



ANALYTICAL SUMMARY REPORT

December 06, 2019

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

Work Order: B19111917
Project Name: PWS MT0001229

Energy Laboratories Inc Billings MT received the following 3 samples for Lehrkinds Big Spring on 11/21/2019 for analysis.

| Lab ID | Client Sample ID | Collect Date | Receive Date | Matrix | Test |
|---------------|------------------|----------------|--------------|----------------|---|
| B19111917-001 | Spring | 11/21/19 11:45 | 11/21/19 | Drinking Water | Metals by ICP/ICPMS, Drinking Water Alkalinity Color Mercury, Drinking Water 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 Mercury Digestion by E245.1 Preparation for TDS A2540 C 531-Pesticides, Carbamates SDWA Solids, Total Dissolved Semi-Volatile Organic Compounds E525.2 Extraction 525-Semi-Volatile Organic Compounds, MT List Turbidity 524-Purgeable Organics, SDWA |
| B19111917-002 | Distilled | 11/21/19 12:05 | 11/21/19 | Drinking Water | Metals by ICP/ICPMS, Drinking Water Alkalinity Color Mercury, Drinking Water Chloride Sulfate/Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite Odor pH Metals Digestion by E200.2 Mercury Digestion by E245.1 Preparation for TDS A2540 C Solids, Total Dissolved Turbidity |
| B19111917-003 | Source | 11/20/19 13:45 | 11/21/19 | Drinking Water | Same As Above |

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.



ANALYTICAL SUMMARY REPORT

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

Report Approved By:



CLIENT: Lehrkinds Big Spring
Project: PWS MT0001229
Work Order: B19111917

Report Date: 12/06/19

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: Spring
PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER
Facility ID: TP001
Sampling Point/Location: EP502 / Spring
Project ID: PWS MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

Lab ID: B19111917-001
Report Date: 12/06/19
Collection Date: 11/21/19 11:45
Date Received: 11/21/19
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 | 11/21/19 16:06 / pjw |
| pH Measurement Temp | 20 | C | | | | A4500-H B | 11/21/19 16:06 / pjw |
| 1905 Color | ND | c.u. | | 5 | | A2120 B | 11/22/19 08:35 / mrc |
| 1920 Odor | 2 | T.O.N. | | | | A2150 B | 11/22/19 09:59 / pjw |
| Odor Measurement Temp | 59 | °C | | | | A2150 B | 11/22/19 09:59 / pjw |
| pH at Time of Color Analysis | 7.8 | s.u. | | 0.1 | | A2120 B | 11/22/19 08:35 / mrc |
| 0100 Turbidity | 0.1 | NTU | | 0.1 | | A2130 B | 11/21/19 16:27 / pjw |
| 1930 Solids, Total Dissolved TDS @ 180 C | 300 | mg/L | | 10 | | A2540 C | 11/22/19 08:16 / drm |
| INORGANICS | | | | | | | |
| 1927 Alkalinity, Total as CaCO3 | 160 | mg/L | | 4 | | A2320 B | 11/21/19 17:59 / jpv |
| 1928 Bicarbonate as HCO3 | 195 | mg/L | | 4 | | A2320 B | 11/21/19 17:59 / jpv |
| 1929 Carbonate as CO3 | ND | mg/L | | 4 | | A2320 B | 11/21/19 17:59 / jpv |
| 1017 Chloride | 1 | mg/L | | 1 | | E300.0 | 11/23/19 14:30 / mrc |
| 1055 Sulfate | 86 | mg/L | | 1 | | E300.0 | 11/23/19 14:30 / mrc |
| 1025 Fluoride | 0.6 | mg/L | | 0.2 | | E300.0 | 11/23/19 14:30 / mrc |
| NUTRIENTS | | | | | | | |
| 1038 Nitrogen, Nitrate+Nitrite as N | 0.19 | mg/L | | 0.01 | 10 | E353.2 | 11/26/19 14:44 / srh |
| METALS, TOTAL | | | | | | | |
| 1002 Aluminum | ND | mg/L | | 0.03 | | E200.7 | 11/26/19 16:04 / rh |
| 1074 Antimony | ND | mg/L | | 0.001 | 0.006 | E200.8 | 11/27/19 23:31 / pap |
| 1005 Arsenic | ND | mg/L | | 0.001 | 0.01 | E200.8 | 11/27/19 23:31 / pap |
| 1010 Barium | ND | mg/L | | 0.05 | 2 | E200.7 | 11/26/19 16:04 / rh |
| 1075 Beryllium | ND | mg/L | | 0.001 | 0.004 | E200.7 | 11/26/19 16:04 / rh |
| 1079 Boron | ND | mg/L | | 0.05 | | E200.7 | 11/26/19 16:04 / rh |
| 1015 Cadmium | ND | mg/L | | 0.001 | 0.005 | E200.8 | 11/27/19 23:31 / pap |
| 1016 Calcium | 70 | mg/L | | 1 | | E200.7 | 11/26/19 16:04 / rh |
| 1020 Chromium | ND | mg/L | | 0.005 | 0.1 | E200.8 | 11/27/19 23:31 / pap |
| 1022 Copper | ND | mg/L | | 0.005 | 1.3 | E200.7 | 11/26/19 16:04 / rh |
| 1028 Iron | ND | mg/L | | 0.02 | | E200.7 | 11/26/19 16:04 / rh |
| 1030 Lead | ND | mg/L | | 0.001 | 0.015 | E200.8 | 11/27/19 23:31 / pap |
| 1083 Lithium | ND | mg/L | | 0.1 | | E200.7 | 11/26/19 16:04 / rh |
| 1031 Magnesium | 20 | mg/L | | 1 | | E200.7 | 11/26/19 16:04 / rh |
| 1032 Manganese | ND | mg/L | | 0.001 | | E200.8 | 11/27/19 23:31 / pap |

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control limit.

H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.

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Client: Lehrkinds Big Spring
Client Sample ID: Spring
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Project ID: PWS MT0001229
Collector's Name: Don Cates
Compliance Sample: YES

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Report Date: 12/06/19
Collection Date: 11/21/19 11:45
Date Received: 11/21/19
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 | E245.1 | 11/27/19 12:22 / jag |
| 1036 Nickel | ND | mg/L | | 0.01 | | E200.7 | 11/26/19 16:04 / rih |
| 1042 Potassium | ND | mg/L | | 1 | | E200.7 | 11/26/19 16:04 / rih |
| 1045 Selenium | ND | mg/L | | 0.001 | 0.05 | E200.8 | 11/27/19 23:31 / pap |
| 1049 Silica | 6.3 | mg/L | | 0.2 | | E200.7 | 11/26/19 16:04 / rih |
| SILI Silicon | 2.9 | mg/L | | 0.1 | | E200.7 | 11/26/19 16:04 / rih |
| 1052 Sodium | 2 | mg/L | | 1 | | E200.7 | 11/26/19 16:04 / rih |
| 1051 Strontium | 0.66 | mg/L | | 0.01 | | E200.7 | 11/26/19 16:04 / rih |
| 1085 Thallium | ND | mg/L | | 0.0005 | 0.002 | E200.8 | 11/27/19 23:31 / pap |
| 1087 Titanium | ND | mg/L | | 0.005 | | E200.8 | 11/27/19 23:31 / pap |
| 1088 Vanadium | ND | mg/L | | 0.01 | | E200.8 | 11/27/19 23:31 / pap |
| 1095 Zinc | ND | mg/L | | 0.01 | | E200.7 | 11/26/19 16:04 / rih |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| 2990 Benzene | ND | ug/L | | 0.50 | 5 | E524.2 | 11/21/19 18:39 / jdb |
| 2993 Bromobenzene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2430 Bromochloromethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2943 Bromodichloromethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2942 Bromoform | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2214 Bromomethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2422 n-Butylbenzene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2428 sec-Butylbenzene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2426 tert-Butylbenzene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2982 Carbon tetrachloride | ND | ug/L | | 0.50 | 5 | E524.2 | 11/21/19 18:39 / jdb |
| 2989 Chlorobenzene | ND | ug/L | | 0.50 | 100 | E524.2 | 11/21/19 18:39 / jdb |
| 2944 Chlorodibromomethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2216 Chloroethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2941 Chloroform | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2210 Chloromethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2965 2-Chlorotoluene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2966 4-Chlorotoluene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2931 1,2-Dibromo-3-chloropropane | ND | ug/L | | 1.0 | 0.2 | E524.2 | 11/21/19 18:39 / jdb |
| 2408 Dibromomethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2968 1,2-Dichlorobenzene | ND | ug/L | | 0.50 | 600 | E524.2 | 11/21/19 18:39 / jdb |
| 2967 1,3-Dichlorobenzene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2969 1,4-Dichlorobenzene | ND | ug/L | | 0.50 | 75 | E524.2 | 11/21/19 18:39 / jdb |

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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 | 11/21/19 18:39 / jdb |
| 2978 1,1-Dichloroethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2980 1,2-Dichloroethane | ND | ug/L | | 0.50 | 5 | E524.2 | 11/21/19 18:39 / jdb |
| 2946 1,2-Dibromoethane | ND | ug/L | | 0.50 | 0.05 | E524.2 | 11/21/19 18:39 / jdb |
| 2977 1,1-Dichloroethene | ND | ug/L | | 0.50 | 7 | E524.2 | 11/21/19 18:39 / jdb |
| 2380 cis-1,2-Dichloroethene | ND | ug/L | | 0.50 | 70 | E524.2 | 11/21/19 18:39 / jdb |
| 2979 trans-1,2-Dichloroethene | ND | ug/L | | 0.50 | 100 | E524.2 | 11/21/19 18:39 / jdb |
| 2983 1,2-Dichloropropane | ND | ug/L | | 0.50 | 5 | E524.2 | 11/21/19 18:39 / jdb |
| 2412 1,3-Dichloropropane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2416 2,2-Dichloropropane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2410 1,1-Dichloropropene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2413 cis-1,3-Dichloropropene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2224 trans-1,3-Dichloropropene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2992 Ethylbenzene | ND | ug/L | | 0.50 | 700 | E524.2 | 11/21/19 18:39 / jdb |
| 2246 Hexachlorobutadiene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2994 Isopropylbenzene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2030 p-Isopropyltoluene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2251 Methyl tert-butyl ether (MTBE) | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2964 Methylene chloride | ND | ug/L | | 0.50 | 5 | E524.2 | 11/21/19 18:39 / jdb |
| 2248 Naphthalene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2998 n-Propylbenzene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2996 Styrene | ND | ug/L | | 0.50 | 100 | E524.2 | 11/21/19 18:39 / jdb |
| 2986 1,1,1,2-Tetrachloroethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2988 1,1,2,2-Tetrachloroethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2987 Tetrachloroethene | ND | ug/L | | 0.50 | 5 | E524.2 | 11/21/19 18:39 / jdb |
| 2991 Toluene | ND | ug/L | | 0.50 | 1000 | E524.2 | 11/21/19 18:39 / jdb |
| 2420 1,2,3-Trichlorobenzene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2378 1,2,4-Trichlorobenzene | ND | ug/L | | 0.50 | 70 | E524.2 | 11/21/19 18:39 / jdb |
| 2981 1,1,1-Trichloroethane | ND | ug/L | | 0.50 | 200 | E524.2 | 11/21/19 18:39 / jdb |
| 2985 1,1,2-Trichloroethane | ND | ug/L | | 0.50 | 5 | E524.2 | 11/21/19 18:39 / jdb |
| 2984 Trichloroethene | ND | ug/L | | 0.50 | 5 | E524.2 | 11/21/19 18:39 / jdb |
| 2218 Trichlorofluoromethane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2414 1,2,3-Trichloropropane | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2950 Trihalomethanes, Total | ND | ug/L | | 0.50 | 80 | E524.2 | 11/21/19 18:39 / jdb |
| 2418 1,2,4-Trimethylbenzene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2424 1,3,5-Trimethylbenzene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |

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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 | 11/21/19 18:39 / jdb |
| 2963 m+p-Xylenes | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2997 o-Xylene | ND | ug/L | | 0.50 | | E524.2 | 11/21/19 18:39 / jdb |
| 2955 Xylenes, Total | ND | ug/L | | 0.50 | 10000 | E524.2 | 11/21/19 18:39 / jdb |
| Surr: p-Bromofluorobenzene | 118 | %REC | | | 70-130 | E524.2 | 11/21/19 18:39 / jdb |
| Surr: 1,2-Dichloroethane-d4 | 90.0 | %REC | | | 70-130 | E524.2 | 11/21/19 18:39 / jdb |
| Surr: Toluene-d8 | 108 | %REC | | | 70-130 | E524.2 | 11/21/19 18:39 / jdb |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| 2051 Alachlor | ND | ug/L | | 0.10 | 2 | E525.2 | 11/26/19 21:43 / jlb |
| 2356 Aldrin | ND | ug/L | | 0.10 | | E525.2 | 11/26/19 21:43 / jlb |
| 2050 Atrazine | ND | ug/L | | 0.10 | 3 | E525.2 | 11/26/19 21:43 / jlb |
| 2306 Benzo(a)pyrene | ND | ug/L | | 0.10 | 0.2 | E525.2 | 11/26/19 21:43 / jlb |
| 2076 Butachlor | ND | ug/L | | 0.10 | | E525.2 | 11/26/19 21:43 / jlb |
| 2959 Chlordane | ND | ug/L | | 1.0 | 2 | E525.2 | 11/26/19 21:43 / jlb |
| 2035 di(2-ethylhexyl)Adipate | ND | ug/L | | 0.50 | 400 | E525.2 | 11/26/19 21:43 / jlb |
| 2039 di(2-ethylhexyl)Phthalate | ND | ug/L | | 2.0 | 6 | E525.2 | 11/26/19 21:43 / jlb |
| 2070 Dieldrin | ND | ug/L | | 0.10 | | E525.2 | 11/26/19 21:43 / jlb |
| 2005 Endrin | ND | ug/L | | 0.10 | 2 | E525.2 | 11/26/19 21:43 / jlb |
| 2010 gamma-BHC (Lindane) | ND | ug/L | | 0.10 | 0.2 | E525.2 | 11/26/19 21:43 / jlb |
| 2065 Heptachlor | ND | ug/L | | 0.10 | 0.4 | E525.2 | 11/26/19 21:43 / jlb |
| 2067 Heptachlor epoxide | ND | ug/L | | 0.10 | 0.2 | E525.2 | 11/26/19 21:43 / jlb |
| 2274 Hexachlorobenzene | ND | ug/L | | 0.10 | 1 | E525.2 | 11/26/19 21:43 / jlb |
| 2042 Hexachlorocyclopentadiene | ND | ug/L | | 0.10 | 50 | E525.2 | 11/26/19 21:43 / jlb |
| 2015 Methoxychlor | ND | ug/L | | 0.10 | 40 | E525.2 | 11/26/19 21:43 / jlb |
| 2045 Metolachlor | ND | ug/L | | 0.10 | | E525.2 | 11/26/19 21:43 / jlb |
| 2595 Metribuzin | ND | ug/L | | 0.10 | | E525.2 | 11/26/19 21:43 / jlb |
| 2077 Propachlor | ND | ug/L | | 0.10 | | E525.2 | 11/26/19 21:43 / jlb |
| 2037 Simazine | ND | ug/L | | 0.10 | 4 | E525.2 | 11/26/19 21:43 / jlb |
| 2020 Toxaphene | ND | ug/L | | 2.0 | 3 | E525.2 | 11/26/19 21:43 / jlb |
| Surr: 1,3-Dimethyl-2-nitrobenzene | 98.0 | %REC | | | 70-130 | E525.2 | 11/26/19 21:43 / jlb |
| Surr: Perylene-d12 | 97.0 | %REC | | | 70-130 | E525.2 | 11/26/19 21:43 / jlb |
| Surr: Pyrene-d10 | 86.0 | %REC | | | 70-130 | E525.2 | 11/26/19 21:43 / jlb |
| Surr: Triphenylphosphate | 111 | %REC | | | 70-130 | E525.2 | 11/26/19 21:43 / jlb |

