	ND	ug/L		0.30		E525.2	10/28/20 23:14 / jlb
2396 Aroclor 1248	ND	ug/L		0.10		E525.2	10/28/20 23:14 / jlb
2398 Aroclor 1254	ND	ug/L		0.10		E525.2	10/28/20 23:14 / jlb
2400 Aroclor 1260	ND	ug/L		0.20		E525.2	10/28/20 23:14 / jlb
2050 Atrazine	ND	ug/L		0.10	3	E525.2	10/28/20 23:14 / jlb
2306 Benzo(a)pyrene	ND	ug/L		0.10	0.2	E525.2	10/28/20 23:14 / jlb
2035 bis(2-ethylhexyl)Adipate	ND	ug/L		0.50	400	E525.2	10/28/20 23:14 / jlb
2039 bis(2-ethylhexyl)Phthalate	ND	ug/L		0.60	6	E525.2	10/28/20 23:14 / jlb
2076 Butachlor	ND	ug/L		0.10		E525.2	10/28/20 23:14 / jlb
2959 Chlordane	ND	ug/L		1.0	2	E525.2	10/28/20 23:14 / jlb
2070 Dieldrin	ND	ug/L		0.10		E525.2	10/28/20 23:14 / jlb
2005 Endrin	ND	ug/L		0.10	2	E525.2	10/28/20 23:14 / jlb
2010 gamma-BHC (Lindane)	ND	ug/L		0.10	0.2	E525.2	10/28/20 23:14 / jlb
2065 Heptachlor	ND	ug/L		0.10	0.4	E525.2	10/28/20 23:14 / jlb
2067 Heptachlor epoxide	ND	ug/L		0.10	0.2	E525.2	10/28/20 23:14 / jlb
2274 Hexachlorobenzene	ND	ug/L		0.10	1	E525.2	10/28/20 23:14 / jlb
2042 Hexachlorocyclopentadiene	ND	ug/L		0.10	50	E525.2	10/28/20 23:14 / jlb
2015 Methoxychlor	ND	ug/L		0.10	40	E525.2	10/28/20 23:14 / jlb
2045 Metolachlor	ND	ug/L		0.10		E525.2	10/28/20 23:14 / jlb
2595 Metribuzin	ND	ug/L		0.10		E525.2	10/28/20 23:14 / jlb
2077 Propachlor	ND	ug/L		0.10		E525.2	10/28/20 23:14 / jlb
2037 Simazine	ND	ug/L		0.10	4	E525.2	10/28/20 23:14 / jlb

Report Definitions: RL - Analyte Reporting Limit
QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring
Client Sample ID: Big Spring 4-1 Gal Plastic
PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER
Facility ID: TP001
Sampling Point/Location: EP502 / Big Spring 4-1 Gal P
Project ID: Lehrkinds Big Spring MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

Contact Phone #: (406) 538-3433

Sample Type: RT

Lab ID: B20101705-003
Report Date: 10/30/20
Collection Date: 10/21/20 13:00
Date Received: 10/21/20
Matrix: Drinking Water
Federal ID#: MT00005

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		

SEMI-VOLATILE ORGANIC COMPOUNDS

2020 Toxaphene	ND	ug/L		2.0	3	E525.2	10/28/20 23:14 / jlb
2383 PCBs, Total	ND	ug/L		0.50	0.5	E525.2	10/28/20 23:14 / jlb
Surr: 1,3-Dimethyl-2-nitrobenzene	103	%REC			70-130	E525.2	10/28/20 23:14 / jlb
Surr: Perylene-d12	108	%REC			70-130	E525.2	10/28/20 23:14 / jlb
Surr: Pyrene-d10	106	%REC			70-130	E525.2	10/28/20 23:14 / jlb
Surr: Triphenylphosphate	116	%REC			70-130	E525.2	10/28/20 23:14 / jlb

- Note: The federal MCL for total PCB's is 0.5 ug/L as Decachlorobiphenyl (DCB). PCB screening at the reporting limits given for the individual Aroclors meets or exceeds federal and state requirements for "Total PCB" monitoring if Aroclors are not detected.

PESTICIDES, BY HPLC

2047 Aldicarb	ND	ug/L		1.0	3	E531.1	10/27/20 15:57 / eli-ca
2044 Aldicarb sulfone	ND	ug/L		1.0	2	E531.1	10/27/20 15:57 / eli-ca
2043 Aldicarb sulfoxide	ND	ug/L		1.0	4	E531.1	10/27/20 15:57 / eli-ca
2021 Carbaryl	ND	ug/L		1.0		E531.1	10/27/20 15:57 / eli-ca
2066 3-Hydroxycarbofuran	ND	ug/L		1.0		E531.1	10/27/20 15:57 / eli-ca
2046 Carbofuran	ND	ug/L		1.0	40	E531.1	10/27/20 15:57 / eli-ca
2024 Methiocarb	ND	ug/L		1.0		E531.1	10/27/20 15:57 / eli-ca
2022 Methomyl	ND	ug/L		1.0		E531.1	10/27/20 15:57 / eli-ca
2036 Oxamyl	ND	ug/L		1.0	200	E531.1	10/27/20 15:57 / eli-ca
Baygon	ND	ug/L		1.0		E531.1	10/27/20 15:57 / eli-ca
Surr: BDMC	100	%REC			70-130	E531.1	10/27/20 15:57 / eli-ca

HERBICIDES

2110 2,4,5-TP (Silvex)	ND	ug/L		0.25	50	E515.4	10/24/20 09:48 / jmh
2105 2,4-D	ND	ug/L		1.0	70	E515.4	10/24/20 09:48 / jmh
2106 2,4-DB	ND	ug/L		1.0		E515.4	10/24/20 09:48 / jmh
2031 Dalapon	ND	ug/L		2.5	200	E515.4	10/24/20 10:23 / jmh
2440 Dicamba	ND	ug/L		1.0		E515.4	10/24/20 09:48 / jmh
2206 Dichlorprop	ND	ug/L		1.0		E515.4	10/24/20 09:48 / jmh
2041 Dinoseb	ND	ug/L		1.0	7	E515.4	10/24/20 09:48 / jmh
2326 Pentachlorophenol	ND	ug/L		0.10	1	E515.4	10/24/20 09:48 / jmh
2040 Picloram	ND	ug/L		0.50	500	E515.4	10/24/20 09:48 / jmh
Surr: 2,4-Dichlorophenylacetic acid	107	%REC			70-130	E515.4	10/24/20 09:48 / jmh

Report Definitions: RL - Analyte Reporting Limit
QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/29/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2120 B										Batch: R350737
Lab ID: MB-R350737		Method Blank								Run: MISC-WC_201022B 10/22/20 11:00
Color		ND	c.u.							
Lab ID: LCS-R350737		Laboratory Control Sample								Run: MISC-WC_201022B 10/22/20 11:00
Color		25.0	c.u.	5.0	100	90	110			
Lab ID: B20101705-001ADUP	2	Sample Duplicate								Run: MISC-WC_201022B 10/22/20 11:00
Color		3.00	c.u.	5.0						10
pH at Time of Color Analysis		7.80	s.u.	0.10				0.0		3

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/29/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2130 B										Batch: 201021B-TURB-W
Lab ID: MBLK (DI H2O)		Method Blank								Run: HACH2100N_201021B 10/21/20 17:19
Turbidity		0.09	NTU	0.08						
Lab ID: Turb - 20 NTU		Laboratory Control Sample								Run: HACH2100N_201021B 10/21/20 17:20
Turbidity		19.9	NTU	0.10	99	90	110			
Lab ID: Turb - 1.0 NTU		Laboratory Control Sample								Run: HACH2100N_201021B 10/21/20 17:20
Turbidity		1.04	NTU	0.10	104	90	110			
Lab ID: B20101705-001ADUP		Sample Duplicate								Run: HACH2100N_201021B 10/21/20 17:23
Turbidity		0.213	NTU	0.10				0.0	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/29/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2150 B Batch: R350861										
Lab ID: MB-R350861	2	Method Blank						Run: MISC-WC_201021E		10/21/20 10:12
Odor		ND	T.O.N.							
Odor Measurement Temp		60	°C							
Method: A2150 B Batch: R350863										
Lab ID: MB-R350863	2	Method Blank						Run: MISC-WC_201021F		10/21/20 10:25
Odor		ND	T.O.N.							
Odor Measurement Temp		60	°C							
Method: A2150 B Batch: R350864										
Lab ID: MB-R350864	2	Method Blank						Run: MISC-WC_201022E		10/22/20 09:40
Odor		ND	T.O.N.							
Odor Measurement Temp		60	°C							

