

April 15, 2022

Ms. Hillary Young, P.E.
Chief Engineer
Land Protection Division
Oklahoma Department of Environmental Quality
707 N. Robinson
P.O. Box 1677
Oklahoma City, OK 73162

Re: Second Report to Monitor Progress of Semi-Annual CMA Sampling at Landfill CCR Unit
Western Farmers Electric Cooperative (WFEC) - Hugo Power Station, Fort Towson, Oklahoma

Dear Ms. Young:

Enclosed, please find a copy of the above referenced report. The DEQ has approved a minimum two-year sample and evaluation period to establish the effectiveness of enhanced dewatering combined with monitored natural attenuation as a corrective measure alternative for molybdenum exceedances associated with WFEC'S Landfill CCR Unit. This report monitors progress of semi-annual sampling conducted to date. A copy of this report will be placed in the facility's operating record and on the facility's publicly accessible internet web-site.

Please notify me at 405-247-4298 or at k_fletcher@wfec.com if you have any questions.

Sincerely,



Kent Fletcher
Environmental Coordinator

cc: John McCreight / Western Farmers Electric Cooperation
Chris Schaefer and Bert Smith / Altamira-US, LLC

Proudly serving the following members in Oklahoma and New Mexico:

Alfalfa Electric Cooperative • Altus Air Force Base • Canadian Valley Electric Cooperative • Central Valley Electric Cooperative •
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Oklahoma Electric Cooperative • Red River Valley Rural Electric Association • Roosevelt County Electric Cooperative •
Rural Electric Cooperative • Southeastern Electric Cooperative • Southwest Rural Electric Association

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Re: Second Report to Monitor Progress of Semi-Annual CMA Sampling at Landfill CCR Unit
Western Farmers Electric Cooperative – Hugo Power Station, Fort Towson, Oklahoma

Dear Ms. Young:

Assessment Monitoring at Western Farmers Electric Cooperative's (WFEC's) Hugo Power Station (HPS) has indicated molybdenum at statistically significant levels (SSLs) above established groundwater protection standards (GWPSs) in 4 of 10 downgradient monitoring wells associated with its Landfill Coal Combustion Residuals (CCR) Unit. Molybdenum has been indicated at SSLs above the GWPSs at MW-15A, MW-16, MW-18, and MW-19S.

Laboratory testing has been provided to the Oklahoma Department of Environmental Quality (ODEQ) that shows the molybdenum adsorbs to the native rock material and does not leach from the native rock to groundwater. Furthermore, hydrogeologic characterization performed shows very slow groundwater movement with limited transport of molybdenum that has not, and probably will not, leave the HPS site property boundary at concentrations exceeding the GWPSs. A preliminary risk evaluation was performed indicating the groundwater constituents do not pose a hazard to potential on-site or off-site human or ecological receptors.

An Assessment of Corrective Measures Report was submitted to ODEQ on October 27, 2020. Based on evaluations included in the Assessment of Corrective Measures Report, source control via enhanced dewatering combined with monitored natural attenuation (MNA) was proposed as a corrective measure alternative for the molybdenum. A minimum of two years of semi-annual sampling of monitoring wells downgradient of the CCR landfill was proposed to establish the effectiveness of this alternative prior to selection of a final remedy. The Assessment of Corrective Measures Report and the two-year sample and evaluation period were approved by ODEQ on December 29, 2020, contingent upon submittal of semi-annual reports to ODEQ to monitor progress. This submittal constitutes the second semi-annual report for the first year of monitoring (2021).