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Compliance Sample: YES

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Sample Type: RT

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|-------------------------------------|--------|-------|------|------|--------|--------|-------------------------|
| | | | | RL | QCL | | |
| PESTICIDES, BY HPLC | | | | | | | |
| 2047 Aldicarb | ND | ug/L | | 1.0 | 3 | E531.1 | 11/25/19 21:25 / eli-ca |
| 2044 Aldicarb sulfone | ND | ug/L | | 1.0 | 2 | E531.1 | 11/25/19 21:25 / eli-ca |
| 2043 Aldicarb sulfoxide | ND | ug/L | | 1.0 | 4 | E531.1 | 11/25/19 21:25 / eli-ca |
| 2021 Carbaryl | ND | ug/L | | 1.0 | | E531.1 | 11/25/19 21:25 / eli-ca |
| 2066 3-Hydroxycarbofuran | ND | ug/L | | 1.0 | | E531.1 | 11/25/19 21:25 / eli-ca |
| 2046 Carbofuran | ND | ug/L | | 1.0 | 40 | E531.1 | 11/25/19 21:25 / eli-ca |
| 2024 Methiocarb | ND | ug/L | | 1.0 | | E531.1 | 11/25/19 21:25 / eli-ca |
| 2022 Methomyl | ND | ug/L | | 1.0 | | E531.1 | 11/25/19 21:25 / eli-ca |
| 2036 Oxamyl | ND | ug/L | | 1.0 | 200 | E531.1 | 11/25/19 21:25 / eli-ca |
| Baygon | ND | ug/L | | 1.0 | | E531.1 | 11/25/19 21:25 / eli-ca |
| Surr: BDMC | 97.0 | %REC | | | 70-130 | E531.1 | 11/25/19 21:25 / eli-ca |
| HERBICIDES | | | | | | | |
| 2110 2,4,5-TP (Silvex) | ND | ug/L | | 0.25 | 50 | E515.4 | 11/26/19 06:29 / jmh |
| 2105 2,4-D | ND | ug/L | | 1.0 | 70 | E515.4 | 11/26/19 06:29 / jmh |
| 2106 2,4-DB | ND | ug/L | | 1.0 | | E515.4 | 11/26/19 07:04 / jmh |
| 2031 Dalapon | ND | ug/L | | 2.5 | 200 | E515.4 | 11/26/19 06:29 / jmh |
| 2440 Dicamba | ND | ug/L | | 1.0 | | E515.4 | 11/26/19 06:29 / jmh |
| 2206 Dichlorprop | ND | ug/L | | 1.0 | | E515.4 | 11/26/19 06:29 / jmh |
| 2041 Dinoseb | ND | ug/L | | 1.0 | 7 | E515.4 | 11/26/19 07:04 / jmh |
| 2326 Pentachlorophenol | ND | ug/L | | 0.10 | 1 | E515.4 | 11/26/19 06:29 / jmh |
| 2040 Picloram | ND | ug/L | | 0.50 | 500 | E515.4 | 11/26/19 06:29 / jmh |
| Surr: 2,4-Dichlorophenylacetic acid | 106 | %REC | | | 70-130 | E515.4 | 11/26/19 06:29 / jmh |

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

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

Lab ID: B19111917-002
Report Date: 12/06/19
Collection Date: 11/21/19 12:05
Date Received: 11/21/19
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 | 5.8 | s.u. | H | 0.1 | | A4500-H B | 11/21/19 16:09 / pjw |
| pH Measurement Temp | 20 | C | | | | A4500-H B | 11/21/19 16:09 / pjw |
| 1905 Color | ND | c.u. | | 5 | | A2120 B | 11/22/19 08:35 / mrc |
| 1920 Odor | 2 | T.O.N. | | | | A2150 B | 11/22/19 10:11 / pjw |
| Odor Measurement Temp | 60 | °C | | | | A2150 B | 11/22/19 10:11 / pjw |
| pH at Time of Color Analysis | 8.2 | s.u. | | 0.1 | | A2120 B | 11/22/19 08:35 / mrc |
| 0100 Turbidity | 0.2 | NTU | | 0.1 | | A2130 B | 11/21/19 16:30 / pjw |
| 1930 Solids, Total Dissolved TDS @ 180 C | ND | mg/L | | 10 | | A2540 C | 11/22/19 08:16 / drm |
| INORGANICS | | | | | | | |
| 1927 Alkalinity, Total as CaCO3 | ND | mg/L | | 4 | | A2320 B | 11/21/19 18:06 / jpv |
| 1928 Bicarbonate as HCO3 | ND | mg/L | | 4 | | A2320 B | 11/21/19 18:06 / jpv |
| 1929 Carbonate as CO3 | ND | mg/L | | 4 | | A2320 B | 11/21/19 18:06 / jpv |
| 1017 Chloride | ND | mg/L | | 1 | | E300.0 | 11/23/19 14:46 / mrc |
| 1055 Sulfate | ND | mg/L | | 1 | | E300.0 | 11/23/19 14:46 / mrc |
| 1025 Fluoride | ND | mg/L | | 0.2 | | E300.0 | 11/23/19 14:46 / mrc |
| NUTRIENTS | | | | | | | |
| 1038 Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.01 | 10 | E353.2 | 11/26/19 14:52 / srh |
| METALS, TOTAL | | | | | | | |
| 1002 Aluminum | ND | mg/L | | 0.03 | | E200.7 | 11/26/19 16:28 / rh |
| 1074 Antimony | ND | mg/L | | 0.001 | 0.006 | E200.8 | 12/02/19 19:00 / pap |
| 1005 Arsenic | ND | mg/L | | 0.001 | 0.01 | E200.8 | 12/02/19 19:00 / pap |
| 1010 Barium | ND | mg/L | | 0.05 | 2 | E200.7 | 11/26/19 16:28 / rh |
| 1075 Beryllium | ND | mg/L | | 0.001 | 0.004 | E200.7 | 11/26/19 16:28 / rh |
| 1079 Boron | ND | mg/L | | 0.05 | | E200.7 | 11/26/19 16:28 / rh |
| 1015 Cadmium | ND | mg/L | | 0.001 | 0.005 | E200.8 | 11/27/19 23:53 / pap |
| 1016 Calcium | ND | mg/L | | 1 | | E200.7 | 11/26/19 16:28 / rh |
| 1020 Chromium | ND | mg/L | | 0.005 | 0.1 | E200.8 | 12/02/19 19:00 / pap |
| 1022 Copper | ND | mg/L | | 0.005 | 1.3 | E200.7 | 11/26/19 16:28 / rh |
| 1028 Iron | ND | mg/L | | 0.02 | | E200.7 | 11/26/19 16:28 / rh |
| 1030 Lead | ND | mg/L | | 0.001 | 0.015 | E200.8 | 11/27/19 23:53 / pap |
| 1083 Lithium | ND | mg/L | | 0.1 | | E200.7 | 11/26/19 16:28 / rh |
| 1031 Magnesium | ND | mg/L | | 1 | | E200.7 | 11/26/19 16:28 / rh |
| 1032 Manganese | ND | mg/L | | 0.001 | | E200.8 | 11/27/19 23:53 / pap |

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control limit.

H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

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

Lab ID: B19111917-002
Report Date: 12/06/19
Collection Date: 11/21/19 12:05
Date Received: 11/21/19
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 | E245.1 | 11/27/19 12:24 / jag |
| 1036 Nickel | ND | mg/L | | 0.01 | | E200.7 | 11/26/19 16:28 / rih |
| 1042 Potassium | ND | mg/L | | 1 | | E200.7 | 11/26/19 16:28 / rih |
| 1045 Selenium | ND | mg/L | | 0.001 | 0.05 | E200.8 | 12/02/19 19:00 / pap |
| 1049 Silica | ND | mg/L | | 0.2 | | E200.7 | 11/26/19 16:28 / rih |
| SILI Silicon | ND | mg/L | | 0.1 | | E200.7 | 11/26/19 16:28 / rih |
| 1052 Sodium | ND | mg/L | | 1 | | E200.7 | 11/26/19 16:28 / rih |
| 1051 Strontium | ND | mg/L | | 0.01 | | E200.7 | 11/26/19 16:28 / rih |
| 1085 Thallium | ND | mg/L | | 0.0005 | 0.002 | E200.8 | 11/27/19 23:53 / pap |
| 1087 Titanium | ND | mg/L | | 0.005 | | E200.8 | 12/02/19 19:00 / pap |
| 1088 Vanadium | ND | mg/L | | 0.01 | | E200.8 | 11/27/19 23:53 / pap |
| 1095 Zinc | ND | mg/L | | 0.01 | | E200.7 | 11/26/19 16:28 / rih |

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

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

Lab ID: B19111917-003
Report Date: 12/06/19
Collection Date: 11/20/19 13:45
Date Received: 11/21/19
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 | 11/21/19 16:12 / pjw |
| pH Measurement Temp | 20 | C | | | | A4500-H B | 11/21/19 16:12 / pjw |
| 1905 Color | ND | c.u. | | 5 | | A2120 B | 11/22/19 08:35 / mrc |
| 1920 Odor | 4 | T.O.N. | | | | A2150 B | 11/21/19 10:43 / pjw |
| Odor Measurement Temp | 59 | °C | | | | A2150 B | 11/21/19 10:43 / pjw |
| pH at Time of Color Analysis | 6.9 | s.u. | | 0.1 | | A2120 B | 11/22/19 08:35 / mrc |
| 0100 Turbidity | 0.6 | NTU | | 0.1 | | A2130 B | 11/21/19 16:31 / pjw |
| 1930 Solids, Total Dissolved TDS @ 180 C | 292 | mg/L | | 10 | | A2540 C | 11/22/19 08:16 / drm |
| INORGANICS | | | | | | | |
| 1927 Alkalinity, Total as CaCO3 | 160 | mg/L | | 4 | | A2320 B | 11/21/19 18:09 / jpv |
| 1928 Bicarbonate as HCO3 | 195 | mg/L | | 4 | | A2320 B | 11/21/19 18:09 / jpv |
| 1929 Carbonate as CO3 | ND | mg/L | | 4 | | A2320 B | 11/21/19 18:09 / jpv |
| 1017 Chloride | 1 | mg/L | | 1 | | E300.0 | 11/23/19 15:01 / mrc |
| 1055 Sulfate | 87 | mg/L | | 1 | | E300.0 | 11/23/19 15:01 / mrc |
| 1025 Fluoride | 0.6 | mg/L | | 0.2 | | E300.0 | 11/23/19 15:01 / mrc |
| NUTRIENTS | | | | | | | |
| 1038 Nitrogen, Nitrate+Nitrite as N | 0.19 | mg/L | | 0.01 | 10 | E353.2 | 11/26/19 14:53 / srh |
| METALS, TOTAL | | | | | | | |
| 1002 Aluminum | ND | mg/L | | 0.03 | | E200.8 | 11/24/19 03:05 / aao |
| 1074 Antimony | ND | mg/L | | 0.001 | 0.006 | E200.8 | 12/05/19 20:29 / aao |
| 1005 Arsenic | ND | mg/L | | 0.001 | 0.01 | E200.8 | 11/24/19 03:05 / aao |
| 1010 Barium | ND | mg/L | | 0.05 | 2 | E200.8 | 11/24/19 03:05 / aao |
| 1075 Beryllium | ND | mg/L | | 0.001 | 0.004 | E200.7 | 11/26/19 16:33 / rh |
| 1015 Cadmium | ND | mg/L | | 0.001 | 0.005 | E200.8 | 11/24/19 03:05 / aao |
| 1016 Calcium | 69 | mg/L | | 1 | | E200.7 | 11/26/19 16:33 / rh |
| 1020 Chromium | ND | mg/L | | 0.005 | 0.1 | E200.8 | 11/24/19 03:05 / aao |
| 1022 Copper | 0.015 | mg/L | | 0.005 | 1.3 | E200.8 | 11/24/19 03:05 / aao |
| 1028 Iron | ND | mg/L | | 0.02 | | E200.7 | 11/26/19 16:33 / rh |
| 1030 Lead | ND | mg/L | | 0.001 | 0.015 | E200.8 | 11/24/19 03:05 / aao |
| 1031 Magnesium | 20 | mg/L | | 1 | | E200.7 | 11/26/19 16:33 / rh |
| 1032 Manganese | ND | mg/L | | 0.001 | | E200.8 | 11/24/19 03:05 / aao |
| 1035 Mercury | ND | mg/L | | 0.0001 | 0.002 | E245.1 | 11/27/19 12:29 / jag |
| 1036 Nickel | ND | mg/L | | 0.01 | | E200.8 | 11/24/19 03:05 / aao |

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Client Sample ID: Source

PWS #: MT0001229 **Name:** LEHRKINDS BIG SPRING WATER

Facility ID: TP001

Sampling Point/Location: EP502 / Source

Project ID: PWS MT0001229

Collector's Name: Don Cates

Contact Phone #: (406) 538-3433

Compliance Sample: YES

Sample Type: RT

Lab ID: B19111917-003

Report Date: 12/06/19

Collection Date: 11/20/19 13:45

Date Received: 11/21/19

Matrix: Drinking Water

Federal ID#: MT00005

| FRDS Analyses | Result | Units | Qual | MCL/ | | Method | Analysis Date / By |
|----------------------|--------|-------|------|--------|-------|--------|----------------------|
| | | | | RL | QCL | | |
| METALS, TOTAL | | | | | | | |
| 1042 Potassium | ND | mg/L | | 1 | | E200.7 | 11/26/19 16:33 / rh |
| 1045 Selenium | ND | mg/L | | 0.001 | 0.05 | E200.8 | 11/24/19 03:05 / aao |
| 1049 Silica | 6.3 | mg/L | | 0.2 | | E200.7 | 11/26/19 16:33 / rh |
| SILI Silicon | 2.9 | mg/L | | 0.1 | | E200.7 | 11/26/19 16:33 / rh |
| 1050 Silver | ND | mg/L | | 0.001 | | E200.8 | 11/24/19 03:05 / aao |
| 1052 Sodium | 2 | mg/L | | 1 | | E200.7 | 11/26/19 16:33 / rh |
| 1085 Thallium | ND | mg/L | | 0.0005 | 0.002 | E200.8 | 11/24/19 03:05 / aao |
| 1095 Zinc | ND | mg/L | | 0.01 | | E200.8 | 11/24/19 03:05 / aao |