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/29/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: 149750
Lab ID: MB-149750		Method Blank								Run: BAL #30_201022C 10/22/20 10:12
Solids, Total Dissolved TDS @ 180 C		5	mg/L							
Lab ID: LCS-149750		Laboratory Control Sample								Run: BAL #30_201022C 10/22/20 10:12
Solids, Total Dissolved TDS @ 180 C		1023	mg/L	10	103	90	110			
Lab ID: B20101705-001A DUP		Sample Duplicate								Run: BAL #30_201022C 10/22/20 10:13
Solids, Total Dissolved TDS @ 180 C		300	mg/L	10				0.7	5	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/29/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0		Analytical Run: IC METROHM 2_201022A								
Lab ID: ICV	3	Initial Calibration Verification Standard							10/21/20 11:22	
Chloride		24.8	mg/L	1.0	99	90	110			
Sulfate		96.5	mg/L	1.0	97	90	110			
Fluoride		1.26	mg/L	0.20	100	90	110			
Method: E300.0		Batch: R350693								
Lab ID: ICB	3	Method Blank							Run: IC METROHM 2_201022A 10/21/20 11:38	
Chloride		ND	mg/L	0.05						
Sulfate		ND	mg/L	0.2						
Fluoride		ND	mg/L	0.004						
Lab ID: LFB	3	Laboratory Fortified Blank							Run: IC METROHM 2_201022A 10/21/20 11:53	
Chloride		24.8	mg/L	1.0	99	90	110			
Sulfate		96.5	mg/L	1.1	96	90	110			
Fluoride		1.27	mg/L	0.20	102	90	110			
Lab ID: B20101470-001AMS	3	Sample Matrix Spike							Run: IC METROHM 2_201022A 10/23/20 05:10	
Chloride		43.4	mg/L	1.0	109	90	110			
Sulfate		151	mg/L	1.1	106	90	110			
Fluoride		1.75	mg/L	0.20	111	90	110			S
Lab ID: B20101470-001AMSD	3	Sample Matrix Spike Duplicate							Run: IC METROHM 2_201022A 10/23/20 05:26	
Chloride		43.5	mg/L	1.0	109	90	110	0.0	20	
Sulfate		150	mg/L	1.1	105	90	110	0.4	20	
Fluoride		1.74	mg/L	0.20	110	90	110	0.3	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/29/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E353.2								Analytical Run: FIA203-B_201022C			
Lab ID: ICV		Initial Calibration Verification Standard							10/22/20 10:32		
Nitrogen, Nitrate+Nitrite as N		0.559	mg/L	0.010	99	90	110				
Lab ID: CCV		Continuing Calibration Verification Standard							10/22/20 11:06		
Nitrogen, Nitrate+Nitrite as N		0.970	mg/L	0.010	97	90	110				
Lab ID: CCV		Continuing Calibration Verification Standard							10/22/20 11:22		
Nitrogen, Nitrate+Nitrite as N		0.956	mg/L	0.010	96	90	110				
Lab ID: CCV		Continuing Calibration Verification Standard							10/22/20 11:28		
Nitrogen, Nitrate+Nitrite as N		0.952	mg/L	0.010	95	90	110				
Lab ID: CCV		Continuing Calibration Verification Standard							10/22/20 11:45		
Nitrogen, Nitrate+Nitrite as N		0.954	mg/L	0.010	95	90	110				
Method: E353.2								Batch: R350736			
Lab ID: MBLK		Method Blank						Run: FIA203-B_201022C	10/22/20 10:33		
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.006							
Lab ID: LFB		Laboratory Fortified Blank						Run: FIA203-B_201022C	10/22/20 10:44		
Nitrogen, Nitrate+Nitrite as N		0.942	mg/L	0.010	94	90	110				
Lab ID: B20101691-001AMS		Sample Matrix Spike						Run: FIA203-B_201022C	10/22/20 11:25		
Nitrogen, Nitrate+Nitrite as N		6.26	mg/L	0.020	101	90	110				
Lab ID: B20101691-001AMSD		Sample Matrix Spike Duplicate						Run: FIA203-B_201022C	10/22/20 11:26		
Nitrogen, Nitrate+Nitrite as N		6.29	mg/L	0.020	102	90	110	0.5	10		
Lab ID: B20101705-003CMS		Sample Matrix Spike						Run: FIA203-B_201022C	10/22/20 11:31		
Nitrogen, Nitrate+Nitrite as N		1.10	mg/L	0.010	92	90	110				
Lab ID: B20101705-003CMSD		Sample Matrix Spike Duplicate						Run: FIA203-B_201022C	10/22/20 11:32		
Nitrogen, Nitrate+Nitrite as N		1.10	mg/L	0.010	92	90	110	0.6	10		

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B Batch: R350712										
Lab ID: MBLK		Method Blank								
Alkalinity, Total as CaCO3		ND	mg/L	4						Run: Metrohm 2_201022A 10/22/20 15:23
Lab ID: LCS		Laboratory Control Sample								
Alkalinity, Total as CaCO3		105	mg/L	4.0	104	90	110			Run: Metrohm 2_201022A 10/22/20 15:43
Lab ID: B20101611-001BMS		Sample Matrix Spike								
Alkalinity, Total as CaCO3		402	mg/L	4.0	98	80	120			Run: Metrohm 2_201022A 10/22/20 16:41
Lab ID: B20101691-001ADUP	3	Sample Duplicate								
Alkalinity, Total as CaCO3		268	mg/L	4.0				2.6	10	Run: Metrohm 2_201022A 10/22/20 18:07
Bicarbonate as HCO3		327	mg/L	4.0				2.6	10	
Carbonate as CO3		ND	mg/L	4.0					10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B		Analytical Run: PHSC_101-B_201022A								
Lab ID: pH 8	2	Initial Calibration Verification Standard								10/22/20 09:09
pH		8.00	s.u.	0.10	100	98	102			
pH Measurement Temp		19.4	C			0	0			
Method: A4500-H B		Batch: R350698								
Lab ID: B20101437-003ADUP	2	Sample Duplicate								10/22/20 10:56
pH		7.58	s.u.	0.10				0.1	3	
pH Measurement Temp		20.0	C							

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7		Analytical Run: ICP203-B_201026A								
Lab ID: ICV	18 Continuing Calibration Verification Standard								10/26/20 10:25	
Aluminum		2.49	mg/L	0.10	100	95	105			
Barium		2.48	mg/L	0.10	99	95	105			
Beryllium		1.24	mg/L	0.010	99	95	105			
Boron		2.50	mg/L	0.10	100	95	105			
Calcium		25.2	mg/L	1.0	101	95	105			
Chromium		2.41	mg/L	0.050	96	95	105			
Iron		2.51	mg/L	0.020	100	95	105			
Lithium		1.28	mg/L	0.10	103	95	105			
Magnesium		25.3	mg/L	1.0	101	95	105			
Manganese		2.44	mg/L	0.010	98	95	105			
Nickel		2.39	mg/L	0.050	96	95	105			
Potassium		25.4	mg/L	1.0	102	95	105			
Silicon		5.03	mg/L	0.10	101	95	105			
Sodium		25.4	mg/L	1.0	102	95	105			
Strontium		2.44	mg/L	0.10	98	95	105			
Titanium		2.49	mg/L	0.010	100	95	105			
Vanadium		2.46	mg/L	0.10	99	95	105			
Zinc		2.45	mg/L	0.010	98	95	105			

Method: E200.7		Batch: R350916									
Lab ID: MB-6500DIS201026A	18 Method Blank								Run: ICP203-B_201026A		10/26/20 10:33
Aluminum		ND	mg/L	0.03							
Barium		ND	mg/L	0.0010							
Beryllium		ND	mg/L	0.0003							
Boron		ND	mg/L	0.01							
Calcium		ND	mg/L	0.08							
Chromium		ND	mg/L	0.005							
Iron		ND	mg/L	0.01							
Lithium		ND	mg/L	0.01							
Magnesium		ND	mg/L	0.02							
Manganese		ND	mg/L	0.001							
Nickel		ND	mg/L	0.004							
Potassium		ND	mg/L	0.4							
Silicon		ND	mg/L	0.06							
Sodium		ND	mg/L	0.06							
Strontium		ND	mg/L	0.001							
Titanium		ND	mg/L	0.003							
Vanadium		ND	mg/L	0.02							
Zinc		ND	mg/L	0.003							

Lab ID: LFB-6500DIS201026A	18 Laboratory Fortified Blank								Run: ICP203-B_201026A		10/26/20 10:41
Aluminum		4.93	mg/L	0.10	99	85	115				
Barium		0.973	mg/L	0.10	97	85	115				
Beryllium		0.484	mg/L	0.010	97	85	115				
Boron		0.990	mg/L	0.10	99	85	115				
Calcium		49.5	mg/L	1.0	99	85	115				