ACTIVITIES COMPLETED (SECOND HALF OF 2021)

- 1) Dewatering of the Landfill CCR Unit was initiated in March 2020 and continues as water accumulates in the Landfill CCR Unit following rainfall events. Standing water that accumulates in the Landfill CCR Unit following rainfall is pumped from the north side of the CCR Unit as practicable and conveyed to Impoundment FO8 pursuant to OPDES permit (OK0035327. The Landfill CCR Unit does not contain sufficient standing water to pump during periods of little or no rainfall. Conversely, several consecutive days of pumping may be required to remove standing water from the Landfill CCR Unit after large rainfall events. Through April 4, 2022, records show that a total of 1,122.2 hours of pumping have been conducted to prevent standing water from accumulating in the Landfill CCR Unit since dewatering was initiated in March 2020. WFEC continues to maintain stormwater run-on controls to limit surface water entering into the Landfill CCR Unit.
- 2) The second semi-annual sampling of select monitoring wells as contained in the approved Assessment of Corrective Measures Report was conducted in October 2021. Wells sampled include the 4 wells where molybdenum had been identified at SSLs above the GWPS (MW-15A, MW-16, MW-18, and MW-19S), and monitoring wells MW-5S, MW-7S, MW-15B, MW-17, MW-22A, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B. The approximate locations of monitoring wells sampled are shown on the figure in **Attachment A**. Monitoring well MW-14A was also sampled to evaluate background conditions.
- 3) Each of these wells was purged prior to sampling. Purging was accomplished using dedicated submersible pumps (MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-17, MW-18, MW-19S, and MW-22A), dedicated peristaltic pumps (CM-1A, CM-1B, and CM-2) and dedicated bailers (MW-15B, MW-22B, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B). Field readings of temperature, pH, and conductivity were maintained during purging of the wells. Purging was continued until water was sufficiently clear and field readings stabilized (where using submersible and peristaltic pumps) or until a well was purged dry (when bailing).
- 4) Groundwater samples were collected after purging. The groundwater samples were collected using dedicated submersible pumps, dedicated peristaltic pumps, or dedicated bailers and placed directly into appropriately preserved laboratory-prepared containers. The samples were labeled as to sample location, placed under chain-of-custody control, packed in ice, and shipped to ALS Environmental Laboratories (Oklahoma Certification 2020-165).

- 5) Each of the wells was sampled and the samples analyzed for parameters listed in the approved Assessment of Corrective Measures Report. Sampling parameters included molybdenum, dissolved molybdenum, and CCR Appendix III parameters (boron, chloride, pH, TDS, calcium, fluoride, and sulfate). Additionally, wells were monitored for indicator parameters to evaluate monitored natural attenuation (MNA). These indicator parameters included oxidation reduction potential (ORP), pH, specific conductance, total dissolved solids, nitrate, sulfide, total and dissolved iron, total and dissolved ferrous iron (Fe(II)), total and dissolved ferric iron (Fe(III)), dissolved oxygen (DO), and alkalinity. Samples for TDS, sulfide, nitrate, alkalinity, and all of the iron species were analyzed at the laboratory. The ORP and DO for each well were measured in the field. Specific conductance and pH for each well were both measured in the field and analyzed at the laboratory.

EVALUATION OF DATA

Laboratory reports from the October 2021 sampling are included in **Attachment B**. A running and updated tabulation of data to include results from the October 2021 sampling is contained in **Attachment C**. Oxidation-reduction reactions typically dictate molybdenum mobilization with molybdenum increasing in concentration as a result of reducing conditions, pH-induced desorption/dissolution, and microbial dissimilatory processes. Mineral co-precipitation/re-adsorption reactions typically dictate molybdenum immobilization. The data from the October 2021 sampling was compared to previously available data and evaluated to discern changes in molybdenum concentration and changes in the subsurface environment over time and distance. The following observations are made from this evaluation:

- 1) The October 2021 sampling was the eleventh sampling event for molybdenum (dating to August 2017) at monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-17, MW-18, and MW-19S; the tenth sampling event for molybdenum (dating to August 2017) at monitoring well MW-22A; and the fourth sampling event for molybdenum (dating to July 2020) at monitoring wells MW-15B, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5B. Sufficient water was not available to sample CM-3B during the October 2021 sample event. From October 2021 sampling, molybdenum was identified at SSLs above GWPSs at MW-15A, MW-16, MW-18, and MW-19S. Reported molybdenum concentrations at these wells in decreasing order were 0.407 mg/L at MW-19S (east of the southern cell of the Landfill CCR Unit), 0.209 mg/L at MW18 (east of the southern cell of the Landfill CCR Unit), 0.163 mg/L at MW-16 (east of the northern Landfill CCR Unit), and 0.149 mg/L at MW-15A (north of the northern Landfill CCR Unit). Molybdenum concentrations attenuate significantly with distance from the Landfill CCR Unit. These wells had historically seen molybdenum levels above the GWPSs, and no new exceedances of the GWPSs were identified in any of the other wells.

- 2) Charts showing changes in molybdenum concentration over sampling history for each of the monitoring wells evaluated are included in **Attachment D**. These charts include a line of best fit generated by the Excel Trend Function using the least squares method. In most cases, the molybdenum concentration in site monitoring wells appears to have gone down slightly over the sampling history. The only exceptions are at monitoring wells MW-19S, CM-3B, and CM-5B. At MW-19S, the reported molybdenum concentration for October 2021 sampling is slightly higher but similar to that from the previous sampling event and at CM-5B the reported molybdenum concentration for October 2021 sampling is slightly lower but similar to that from the previous sampling event. At MW-15B, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5B interpretation of changes in molybdenum concentrations are based on only four sampling events conducted between July/August 2020 and October 2021. At CM-3B, sufficient water was not available in October 2021 for sample collection. Interpretation of changes in molybdenum concentrations for this well are based on only three sampling events conducted between August 2020 and April 2021.

For monitoring wells with more than four samplings, the mean molybdenum concentration from the four most recent sampling events was compared to the mean molybdenum concentration from sampling prior to the four most recent sampling events. The laboratory reporting level was used for determining mean concentrations where molybdenum was not identified. A comparison of mean molybdenum concentration from the four most recent sample events to that for the prior sampling events for wells evaluated is included in **Attachment E**. At all wells evaluated, except at MW-19S, the mean of the four most recent sampling events for molybdenum is lower than the mean from the prior molybdenum data. At MW-19S, the mean is slightly above but similar to that from the previous data.

Other analyses to evaluate possible statistical trends from the molybdenum data, such as a combination of the Mann-Kendall test and Sen's Slope Estimator, have not been completed as of this report.

- MW-5S: Molybdenum concentration from the October 2021 sampling event (0.00387 mg/L) is higher than those reported from the previous few sampling events, but still lower than concentrations historically reported at this well. Over the sampling history, the molybdenum concentration at this well appears to have decreased from 0.00737 mg/L in August 2017 to current levels.

A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.003065 mg/L) is 38% lower than the mean molybdenum concentration reported from sampling at this well conducted between August 2017 and October 2019 (0.0049 mg/L).

- MW-7S: Molybdenum concentration from October 2021 sampling (0.00115 mg/L) is higher than those reported from the previous few sampling events, but still lower than concentrations historically reported at this well. Over the sampling history, the molybdenum concentration at this well appears to have decreased from 0.00171 mg/L in August 2017 to current levels. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00100 mg/L) is 58% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and October 2019 (0.00240 mg/L).
- MW-14A: This monitoring well is an up-gradient background well. Molybdenum was not observed from October 2021 sampling at a concentration above the Method Detection Level (<0.0006 mg/L). Over the sampling history, the molybdenum at this well has decreased from 0.00223 mg/L in August 2017 to <0.0006 mg/L. Molybdenum has not been identified above the Method Detection Level since June 2020 sampling. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). Also, the mean molybdenum concentration over the past four sampling events at this well (0.00064 mg/L) is 83% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and October 2019 (0.0038 mg/L).
- MW-15A: Molybdenum concentration from October 2021 sampling (0.149 mg/L) is the lowest reported date at this well. The highest molybdenum concentrations over the sampling history are 0.269 mg/L in June 2020 and 0.255 mg/L in August 2017. Prior to October 2019 sampling, molybdenum concentrations were typically greater than 0.2 mg/L at this well. Molybdenum concentrations reported since that time have been below 0.2 mg/L with exception of that reported from June 2020 sampling. A line of best fit over the sampling period indicates a negative slope (apparent downward trend).