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/03/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|-------|---------------------------|-------|------|------|-----------|------------|-----|----------|--|
| Method: A2120 B | | | | | | | | | | Batch: R331324 |
| Lab ID: MB-R331324 | | Method Blank | | | | | | | | Run: MISC-WC_191122B 11/22/19 08:35 |
| Color | | ND | c.u. | | | | | | | |
| Lab ID: LCS-R331324 | | Laboratory Control Sample | | | | | | | | Run: MISC-WC_191122B 11/22/19 08:35 |
| Color | | 25.0 | c.u. | 5.0 | 100 | 90 | 110 | | | |
| Lab ID: B19111917-001ADUP | 2 | Sample Duplicate | | | | | | | | Run: MISC-WC_191122B 11/22/19 08:35 |
| Color | | ND | c.u. | 5.0 | | | | | 10 | |
| pH at Time of Color Analysis | | 7.80 | s.u. | 0.10 | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/03/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|-------|---------------------------|-------|------|------|-----------|------------------------|-----|----------|-----------------------|
| Method: A2130 B | | | | | | | | | | Batch: 191121B-TURB-W |
| Lab ID: MBLK (DI H2O) | | Method Blank | | | | | Run: HACH2100N_191121B | | | 11/21/19 16:23 |
| Turbidity | | ND | NTU | 0.08 | | | | | | |
| Lab ID: Turb - 20 NTU | | Laboratory Control Sample | | | | | Run: HACH2100N_191121B | | | 11/21/19 16:23 |
| Turbidity | | 20.1 | NTU | 0.10 | 101 | 90 | 110 | | | |
| Lab ID: Turb - 1.0 NTU | | Laboratory Control Sample | | | | | Run: HACH2100N_191121B | | | 11/21/19 16:24 |
| Turbidity | | 1.06 | NTU | 0.10 | 106 | 90 | 110 | | | |
| Lab ID: B19111917-001ADUP | | Sample Duplicate | | | | | Run: HACH2100N_191121B | | | 11/21/19 16:29 |
| Turbidity | | 0.132 | NTU | 0.10 | | | | 1.5 | 10 | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/03/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--|-------|--------------|--------|----|------|-----------|------------|-----|----------|--|
| Method: A2150 B Batch: R331387 | | | | | | | | | | |
| Lab ID: MB-R331387 | 2 | Method Blank | | | | | | | | Run: MISC-WC_191121F 11/21/19 10:43 |
| Odor | | ND | T.O.N. | | | | | | | |
| Odor Measurement Temp | | 60 | °C | | | | | | | |
| Method: A2150 B Batch: R331389 | | | | | | | | | | |
| Lab ID: MB-R331389 | 2 | Method Blank | | | | | | | | Run: MISC-WC_191122E 11/22/19 09:59 |
| Odor | | ND | T.O.N. | | | | | | | |
| Odor Measurement Temp | | 60 | °C | | | | | | | |
| Method: A2150 B Batch: R331391 | | | | | | | | | | |
| Lab ID: MB-R331391 | 2 | Method Blank | | | | | | | | Run: MISC-WC_191122F 11/22/19 10:11 |
| Odor | | ND | T.O.N. | | | | | | | |
| Odor Measurement Temp | | 60 | °C | | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/03/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|-------|---------------------------|-------|-----|------|-----------|------------|-----|----------|--|
| Method: A2320 B | | | | | | | | | | Batch: R331242 |
| Lab ID: MBLK | | Method Blank | | | | | | | | Run: Metrohm 2_191121A 11/21/19 16:16 |
| Alkalinity, Total as CaCO3 | 2 | mg/L | | 0.7 | | | | | | |
| Lab ID: LCS | | Laboratory Control Sample | | | | | | | | Run: Metrohm 2_191121A 11/21/19 16:20 |
| Alkalinity, Total as CaCO3 | 99.7 | mg/L | | 4.0 | 100 | 90 | 110 | | | |
| Lab ID: B19111870-002AMS | | Sample Matrix Spike | | | | | | | | Run: Metrohm 2_191121A 11/21/19 16:42 |
| Alkalinity, Total as CaCO3 | 365 | mg/L | | 4.0 | 98 | 80 | 120 | | | |
| Lab ID: B19111881-003ADUP | 3 | Sample Duplicate | | | | | | | | Run: Metrohm 2_191121A 11/21/19 17:43 |
| Alkalinity, Total as CaCO3 | | 2.11 | mg/L | 4.0 | | | | | 10 | |
| Bicarbonate as HCO3 | | 2.57 | mg/L | 4.0 | | | | | 10 | |
| Carbonate as CO3 | | ND | mg/L | 4.0 | | | | | 10 | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/03/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|---|-------|--------------|-------|----|------|-----------|------------|-----|----------|---|
| Method: A2540 C Batch: 139528 | | | | | | | | | | |
| Lab ID: MB-139528 | | Method Blank | | | | | | | | |
| Solids, Total Dissolved TDS @ 180 C | | ND | mg/L | 10 | | | | | | Run: BAL #SD-15_191122C 11/22/19 08:15 |
| Lab ID: LCS-139528 Run: BAL #SD-15_191122C 11/22/19 08:15 | | | | | | | | | | |
| Solids, Total Dissolved TDS @ 180 C | | 998 | mg/L | 10 | 100 | 90 | 110 | | | |
| Lab ID: B19111874-001A DUP Run: BAL #SD-15_191122C 11/22/19 08:15 | | | | | | | | | | |
| Solids, Total Dissolved TDS @ 180 C | | 3850 | mg/L | 40 | | | | 1.0 | 5 | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/03/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|-------|---|-------|------|------|-----------|------------|-----|--|------|
| Method: A4500-H B | | Analytical Run: PHSC _101-B_191121A | | | | | | | | |
| Lab ID: pH 8 | 2 | Initial Calibration Verification Standard | | | | | | | 11/21/19 09:10 | |
| pH | | 8.07 | s.u. | 0.10 | 101 | 98 | 102 | | | |
| pH Measurement Temp | | 20.8 | C | | | 0 | 0 | | | |
| Method: A4500-H B | | Batch: R331244 | | | | | | | | |
| Lab ID: B19111881-001ADUP | 2 | Sample Duplicate | | | | | | | Run: PHSC _101-B_191121A 11/21/19 15:56 | |
| pH | | 7.17 | s.u. | 0.10 | | | | 0.1 | 3 | |
| pH Measurement Temp | | 19.3 | C | | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/03/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|-------|---|-------|-------|------|-----------|------------|-----|--|------|
| Method: E300.0 | | Analytical Run: IC METROHM 2_191122A | | | | | | | | |
| Lab ID: ICV | 3 | Initial Calibration Verification Standard | | | | | | | 11/22/19 14:44 | |
| Chloride | | 24.2 | mg/L | 1.0 | 97 | 90 | 110 | | | |
| Sulfate | | 98.0 | mg/L | 1.0 | 98 | 90 | 110 | | | |
| Fluoride | | 1.23 | mg/L | 0.20 | 99 | 90 | 110 | | | |
| Method: E300.0 | | Batch: R331430 | | | | | | | | |
| Lab ID: ICB | 3 | Method Blank | | | | | | | Run: IC METROHM 2_191122A 11/22/19 14:59 | |
| Chloride | | ND | mg/L | 0.05 | | | | | | |
| Sulfate | | ND | mg/L | 0.1 | | | | | | |
| Fluoride | | ND | mg/L | 0.004 | | | | | | |
| Lab ID: LFB | 3 | Laboratory Fortified Blank | | | | | | | Run: IC METROHM 2_191122A 11/22/19 15:15 | |
| Chloride | | 25.2 | mg/L | 1.0 | 101 | 90 | 110 | | | |
| Sulfate | | 101 | mg/L | 1.0 | 101 | 90 | 110 | | | |
| Fluoride | | 1.29 | mg/L | 0.20 | 103 | 90 | 110 | | | |
| Lab ID: B19111884-001AMS | 3 | Sample Matrix Spike | | | | | | | Run: IC METROHM 2_191122A 11/23/19 13:44 | |
| Chloride | | 39.3 | mg/L | 1.0 | 108 | 90 | 110 | | | |
| Sulfate | | 313 | mg/L | 1.0 | 105 | 90 | 110 | | | |
| Fluoride | | 1.49 | mg/L | 0.20 | 109 | 90 | 110 | | | |
| Lab ID: B19111884-001AMSD | 3 | Sample Matrix Spike Duplicate | | | | | | | Run: IC METROHM 2_191122A 11/23/19 13:59 | |
| Chloride | | 39.5 | mg/L | 1.0 | 108 | 90 | 110 | 0.3 | 20 | |
| Sulfate | | 314 | mg/L | 1.0 | 106 | 90 | 110 | 0.2 | 20 | |
| Fluoride | | 1.50 | mg/L | 0.20 | 109 | 90 | 110 | 0.4 | 20 | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/03/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual | |
|----------------------------------|-------|--|-------|-------|------|-----------|------------|-----|----------|----------------------------------|----------------|
| Method: E353.2 | | | | | | | | | | Analytical Run: FIA203-B_191126B | |
| Lab ID: ICV | | Initial Calibration Verification Standard | | | | | | | | 11/26/19 09:54 | |
| Nitrogen, Nitrate+Nitrite as N | | 0.561 | mg/L | 0.010 | 99 | 90 | 110 | | | | |
| Lab ID: CCV | | Continuing Calibration Verification Standard | | | | | | | | 11/26/19 14:43 | |
| Nitrogen, Nitrate+Nitrite as N | | 1.00 | mg/L | 0.010 | 100 | 90 | 110 | | | | |
| Lab ID: CCV | | Continuing Calibration Verification Standard | | | | | | | | 11/26/19 15:00 | |
| Nitrogen, Nitrate+Nitrite as N | | 0.994 | mg/L | 0.010 | 99 | 90 | 110 | | | | |
| Method: E353.2 | | | | | | | | | | Batch: R331512 | |
| Lab ID: MBLK | | Method Blank | | | | | | | | Run: FIA203-B_191126B | 11/26/19 09:55 |
| Nitrogen, Nitrate+Nitrite as N | | ND | mg/L | 0.006 | | | | | | | |
| Lab ID: LFB | | Laboratory Fortified Blank | | | | | | | | Run: FIA203-B_191126B | 11/26/19 09:57 |
| Nitrogen, Nitrate+Nitrite as N | | 1.01 | mg/L | 0.010 | 101 | 90 | 110 | | | | |
| Lab ID: B19111917-001CMS | | Sample Matrix Spike | | | | | | | | Run: FIA203-B_191126B | 11/26/19 14:46 |
| Nitrogen, Nitrate+Nitrite as N | | 1.24 | mg/L | 0.010 | 105 | 90 | 110 | | | | |
| Lab ID: B19111917-001CMSD | | Sample Matrix Spike Duplicate | | | | | | | | Run: FIA203-B_191126B | 11/26/19 14:47 |
| Nitrogen, Nitrate+Nitrite as N | | 1.25 | mg/L | 0.010 | 106 | 90 | 110 | 0.9 | 10 | | |

Qualifiers:

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ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual | |
|-----------------------------------|-------|--|-------|--------|------|-----------|------------|-----|---|------|--|
| Method: E200.7 | | Analytical Run: ICP204-B_191126A | | | | | | | | | |
| Lab ID: ICV | 7 | Continuing Calibration Verification Standard | | | | | | | 11/26/19 12:58 | | |
| Beryllium | | 1.26 | mg/L | 0.010 | 100 | 95 | 105 | | | | |
| Calcium | | 25.0 | mg/L | 1.0 | 100 | 95 | 105 | | | | |
| Iron | | 2.43 | mg/L | 0.020 | 97 | 95 | 105 | | | | |
| Magnesium | | 24.8 | mg/L | 1.0 | 99 | 95 | 105 | | | | |
| Potassium | | 24.6 | mg/L | 1.0 | 98 | 95 | 105 | | | | |
| Silicon | | 5.06 | mg/L | 0.10 | 101 | 95 | 105 | | | | |
| Sodium | | 24.5 | mg/L | 1.0 | 98 | 95 | 105 | | | | |
| Method: E200.7 | | Batch: R331550 | | | | | | | | | |
| Lab ID: MB-7400DIS191126A | 7 | Method Blank | | | | | | | Run: ICP204-B_191126A 11/26/19 13:06 | | |
| Beryllium | | ND | mg/L | 0.0005 | | | | | | | |
| Calcium | | ND | mg/L | 0.07 | | | | | | | |
| Iron | | ND | mg/L | 0.02 | | | | | | | |
| Magnesium | | ND | mg/L | 0.02 | | | | | | | |
| Potassium | | ND | mg/L | 0.1 | | | | | | | |
| Silicon | | ND | mg/L | 0.07 | | | | | | | |
| Sodium | | ND | mg/L | 0.1 | | | | | | | |
| Lab ID: LFB-7400DIS191126A | 7 | Laboratory Fortified Blank | | | | | | | Run: ICP204-B_191126A 11/26/19 13:15 | | |
| Beryllium | | 0.507 | mg/L | 0.010 | 101 | 85 | 115 | | | | |
| Calcium | | 50.7 | mg/L | 1.0 | 101 | 85 | 115 | | | | |
| Iron | | 4.95 | mg/L | 0.020 | 99 | 85 | 115 | | | | |
| Magnesium | | 50.4 | mg/L | 1.0 | 101 | 85 | 115 | | | | |
| Potassium | | 50.2 | mg/L | 1.0 | 100 | 85 | 115 | | | | |
| Silicon | | 10.1 | mg/L | 0.10 | 101 | 85 | 115 | | | | |
| Sodium | | 49.7 | mg/L | 1.0 | 99 | 85 | 115 | | | | |
| Lab ID: B19111917-001BMS2 | 7 | Sample Matrix Spike | | | | | | | Run: ICP204-B_191126A 11/26/19 16:12 | | |
| Beryllium | | 0.524 | mg/L | 0.0010 | 105 | 70 | 130 | | | | |
| Calcium | | 120 | mg/L | 1.0 | 102 | 70 | 130 | | | | |
| Iron | | 5.15 | mg/L | 0.020 | 103 | 70 | 130 | | | | |
| Magnesium | | 73.0 | mg/L | 1.0 | 105 | 70 | 130 | | | | |
| Potassium | | 53.5 | mg/L | 1.0 | 106 | 70 | 130 | | | | |
| Silicon | | 13.5 | mg/L | 0.10 | 106 | 70 | 130 | | | | |
| Sodium | | 55.0 | mg/L | 1.0 | 106 | 70 | 130 | | | | |
| Lab ID: B19111917-001BMSD | 7 | Sample Matrix Spike Duplicate | | | | | | | Run: ICP204-B_191126A 11/26/19 16:16 | | |
| Beryllium | | 0.526 | mg/L | 0.0010 | 105 | 70 | 130 | 0.4 | 20 | | |
| Calcium | | 120 | mg/L | 1.0 | 102 | 70 | 130 | 0.0 | 20 | | |
| Iron | | 5.16 | mg/L | 0.020 | 103 | 70 | 130 | 0.3 | 20 | | |
| Magnesium | | 73.2 | mg/L | 1.0 | 105 | 70 | 130 | 0.2 | 20 | | |
| Potassium | | 53.7 | mg/L | 1.0 | 106 | 70 | 130 | 0.3 | 20 | | |
| Silicon | | 13.6 | mg/L | 0.10 | 107 | 70 | 130 | 0.4 | 20 | | |
| Sodium | | 55.0 | mg/L | 1.0 | 106 | 70 | 130 | 0.0 | 20 | | |
| Lab ID: B19112044-005BMS2 | 7 | Sample Matrix Spike | | | | | | | Run: ICP204-B_191126A 11/26/19 16:54 | | |
| Beryllium | | 2.64 | mg/L | 0.0024 | 106 | 70 | 130 | | | | |