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R350916										
Lab ID:	LFB-6500DIS201026A	18	Laboratory Fortified Blank							
							Run: ICP203-B_201026A	10/26/20 10:41		
Chromium		0.940	mg/L	0.050	94	85	115			
Iron		4.94	mg/L	0.020	99	85	115			
Lithium		1.01	mg/L	0.10	101	85	115			
Magnesium		50.1	mg/L	1.0	100	85	115			
Manganese		4.77	mg/L	0.010	95	85	115			
Nickel		0.931	mg/L	0.050	93	85	115			
Potassium		49.9	mg/L	1.0	100	85	115			
Silicon		9.98	mg/L	0.10	100	85	115			
Sodium		49.9	mg/L	1.0	100	85	115			
Strontium		0.970	mg/L	0.10	97	85	115			
Titanium		0.988	mg/L	0.010	99	85	115			
Vanadium		0.982	mg/L	0.10	98	85	115			
Zinc		0.957	mg/L	0.010	96	85	115			
Lab ID:	B20101705-001BMS2	18	Sample Matrix Spike							
							Run: ICP203-B_201026A	10/26/20 11:49		
Aluminum		5.16	mg/L	0.032	103	70	130			
Barium		1.02	mg/L	0.050	100	70	130			
Beryllium		0.482	mg/L	0.0010	96	70	130			
Boron		1.02	mg/L	0.050	101	70	130			
Calcium		116	mg/L	1.0	97	70	130			
Chromium		0.949	mg/L	0.0050	95	70	130			
Iron		4.91	mg/L	0.020	98	70	130			
Lithium		1.08	mg/L	0.10	108	70	130			
Magnesium		71.1	mg/L	1.0	103	70	130			
Manganese		4.83	mg/L	0.0010	97	70	130			
Nickel		0.932	mg/L	0.010	93	70	130			
Potassium		53.4	mg/L	1.0	105	70	130			
Silicon		13.1	mg/L	0.10	103	70	130			
Sodium		53.6	mg/L	1.0	103	70	130			
Strontium		1.61	mg/L	0.010	99	70	130			
Titanium		0.985	mg/L	0.0050	98	70	130			
Vanadium		0.996	mg/L	0.019	100	70	130			
Zinc		0.990	mg/L	0.010	99	70	130			
Lab ID:	B20101705-001BMSD	18	Sample Matrix Spike Duplicate							
							Run: ICP203-B_201026A	10/26/20 11:53		
Aluminum		5.17	mg/L	0.032	103	70	130	0.0	20	
Barium		1.02	mg/L	0.050	100	70	130	0.3	20	
Beryllium		0.484	mg/L	0.0010	97	70	130	0.3	20	
Boron		1.03	mg/L	0.050	101	70	130	0.6	20	
Calcium		116	mg/L	1.0	97	70	130	0.1	20	
Chromium		0.948	mg/L	0.0050	95	70	130	0.0	20	
Iron		4.93	mg/L	0.020	99	70	130	0.4	20	
Lithium		1.07	mg/L	0.10	107	70	130	0.3	20	
Magnesium		71.0	mg/L	1.0	103	70	130	0.0	20	
Manganese		4.84	mg/L	0.0010	97	70	130	0.2	20	
Nickel		0.937	mg/L	0.010	94	70	130	0.5	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R350916
Lab ID: B20101705-001BMSD	18	Sample Matrix Spike Duplicate								Run: ICP203-B_201026A
Potassium		53.2	mg/L	1.0	105	70	130	0.5	20	10/26/20 11:53
Silicon		13.2	mg/L	0.10	104	70	130	0.3	20	
Sodium		53.8	mg/L	1.0	104	70	130	0.3	20	
Strontium		1.61	mg/L	0.010	99	70	130	0.3	20	
Titanium		1.00	mg/L	0.0050	100	70	130	1.6	20	
Vanadium		1.00	mg/L	0.019	100	70	130	0.4	20	
Zinc		0.991	mg/L	0.010	99	70	130	0.1	20	

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8		Analytical Run: ICPMS208-B_201026A									
Lab ID: QCS	9	Initial Calibration Verification Standard							10/26/20 12:41		
Antimony		0.0483	mg/L	0.050	97	90	110				
Arsenic		0.0502	mg/L	0.0050	100	90	110				
Cadmium		0.0259	mg/L	0.0010	104	90	110				
Copper		0.0544	mg/L	0.010	109	90	110				
Lead		0.0479	mg/L	0.010	96	90	110				
Manganese		0.257	mg/L	0.010	103	90	110				
Mercury		0.000922	mg/L	0.0010	92	90	110				
Selenium		0.0506	mg/L	0.0050	101	90	110				
Thallium		0.0481	mg/L	0.10	96	90	110				
Method: E200.8		Batch: R350946									
Lab ID: LRB	9	Method Blank							Run: ICPMS208-B_201026A 10/26/20 12:33		
Antimony		ND	mg/L	0.00005							
Arsenic		ND	mg/L	0.00005							
Cadmium		ND	mg/L	0.00002							
Copper		ND	mg/L	0.0003							
Lead		ND	mg/L	0.00004							
Manganese		ND	mg/L	0.00004							
Mercury		ND	mg/L	7E-06							
Selenium		ND	mg/L	0.00005							
Thallium		ND	mg/L	0.00006							
Lab ID: LFB	9	Laboratory Fortified Blank							Run: ICPMS208-B_201026A 10/26/20 13:19		
Antimony		0.0453	mg/L	0.050	91	85	115				
Arsenic		0.0510	mg/L	0.0050	102	85	115				
Cadmium		0.0502	mg/L	0.0010	100	85	115				
Copper		0.0536	mg/L	0.010	107	85	115				
Lead		0.0488	mg/L	0.010	98	85	115				
Manganese		0.0509	mg/L	0.010	102	85	115				
Mercury		0.000963	mg/L	0.0010	96	85	115				
Selenium		0.0504	mg/L	0.0050	101	85	115				
Thallium		0.0491	mg/L	0.10	98	85	115				
Lab ID: B20101705-001BMS	9	Sample Matrix Spike							Run: ICPMS208-B_201026A 10/26/20 15:36		
Antimony		0.0457	mg/L	0.0010	91	70	130				
Arsenic		0.0492	mg/L	0.0011	98	70	130				
Cadmium		0.0496	mg/L	0.0010	99	70	130				
Copper		0.0555	mg/L	0.0050	99	70	130				
Lead		0.0493	mg/L	0.0010	98	70	130				
Manganese		0.0525	mg/L	0.0010	104	70	130				
Mercury		0.000972	mg/L	0.00010	97	70	130				
Selenium		0.0521	mg/L	0.0010	104	70	130				
Thallium		0.0497	mg/L	0.00050	99	70	130				
Lab ID: B20101705-001BMSD	9	Sample Matrix Spike Duplicate							Run: ICPMS208-B_201026A 10/26/20 15:56		
Antimony		0.0473	mg/L	0.0010	95	70	130	3.5	20		

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R350946
Lab ID: B20101705-001BMSD	9	Sample Matrix Spike Duplicate								Run: ICPMS208-B_201026A 10/26/20 15:56
Arsenic		0.0512	mg/L	0.0011	102	70	130	3.9	20	
Cadmium		0.0513	mg/L	0.0010	103	70	130	3.2	20	
Copper		0.0561	mg/L	0.0050	100	70	130	1.0	20	
Lead		0.0504	mg/L	0.0010	101	70	130	2.3	20	
Manganese		0.0535	mg/L	0.0010	106	70	130	1.8	20	
Mercury		0.000992	mg/L	0.00010	99	70	130	2.1	20	
Selenium		0.0524	mg/L	0.0010	105	70	130	0.7	20	
Thallium		0.0502	mg/L	0.00050	100	70	130	0.9	20	