Also, the mean molybdenum concentration over the past four sampling events at this well (0.188 mg/L) is 12% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and October 2019 (0.213 mg/L).

- MW-15B: To date, this well has only been sampled four times for molybdenum. Molybdenum concentrations through four sampling events have continually decreased at MW-15B (0.0109 mg/L in July 2020, 0.00876 mg/L in October 2020, 0.00571 mg/L in March/April 2021, and 0.00328 mg/L in October 2021).
- MW-16: Molybdenum concentration from October 2021 sampling (0.163 mg/L) is slightly lower than that reported from the previous sampling event and is on the low end of those typically reported at this well. The highest molybdenum concentration to date for this well (0.193 mg/L) occurred in April 2019. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). The mean molybdenum concentration over the past four sampling events at this well (0.163 mg/L) is 3% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and October 2019 (0.167 mg/L).
- MW-17: Molybdenum was not observed above the laboratory reporting level (<0.0060) during October 2021 sampling and is not typically observed at concentrations above the laboratory reporting level at this well. Molybdenum was most recently observed above the laboratory reporting level during the March/April 2021 sampling event. A line of best fit over the sampling period indicates a negative slope (apparent downward trend) and the mean molybdenum concentration over the past four sampling events at this well (0.0006 mg/L) is 18% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and October 2019 (0.0008 mg/L). These differences are due primarily to a decrease in the laboratory reporting level.
- MW-18: Molybdenum concentration from October 2021 sampling (0.21 mg/L) is nearly identical to that from the previous sampling event and is on the low end of those previously reported at this well. Over the sampling history, the molybdenum concentration at this well has decreased from 0.39 mg/L in August 2017 to current levels. Concentrations greater than 0.3 mg/L have not been observed since April 2019. A line of best fit over the sampling period indicates a negative slope (apparent downward trend).

Also, the mean molybdenum concentration over the past four sampling events at this well (0.194 mg/L) is 35% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and October 2019 (0.298 mg/L).

- MW-19S: Molybdenum concentration from October 2021 sampling (0.407 mg/L) is slightly higher but similar to that from the previous sampling event and is on the low end of those previously reported at this well. A line of best fit over the sampling period indicates a slightly positive slope and the mean molybdenum concentration over the past four sampling events at this well (0.394 mg/L) is 1% higher than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and October 2019 (0.388 mg/L). However, the current reported molybdenum concentration is lower than those reported prior to October 2019 and the highest molybdenum concentration to date for this well (0.472 mg/L) occurred in January 2019.
- MW-22A: Molybdenum was not observed above the laboratory reporting level (<0.0060) during October 2021 sampling and is not typically observed at concentrations above the laboratory reporting level at this well. Molybdenum was most recently observed above the laboratory reporting level during the September 2019 sampling event. A line of best fit over the sampling period indicates a negative slope (apparent downward trend) and the mean molybdenum concentration over the past four sampling events at this well (0.0006 mg/L) is 28% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and October 2019 (0.0008 mg/L). These differences are due primarily to a decrease in the laboratory reporting level.
- MW-22B: To date, this well has only been sampled four times for molybdenum. Molybdenum concentrations through four sampling events have continually decreased at MW-22B (0.00878 mg/L in July 2020, 0.00866 mg/L in October 2020, 0.00753 in March/April 2021, and 0.00446 in October 2021).
- CM-1A: To date, this well has only been sampled four times for molybdenum. Molybdenum concentrations through four sampling events have continually decreased at CM-1A (0.0088 mg/L in July 2020, 0.00198 mg/L in October 2020, 0.00132 in March/April 2021, and 0.00127 mg/L in October 2021).