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual | |
|----------------------------------|-------|-------------------------------|-------|-----------------------|------|-----------|------------|----------------|----------|------|--|
| Method: E200.7 | | | | | | | | | | | |
| Batch: R331550 | | | | | | | | | | | |
| Lab ID: B19112044-005BMS2 | 7 | Sample Matrix Spike | | Run: ICP204-B_191126A | | | | 11/26/19 16:54 | | | |
| Calcium | | 296 | mg/L | 1.0 | 105 | 70 | 130 | | | | |
| Iron | | 26.4 | mg/L | 0.086 | 105 | 70 | 130 | | | | |
| Magnesium | | 291 | mg/L | 1.0 | 106 | 70 | 130 | | | | |
| Potassium | | 267 | mg/L | 1.0 | 105 | 70 | 130 | | | | |
| Silicon | | 56.9 | mg/L | 0.38 | 106 | 70 | 130 | | | | |
| Sodium | | 880 | mg/L | 1.0 | 104 | 70 | 130 | | | | |
| Lab ID: B19112044-005BMSD | 7 | Sample Matrix Spike Duplicate | | Run: ICP204-B_191126A | | | | 11/26/19 16:58 | | | |
| Beryllium | | 2.62 | mg/L | 0.0024 | 105 | 70 | 130 | 0.9 | 20 | | |
| Calcium | | 295 | mg/L | 1.0 | 105 | 70 | 130 | 0.6 | 20 | | |
| Iron | | 26.1 | mg/L | 0.086 | 104 | 70 | 130 | 0.9 | 20 | | |
| Magnesium | | 290 | mg/L | 1.0 | 105 | 70 | 130 | 0.4 | 20 | | |
| Potassium | | 264 | mg/L | 1.0 | 104 | 70 | 130 | 1.0 | 20 | | |
| Silicon | | 56.4 | mg/L | 0.38 | 104 | 70 | 130 | 1.0 | 20 | | |
| Sodium | | 872 | mg/L | 1.0 | 100 | 70 | 130 | 0.9 | 20 | | |

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual | |
|-----------------------|--|--------|-------|--------|------|-----------|------------|----------------|----------|------------------------------------|--|
| Method: E200.8 | | | | | | | | | | Analytical Run: ICPMS207-B_191122A | |
| Lab ID: QCS | 13 Initial Calibration Verification Standard | | | | | | | 11/24/19 00:01 | | | |
| Aluminum | | 0.263 | mg/L | 0.10 | 105 | 90 | 110 | | | | |
| Arsenic | | 0.0530 | mg/L | 0.0050 | 106 | 90 | 110 | | | | |
| Barium | | 0.0519 | mg/L | 0.10 | 104 | 90 | 110 | | | | |
| Cadmium | | 0.0260 | mg/L | 0.0010 | 104 | 90 | 110 | | | | |
| Chromium | | 0.0549 | mg/L | 0.010 | 110 | 90 | 110 | | | | |
| Copper | | 0.0552 | mg/L | 0.010 | 110 | 90 | 110 | | | | |
| Lead | | 0.0514 | mg/L | 0.010 | 103 | 90 | 110 | | | | |
| Manganese | | 0.273 | mg/L | 0.010 | 109 | 90 | 110 | | | | |
| Nickel | | 0.0541 | mg/L | 0.010 | 108 | 90 | 110 | | | | |
| Selenium | | 0.0530 | mg/L | 0.0050 | 106 | 90 | 110 | | | | |
| Silver | | 0.0258 | mg/L | 0.0050 | 103 | 90 | 110 | | | | |
| Thallium | | 0.0512 | mg/L | 0.10 | 102 | 90 | 110 | | | | |
| Zinc | | 0.0529 | mg/L | 0.010 | 106 | 90 | 110 | | | | |

| | | | | | | | | | | | |
|-----------------------|-----------------|----|------|---------|--|--|--|-------------------------|--|----------------|--|
| Method: E200.8 | | | | | | | | | | Batch: R331383 | |
| Lab ID: LRB | 13 Method Blank | | | | | | | Run: ICPMS207-B_191122A | | 11/22/19 14:31 | |
| Aluminum | | ND | mg/L | 0.0009 | | | | | | | |
| Arsenic | | ND | mg/L | 0.0002 | | | | | | | |
| Barium | | ND | mg/L | 0.00004 | | | | | | | |
| Cadmium | | ND | mg/L | 0.00002 | | | | | | | |
| Chromium | | ND | mg/L | 0.0002 | | | | | | | |
| Copper | | ND | mg/L | 0.0003 | | | | | | | |
| Lead | | ND | mg/L | 0.00006 | | | | | | | |
| Manganese | | ND | mg/L | 0.00010 | | | | | | | |
| Nickel | | ND | mg/L | 0.0006 | | | | | | | |
| Selenium | | ND | mg/L | 0.0003 | | | | | | | |
| Silver | | ND | mg/L | 0.00002 | | | | | | | |
| Thallium | | ND | mg/L | 0.00004 | | | | | | | |
| Zinc | | ND | mg/L | 0.003 | | | | | | | |

| | | | | | | | | | | | |
|--------------------|-------------------------------|--------|------|--------|----|----|-----|-------------------------|--|----------------|--|
| Lab ID: LFB | 13 Laboratory Fortified Blank | | | | | | | Run: ICPMS207-B_191122A | | 11/22/19 14:36 | |
| Aluminum | | 0.0452 | mg/L | 0.10 | 90 | 85 | 115 | | | | |
| Arsenic | | 0.0473 | mg/L | 0.0050 | 95 | 85 | 115 | | | | |
| Barium | | 0.0457 | mg/L | 0.10 | 91 | 85 | 115 | | | | |
| Cadmium | | 0.0458 | mg/L | 0.0010 | 92 | 85 | 115 | | | | |
| Chromium | | 0.0479 | mg/L | 0.010 | 96 | 85 | 115 | | | | |
| Copper | | 0.0470 | mg/L | 0.010 | 94 | 85 | 115 | | | | |
| Lead | | 0.0459 | mg/L | 0.010 | 92 | 85 | 115 | | | | |
| Manganese | | 0.0477 | mg/L | 0.010 | 95 | 85 | 115 | | | | |
| Nickel | | 0.0465 | mg/L | 0.010 | 93 | 85 | 115 | | | | |
| Selenium | | 0.0470 | mg/L | 0.0050 | 94 | 85 | 115 | | | | |
| Silver | | 0.0185 | mg/L | 0.0050 | 92 | 85 | 115 | | | | |
| Thallium | | 0.0456 | mg/L | 0.10 | 91 | 85 | 115 | | | | |
| Zinc | | 0.0463 | mg/L | 0.010 | 93 | 85 | 115 | | | | |

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual | |
|----------------------------------|-------|-------------------------------|-------|-------------------------|------|-----------|------------|----------------|----------|------|--|
| Method: E200.8 | | | | | | | | | | | |
| Batch: R331383 | | | | | | | | | | | |
| Lab ID: B19111798-001BMS | 13 | Sample Matrix Spike | | Run: ICPMS207-B_191122A | | | | 11/23/19 19:48 | | | |
| Aluminum | | 0.0484 | mg/L | 0.030 | 97 | 70 | 130 | | | | |
| Arsenic | | 0.0465 | mg/L | 0.0010 | 93 | 70 | 130 | | | | |
| Barium | | 0.216 | mg/L | 0.050 | 93 | 70 | 130 | | | | |
| Cadmium | | 0.0467 | mg/L | 0.0010 | 93 | 70 | 130 | | | | |
| Chromium | | 0.0464 | mg/L | 0.0050 | 93 | 70 | 130 | | | | |
| Copper | | 0.0459 | mg/L | 0.0050 | 92 | 70 | 130 | | | | |
| Lead | | 0.0481 | mg/L | 0.0010 | 96 | 70 | 130 | | | | |
| Manganese | | 0.125 | mg/L | 0.0010 | 88 | 70 | 130 | | | | |
| Nickel | | 0.0450 | mg/L | 0.0050 | 90 | 70 | 130 | | | | |
| Selenium | | 0.0469 | mg/L | 0.0010 | 94 | 70 | 130 | | | | |
| Silver | | 0.0187 | mg/L | 0.0010 | 93 | 70 | 130 | | | | |
| Thallium | | 0.0467 | mg/L | 0.00050 | 93 | 70 | 130 | | | | |
| Zinc | | 0.0449 | mg/L | 0.010 | 90 | 70 | 130 | | | | |
| Lab ID: B19111798-001BMSD | 13 | Sample Matrix Spike Duplicate | | Run: ICPMS207-B_191122A | | | | 11/23/19 19:52 | | | |
| Aluminum | | 0.0483 | mg/L | 0.030 | 97 | 70 | 130 | 0.3 | 20 | | |
| Arsenic | | 0.0479 | mg/L | 0.0010 | 96 | 70 | 130 | 3.1 | 20 | | |
| Barium | | 0.211 | mg/L | 0.050 | 83 | 70 | 130 | 2.3 | 20 | | |
| Cadmium | | 0.0461 | mg/L | 0.0010 | 92 | 70 | 130 | 1.4 | 20 | | |
| Chromium | | 0.0480 | mg/L | 0.0050 | 96 | 70 | 130 | 3.4 | 20 | | |
| Copper | | 0.0473 | mg/L | 0.0050 | 95 | 70 | 130 | 3.0 | 20 | | |
| Lead | | 0.0474 | mg/L | 0.0010 | 95 | 70 | 130 | 1.5 | 20 | | |
| Manganese | | 0.128 | mg/L | 0.0010 | 94 | 70 | 130 | 2.4 | 20 | | |
| Nickel | | 0.0461 | mg/L | 0.0050 | 92 | 70 | 130 | 2.6 | 20 | | |
| Selenium | | 0.0466 | mg/L | 0.0010 | 93 | 70 | 130 | 0.7 | 20 | | |
| Silver | | 0.0185 | mg/L | 0.0010 | 93 | 70 | 130 | 0.9 | 20 | | |
| Thallium | | 0.0474 | mg/L | 0.00050 | 95 | 70 | 130 | 1.5 | 20 | | |
| Zinc | | 0.0455 | mg/L | 0.010 | 91 | 70 | 130 | 1.2 | 20 | | |

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual | |
|---------------------------------|-------|---|-------|---------|------|-----------|------------|--|----------|------------------------------------|--|
| Method: E200.8 | | | | | | | | | | Analytical Run: ICPMS208-B_191127A | |
| Lab ID: QCS | 10 | Initial Calibration Verification Standard | | | | | | 11/27/19 22:08 | | | |
| Antimony | | 0.0507 | mg/L | 0.050 | 101 | 90 | 110 | | | | |
| Arsenic | | 0.0489 | mg/L | 0.0050 | 98 | 90 | 110 | | | | |
| Cadmium | | 0.0259 | mg/L | 0.0010 | 104 | 90 | 110 | | | | |
| Chromium | | 0.0490 | mg/L | 0.010 | 98 | 90 | 110 | | | | |
| Lead | | 0.0504 | mg/L | 0.010 | 101 | 90 | 110 | | | | |
| Manganese | | 0.243 | mg/L | 0.010 | 97 | 90 | 110 | | | | |
| Selenium | | 0.0476 | mg/L | 0.0050 | 95 | 90 | 110 | | | | |
| Thallium | | 0.0498 | mg/L | 0.10 | 100 | 90 | 110 | | | | |
| Titanium | | 0.0507 | mg/L | 0.010 | 101 | 90 | 110 | | | | |
| Vanadium | | 0.0481 | mg/L | 0.10 | 96 | 90 | 110 | | | | |
| Method: E200.8 | | | | | | | | | | Batch: R331640 | |
| Lab ID: LRB | 10 | Method Blank | | | | | | Run: ICPMS208-B_191127A 11/27/19 12:21 | | | |
| Antimony | | ND | mg/L | 0.00003 | | | | | | | |
| Arsenic | | ND | mg/L | 0.00005 | | | | | | | |
| Cadmium | | ND | mg/L | 0.00001 | | | | | | | |
| Chromium | | ND | mg/L | 0.0001 | | | | | | | |
| Lead | | ND | mg/L | 0.00003 | | | | | | | |
| Manganese | | ND | mg/L | 0.00004 | | | | | | | |
| Selenium | | ND | mg/L | 0.0002 | | | | | | | |
| Thallium | | ND | mg/L | 0.00002 | | | | | | | |
| Titanium | | ND | mg/L | 0.00007 | | | | | | | |
| Vanadium | | ND | mg/L | 0.0005 | | | | | | | |
| Lab ID: LFB | 10 | Laboratory Fortified Blank | | | | | | Run: ICPMS208-B_191127A 11/27/19 12:26 | | | |
| Antimony | | 0.0436 | mg/L | 0.050 | 87 | 85 | 115 | | | | |
| Arsenic | | 0.0441 | mg/L | 0.0050 | 88 | 85 | 115 | | | | |
| Cadmium | | 0.0448 | mg/L | 0.0010 | 90 | 85 | 115 | | | | |
| Chromium | | 0.0456 | mg/L | 0.010 | 91 | 85 | 115 | | | | |
| Lead | | 0.0450 | mg/L | 0.010 | 90 | 85 | 115 | | | | |
| Manganese | | 0.0450 | mg/L | 0.010 | 90 | 85 | 115 | | | | |
| Selenium | | 0.0444 | mg/L | 0.0050 | 89 | 85 | 115 | | | | |
| Thallium | | 0.0440 | mg/L | 0.10 | 88 | 85 | 115 | | | | |
| Titanium | | 0.0508 | mg/L | 0.010 | 101 | 85 | 115 | | | | |
| Vanadium | | 0.0448 | mg/L | 0.10 | 90 | 85 | 115 | | | | |
| Lab ID: B19111546-001AMS | 10 | Sample Matrix Spike | | | | | | Run: ICPMS208-B_191127A 11/27/19 22:52 | | | |
| Antimony | | 0.101 | mg/L | 0.0010 | 101 | 70 | 130 | | | | |
| Arsenic | | 0.0942 | mg/L | 0.0010 | 94 | 70 | 130 | | | | |
| Cadmium | | 0.0984 | mg/L | 0.0010 | 98 | 70 | 130 | | | | |
| Chromium | | 0.0926 | mg/L | 0.0050 | 93 | 70 | 130 | | | | |
| Lead | | 0.0987 | mg/L | 0.0010 | 99 | 70 | 130 | | | | |
| Manganese | | 0.173 | mg/L | 0.0010 | 87 | 70 | 130 | | | | |
| Selenium | | 0.0985 | mg/L | 0.0010 | 97 | 70 | 130 | | | | |
| Thallium | | 0.0991 | mg/L | 0.00050 | 99 | 70 | 130 | | | | |
| Titanium | | 0.106 | mg/L | 0.0050 | 105 | 70 | 130 | | | | |