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QA/QC Summary Report

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Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E515.4 Analytical Run: 149800											
Lab ID: CAL3-149800	9	Continuing Calibration Verification Standard							10/24/20 08:36		
2,4,5-TP (Silvex)		0.753	ug/L	0.25	100	70	130				
2,4-D		2.99	ug/L	1.0	100	70	130				
2,4-DB		2.74	ug/L	1.0	91	70	130				
Dicamba		1.53	ug/L	1.0	102	70	130				
Dichlorprop		3.10	ug/L	1.0	103	70	130				
Dinoseb		3.20	ug/L	1.0	107	70	130				
Pentachlorophenol		0.287	ug/L	0.10	96	70	130				
Picloram		1.29	ug/L	0.50	86	70	130				
Surr: 2,4-Dichlorophenylacetic acid					100	70	130				
Lab ID: CAL5-149800 10/24/20 13:22											
2,4,5-TP (Silvex)		1.81	ug/L	0.25	104	70	130				
2,4-D		7.23	ug/L	1.0	103	70	130				
2,4-DB		7.71	ug/L	1.0	110	70	130				
Dicamba		3.53	ug/L	1.0	101	70	130				
Dichlorprop		7.14	ug/L	1.0	102	70	130				
Dinoseb		7.38	ug/L	1.0	105	70	130				
Pentachlorophenol		0.639	ug/L	0.10	91	70	130				
Picloram		3.56	ug/L	0.50	102	70	130				
Surr: 2,4-Dichlorophenylacetic acid					99	70	130				
Method: E515.4 Analytical Run: 149800											
Lab ID: CAL3-149800		Continuing Calibration Verification Standard							10/24/20 09:12		
Dalapon		3.01	ug/L	2.5	100	70	130				
Lab ID: CAL5-149800 10/24/20 13:58											
Dalapon		6.78	ug/L	2.5	97	70	130				
Method: E515.4 Batch: 149800											
Lab ID: LCS-149800	9	Laboratory Control Sample				Run: CECD.I_201023A		10/24/20 00:52			
2,4,5-TP (Silvex)		1.09	ug/L	0.25	87	70	130				
2,4-D		4.37	ug/L	1.0	87	70	130				
2,4-DB		4.77	ug/L	1.0	95	70	130				
Dicamba		2.26	ug/L	1.0	90	70	130				
Dichlorprop		4.42	ug/L	1.0	88	70	130				
Dinoseb		4.33	ug/L	1.0	87	70	130				
Pentachlorophenol		0.430	ug/L	0.10	86	70	130				
Picloram		2.16	ug/L	0.50	86	70	130				
Surr: 2,4-Dichlorophenylacetic acid					97	70	130				
Lab ID: MB-149800 10/24/20 01:27											
2,4,5-TP (Silvex)		ND	ug/L	0.25							
2,4-D		ND	ug/L	1.0							
2,4-DB		ND	ug/L	1.0							
Dicamba		ND	ug/L	1.0							
Dichlorprop		ND	ug/L	1.0							
Dinoseb		ND	ug/L	1.0							

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E515.4										
Batch: 149800										
Lab ID: MB-149800	9	Method Blank								
Run: CECD.I_201023A										
10/24/20 01:27										
Pentachlorophenol		ND	ug/L	0.10						
Picloram		ND	ug/L	0.50						
Surr: 2,4-Dichlorophenylacetic acid					98	70	130			
Lab ID: B20101225-001CMS	9	Sample Matrix Spike								
Run: CECD.I_201023A										
10/24/20 02:39										
2,4,5-TP (Silvex)		1.15	ug/L	0.25	92	70	130			
2,4-D		4.34	ug/L	1.0	87	70	130			
2,4-DB		2.22	ug/L	1.0	44	70	130			S
Dicamba		2.40	ug/L	1.0	96	70	130			
Dichlorprop		4.96	ug/L	1.0	99	70	130			
Dinoseb		4.58	ug/L	1.0	92	70	130			
Pentachlorophenol		0.466	ug/L	0.10	93	70	130			
Picloram		2.27	ug/L	0.50	91	70	130			
Surr: 2,4-Dichlorophenylacetic acid					106	70	130			
Lab ID: B20101225-001CMSD	9	Sample Matrix Spike Duplicate								
Run: CECD.I_201023A										
10/24/20 03:15										
2,4,5-TP (Silvex)		1.12	ug/L	0.25	89	70	130	2.9	30	
2,4-D		4.44	ug/L	1.0	89	70	130	2.3	30	
2,4-DB		2.46	ug/L	1.0	49	70	130	10	30	S
Dicamba		2.29	ug/L	1.0	91	70	130	4.9	30	
Dichlorprop		4.75	ug/L	1.0	95	70	130	4.2	30	
Dinoseb		4.53	ug/L	1.0	91	70	130	1.0	30	
Pentachlorophenol		0.426	ug/L	0.10	85	70	130	9.1	30	
Picloram		2.29	ug/L	0.50	92	70	130	0.9	30	
Surr: 2,4-Dichlorophenylacetic acid					109	70	130			
Lab ID: LCS-149800		Laboratory Control Sample								
Run: DECD.I_201023A										
10/24/20 01:27										
Dalapon		4.41	ug/L	2.5	88	70	130			
Lab ID: MB-149800		Method Blank								
Run: DECD.I_201023A										
10/24/20 02:03										
Dalapon		ND	ug/L	2.5						
Lab ID: B20101225-001CMS		Sample Matrix Spike								
Run: DECD.I_201023A										
10/24/20 03:15										
Dalapon		4.79	ug/L	2.5	96	70	130			
Lab ID: B20101225-001CMSD		Sample Matrix Spike Duplicate								
Run: DECD.I_201023A										
10/24/20 03:51										
Dalapon		4.85	ug/L	2.5	97	70	130	1.1	30	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2										Analytical Run: R350909
Lab ID: CCV102220	65 Continuing Calibration Verification Standard									10/22/20 10:02
Benzene		4.45	ug/L	0.50	89	70	130			
Bromobenzene		4.72	ug/L	0.50	94	70	130			
Bromochloromethane		4.65	ug/L	0.50	93	70	130			
Bromodichloromethane		4.56	ug/L	0.50	91	70	130			
Bromoform		4.33	ug/L	0.50	87	70	130			
Bromomethane		3.99	ug/L	0.50	80	70	130			
n-Butylbenzene		4.45	ug/L	0.50	89	70	130			
sec-Butylbenzene		4.53	ug/L	0.50	91	70	130			
tert-Butylbenzene		4.59	ug/L	0.50	92	70	130			
Carbon tetrachloride		4.58	ug/L	0.50	92	70	130			
Chlorobenzene		4.64	ug/L	0.50	93	70	130			
Chlorodibromomethane		4.47	ug/L	0.50	89	70	130			
Chloroethane		5.13	ug/L	0.50	103	70	130			
Chloroform		4.57	ug/L	0.50	91	70	130			
Chloromethane		6.34	ug/L	0.50	127	70	130			
2-Chlorotoluene		4.63	ug/L	0.50	93	70	130			
4-Chlorotoluene		4.53	ug/L	0.50	91	70	130			
1,2-Dibromo-3-chloropropane		4.94	ug/L	1.0	99	70	130			
Dibromomethane		4.74	ug/L	0.50	95	70	130			
1,2-Dichlorobenzene		4.63	ug/L	0.50	93	70	130			
1,3-Dichlorobenzene		4.66	ug/L	0.50	93	70	130			
1,4-Dichlorobenzene		4.59	ug/L	0.50	92	70	130			
Dichlorodifluoromethane		4.95	ug/L	0.50	99	70	130			
1,1-Dichloroethane		4.66	ug/L	0.50	93	70	130			
1,2-Dichloroethane		4.64	ug/L	0.50	93	70	130			
1,2-Dibromoethane		4.81	ug/L	0.50	96	70	130			
1,1-Dichloroethene		4.70	ug/L	0.50	94	70	130			
cis-1,2-Dichloroethene		4.58	ug/L	0.50	92	70	130			
trans-1,2-Dichloroethene		4.59	ug/L	0.50	92	70	130			
1,2-Dichloropropane		4.71	ug/L	0.50	94	70	130			
1,3-Dichloropropane		4.82	ug/L	0.50	96	70	130			
2,2-Dichloropropane		5.10	ug/L	0.50	102	70	130			
1,1-Dichloropropene		4.60	ug/L	0.50	92	70	130			
cis-1,3-Dichloropropene		4.89	ug/L	0.50	98	70	130			
trans-1,3-Dichloropropene		4.92	ug/L	0.50	98	70	130			
Ethylbenzene		4.49	ug/L	0.50	90	70	130			
Hexachlorobutadiene		4.45	ug/L	0.50	89	70	130			
Isopropylbenzene		4.46	ug/L	0.50	89	70	130			
p-Isopropyltoluene		4.43	ug/L	0.50	89	70	130			
Methyl tert-butyl ether (MTBE)		5.01	ug/L	0.50	100	70	130			
Methylene chloride		4.62	ug/L	0.50	92	70	130			
Naphthalene		4.91	ug/L	0.50	98	70	130			
n-Propylbenzene		4.64	ug/L	0.50	93	70	130			
Styrene		4.67	ug/L	0.50	93	70	130			
1,1,1,2-Tetrachloroethane		4.64	ug/L	0.50	93	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2										
Analytical Run: R350909										
Lab ID: CCV102220	65 Continuing Calibration Verification Standard									10/22/20 10:02
1,1,2,2-Tetrachloroethane		4.76	ug/L	0.50	95	70	130			
Tetrachloroethene		4.67	ug/L	0.50	93	70	130			
Toluene		4.74	ug/L	0.50	95	70	130			
1,2,3-Trichlorobenzene		4.80	ug/L	0.50	96	70	130			
1,2,4-Trichlorobenzene		4.88	ug/L	0.50	98	70	130			
1,1,1-Trichloroethane		4.59	ug/L	0.50	92	70	130			
1,1,2-Trichloroethane		4.70	ug/L	0.50	94	70	130			
Trichloroethene		4.65	ug/L	0.50	93	70	130			
Trichlorofluoromethane		5.11	ug/L	0.50	102	70	130			
1,2,3-Trichloropropane		4.71	ug/L	0.50	94	70	130			
1,2,4-Trimethylbenzene		4.51	ug/L	0.50	90	70	130			
1,3,5-Trimethylbenzene		4.51	ug/L	0.50	90	70	130			
Vinyl chloride		5.10	ug/L	0.50	102	70	130			
m+p-Xylenes		9.65	ug/L	0.50	96	70	130			
o-Xylene		4.55	ug/L	0.50	91	70	130			
Trihalomethanes, Total		17.9	ug/L	0.50	90	70	130			
Xylenes, Total		14.2	ug/L	0.50	95	70	130			
Surr: p-Bromofluorobenzene				0.50	106	70	130			
Surr: 1,2-Dichloroethane-d4				0.50	107	70	130			
Surr: Toluene-d8				0.50	110	70	130			

Method: E524.2										
Batch: R350909										
Lab ID: LCS102220	65 Laboratory Control Sample									Run: CS5972A.I_201022A 10/22/20 10:53
Benzene		4.91	ug/L	0.50	98	70	130			
Bromobenzene		5.27	ug/L	0.50	105	70	130			
Bromochloromethane		4.63	ug/L	0.50	92	70	130			
Bromodichloromethane		5.11	ug/L	0.50	102	70	130			
Bromoform		4.59	ug/L	0.50	92	70	130			
Bromomethane		4.03	ug/L	0.50	81	70	130			
n-Butylbenzene		5.05	ug/L	0.50	101	70	130			
sec-Butylbenzene		5.18	ug/L	0.50	104	70	130			
tert-Butylbenzene		5.24	ug/L	0.50	105	70	130			
Carbon tetrachloride		4.88	ug/L	0.50	98	70	130			
Chlorobenzene		5.07	ug/L	0.50	101	70	130			
Chlorodibromomethane		4.52	ug/L	0.50	90	70	130			
Chloroethane		4.53	ug/L	0.50	91	70	130			
Chloroform		4.74	ug/L	0.50	95	70	130			
Chloromethane		5.37	ug/L	0.50	107	70	130			
2-Chlorotoluene		5.21	ug/L	0.50	104	70	130			
4-Chlorotoluene		5.09	ug/L	0.50	102	70	130			
1,2-Dibromo-3-chloropropane		5.40	ug/L	1.0	108	70	130			
Dibromomethane		5.09	ug/L	0.50	102	70	130			
1,2-Dichlorobenzene		5.18	ug/L	0.50	104	70	130			
1,3-Dichlorobenzene		5.22	ug/L	0.50	104	70	130			
1,4-Dichlorobenzene		5.05	ug/L	0.50	101	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E524.2											
Batch: R350909											
Lab ID: LCS102220	65	Laboratory Control Sample			Run: CS5972A.I_201022A			10/22/20 10:53			
Dichlorodifluoromethane		5.05	ug/L	0.50	101	70	130				
1,1-Dichloroethane		5.23	ug/L	0.50	105	70	130				
1,2-Dichloroethane		4.84	ug/L	0.50	97	70	130				
1,2-Dibromoethane		5.05	ug/L	0.50	101	70	130				
1,1-Dichloroethene		5.20	ug/L	0.50	104	70	130				
cis-1,2-Dichloroethene		5.11	ug/L	0.50	102	70	130				
trans-1,2-Dichloroethene		5.21	ug/L	0.50	104	70	130				
1,2-Dichloropropane		5.11	ug/L	0.50	102	70	130				
1,3-Dichloropropane		4.87	ug/L	0.50	97	70	130				
2,2-Dichloropropane		5.67	ug/L	0.50	113	70	130				
1,1-Dichloropropene		4.61	ug/L	0.50	92	70	130				
cis-1,3-Dichloropropene		5.12	ug/L	0.50	102	70	130				
trans-1,3-Dichloropropene		5.46	ug/L	0.50	109	70	130				
Ethylbenzene		5.04	ug/L	0.50	101	70	130				
Hexachlorobutadiene		5.04	ug/L	0.50	101	70	130				
Isopropylbenzene		5.05	ug/L	0.50	101	70	130				
p-Isopropyltoluene		5.05	ug/L	0.50	101	70	130				
Methyl tert-butyl ether (MTBE)		5.68	ug/L	0.50	114	70	130				
Methylene chloride		4.86	ug/L	0.50	97	70	130				
Naphthalene		5.40	ug/L	0.50	108	70	130				
n-Propylbenzene		5.28	ug/L	0.50	106	70	130				
Styrene		5.12	ug/L	0.50	102	70	130				
1,1,1,2-Tetrachloroethane		5.05	ug/L	0.50	101	70	130				
1,1,2,2-Tetrachloroethane		5.08	ug/L	0.50	102	70	130				
Tetrachloroethene		5.09	ug/L	0.50	102	70	130				
Toluene		5.21	ug/L	0.50	104	70	130				
1,2,3-Trichlorobenzene		5.26	ug/L	0.50	105	70	130				
1,2,4-Trichlorobenzene		5.37	ug/L	0.50	107	70	130				
1,1,1-Trichloroethane		5.06	ug/L	0.50	101	70	130				
1,1,2-Trichloroethane		5.06	ug/L	0.50	101	70	130				
Trichloroethene		5.14	ug/L	0.50	103	70	130				
Trichlorofluoromethane		4.59	ug/L	0.50	92	70	130				
1,2,3-Trichloropropane		4.95	ug/L	0.50	99	70	130				
1,2,4-Trimethylbenzene		5.09	ug/L	0.50	102	70	130				
1,3,5-Trimethylbenzene		5.07	ug/L	0.50	101	70	130				
Vinyl chloride		4.52	ug/L	0.50	90	70	130				
m+p-Xylenes		10.5	ug/L	0.50	105	70	130				
o-Xylene		5.04	ug/L	0.50	101	70	130				
Trihalomethanes, Total		18.9	ug/L	0.50	95	70	130				
Xylenes, Total		15.6	ug/L	0.50	104	70	130				
Surr: p-Bromofluorobenzene				0.50	108	70	130				
Surr: 1,2-Dichloroethane-d4				0.50	105	70	130				
Surr: Toluene-d8				0.50	109	70	130				
Lab ID: MBLK102220	65	Method Blank			Run: CS5972A.I_201022A			10/22/20 11:49			
Benzene		ND	ug/L	0.50							