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|-------|-------------------------------|-------|---------|-------------------------|-----------|------------|-----|----------------|------|
| Method: E200.8 | | | | | | | | | | |
| Batch: R331640 | | | | | | | | | | |
| Lab ID: B19111546-001AMS | 10 | Sample Matrix Spike | | | Run: ICPMS208-B_191127A | | | | 11/27/19 22:52 | |
| Vanadium | | 0.0920 | mg/L | 0.010 | 92 | 70 | 130 | | | |
| Lab ID: B19111546-001AMSD | 10 | Sample Matrix Spike Duplicate | | | Run: ICPMS208-B_191127A | | | | 11/27/19 22:56 | |
| Antimony | | 0.116 | mg/L | 0.0010 | 116 | 70 | 130 | 14 | 20 | |
| Arsenic | | 0.0941 | mg/L | 0.0010 | 94 | 70 | 130 | 0.1 | 20 | |
| Cadmium | | 0.110 | mg/L | 0.0010 | 110 | 70 | 130 | 11 | 20 | |
| Chromium | | 0.0935 | mg/L | 0.0050 | 93 | 70 | 130 | 0.9 | 20 | |
| Lead | | 0.107 | mg/L | 0.0010 | 107 | 70 | 130 | 8.1 | 20 | |
| Manganese | | 0.177 | mg/L | 0.0010 | 91 | 70 | 130 | 2.3 | 20 | |
| Selenium | | 0.0972 | mg/L | 0.0010 | 96 | 70 | 130 | 1.3 | 20 | |
| Thallium | | 0.106 | mg/L | 0.00050 | 106 | 70 | 130 | 7.1 | 20 | |
| Titanium | | 0.120 | mg/L | 0.0050 | 119 | 70 | 130 | 12 | 20 | |
| Vanadium | | 0.0949 | mg/L | 0.010 | 95 | 70 | 130 | 3.1 | 20 | |
| Lab ID: B19112093-001AMS | 10 | Sample Matrix Spike | | | Run: ICPMS208-B_191127A | | | | 11/28/19 00:11 | |
| Antimony | | 0.0572 | mg/L | 0.0010 | 114 | 70 | 130 | | | |
| Arsenic | | 0.0544 | mg/L | 0.0010 | 109 | 70 | 130 | | | |
| Cadmium | | 0.0549 | mg/L | 0.0010 | 110 | 70 | 130 | | | |
| Chromium | | 0.0553 | mg/L | 0.0050 | 109 | 70 | 130 | | | |
| Lead | | 0.0557 | mg/L | 0.0010 | 109 | 70 | 130 | | | |
| Manganese | | 0.0555 | mg/L | 0.0010 | 106 | 70 | 130 | | | |
| Selenium | | 0.0545 | mg/L | 0.0010 | 108 | 70 | 130 | | | |
| Thallium | | 0.0550 | mg/L | 0.00050 | 110 | 70 | 130 | | | |
| Titanium | | 0.0591 | mg/L | 0.0050 | 116 | 70 | 130 | | | |
| Vanadium | | 0.0551 | mg/L | 0.010 | 110 | 70 | 130 | | | |
| Lab ID: B19112093-001AMSD | 10 | Sample Matrix Spike Duplicate | | | Run: ICPMS208-B_191127A | | | | 11/28/19 00:15 | |
| Antimony | | 0.0553 | mg/L | 0.0010 | 111 | 70 | 130 | 3.3 | 20 | |
| Arsenic | | 0.0527 | mg/L | 0.0010 | 105 | 70 | 130 | 3.2 | 20 | |
| Cadmium | | 0.0510 | mg/L | 0.0010 | 102 | 70 | 130 | 7.3 | 20 | |
| Chromium | | 0.0518 | mg/L | 0.0050 | 102 | 70 | 130 | 6.4 | 20 | |
| Lead | | 0.0509 | mg/L | 0.0010 | 99 | 70 | 130 | 9.1 | 20 | |
| Manganese | | 0.0518 | mg/L | 0.0010 | 99 | 70 | 130 | 6.8 | 20 | |
| Selenium | | 0.0509 | mg/L | 0.0010 | 101 | 70 | 130 | 6.9 | 20 | |
| Thallium | | 0.0486 | mg/L | 0.00050 | 97 | 70 | 130 | 12 | 20 | |
| Titanium | | 0.0575 | mg/L | 0.0050 | 113 | 70 | 130 | 2.7 | 20 | |
| Vanadium | | 0.0494 | mg/L | 0.010 | 99 | 70 | 130 | 11 | 20 | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|-------|---|-------|---------|------|-----------|------------|-----|---|------|
| Method: E200.8 | | Analytical Run: ICPMS208-B_191202A | | | | | | | | |
| Lab ID: QCS | 5 | Initial Calibration Verification Standard | | | | | | | 12/02/19 14:32 | |
| Antimony | | 0.0486 | mg/L | 0.050 | 97 | 90 | 110 | | | |
| Arsenic | | 0.0489 | mg/L | 0.0050 | 98 | 90 | 110 | | | |
| Chromium | | 0.0514 | mg/L | 0.010 | 103 | 90 | 110 | | | |
| Selenium | | 0.0513 | mg/L | 0.0050 | 103 | 90 | 110 | | | |
| Titanium | | 0.0490 | mg/L | 0.010 | 98 | 90 | 110 | | | |
| Method: E200.8 | | Batch: R331733 | | | | | | | | |
| Lab ID: LRB | 5 | Method Blank | | | | | | | Run: ICPMS208-B_191202A 12/02/19 15:04 | |
| Antimony | | ND | mg/L | 0.00003 | | | | | | |
| Arsenic | | ND | mg/L | 0.00005 | | | | | | |
| Chromium | | ND | mg/L | 0.0001 | | | | | | |
| Selenium | | ND | mg/L | 0.00002 | | | | | | |
| Titanium | | ND | mg/L | 0.00007 | | | | | | |
| Lab ID: LFB | 5 | Laboratory Fortified Blank | | | | | | | Run: ICPMS208-B_191202A 12/02/19 15:08 | |
| Antimony | | 0.0485 | mg/L | 0.050 | 97 | 85 | 115 | | | |
| Arsenic | | 0.0492 | mg/L | 0.0050 | 99 | 85 | 115 | | | |
| Chromium | | 0.0488 | mg/L | 0.010 | 98 | 85 | 115 | | | |
| Selenium | | 0.0497 | mg/L | 0.0050 | 99 | 85 | 115 | | | |
| Titanium | | 0.0540 | mg/L | 0.010 | 108 | 85 | 115 | | | |
| Lab ID: B19112391-001BMS | 5 | Sample Matrix Spike | | | | | | | Run: ICPMS208-B_191202A 12/02/19 19:54 | |
| Antimony | | 0.0480 | mg/L | 0.0010 | 96 | 70 | 130 | | | |
| Arsenic | | 0.0505 | mg/L | 0.0010 | 93 | 70 | 130 | | | |
| Chromium | | 0.0439 | mg/L | 0.0050 | 88 | 70 | 130 | | | |
| Selenium | | 0.0477 | mg/L | 0.0010 | 95 | 70 | 130 | | | |
| Titanium | | 0.0490 | mg/L | 0.0050 | 96 | 70 | 130 | | | |
| Lab ID: B19112391-001BMSD | 5 | Sample Matrix Spike Duplicate | | | | | | | Run: ICPMS208-B_191202A 12/02/19 19:57 | |
| Antimony | | 0.0539 | mg/L | 0.0010 | 108 | 70 | 130 | 12 | 20 | |
| Arsenic | | 0.0554 | mg/L | 0.0010 | 103 | 70 | 130 | 9.4 | 20 | |
| Chromium | | 0.0487 | mg/L | 0.0050 | 97 | 70 | 130 | 10 | 20 | |
| Selenium | | 0.0511 | mg/L | 0.0010 | 102 | 70 | 130 | 6.9 | 20 | |
| Titanium | | 0.0547 | mg/L | 0.0050 | 108 | 70 | 130 | 11 | 20 | |

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual | |
|----------------------------------|-------|---|-------|---------|------|-----------|------------|-----|----------|------------------------------------|----------------|
| Method: E200.8 | | | | | | | | | | Analytical Run: ICPMS208-B_191205A | |
| Lab ID: QCS | | Initial Calibration Verification Standard | | | | | | | | 12/05/19 15:23 | |
| Antimony | | 0.0501 | mg/L | 0.050 | 100 | 90 | 110 | | | | |
| Method: E200.8 | | | | | | | | | | Batch: R331932 | |
| Lab ID: LRB | | Method Blank | | | | | | | | Run: ICPMS208-B_191205A | 12/05/19 15:49 |
| Antimony | | ND | mg/L | 0.00003 | | | | | | | |
| Lab ID: LFB | | Laboratory Fortified Blank | | | | | | | | Run: ICPMS208-B_191205A | 12/05/19 16:08 |
| Antimony | | 0.0497 | mg/L | 0.050 | 99 | 85 | 115 | | | | |
| Lab ID: B19120149-001CMS | | Sample Matrix Spike | | | | | | | | Run: ICPMS208-B_191205A | 12/05/19 17:32 |
| Antimony | | 0.0560 | mg/L | 0.0010 | 112 | 70 | 130 | | | | |
| Lab ID: B19120149-001CMSD | | Sample Matrix Spike Duplicate | | | | | | | | Run: ICPMS208-B_191205A | 12/05/19 17:36 |
| Antimony | | 0.0508 | mg/L | 0.0010 | 101 | 70 | 130 | 9.7 | 20 | | |

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|-------|---|-------|---------|------|-----------|------------------------|-----------------------------------|----------------|------|
| Method: E245.1 | | | | | | | | Analytical Run: HGCV202-B_191127A | | |
| Lab ID: ICV | | Initial Calibration Verification Standard | | | | | | | 11/27/19 11:05 | |
| Mercury | | 0.00192 | mg/L | 0.00010 | 96 | 90 | 110 | | | |
| Method: E245.1 | | | | | | | | | Batch: 139643 | |
| Lab ID: MB-139643 | | Method Blank | | | | | Run: HGCV202-B_191127A | 11/27/19 11:59 | | |
| Mercury | | ND | mg/L | 0.00005 | | | | | | |
| Lab ID: LCS-139643 | | Laboratory Control Sample | | | | | Run: HGCV202-B_191127A | 11/27/19 12:01 | | |
| Mercury | | 0.00197 | mg/L | 0.00010 | 99 | 85 | 115 | | | |
| Lab ID: B19112152-002BMS | | Sample Matrix Spike | | | | | Run: HGCV202-B_191127A | 11/27/19 12:37 | | |
| Mercury | | 0.00209 | mg/L | 0.00010 | 98 | 70 | 130 | | | |
| Lab ID: B19112152-002BMSD | | Sample Matrix Spike Duplicate | | | | | Run: HGCV202-B_191127A | 11/27/19 12:39 | | |
| Mercury | | 0.00213 | mg/L | 0.00010 | 100 | 70 | 130 | 1.9 | 30 | |

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--|--|-------|------|------|---------------------|------------|------------------------|----------|------|
| Method: E515.4 | | | | | | | Analytical Run: 139568 | | |
| Lab ID: CAL3-139568 | Continuing Calibration Verification Standard | | | | | | 11/26/19 05:53 | | |
| 2,4,5-TP (Silvex) | 0.721 | ug/L | 0.25 | 96 | 70 | 130 | | | |
| 2,4-D | 3.36 | ug/L | 1.0 | 112 | 70 | 130 | | | |
| Dalapon | 3.42 | ug/L | 2.5 | 114 | 70 | 130 | | | |
| Dicamba | 1.80 | ug/L | 1.0 | 120 | 70 | 130 | | | |
| Dichlorprop | 3.42 | ug/L | 1.0 | 114 | 70 | 130 | | | |
| Pentachlorophenol | 0.326 | ug/L | 0.10 | 109 | 70 | 130 | | | |
| Picloram | 1.42 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| Surr: 2,4-Dichlorophenylacetic acid | | | | 109 | 70 | 130 | | | |
| Lab ID: CAL5-139568 | | | | | | | 11/26/19 12:27 | | |
| Continuing Calibration Verification Standard | | | | | | | | | |
| 2,4,5-TP (Silvex) | 1.66 | ug/L | 0.25 | 95 | 70 | 130 | | | |
| 2,4-D | 7.94 | ug/L | 1.0 | 113 | 70 | 130 | | | |
| Dalapon | 7.50 | ug/L | 2.5 | 107 | 70 | 130 | | | |
| Dicamba | 4.22 | ug/L | 1.0 | 120 | 70 | 130 | | | |
| Dichlorprop | 7.77 | ug/L | 1.0 | 111 | 70 | 130 | | | |
| Pentachlorophenol | 0.670 | ug/L | 0.10 | 96 | 70 | 130 | | | |
| Picloram | 3.93 | ug/L | 0.50 | 112 | 70 | 130 | | | |
| Surr: 2,4-Dichlorophenylacetic acid | | | | 107 | 70 | 130 | | | |
| Method: E515.4 | | | | | | | Analytical Run: 139568 | | |
| Lab ID: CAL3-139568 | Continuing Calibration Verification Standard | | | | | | 11/26/19 06:29 | | |
| 2,4-DB | 2.55 | ug/L | 1.0 | 85 | 70 | 130 | | | |
| Dinoseb | 2.71 | ug/L | 1.0 | 90 | 70 | 130 | | | |
| Lab ID: CAL5-139568 | | | | | | | 11/26/19 13:03 | | |
| Continuing Calibration Verification Standard | | | | | | | | | |
| 2,4-DB | 7.43 | ug/L | 1.0 | 106 | 70 | 130 | | | |
| Dinoseb | 6.87 | ug/L | 1.0 | 98 | 70 | 130 | | | |
| Method: E515.4 | | | | | | | Batch: 139568 | | |
| Lab ID: LCS-139568 | Laboratory Control Sample | | | | Run: DECD.I_191125A | | 11/25/19 20:20 | | |
| 2,4-DB | 4.78 | ug/L | 1.0 | 96 | 70 | 130 | | | |
| Dinoseb | 4.22 | ug/L | 1.0 | 84 | 70 | 130 | | | |
| Lab ID: MB-139568 | | | | | | | 11/25/19 20:56 | | |
| Method Blank | | | | | | | Run: DECD.I_191125A | | |
| 2,4-DB | ND | ug/L | 1.0 | | | | | | |
| Dinoseb | ND | ug/L | 1.0 | | | | | | |
| Lab ID: B19112035-001AMS | | | | | | | 11/25/19 22:07 | | |
| Sample Matrix Spike | | | | | | | Run: DECD.I_191125A | | |
| 2,4-DB | 4.54 | ug/L | 1.0 | 91 | 70 | 130 | | | |
| Dinoseb | 4.54 | ug/L | 1.0 | 91 | 70 | 130 | | | |
| Lab ID: B19112035-001AMSD | | | | | | | 11/25/19 22:43 | | |
| Sample Matrix Spike Duplicate | | | | | | | Run: DECD.I_191125A | | |
| 2,4-DB | 4.15 | ug/L | 1.0 | 83 | 70 | 130 | 9.0 | 30 | |
| Dinoseb | 4.01 | ug/L | 1.0 | 80 | 70 | 130 | 12 | 30 | |