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2										Batch: R350909
Lab ID: MBLK102220	65	Method Blank		Run: CS5972A.I_201022A				10/22/20 11:49		
Bromobenzene		ND	ug/L	0.50						
Bromochloromethane		ND	ug/L	0.50						
Bromodichloromethane		ND	ug/L	0.50						
Bromoform		ND	ug/L	0.50						
Bromomethane		ND	ug/L	0.50						
n-Butylbenzene		ND	ug/L	0.50						
sec-Butylbenzene		ND	ug/L	0.50						
tert-Butylbenzene		ND	ug/L	0.50						
Carbon tetrachloride		ND	ug/L	0.50						
Chlorobenzene		ND	ug/L	0.50						
Chlorodibromomethane		ND	ug/L	0.50						
Chloroethane		ND	ug/L	0.50						
Chloroform		ND	ug/L	0.50						
Chloromethane		ND	ug/L	0.50						
2-Chlorotoluene		ND	ug/L	0.50						
4-Chlorotoluene		ND	ug/L	0.50						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	0.50						
1,2-Dichlorobenzene		ND	ug/L	0.50						
1,3-Dichlorobenzene		ND	ug/L	0.50						
1,4-Dichlorobenzene		ND	ug/L	0.50						
Dichlorodifluoromethane		ND	ug/L	0.50						
1,1-Dichloroethane		ND	ug/L	0.50						
1,2-Dichloroethane		ND	ug/L	0.50						
1,2-Dibromoethane		ND	ug/L	0.50						
1,1-Dichloroethene		ND	ug/L	0.50						
cis-1,2-Dichloroethene		ND	ug/L	0.50						
trans-1,2-Dichloroethene		ND	ug/L	0.50						
1,2-Dichloropropane		ND	ug/L	0.50						
1,3-Dichloropropane		ND	ug/L	0.50						
2,2-Dichloropropane		ND	ug/L	0.50						
1,1-Dichloropropene		ND	ug/L	0.50						
cis-1,3-Dichloropropene		ND	ug/L	0.50						
trans-1,3-Dichloropropene		ND	ug/L	0.50						
Ethylbenzene		ND	ug/L	0.50						
Hexachlorobutadiene		ND	ug/L	0.50						
Isopropylbenzene		ND	ug/L	0.50						
p-Isopropyltoluene		ND	ug/L	0.50						
Methyl tert-butyl ether (MTBE)		ND	ug/L	0.50						
Methylene chloride		ND	ug/L	0.50						
Naphthalene		ND	ug/L	0.50						
n-Propylbenzene		ND	ug/L	0.50						
Styrene		ND	ug/L	0.50						
1,1,1,2-Tetrachloroethane		ND	ug/L	0.50						
1,1,2,2-Tetrachloroethane		ND	ug/L	0.50						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2										
Batch: R350909										
Lab ID: MBLK102220	65	Method Blank								
Run: CS5972A.I_201022A 10/22/20 11:49										
Tetrachloroethene		ND	ug/L	0.50						
Toluene		ND	ug/L	0.50						
1,2,3-Trichlorobenzene		ND	ug/L	0.50						
1,2,4-Trichlorobenzene		ND	ug/L	0.50						
1,1,1-Trichloroethane		ND	ug/L	0.50						
1,1,2-Trichloroethane		ND	ug/L	0.50						
Trichloroethene		ND	ug/L	0.50						
Trichlorofluoromethane		ND	ug/L	0.50						
1,2,3-Trichloropropane		ND	ug/L	0.50						
1,2,4-Trimethylbenzene		ND	ug/L	0.50						
1,3,5-Trimethylbenzene		ND	ug/L	0.50						
Vinyl chloride		ND	ug/L	0.50						
m+p-Xylenes		ND	ug/L	0.50						
o-Xylene		ND	ug/L	0.50						
Trihalomethanes, Total		ND	ug/L	0.50						
Xylenes, Total		ND	ug/L	0.50						
Surr: p-Bromofluorobenzene				0.50	115	70	130			
Surr: 1,2-Dichloroethane-d4				0.50	104	70	130			
Surr: Toluene-d8				0.50	110	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2										
Batch: 149933										
Lab ID: MB-149933	25	Method Blank								
						Run: SVSATURN2_201028A				10/28/20 18:06
Alachlor		ND	ug/L	0.10						
Aldrin		ND	ug/L	0.10						
Atrazine		ND	ug/L	0.10						
Benzo(a)pyrene		ND	ug/L	0.10						
bis(2-ethylhexyl)Adipate		ND	ug/L	0.50						
bis(2-ethylhexyl)Phthalate		ND	ug/L	0.60						
Butachlor		ND	ug/L	0.10						
Chlordane		ND	ug/L	1.0						
Dieldrin		ND	ug/L	0.10						
Endrin		ND	ug/L	0.10						
gamma-BHC (Lindane)		ND	ug/L	0.10						
Heptachlor		ND	ug/L	0.10						
Heptachlor epoxide		ND	ug/L	0.10						
Hexachlorobenzene		ND	ug/L	0.10						
Hexachlorocyclopentadiene		ND	ug/L	0.10						
Methoxychlor		ND	ug/L	0.10						
Metolachlor		ND	ug/L	0.10						
Metribuzin		ND	ug/L	0.10						
Propachlor		ND	ug/L	0.10						
Simazine		ND	ug/L	0.10						
Toxaphene		ND	ug/L	2.0						
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	96	70	130			
Surr: Perylene-d12				0.10	112	70	130			
Surr: Pyrene-d10				0.10	105	70	130			
Surr: Triphenylphosphate				0.10	111	70	130			
Lab ID: LCS-149933	23	Laboratory Control Sample								
						Run: SVSATURN2_201028A				10/28/20 20:40
Alachlor		2.04	ug/L	0.10	102	70	130			
Aldrin		2.09	ug/L	0.10	104	70	130			
Atrazine		2.46	ug/L	0.10	123	70	130			
Benzo(a)pyrene		2.33	ug/L	0.10	117	70	130			
bis(2-ethylhexyl)Adipate		1.72	ug/L	0.50	86	70	130			
bis(2-ethylhexyl)Phthalate		2.05	ug/L	0.60	102	70	130			
Butachlor		2.08	ug/L	0.10	104	70	130			
Dieldrin		2.08	ug/L	0.10	104	70	130			
Endrin		2.02	ug/L	0.10	101	70	130			
gamma-BHC (Lindane)		1.96	ug/L	0.10	98	70	130			
Heptachlor		1.97	ug/L	0.10	99	70	130			
Heptachlor epoxide		2.12	ug/L	0.10	106	70	130			
Hexachlorobenzene		2.05	ug/L	0.10	102	70	130			
Hexachlorocyclopentadiene		2.22	ug/L	0.10	111	70	130			
Methoxychlor		2.32	ug/L	0.10	116	70	130			
Metolachlor		1.92	ug/L	0.10	96	70	130			
Metribuzin		1.94	ug/L	0.10	97	70	130			
Propachlor		2.72	ug/L	0.10	136	70	130			S
Simazine		3.16	ug/L	0.10	158	70	130			S

Qualifiers:

RL - Analyte Reporting Limit

S - Spike recovery outside of advisory limits

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2										
Batch: 149933										
Lab ID: LCS-149933	23	Laboratory Control Sample					Run: SVSATURN2_201028A	10/28/20 20:40		
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	104	70	130			
Surr: Perylene-d12				0.10	108	70	130			
Surr: Pyrene-d10				0.10	98	70	130			
Surr: Triphenylphosphate				0.10	106	70	130			
Lab ID: CLD-149933	5	Laboratory Control Sample					Run: SVSATURN2_201028A	10/28/20 22:36		
Chlordane		20.8	ug/L	1.0	104	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	103	70	130			
Surr: Perylene-d12				0.10	109	70	130			
Surr: Pyrene-d10				0.10	109	70	130			
Surr: Triphenylphosphate				0.10	98	70	130			
Lab ID: B20101705-003FMS	23	Sample Matrix Spike					Run: SVSATURN2_201028A	10/28/20 21:19		
Alachlor		3.88	ug/L	0.20	97	70	130			
Aldrin		4.04	ug/L	0.20	101	70	130			
Atrazine		4.54	ug/L	0.20	114	70	130			
Benzo(a)pyrene		3.92	ug/L	0.20	98	70	130			
bis(2-ethylhexyl)Adipate		3.00	ug/L	1.0	75	70	130			
bis(2-ethylhexyl)Phthalate		3.68	ug/L	1.2	92	70	130			
Butachlor		3.96	ug/L	0.20	99	70	130			
Dieldrin		3.68	ug/L	0.20	92	70	130			
Endrin		3.24	ug/L	0.20	81	70	130			
gamma-BHC (Lindane)		4.30	ug/L	0.20	107	70	130			
Heptachlor		3.36	ug/L	0.20	84	70	130			
Heptachlor epoxide		3.86	ug/L	0.20	97	70	130			
Hexachlorobenzene		3.42	ug/L	0.20	86	70	130			
Hexachlorocyclopentadiene		3.20	ug/L	0.20	80	70	130			
Methoxychlor		3.86	ug/L	0.20	97	70	130			
Metolachlor		3.70	ug/L	0.20	93	70	130			
Metribuzin		4.12	ug/L	0.20	103	70	130			
Propachlor		4.58	ug/L	0.20	115	70	130			
Simazine		6.04	ug/L	0.20	151	70	130			S
Surr: 1,3-Dimethyl-2-nitrobenzene				0.20	87	70	130			
Surr: Perylene-d12				0.20	100	70	130			
Surr: Pyrene-d10				0.20	98	70	130			
Surr: Triphenylphosphate				0.20	102	70	130			
Lab ID: B20101705-003FMSD	23	Sample Matrix Spike Duplicate					Run: SVSATURN2_201028A	10/28/20 21:57		
Alachlor		4.38	ug/L	0.20	109	70	130	12	40	
Aldrin		4.50	ug/L	0.20	113	70	130	11	40	
Atrazine		5.70	ug/L	0.20	143	70	130	23	40	S
Benzo(a)pyrene		4.28	ug/L	0.20	107	70	130	8.8	40	
bis(2-ethylhexyl)Adipate		3.10	ug/L	1.0	78	70	130	3.3	40	
bis(2-ethylhexyl)Phthalate		4.00	ug/L	1.2	100	70	130	8.3	40	
Butachlor		4.52	ug/L	0.20	113	70	130	13	40	
Dieldrin		3.76	ug/L	0.20	94	70	130	2.1	40	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2 Batch: 149933										
Lab ID: B20101705-003FMSD 23 Sample Matrix Spike Duplicate Run: SVSATURN2_201028A 10/28/20 21:57										
Endrin		3.64	ug/L	0.20	91	70	130	12	40	
gamma-BHC (Lindane)		4.24	ug/L	0.20	106	70	130	1.4	40	
Heptachlor		3.66	ug/L	0.20	92	70	130	8.6	40	
Heptachlor epoxide		4.20	ug/L	0.20	105	70	130	8.4	40	
Hexachlorobenzene		3.68	ug/L	0.20	92	70	130	7.3	40	
Hexachlorocyclopentadiene		3.90	ug/L	0.20	98	70	130	20	40	
Methoxychlor		4.24	ug/L	0.20	106	70	130	9.4	40	
Metolachlor		4.28	ug/L	0.20	107	70	130	15	40	
Metribuzin		4.52	ug/L	0.20	113	70	130	9.3	40	
Propachlor		5.46	ug/L	0.20	137	70	130	18	40	S
Simazine		6.86	ug/L	0.20	171	70	130	13	40	S
Surr: 1,3-Dimethyl-2-nitrobenzene				0.20	102	70	130			
Surr: Perylene-d12				0.20	105	70	130			
Surr: Pyrene-d10				0.20	104	70	130			
Surr: Triphenylphosphate				0.20	111	70	130			
Lab ID: MB-149933 11 Method Blank Run: SVSATURN2_201028A 10/28/20 18:06										
Aroclor 1016		ND	ug/L	0.080						
Aroclor 1221		ND	ug/L	2.0						
Aroclor 1232		ND	ug/L	0.50						
Aroclor 1242		ND	ug/L	0.30						
Aroclor 1248		ND	ug/L	0.10						
Aroclor 1254		ND	ug/L	0.10						
Aroclor 1260		ND	ug/L	0.20						
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	96	70	130			
Surr: Perylene-d12				0.10	112	70	130			
Surr: Pyrene-d10				0.10	105	70	130			
Surr: Triphenylphosphate				0.10	111	70	130			
Lab ID: Ar1660-149933 6 Laboratory Control Sample Run: SVSATURN2_201028A 10/28/20 20:02										
Aroclor 1016		1.57	ug/L	0.080	78	70	130			
Aroclor 1260		1.73	ug/L	0.20	87	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	103	70	130			
Surr: Perylene-d12				0.10	120	70	130			
Surr: Pyrene-d10				0.10	109	70	130			
Surr: Triphenylphosphate				0.10	107	70	130			

Qualifiers:

RL - Analyte Reporting Limit

S - Spike recovery outside of advisory limits

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/30/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2								Analytical Run: R351111		
Lab ID: 525_CCV_5	23 Continuing Calibration Verification Standard								10/28/20 14:53	
Alachlor		1.86	ug/L	0.10	93	70	130			
Aldrin		1.88	ug/L	0.10	94	70	130			
Atrazine		1.80	ug/L	0.10	90	70	130			
Benzo(a)pyrene		2.36	ug/L	0.10	118	70	130			
bis(2-ethylhexyl)Adipate		1.86	ug/L	0.50	93	70	130			
bis(2-ethylhexyl)Phthalate		2.04	ug/L	0.60	102	70	130			
Butachlor		1.97	ug/L	0.10	99	70	130			
Dieldrin		1.90	ug/L	0.10	95	70	130			
Endrin		1.74	ug/L	0.10	87	70	130			
gamma-BHC (Lindane)		1.60	ug/L	0.10	80	70	130			
Heptachlor		1.80	ug/L	0.10	90	70	130			
Heptachlor epoxide		1.80	ug/L	0.10	90	70	130			
Hexachlorobenzene		2.10	ug/L	0.10	105	70	130			
Hexachlorocyclopentadiene		2.05	ug/L	0.10	102	70	130			
Methoxychlor		2.05	ug/L	0.10	102	70	130			
Metolachlor		1.75	ug/L	0.10	88	70	130			
Metribuzin		1.76	ug/L	0.10	88	70	130			
Propachlor		2.12	ug/L	0.10	106	70	130			
Simazine		2.12	ug/L	0.10	106	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	95	70	130			
Surr: Perylene-d12				0.10	115	70	130			
Surr: Pyrene-d10				0.10	97	70	130			
Surr: Triphenylphosphate				0.10	109	70	130			
Lab ID: CLD_CCV_5	5 Continuing Calibration Verification Standard								10/28/20 16:10	
Chlordane		18.4	ug/L	1.0	92	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	97	70	130			
Surr: Perylene-d12				0.10	121	70	130			
Surr: Pyrene-d10				0.10	102	70	130			
Surr: Triphenylphosphate				0.10	95	70	130			
Lab ID: TOX_CCV_5	5 Continuing Calibration Verification Standard								10/28/20 16:48	
Toxaphene		40.3	ug/L	2.0	101	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	103	70	130			
Surr: Perylene-d12				0.10	121	70	130			
Surr: Pyrene-d10				0.10	112	70	130			
Surr: Triphenylphosphate				0.10	104	70	130			
Lab ID: Ar1660_CCV_5	6 Continuing Calibration Verification Standard								10/28/20 15:32	
Aroclor 1016		1.47	ug/L	0.080	92	70	130			
Aroclor 1260		3.75	ug/L	0.20	94	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	93	70	130			
Surr: Perylene-d12				0.10	112	70	130			
Surr: Pyrene-d10				0.10	100	70	130			
Surr: Triphenylphosphate				0.10	99	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/29/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E531.1										Analytical Run: HPLC-2030C-01_201027A	
Lab ID: LCS	11 Initial Calibration Verification Standard									10/27/20 14:34	
Aldicarb		7.1	ug/L	1.0	89	80	120				
Aldicarb sulfone		7.1	ug/L	1.0	89	80	120				
Aldicarb sulfoxide		7.7	ug/L	1.0	97	80	120				
Carbaryl		7.2	ug/L	1.0	90	80	120				
3-Hydroxycarbofuran		7.9	ug/L	1.0	98	80	120				
Carbofuran		7.7	ug/L	1.0	96	80	120				
Methiocarb		7.5	ug/L	1.0	93	80	120				
Methomyl		7.7	ug/L	1.0	96	80	120				
Oxamyl		7.5	ug/L	1.0	94	80	120				
Baygon		7.7	ug/L	1.0	96	80	120				
Surr: BDMC				1.0	95	70	130				
Lab ID: CCV	11 Continuing Calibration Verification Standard									10/27/20 15:15	
Aldicarb		9.6	ug/L	1.0	96	80	120				
Aldicarb sulfone		9.7	ug/L	1.0	97	80	120				
Aldicarb sulfoxide		9.6	ug/L	1.0	97	80	120				
Carbaryl		9.7	ug/L	1.0	97	80	120				
3-Hydroxycarbofuran		9.7	ug/L	1.0	97	80	120				
Carbofuran		9.6	ug/L	1.0	96	80	120				
Methiocarb		9.7	ug/L	1.0	97	80	120				
Methomyl		9.5	ug/L	1.0	95	80	120				
Oxamyl		9.7	ug/L	1.0	97	80	120				
Baygon		9.7	ug/L	1.0	97	80	120				
Surr: BDMC				1.0	97	70	130				
Method: E531.1										Batch: R264081	
Lab ID: MBLK	11 Method Blank									Run: HPLC-2030C-01_201027A 10/27/20 13:52	
Aldicarb		ND	ug/L	0.2							
Aldicarb sulfone		ND	ug/L	0.3							
Aldicarb sulfoxide		ND	ug/L	0.2							
Carbaryl		ND	ug/L	0.1							
3-Hydroxycarbofuran		ND	ug/L	0.2							
Carbofuran		ND	ug/L	0.2							
Methiocarb		ND	ug/L	0.4							
Methomyl		ND	ug/L	0.1							
Oxamyl		ND	ug/L	0.3							
Baygon		ND	ug/L	0.2							
Surr: BDMC					103	70	130				
Lab ID: B20101705-003HMS	11 Sample Matrix Spike									Run: HPLC-2030C-01_201027A 10/27/20 16:39	
Aldicarb		7.5	ug/L	1.0	93	65	135				
Aldicarb sulfone		7.3	ug/L	1.0	91	65	135				
Aldicarb sulfoxide		8.0	ug/L	1.0	100	65	135				
Carbaryl		7.4	ug/L	1.0	92	65	135				
3-Hydroxycarbofuran		8.1	ug/L	1.0	101	65	135				
Carbofuran		7.8	ug/L	1.0	98	65	135				