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-------------------------------------|-------------------------------|-------|------|---------------------|-----------|------------|----------------|----------|------|
| Method: E515.4 | | | | | | | Batch: 139568 | | |
| Lab ID: LCS-139568 | Laboratory Control Sample | | | Run: CECD.I_191125A | | | 11/25/19 19:44 | | |
| 2,4,5-TP (Silvex) | 1.09 | ug/L | 0.25 | 87 | 70 | 130 | | | |
| 2,4-D | 4.62 | ug/L | 1.0 | 92 | 70 | 130 | | | |
| Dalapon | 4.84 | ug/L | 2.5 | 97 | 70 | 130 | | | |
| Dicamba | 2.27 | ug/L | 1.0 | 91 | 70 | 130 | | | |
| Dichlorprop | 4.68 | ug/L | 1.0 | 94 | 70 | 130 | | | |
| Pentachlorophenol | 0.464 | ug/L | 0.10 | 93 | 70 | 130 | | | |
| Picloram | 2.14 | ug/L | 0.50 | 85 | 70 | 130 | | | |
| Surr: 2,4-Dichlorophenylacetic acid | | | | 100 | 70 | 130 | | | |
| Lab ID: MB-139568 | Method Blank | | | Run: CECD.I_191125A | | | 11/25/19 20:20 | | |
| 2,4,5-TP (Silvex) | ND | ug/L | 0.25 | | | | | | |
| 2,4-D | ND | ug/L | 1.0 | | | | | | |
| Dalapon | ND | ug/L | 2.5 | | | | | | |
| Dicamba | ND | ug/L | 1.0 | | | | | | |
| Dichlorprop | ND | ug/L | 1.0 | | | | | | |
| Pentachlorophenol | ND | ug/L | 0.10 | | | | | | |
| Picloram | ND | ug/L | 0.50 | | | | | | |
| Surr: 2,4-Dichlorophenylacetic acid | | | | 97 | 70 | 130 | | | |
| Lab ID: B19112035-001AMS | Sample Matrix Spike | | | Run: CECD.I_191125A | | | 11/25/19 21:31 | | |
| 2,4,5-TP (Silvex) | 1.07 | ug/L | 0.25 | 86 | 70 | 130 | | | |
| 2,4-D | 4.56 | ug/L | 1.0 | 91 | 70 | 130 | | | |
| Dalapon | 5.68 | ug/L | 2.5 | 114 | 70 | 130 | | | |
| Dicamba | 2.64 | ug/L | 1.0 | 106 | 70 | 130 | | | |
| Dichlorprop | 4.47 | ug/L | 1.0 | 89 | 70 | 130 | | | |
| Pentachlorophenol | 0.353 | ug/L | 0.10 | 71 | 70 | 130 | | | |
| Picloram | 2.33 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| Surr: 2,4-Dichlorophenylacetic acid | | | | 105 | 70 | 130 | | | |
| Lab ID: B19112035-001AMSD | Sample Matrix Spike Duplicate | | | Run: CECD.I_191125A | | | 11/25/19 22:07 | | |
| 2,4,5-TP (Silvex) | 1.03 | ug/L | 0.25 | 82 | 70 | 130 | 4.1 | 30 | |
| 2,4-D | 4.59 | ug/L | 1.0 | 92 | 70 | 130 | 0.7 | 30 | |
| Dalapon | 5.22 | ug/L | 2.5 | 104 | 70 | 130 | 8.4 | 30 | |
| Dicamba | 2.69 | ug/L | 1.0 | 108 | 70 | 130 | 1.8 | 30 | |
| Dichlorprop | 4.64 | ug/L | 1.0 | 93 | 70 | 130 | 3.9 | 30 | |
| Pentachlorophenol | 0.318 | ug/L | 0.10 | 64 | 70 | 130 | 10 | 30 | S |
| Picloram | 2.30 | ug/L | 0.50 | 92 | 70 | 130 | 1.4 | 30 | |
| Surr: 2,4-Dichlorophenylacetic acid | | | | 106 | 70 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|--|-------|------|------|-----------|------------|-------------------------|----------|------|
| Method: E524.2 | | | | | | | Analytical Run: R331331 | | |
| Lab ID: CCV112119_ | Continuing Calibration Verification Standard | | | | | | 11/21/19 10:35 | | |
| Benzene | 4.66 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| Bromobenzene | 4.81 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Bromochloromethane | 4.60 | ug/L | 0.50 | 92 | 70 | 130 | | | |
| Bromodichloromethane | 4.56 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| Bromoform | 4.82 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Bromomethane | 3.83 | ug/L | 0.50 | 77 | 70 | 130 | | | |
| n-Butylbenzene | 4.19 | ug/L | 0.50 | 84 | 70 | 130 | | | |
| sec-Butylbenzene | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| tert-Butylbenzene | 4.51 | ug/L | 0.50 | 90 | 70 | 130 | | | |
| Carbon tetrachloride | 4.77 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| Chlorobenzene | 4.97 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| Chlorodibromomethane | 4.68 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| Chloroethane | 4.04 | ug/L | 0.50 | 81 | 70 | 130 | | | |
| Chloroform | 4.52 | ug/L | 0.50 | 90 | 70 | 130 | | | |
| Chloromethane | 3.71 | ug/L | 0.50 | 74 | 70 | 130 | | | |
| 2-Chlorotoluene | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 4-Chlorotoluene | 4.81 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| 1,2-Dibromo-3-chloropropane | 3.81 | ug/L | 1.0 | 76 | 70 | 130 | | | |
| Dibromomethane | 4.26 | ug/L | 0.50 | 85 | 70 | 130 | | | |
| 1,2-Dichlorobenzene | 4.68 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| 1,3-Dichlorobenzene | 4.89 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 1,4-Dichlorobenzene | 4.89 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| Dichlorodifluoromethane | 4.16 | ug/L | 0.50 | 83 | 70 | 130 | | | |
| 1,1-Dichloroethane | 4.54 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| 1,2-Dichloroethane | 3.89 | ug/L | 0.50 | 78 | 70 | 130 | | | |
| 1,2-Dibromoethane | 4.22 | ug/L | 0.50 | 84 | 70 | 130 | | | |
| 1,1-Dichloroethene | 4.53 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| cis-1,2-Dichloroethene | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| trans-1,2-Dichloroethene | 4.92 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 1,2-Dichloropropane | 4.48 | ug/L | 0.50 | 90 | 70 | 130 | | | |
| 1,3-Dichloropropane | 4.33 | ug/L | 0.50 | 87 | 70 | 130 | | | |
| 2,2-Dichloropropane | 5.07 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| 1,1-Dichloropropene | 4.78 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| cis-1,3-Dichloropropene | 4.32 | ug/L | 0.50 | 86 | 70 | 130 | | | |
| trans-1,3-Dichloropropene | 4.39 | ug/L | 0.50 | 88 | 70 | 130 | | | |
| Ethylbenzene | 4.87 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| Hexachlorobutadiene | 4.74 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| Isopropylbenzene | 4.31 | ug/L | 0.50 | 86 | 70 | 130 | | | |
| p-Isopropyltoluene | 4.57 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 4.73 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| Methylene chloride | 3.79 | ug/L | 0.50 | 76 | 70 | 130 | | | |
| Naphthalene | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| n-Propylbenzene | 4.46 | ug/L | 0.50 | 89 | 70 | 130 | | | |
| Styrene | 4.85 | ug/L | 0.50 | 97 | 70 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------|--|-------|------|------|-----------|------------|-------------------------|----------|------|
| Method: E524.2 | | | | | | | Analytical Run: R331331 | | |
| Lab ID: CCV112119_ | Continuing Calibration Verification Standard | | | | | | 11/21/19 10:35 | | |
| 1,1,1,2-Tetrachloroethane | 4.92 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 1,1,2,2-Tetrachloroethane | 4.02 | ug/L | 0.50 | 80 | 70 | 130 | | | |
| Tetrachloroethene | 5.22 | ug/L | 0.50 | 104 | 70 | 130 | | | |
| Toluene | 4.94 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| 1,2,3-Trichlorobenzene | 4.45 | ug/L | 0.50 | 89 | 70 | 130 | | | |
| 1,2,4-Trichlorobenzene | 4.79 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| 1,1,1-Trichloroethane | 4.79 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| 1,1,2-Trichloroethane | 4.37 | ug/L | 0.50 | 87 | 70 | 130 | | | |
| Trichloroethene | 4.82 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Trichlorofluoromethane | 4.21 | ug/L | 0.50 | 84 | 70 | 130 | | | |
| 1,2,3-Trichloropropane | 4.21 | ug/L | 0.50 | 84 | 70 | 130 | | | |
| 1,2,4-Trimethylbenzene | 4.94 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| 1,3,5-Trimethylbenzene | 4.96 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| Vinyl chloride | 3.93 | ug/L | 0.50 | 79 | 70 | 130 | | | |
| m+p-Xylenes | 10.2 | ug/L | 0.50 | 102 | 70 | 130 | | | |
| o-Xylene | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| Trihalomethanes, Total | 18.6 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| Xylenes, Total | 15.0 | ug/L | 0.50 | 100 | 70 | 130 | | | |
| Surr: p-Bromofluorobenzene | | | 0.50 | 92 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | | | 0.50 | 92 | 70 | 130 | | | |
| Surr: Toluene-d8 | | | 0.50 | 107 | 70 | 130 | | | |

| | | | | | | | | | |
|-----------------------------|---------------------------|------|------|-----|-------------------------|-----|----------------|--|--|
| Method: E524.2 | | | | | | | Batch: R331331 | | |
| Lab ID: LCS112119_ | Laboratory Control Sample | | | | Run: VOA5975C.L_191121A | | 11/21/19 11:32 | | |
| Benzene | 4.56 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| Bromobenzene | 4.89 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| Bromochloromethane | 4.25 | ug/L | 0.50 | 85 | 70 | 130 | | | |
| Bromodichloromethane | 4.84 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| Bromoform | 4.77 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| Bromomethane | 4.08 | ug/L | 0.50 | 82 | 70 | 130 | | | |
| n-Butylbenzene | 4.50 | ug/L | 0.50 | 90 | 70 | 130 | | | |
| sec-Butylbenzene | 5.26 | ug/L | 0.50 | 105 | 70 | 130 | | | |
| tert-Butylbenzene | 4.81 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Carbon tetrachloride | 4.69 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| Chlorobenzene | 5.27 | ug/L | 0.50 | 105 | 70 | 130 | | | |
| Chlorodibromomethane | 5.12 | ug/L | 0.50 | 102 | 70 | 130 | | | |
| Chloroethane | 4.38 | ug/L | 0.50 | 88 | 70 | 130 | | | |
| Chloroform | 4.40 | ug/L | 0.50 | 88 | 70 | 130 | | | |
| Chloromethane | 4.16 | ug/L | 0.50 | 83 | 70 | 130 | | | |
| 2-Chlorotoluene | 5.12 | ug/L | 0.50 | 102 | 70 | 130 | | | |
| 4-Chlorotoluene | 5.04 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| 1,2-Dibromo-3-chloropropane | 4.16 | ug/L | 1.0 | 83 | 70 | 130 | | | |
| Dibromomethane | 4.45 | ug/L | 0.50 | 89 | 70 | 130 | | | |
| 1,2-Dichlorobenzene | 4.92 | ug/L | 0.50 | 98 | 70 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|---------------------------|-------|------|------|-------------------------|------------|----------------|----------|------|
| Method: E524.2 | | | | | | | Batch: R331331 | | |
| Lab ID: LCS112119_ | Laboratory Control Sample | | | | Run: VOA5975C.I_191121A | | 11/21/19 11:32 | | |
| 1,3-Dichlorobenzene | 5.23 | ug/L | 0.50 | 105 | 70 | 130 | | | |
| 1,4-Dichlorobenzene | 5.08 | ug/L | 0.50 | 102 | 70 | 130 | | | |
| Dichlorodifluoromethane | 4.71 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| 1,1-Dichloroethane | 4.53 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| 1,2-Dichloroethane | 3.98 | ug/L | 0.50 | 80 | 70 | 130 | | | |
| 1,2-Dibromoethane | 4.30 | ug/L | 0.50 | 86 | 70 | 130 | | | |
| 1,1-Dichloroethene | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| cis-1,2-Dichloroethene | 4.67 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| trans-1,2-Dichloroethene | 4.91 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 1,2-Dichloropropane | 4.63 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| 1,3-Dichloropropane | 4.19 | ug/L | 0.50 | 84 | 70 | 130 | | | |
| 2,2-Dichloropropane | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| 1,1-Dichloropropene | 4.51 | ug/L | 0.50 | 90 | 70 | 130 | | | |
| cis-1,3-Dichloropropene | 4.27 | ug/L | 0.50 | 85 | 70 | 130 | | | |
| trans-1,3-Dichloropropene | 4.08 | ug/L | 0.50 | 82 | 70 | 130 | | | |
| Ethylbenzene | 5.04 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| Hexachlorobutadiene | 4.71 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| Isopropylbenzene | 4.73 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| p-Isopropyltoluene | 4.86 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 4.58 | ug/L | 0.50 | 92 | 70 | 130 | | | |
| Methylene chloride | 3.71 | ug/L | 0.50 | 74 | 70 | 130 | | | |
| Naphthalene | 5.01 | ug/L | 0.50 | 100 | 70 | 130 | | | |
| n-Propylbenzene | 4.98 | ug/L | 0.50 | 100 | 70 | 130 | | | |
| Styrene | 5.14 | ug/L | 0.50 | 103 | 70 | 130 | | | |
| 1,1,1,2-Tetrachloroethane | 5.25 | ug/L | 0.50 | 105 | 70 | 130 | | | |
| 1,1,1,2,2-Tetrachloroethane | 4.17 | ug/L | 0.50 | 83 | 70 | 130 | | | |
| Tetrachloroethene | 5.49 | ug/L | 0.50 | 110 | 70 | 130 | | | |
| Toluene | 5.32 | ug/L | 0.50 | 106 | 70 | 130 | | | |
| 1,2,3-Trichlorobenzene | 4.73 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| 1,2,4-Trichlorobenzene | 4.93 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| 1,1,1-Trichloroethane | 4.32 | ug/L | 0.50 | 86 | 70 | 130 | | | |
| 1,1,2-Trichloroethane | 4.56 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| Trichloroethene | 4.93 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| Trichlorofluoromethane | 4.74 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| 1,2,3-Trichloropropane | 3.97 | ug/L | 0.50 | 79 | 70 | 130 | | | |
| 1,2,4-Trimethylbenzene | 4.92 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 1,3,5-Trimethylbenzene | 5.17 | ug/L | 0.50 | 103 | 70 | 130 | | | |
| Vinyl chloride | 4.49 | ug/L | 0.50 | 90 | 70 | 130 | | | |
| m+p-Xylenes | 11.4 | ug/L | 0.50 | 114 | 70 | 130 | | | |
| o-Xylene | 5.28 | ug/L | 0.50 | 106 | 70 | 130 | | | |
| Trihalomethanes, Total | 19.1 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Xylenes, Total | 16.6 | ug/L | 0.50 | 111 | 70 | 130 | | | |
| Surr: p-Bromofluorobenzene | | | 0.50 | 99 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | | | 0.50 | 89 | 70 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|---------------------------|-------|------|-------------------------|-----------|------------|----------------|----------|------|
| Method: E524.2 | | | | | | | Batch: R331331 | | |
| Lab ID: LCS112119_ | Laboratory Control Sample | | | Run: VOA5975C.I_191121A | | | 11/21/19 11:32 | | |
| Surr: Toluene-d8 | | | 0.50 | 113 | 70 | 130 | | | |
| Lab ID: MBLK112119_ | Method Blank | | | Run: VOA5975C.I_191121A | | | 11/21/19 14:09 | | |
| Benzene | ND | ug/L | 0.50 | | | | | | |
| 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 | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------|--------------|-------|-------------------------|------|-----------|------------|----------------|----------|------|
| Method: E524.2 | | | | | | | Batch: R331331 | | |
| Lab ID: MBLK112119_ | Method Blank | | Run: VOA5975C.I_191121A | | | | 11/21/19 14:09 | | |
| 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 | | | | | | |
| 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 | 116 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | | | 0.50 | 88 | 70 | 130 | | | |
| Surr: Toluene-d8 | | | 0.50 | 108 | 70 | 130 | | | |

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------------|---------------------------|-------|------------------------|------|-----------|------------|----------------|----------|------|
| Method: E525.2 | | | | | | | Batch: 139617 | | |
| Lab ID: MB-139617 | Method Blank | | Run: SVSATURN2_191126A | | | | 11/26/19 17:52 | | |
| 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 | | | | | | |
| Butachlor | ND | ug/L | 0.10 | | | | | | |
| Chlordane | ND | ug/L | 1.0 | | | | | | |
| di(2-ethylhexyl)Adipate | ND | ug/L | 0.50 | | | | | | |
| di(2-ethylhexyl)Phthalate | ND | ug/L | 0.60 | | | | | | |
| 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 | 100 | 70 | 130 | | | |
| Surr: Perylene-d12 | | | 0.10 | 93 | 70 | 130 | | | |
| Surr: Pyrene-d10 | | | 0.10 | 86 | 70 | 130 | | | |
| Surr: Triphenylphosphate | | | 0.10 | 122 | 70 | 130 | | | |
| Lab ID: LCS-139617 | Laboratory Control Sample | | Run: SVSATURN2_191126A | | | | 11/26/19 19:09 | | |
| Alachlor | 2.35 | ug/L | 0.10 | 118 | 70 | 130 | | | |
| Aldrin | 1.88 | ug/L | 0.10 | 94 | 70 | 130 | | | |
| Atrazine | 2.14 | ug/L | 0.10 | 107 | 70 | 130 | | | |
| Benzo(a)pyrene | 2.19 | ug/L | 0.10 | 109 | 70 | 130 | | | |
| Butachlor | 2.65 | ug/L | 0.10 | 132 | 70 | 130 | | | S |
| di(2-ethylhexyl)Adipate | 2.13 | ug/L | 0.50 | 106 | 70 | 130 | | | |
| di(2-ethylhexyl)Phthalate | 2.56 | ug/L | 0.60 | 128 | 70 | 130 | | | |
| Dieldrin | 2.11 | ug/L | 0.10 | 105 | 70 | 130 | | | |
| Endrin | 2.55 | ug/L | 0.10 | 127 | 70 | 130 | | | |
| gamma-BHC (Lindane) | 2.41 | ug/L | 0.10 | 121 | 70 | 130 | | | |
| Heptachlor | 2.12 | ug/L | 0.10 | 106 | 70 | 130 | | | |
| Heptachlor epoxide | 1.95 | ug/L | 0.10 | 98 | 70 | 130 | | | |
| Hexachlorobenzene | 2.24 | ug/L | 0.10 | 112 | 70 | 130 | | | |
| Hexachlorocyclopentadiene | 2.19 | ug/L | 0.10 | 109 | 70 | 130 | | | |
| Methoxychlor | 2.67 | ug/L | 0.10 | 134 | 70 | 130 | | | S |
| Metolachlor | 2.20 | ug/L | 0.10 | 110 | 70 | 130 | | | |
| Metribuzin | 1.77 | ug/L | 0.10 | 89 | 70 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------------|---------------------------|-------|------|------------------------|-----------|------------|----------------|----------|------|
| Method: E525.2 | | | | | | | Batch: 139617 | | |
| Lab ID: LCS-139617 | Laboratory Control Sample | | | Run: SVSATURN2_191126A | | | 11/26/19 19:09 | | |
| Propachlor | 2.52 | ug/L | 0.10 | 126 | 70 | 130 | | | |
| Simazine | 1.90 | ug/L | 0.10 | 95 | 70 | 130 | | | |
| Surr: 1,3-Dimethyl-2-nitrobenzene | | | 0.10 | 97 | 70 | 130 | | | |
| Surr: Perylene-d12 | | | 0.10 | 93 | 70 | 130 | | | |
| Surr: Pyrene-d10 | | | 0.10 | 91 | 70 | 130 | | | |
| Surr: Triphenylphosphate | | | 0.10 | 114 | 70 | 130 | | | |
| Lab ID: CLD-139617 | Laboratory Control Sample | | | Run: SVSATURN2_191126A | | | 11/26/19 21:05 | | |
| Chlordane | 24.1 | ug/L | 1.0 | 121 | 70 | 130 | | | |
| Surr: 1,3-Dimethyl-2-nitrobenzene | | | 0.10 | 100 | 70 | 130 | | | |
| Surr: Perylene-d12 | | | 0.10 | 86 | 70 | 130 | | | |
| Surr: Pyrene-d10 | | | 0.10 | 89 | 70 | 130 | | | |
| Surr: Triphenylphosphate | | | 0.10 | 125 | 70 | 130 | | | |
| Lab ID: B19111917-001FMS | Sample Matrix Spike | | | Run: SVSATURN2_191126A | | | 11/26/19 19:48 | | |
| Alachlor | 4.18 | ug/L | 0.20 | 104 | 70 | 130 | | | |
| Aldrin | 4.08 | ug/L | 0.20 | 102 | 70 | 130 | | | |
| Atrazine | 4.48 | ug/L | 0.20 | 112 | 70 | 130 | | | |
| Benzo(a)pyrene | 4.74 | ug/L | 0.20 | 119 | 70 | 130 | | | |
| Butachlor | 5.30 | ug/L | 0.20 | 132 | 70 | 130 | | | S |
| di(2-ethylhexyl)Adipate | 4.72 | ug/L | 1.0 | 118 | 70 | 130 | | | |
| di(2-ethylhexyl)Phthalate | 5.46 | ug/L | 1.2 | 137 | 70 | 130 | | | S |
| Dieldrin | 4.12 | ug/L | 0.20 | 103 | 70 | 130 | | | |
| Endrin | 5.66 | ug/L | 0.20 | 142 | 70 | 130 | | | S |
| gamma-BHC (Lindane) | 4.84 | ug/L | 0.20 | 121 | 70 | 130 | | | |
| Heptachlor | 4.48 | ug/L | 0.20 | 112 | 70 | 130 | | | |
| Heptachlor epoxide | 4.00 | ug/L | 0.20 | 100 | 70 | 130 | | | |
| Hexachlorobenzene | 4.64 | ug/L | 0.20 | 116 | 70 | 130 | | | |
| Hexachlorocyclopentadiene | 4.02 | ug/L | 0.20 | 100 | 70 | 130 | | | |
| Methoxychlor | 5.62 | ug/L | 0.20 | 141 | 70 | 130 | | | S |
| Metolachlor | 4.28 | ug/L | 0.20 | 107 | 70 | 130 | | | |
| Metribuzin | 3.44 | ug/L | 0.20 | 86 | 70 | 130 | | | |
| Propachlor | 4.72 | ug/L | 0.20 | 118 | 70 | 130 | | | |
| Simazine | 3.56 | ug/L | 0.20 | 89 | 70 | 130 | | | |
| Surr: 1,3-Dimethyl-2-nitrobenzene | | | 0.20 | 97 | 70 | 130 | | | |
| Surr: Perylene-d12 | | | 0.20 | 93 | 70 | 130 | | | |
| Surr: Pyrene-d10 | | | 0.20 | 85 | 70 | 130 | | | |
| Surr: Triphenylphosphate | | | 0.20 | 118 | 70 | 130 | | | |
| Lab ID: B19111952-001EMS | Sample Matrix Spike | | | Run: SVSATURN2_191126A | | | 11/26/19 20:26 | | |
| Alachlor | 4.22 | ug/L | 0.20 | 105 | 70 | 130 | | | |
| Aldrin | 3.46 | ug/L | 0.20 | 87 | 70 | 130 | | | |
| Atrazine | 4.18 | ug/L | 0.20 | 104 | 70 | 130 | | | |
| Benzo(a)pyrene | 4.52 | ug/L | 0.20 | 113 | 70 | 130 | | | |
| Butachlor | 4.82 | ug/L | 0.20 | 121 | 70 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------------|---------------------|-------|------------------------|------|-----------|------------|----------------|----------|------|
| Method: E525.2 | | | | | | | Batch: 139617 | | |
| Lab ID: B19111952-001EMS | Sample Matrix Spike | | Run: SVSATURN2_191126A | | | | 11/26/19 20:26 | | |
| di(2-ethylhexyl)Adipate | 4.38 | ug/L | 1.0 | 109 | 70 | 130 | | | |
| di(2-ethylhexyl)Phthalate | 5.20 | ug/L | 1.2 | 130 | 70 | 130 | | | |
| Dieldrin | 4.24 | ug/L | 0.20 | 106 | 70 | 130 | | | |
| Endrin | 5.16 | ug/L | 0.20 | 129 | 70 | 130 | | | |
| gamma-BHC (Lindane) | 4.66 | ug/L | 0.20 | 117 | 70 | 130 | | | |
| Heptachlor | 4.06 | ug/L | 0.20 | 101 | 70 | 130 | | | |
| Heptachlor epoxide | 3.66 | ug/L | 0.20 | 92 | 70 | 130 | | | |
| Hexachlorobenzene | 4.24 | ug/L | 0.20 | 106 | 70 | 130 | | | |
| Hexachlorocyclopentadiene | 3.48 | ug/L | 0.20 | 87 | 70 | 130 | | | |
| Methoxychlor | 5.30 | ug/L | 0.20 | 132 | 70 | 130 | | | S |
| Metolachlor | 4.34 | ug/L | 0.20 | 108 | 70 | 130 | | | |
| Metribuzin | 3.36 | ug/L | 0.20 | 84 | 70 | 130 | | | |
| Propachlor | 4.24 | ug/L | 0.20 | 106 | 70 | 130 | | | |
| Simazine | 3.42 | ug/L | 0.20 | 86 | 70 | 130 | | | |
| Surr: 1,3-Dimethyl-2-nitrobenzene | | | 0.20 | 96 | 70 | 130 | | | |
| Surr: Perylene-d12 | | | 0.20 | 94 | 70 | 130 | | | |
| Surr: Pyrene-d10 | | | 0.20 | 88 | 70 | 130 | | | |
| Surr: Triphenylphosphate | | | 0.20 | 113 | 70 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/06/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------------|--|-------|------|------|-----------|------------|-------------------------|----------|------|
| Method: E525.2 | | | | | | | Analytical Run: R331584 | | |
| Lab ID: 525_CCV_5 | Continuing Calibration Verification Standard | | | | | | 11/26/19 14:40 | | |
| Alachlor | 1.88 | ug/L | 0.10 | 94 | 70 | 130 | | | |
| Aldrin | 1.84 | ug/L | 0.10 | 92 | 70 | 130 | | | |
| Atrazine | 2.05 | ug/L | 0.10 | 102 | 70 | 130 | | | |
| Benzo(a)pyrene | 1.95 | ug/L | 0.10 | 98 | 70 | 130 | | | |
| Butachlor | 2.27 | ug/L | 0.10 | 114 | 70 | 130 | | | |
| di(2-ethylhexyl)Adipate | 1.94 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| di(2-ethylhexyl)Phthalate | 2.25 | ug/L | 0.60 | 113 | 70 | 130 | | | |
| Dieldrin | 2.02 | ug/L | 0.10 | 101 | 70 | 130 | | | |
| Endrin | 2.43 | ug/L | 0.10 | 122 | 70 | 130 | | | |
| gamma-BHC (Lindane) | 2.17 | ug/L | 0.10 | 108 | 70 | 130 | | | |
| Heptachlor | 1.97 | ug/L | 0.10 | 99 | 70 | 130 | | | |
| Heptachlor epoxide | 1.97 | ug/L | 0.10 | 99 | 70 | 130 | | | |
| Hexachlorobenzene | 1.97 | ug/L | 0.10 | 99 | 70 | 130 | | | |
| Hexachlorocyclopentadiene | 2.12 | ug/L | 0.10 | 106 | 70 | 130 | | | |
| Methoxychlor | 2.37 | ug/L | 0.10 | 119 | 70 | 130 | | | |
| Metolachlor | 2.02 | ug/L | 0.10 | 101 | 70 | 130 | | | |
| Metribuzin | 1.84 | ug/L | 0.10 | 92 | 70 | 130 | | | |
| Propachlor | 1.92 | ug/L | 0.10 | 96 | 70 | 130 | | | |
| Simazine | 1.50 | ug/L | 0.10 | 75 | 70 | 130 | | | |
| Surr: 1,3-Dimethyl-2-nitrobenzene | | | 0.10 | 100 | 70 | 130 | | | |
| Surr: Perylene-d12 | | | 0.10 | 101 | 70 | 130 | | | |
| Surr: Pyrene-d10 | | | 0.10 | 88 | 70 | 130 | | | |
| Surr: Triphenylphosphate | | | 0.10 | 97 | 70 | 130 | | | |
| Lab ID: CLD_CCV_5 | Continuing Calibration Verification Standard | | | | | | 11/26/19 15:57 | | |
| Chlordane | 19.4 | ug/L | 1.0 | 97 | 70 | 130 | | | |
| Surr: 1,3-Dimethyl-2-nitrobenzene | | | 0.10 | 97 | 70 | 130 | | | |
| Surr: Perylene-d12 | | | 0.10 | 97 | 70 | 130 | | | |
| Surr: Pyrene-d10 | | | 0.10 | 89 | 70 | 130 | | | |
| Surr: Triphenylphosphate | | | 0.10 | 101 | 70 | 130 | | | |
| Lab ID: TOX_CCV_5 | Continuing Calibration Verification Standard | | | | | | 11/26/19 16:35 | | |
| Toxaphene | 45.6 | ug/L | 2.0 | 114 | 70 | 130 | | | |
| Surr: 1,3-Dimethyl-2-nitrobenzene | | | 0.10 | 99 | 70 | 130 | | | |
| Surr: Perylene-d12 | | | 0.10 | 94 | 70 | 130 | | | |
| Surr: Pyrene-d10 | | | 0.10 | 89 | 70 | 130 | | | |
| Surr: Triphenylphosphate | | | 0.10 | 100 | 70 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/05/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|---------|--------|-------|----|------|-----------|------------|-----|----------|------|
|---------|--------|-------|----|------|-----------|------------|-----|----------|------|