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Lehrkinds Big Spring

Work Order: B20101705

Report Date: 10/29/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E531.1 Batch: R264081										
Lab ID: B20101705-003HMS 11 Sample Matrix Spike Run: HPLC-2030C-01_201027A 10/27/20 16:39										
Methiocarb		7.7	ug/L	1.0	96	65	135			
Methomyl		7.9	ug/L	1.0	98	65	135			
Oxamyl		7.7	ug/L	1.0	96	65	135			
Baygon		7.8	ug/L	1.0	98	65	135			
Surr: BDMC				1.0	97	70	130			
Lab ID: B20101705-003HMSD 11 Sample Matrix Spike Duplicate Run: HPLC-2030C-01_201027A 10/27/20 17:20										
Aldicarb		7.1	ug/L	1.0	89	65	135	5.1	20	
Aldicarb sulfone		7.0	ug/L	1.0	87	65	135	4.5	20	
Aldicarb sulfoxide		7.6	ug/L	1.0	95	65	135	4.5	20	
Carbaryl		7.1	ug/L	1.0	88	65	135	4.8	20	
3-Hydroxycarbofuran		7.7	ug/L	1.0	96	65	135	4.7	20	
Carbofuran		7.5	ug/L	1.0	94	65	135	4.4	20	
Methiocarb		7.3	ug/L	1.0	91	65	135	4.9	20	
Methomyl		7.5	ug/L	1.0	94	65	135	4.8	20	
Oxamyl		7.4	ug/L	1.0	92	65	135	4.3	20	
Baygon		7.5	ug/L	1.0	94	65	135	4.5	20	
Surr: BDMC				1.0	92	70	130	0.0	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Work Order Receipt Checklist

Lehrkinds Big Spring

B20101705

Login completed by: Taylor K. Burris

Date Received: 10/21/2020

Reviewed by: BL2000\gmccartney

Received by: tkb

Reviewed Date: 10/23/2020

Carrier name: Return-UPS Ground

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	°C On Ice		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

The Temperature Blank temperature for shipping container 1 was 1.0°C, shipping container 2 was 0.7°C, and shipping container 3 was 1.4°C.

Total Metals was requested on the Chain of Custody. A metals list was not provided. Analyze per client history.

All analyses for sample Big Spring 4-1 Gal Plastic were sub-sampled and preserved in lab. In accordance with the Safe Drinking Water Act, the Metals sample must be held 24 hours prior to analysis.

Sample collection date and time starts at the time of subsampling and preservation per Darcy Chirick, Energy Laboratory Project Manager. The sample Big Spring 4-1 Gal Plastic was subsampled and preserved on 10/21/2020 at 13:00.



Trust our People. Trust our Data.

Chain of Custody & Analytical Request Record

www.energylab.com

Account Information (Billing Information)

Company/Name Lehighville Fire
 Contact Rea Sising
 Phone (406) 586-2009
 Mailing Address 1715 N. Rouse
 City, State Zip Bozeman MT 59715
 Email rsising@lehighville.com
 Receive Invoice Hard Copy Email
 Purchase Order 8294 Quote 146749
 Bottle Order 146749

Report Information (if different than Account Information)

Company/Name Lehighville Big Spring Water
 Contact Don Estes
 Phone (406) 539-3433
 Mailing Address 201 1st Ave No
 City, State Zip Leavistown MT 59457
 Email ltownprod@lehighville.com
 Receive Report Hard Copy Email

Comments

Special Report/Formats
 LEVEL IV NELAC EDD/EDT (contact laboratory) Other

Project Information

Project Name, PWSID, Permit, etc. Lehighville Big Spring 001229
 Sampler Name Don Estes Sample # 346-2161
 Sample Origin State MT EPA/State Compliance Yes No
 URANIUM MINING CLIENTS MUST indicate sample type.
 NOT Source or Byproduct Material
 Source/Processed Ore (Ground or Refined) **CALL BEFORE SENDING
 11e (2) Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes

A. Air
 W. Water
 S. Soils
 V. Vegetation
 B. Bioassay
 O. Other
 DW. Drinking Water

Analysis Requested

AS540c STD	X									
A2308 Turbidity	X									
A4500-TC	X									
A4500-TC	X									
A4500-TC	X									
A4500-TC	X									

All turnaround times are standard unless marked as RUSH
 Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

Sample Identification

Sample Identification (Name, Location, Interval, etc.)	Collection		Matrix (See Code Appendix)	Number of Containers
	Date	Time		
1 500ml Spirit by Distilled	10-20-20	1:30pm	DW	1
2 1 Liter Plastic	10-20-20	1:30pm	DW	1
3 250ml Plastic	10-20-20	1:30pm	DW	1
4 250ml Plastic	10-20-20	1:30pm	DW	2
5 2-1 Liter Amber Glass	10-20-20	1:30pm	W	1
6 Distilled Water Holding Tank	10-20-20	1:35pm	W	1
7 1 Liter Plastic	10-20-20	1:35pm	W	1
8 250ml Plastic	10-20-20	1:35pm	W	1
9 250ml Plastic	10-20-20	1:35pm	W	2
10 2-1 Liter Amber Glass	10-20-20	1:35pm	W	2

RUSH	TAT	ELI LAB ID Laboratory Use Only
		B20101705-001
		-001
		-001
		-001
		-001
		-001
		-002
		-002
		-002

Received by (print) Timothy Brown Date/Time 10/20/20 11:30am
 Received by (print) Timothy Brown Date/Time 10/21/20 09:20
 Signature [Signature]
 Signature [Signature]

Custody Record MUST be signed	Relinquished by (print)			Relinquished by (print)		
	Don Estes	Don Estes	Don Estes	Don Estes	Don Estes	Don Estes
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						

LABORATORY USE ONLY
 Payment Type Cash Check
 Amount \$
 Receipt Number (cash/check only)

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.



Chain of Custody & Analytical Request Record

www.energylab.com

Account Information (Billing information)

Company/Name: Lehigh Valley Energy
 Contact: Don Cates
 Phone: (406) 586-2029
 Mailing Address: 1715 Rowan
 City, State Zip: Bozeman MT 59715
 Email: cs.cates@lehighvalley.com

Receive Invoice Hard Copy Email Hard Copy Email Hard Copy Email Hard Copy Email

Purchase Order: 8294 Quote: 146749 Bottle Order: 146749

Report Information (if different than Account Information)

Company/Name: Lehigh Valley Energy
 Contact: Don Cates
 Phone: (406) 538-3433
 Mailing Address: 201 1st Ave No
 City, State, Zip: Lehigh Valley PA 18001
 Email: LTown@lehighvalley.com

Receive Report Hard Copy Email

Special Report Formats: LEVEL IV NELAC EDD/EDT (contact laboratory) Other

Project Information

Project Name: PWSID, Permit, etc. Lehigh Valley Energy 001229
 Sampler Name: Don Cates Sample # 366-2161
 Sample Origin State: PA EPA/State Compliance Yes No

URANIUM MINING CLIENTS MUST indicate sample type.
 NOT Source or Byproduct Material
 Source/Processed Ore (Ground or Refined) **CALL BEFORE SENDING
 11a (2) Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Sample Identification (Name, Location, Interval, etc.)	Collection		Matrix Codes (See Codes Abbrev)	Number of Containers	Analysis Requested	Date/Time	Received by (print)	Date/Time	Signature
	Date	Time							
1 1 gal Fill Line	10-20-20	11:30 AM	W	2	D S V B O DW				
2 1 gal Plastic	10-19-20		W	2	D S V B O DW				
4 Distilled Water									
5									
6									
7									
8									
9									
10									

All turnaround times are standard unless marked as RUSH
 Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

ELI LAB ID Laboratory Use Only
 B20101705-004

LABORATORY USE ONLY

Custody Record MUST be signed by (print): Don Cates Signature: [Signature]
 Relinquished by (print): Don Cates Signature: [Signature]

Shipped By: Don Cates Cooler ID(s): Y N C B Intact: Y N Receipt Temp: 11:30 AM °C
 Payment Type: Cash Amount: \$ Receipt Number (cash/check only):