Method: E531.1

Analytical Run: HPLC1-C_191125A

| Lab ID: | CCV | Continuing Calibration Verification Standard | | | | | | 11/25/19 12:48 | |
|---------------------|------|--|-----|-----|----|-----|--|----------------|--|
| Aldicarb | 9.7 | ug/L | 1.0 | 97 | 80 | 120 | | | |
| Aldicarb sulfone | 8.9 | ug/L | 1.0 | 89 | 80 | 120 | | | |
| Aldicarb sulfoxide | 8.9 | ug/L | 1.0 | 89 | 80 | 120 | | | |
| Carbaryl | 10.3 | ug/L | 1.0 | 103 | 80 | 120 | | | |
| 3-Hydroxycarbofuran | 9.3 | ug/L | 1.0 | 93 | 80 | 120 | | | |
| Carbofuran | 9.8 | ug/L | 1.0 | 98 | 80 | 120 | | | |
| Methiocarb | 10.4 | ug/L | 1.0 | 104 | 80 | 120 | | | |
| Methomyl | 9.2 | ug/L | 1.0 | 92 | 80 | 120 | | | |
| Oxamyl | 9.0 | ug/L | 1.0 | 90 | 80 | 120 | | | |
| Baygon | 10.0 | ug/L | 1.0 | 100 | 80 | 120 | | | |
| Surr: BDMC | | | 1.0 | 104 | 70 | 130 | | | |

Method: E531.1

Batch: R253505

| Lab ID: | MBLK | Method Blank | | Run: HPLC1-C_191125A | | | 11/25/19 14:33 | |
|---------------------|------|--------------|-----|----------------------|----|-----|----------------|--|
| Aldicarb | ND | ug/L | 0.3 | | | | | |
| Aldicarb sulfone | ND | ug/L | 0.3 | | | | | |
| Aldicarb sulfoxide | ND | ug/L | 0.2 | | | | | |
| Carbaryl | ND | ug/L | 0.2 | | | | | |
| 3-Hydroxycarbofuran | ND | ug/L | 0.2 | | | | | |
| Carbofuran | ND | ug/L | 0.3 | | | | | |
| Methiocarb | ND | ug/L | 0.2 | | | | | |
| Methomyl | ND | ug/L | 0.2 | | | | | |
| Oxamyl | ND | ug/L | 0.3 | | | | | |
| Baygon | ND | ug/L | 0.3 | | | | | |
| Surr: BDMC | | | | 105 | 70 | 130 | | |

| Lab ID: | LCS | Laboratory Control Sample | | Run: HPLC1-C_191125A | | | 11/25/19 15:24 | |
|---------------------|-----|---------------------------|-----|----------------------|----|-----|----------------|--|
| Aldicarb | 8.0 | ug/L | 1.0 | 100 | 80 | 120 | | |
| Aldicarb sulfone | 7.2 | ug/L | 1.0 | 90 | 80 | 120 | | |
| Aldicarb sulfoxide | 8.0 | ug/L | 1.0 | 100 | 80 | 120 | | |
| Carbaryl | 7.8 | ug/L | 1.0 | 97 | 80 | 120 | | |
| 3-Hydroxycarbofuran | 7.7 | ug/L | 1.0 | 97 | 80 | 120 | | |
| Carbofuran | 8.5 | ug/L | 1.0 | 106 | 80 | 120 | | |
| Methiocarb | 8.2 | ug/L | 1.0 | 102 | 80 | 120 | | |
| Methomyl | 7.7 | ug/L | 1.0 | 96 | 80 | 120 | | |
| Oxamyl | 7.8 | ug/L | 1.0 | 97 | 80 | 120 | | |
| Baygon | 7.8 | ug/L | 1.0 | 97 | 80 | 120 | | |
| Surr: BDMC | | | 1.0 | 101 | 70 | 130 | | |

| Lab ID: | C19110789-001FMS | Sample Matrix Spike | | Run: HPLC1-C_191125A | | | 11/25/19 19:42 | |
|--------------------|------------------|---------------------|-----|----------------------|----|-----|----------------|--|
| Aldicarb | 8.0 | ug/L | 1.0 | 100 | 65 | 135 | | |
| Aldicarb sulfone | 7.1 | ug/L | 1.0 | 89 | 65 | 135 | | |
| Aldicarb sulfoxide | 7.9 | ug/L | 1.0 | 98 | 65 | 135 | | |
| Carbaryl | 8.3 | ug/L | 1.0 | 104 | 65 | 135 | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Lehrkinds Big Spring

Work Order: B19111917

Report Date: 12/05/19

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|---------|--------|-------|----|------|-----------|------------|-----|----------|------|
|---------|--------|-------|----|------|-----------|------------|-----|----------|------|

Method: E531.1

Batch: R253505

| Lab ID: | C19110789-001FMS | Sample Matrix Spike | Run: HPLC1-C_191125A | | | | 11/25/19 19:42 | | | |
|---------------------|------------------|---------------------|----------------------|-----|----|-----|----------------|--|--|--|
| 3-Hydroxycarbofuran | 7.8 | ug/L | 1.0 | 97 | 65 | 135 | | | | |
| Carbofuran | 8.2 | ug/L | 1.0 | 102 | 65 | 135 | | | | |
| Methiocarb | 8.6 | ug/L | 1.0 | 107 | 65 | 135 | | | | |
| Methomyl | 7.5 | ug/L | 1.0 | 94 | 65 | 135 | | | | |
| Oxamyl | 7.8 | ug/L | 1.0 | 97 | 65 | 135 | | | | |
| Baygon | 8.4 | ug/L | 1.0 | 105 | 65 | 135 | | | | |
| Surr: BDMC | | | 1.0 | 106 | 70 | 130 | | | | |

| Lab ID: | C19110789-001FMSD | Sample Matrix Spike Duplicate | Run: HPLC1-C_191125A | | | | 11/25/19 20:34 | | | |
|---------------------|-------------------|-------------------------------|----------------------|-----|----|-----|----------------|----|--|--|
| Aldicarb | 7.3 | ug/L | 1.0 | 91 | 65 | 135 | 9.4 | 20 | | |
| Aldicarb sulfone | 6.4 | ug/L | 1.0 | 80 | 65 | 135 | 10 | 20 | | |
| Aldicarb sulfoxide | 7.1 | ug/L | 1.0 | 89 | 65 | 135 | 9.6 | 20 | | |
| Carbaryl | 8.4 | ug/L | 1.0 | 105 | 65 | 135 | 0.7 | 20 | | |
| 3-Hydroxycarbofuran | 7.1 | ug/L | 1.0 | 89 | 65 | 135 | 8.9 | 20 | | |
| Carbofuran | 7.6 | ug/L | 1.0 | 96 | 65 | 135 | 6.9 | 20 | | |
| Methiocarb | 7.9 | ug/L | 1.0 | 98 | 65 | 135 | 8.5 | 20 | | |
| Methomyl | 7.1 | ug/L | 1.0 | 89 | 65 | 135 | 5.9 | 20 | | |
| Oxamyl | 7.1 | ug/L | 1.0 | 88 | 65 | 135 | 9.3 | 20 | | |
| Baygon | 7.7 | ug/L | 1.0 | 97 | 65 | 135 | 7.8 | 20 | | |
| Surr: BDMC | | | 1.0 | 100 | 70 | 130 | 0.0 | 20 | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Work Order Receipt Checklist

Lehrkinds Big Spring

B19111917

Login completed by: Briana G. Sangiuliano

Date Received: 11/21/2019

Reviewed by: BL2000\gmccartney

Received by: slm

Reviewed Date: 11/22/2019

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 type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" 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 type="checkbox"/> | No <input checked="" type="checkbox"/> | Not Applicable <input type="checkbox"/> |
| Container/Temp Blank temperature: | °C No Ice | | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input 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.

Contact and Corrective Action Comments:

The Temperature Blank temperature for shipping container 1 was 1.7°C on ice. The temperature of the sample(s) for shipping container 2 was 10.2°C on no ice and shipping container 3 was 10.4°C on no ice.

Custody Seal was on only one of three coolers.

All analyses for samples Spring and Distilled were sub-sampled and preserved in lab. In accordance with the Safe Drinking Water Act, the Metals samples must be held 24 hours prior to analysis.

Sample collection date and time starts at the time of subsampling and preservation per Wynn Pippin, Energy Laboratory Project Manager. The sample Spring was subsampled and preserved on 11/21/19 at 11:45 and sample Distilled was subsampled and preserved on 11/21/19 at 12:05.

All containers for the sample Source were marked as filtered by the client. Proceed with all analysis as total per client



Work Order Receipt Checklist - Continued

Lehrkinds Big Spring

B19111917

history.



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Chain of Custody & Analytical Request Record

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Account Information (Billing Information)

Company/Name: Lechekinds Inc
 Contact: Rae Sising
 Phone: (406) 586-2029
 Mailing Address: 1715 N. Rowe
 City State, Zip: Bozeman MT 59719
 Email: rsising@lechekinds.com
 Receive Invoice Hard Copy Email
 Purchase Order: 8183
 Quote: 137884
 Bottle Order: 137884

Report Information (if different than Account Information)

Company/Name: Lechekinds Big Spring Water
 Contact: Dan Sates
 Phone: (406) 538-3433
 Mailing Address: 201 1st Ave. N.
 City State, Zip: Lewistown MT 59457
 Email: Ltouaprad@lechekinds.com
 Receive Report Hard Copy Email
 Special Report/Formats: LEVEL IV NELAC EDD/EDT (contact laboratory) Other

Comments: ID's per time containers. 11/21/19

Project Information

Project Name, PWSID, Permit, etc.: PWS 001229
 Sampler Name: Dan Sates
 Sampler Phone: (406) 366-2161
 Sample Origin State: MT
 EPA/State Compliance: Yes No
 WARNING CLIENTS, please indicate sample type.
 *If one has been processed or refined call before sending.
 Byproduct 11 (e)2 material Unprocessed ore (NOT ground or refined)*

Matrix Codes

- A Air
- W Water
- S- Soils
- V Vegetation
- B Biossary
- O Other
- DW Drinking Water

Analysis Requested

| Analysis Requested | Number of Containers | Matrix (See Codes Above) |
|--------------------|----------------------|--------------------------|
| Metals | 4 | DW |
| Trace Metals | 2 | DW |
| Organic | 1 | DW |
| Inorganic | 2 | DW |
| Other | 2 | DW |

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 (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | ELI LAB ID Laboratory Use Only |
|--|-----------------|-----------------|----------------------|--------------------------|--------------------------------|
| 14-1 Gal Plastic Springs | 11-19-19 | 10:30 AM | 4 | DW | B1911917-001 |
| 2-1 Gal Plastic Distilled | 11-18-19 | 8:50 AM | 2 | DW | -002 |
| 3-1 Liter Plastic Source | 11-20-19 | 13:45 | 1 | DW | -003 |
| 4-2-250ml Plastic Source | 11-20-19 | 13:45 | 2 | DW | |
| 5-2-1 Liter Amber Glass Source | 11-20-19 | 13:45 | 2 | DW | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

Received by (print): [Signature]
 Date/Time: 11/21/19 09:30
 Signature: [Signature]
 Amount: \$
 Payment Type: Cash Check
 Receipt Number (cash/check only):
 Shipped By: [Signature]
 Cooler ID(s): Y N C B
 Custody Seals: Y N C B
 Intact: Y N
 Receipt Temp: °C
 Temp Blank: Y N
 On Ice: Y N
 Laboratory Use Only: [Signature]



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Billings, MT 900.735.4489 • Casper, WY 888.235.0515 • Gillette, WY 866.886.7175 • Helena, MT 877.472.0711

BOTTLE ORDER 137884



SHIPPED TO: Lehrkinds Big Spring

Contact: Don Cates
201 1st Ave N

Lewistown MT 59457

Phone:

Project: yearly samples

Order Created by: Wynn Pippin
Shipped From: Billings, MT

Ship Date: 11/18/2019
VIA: Ground

| Bottle Size/Type | Bottles Per Samp | Method | Tests | Critical Hold Time | Preservative | Notes | Num of Samp |
|----------------------------------|------------------|-----------|---|--------------------|--|-------|-------------|
| Source Water | | | | | | | |
| 1 Liter Plastic | 1 | A2540 C | Solids, Total Dissolved | | | | 1 |
| | | A2120 B | Color | 48 00 hrs | | | |
| | | A2130 B | Turbidity | 48 00 hrs | | | |
| | | A4500-H B | pH | 0 25 hrs | | | |
| | | E300 0 | Chloride Sulfate/Anions by Ion Chromatography | | | | |
| | | A4500-F C | Fluoride | | | | |
| | | A2320 B | Alkalinity | | | | |
| 250 mL Plastic | 1 | E353 2 | Nitrogen, Nitrate + Nitrite | | <input type="checkbox"/> H2SO4 | | 1 |
| 250 mL Plastic | 1 | E200 7_8 | Metals by ICP/ICPMS, Drinking Water | | <input checked="" type="checkbox"/> HNO3 | | 1 |
| 1 Liter Amber Glass Narrow Mouth | 2 | A2150 B | Odor | 24 00 hrs | | | 1 |

Comments

Also send 4-gallons of Spring water, and 2 gallons of distilled water

- HNO3 - Nitric Acid
- H2SO4 - Sulfuric Acid
- NaOH - Sodium Hydroxide
- ZnAc - Zinc Acetate
- HCl - Hydrochloric Acid
- H3PO4 - Phosphoric Acid

We strongly suggest that the samples are shipped the same day as they are collected.

Material Safety Data Sheets(MSDS) Available @ EnergyLab.com ->Services -> MSDS Sheets

Corrosive Chemicals Nitric, Sulfuric, Phosphoric, Hydrochloric Acids and Sodium Hydroxide. Zinc Acetate is a skin irritant.

Subcontracting of sample analyses to an outside laboratory may be required. If so, Energy Laboratories will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report