- CM-1B: To date, this well has only been sampled four times for molybdenum. Molybdenum concentrations appear to be decreasing. Reported molybdenum concentrations through four sampling events are 0.0133 mg/L in July 2020, 0.0144 mg/L in October 2020, 0.0113 mg/L in March/April 2021, and 0.00976 in October 2021.
- CM-2: To date, this well has only been sampled four times for molybdenum. Molybdenum concentrations through four sampling events have continually decreased at CM-2 (0.00209 mg/L in July 2020, 0.00203 mg/L in October 2020, 0.00161 mg/L in March/April 2021, and 0.0012 mg/L in October 2021).
- CM-3A: To date, this well has only been sampled four times for molybdenum. Molybdenum concentrations through four sampling events have continually decreased at CM-3A (0.0457 mg/L in July 2020, 0.0222 mg/L in October 2020, 0.0153 mg/L in March/April 2021, and 0.00297 in October 2021).
- CM-3B: This well did not contain sufficient water to collect a sample during the October 2021 sampling event. To date, this well has only been sampled three times for molybdenum. Molybdenum concentrations through three sampling events are 0.0327 mg/L in August 2020, 0.0318 mg/L in October 2020, and to 0.0353 mg/L in March/April 2021.
- CM-4A: To date, this well has only been sampled four times for molybdenum. Molybdenum concentrations appear to be decreasing. Molybdenum concentrations through four sampling events are 0.0269 mg/L in July 2020, 0.0271 mg/L in October 2020, 0.0212 in March/April 2021, and 0.0105 mg/L in October 2021.
- CM-4B: To date, this well has only been sampled four times for molybdenum. Molybdenum concentrations through four sampling events have continually decreased at CM-4B (0.0307 mg/L in July 2020, 0.0306 mg/L in October 2020, 0.0303 in March/April 2021, and 0.0131 in October 2021).
- CM-5A: To date, this well has only been sampled four times for molybdenum. Molybdenum concentrations appear to be decreasing. Molybdenum concentrations through four sampling events are 0.0205 mg/L in July 2020, 0.011 mg/L in October 2020, 0.0182 mg/L in March/April 2021, and 0.0058 mg/L in October 2021.

- CM-5B: To date, this well has only been sampled four times for molybdenum. Molybdenum concentrations through four sampling events are 0.04 mg/L in July 2020, 0.0394 mg/L in October 2020, 0.0536 mg/L in March/April 2021, and 0.0448 mg/L in October 2021.

3) The monitoring wells were sampled for CCR Appendix III parameters (boron, chloride, pH, TDS, calcium, fluoride, and sulfate). The October 2021 sampling was the eleventh sampling event for these compounds when sampled concurrently with molybdenum (dating to August 2017) at monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-18, and MW-19S; the tenth sampling event for these compounds when sampled concurrently with molybdenum (dating to August 2017) at monitoring well MW-22A; and the fourth sampling event for these compounds when sampled concurrently with molybdenum (dating to July 2020) at monitoring wells MW-15B, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5B. Monitoring well CM-3B did not contain sufficient water to sample during the October 2021 sampling event. Because of limited water availability, field pH and/or lab pH could not be obtained during all sampling events at some of the wells (CM-1B, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5B). Also, limited water availability at CM-1B precluded sampling of this well for pH, TDS, fluoride, and sulfate in March/April 2021. Charts comparing changes in concentration over time for CCR Appendix III parameters to changes in molybdenum concentration for each of the monitoring wells evaluated are included in **Attachment F**.

- The monitoring wells exhibiting the highest concentrations for molybdenum also exhibit the highest concentrations of boron. Data to date suggests possible correlations between changes in molybdenum and boron concentrations. Most notably, a decrease in molybdenum concentration at MW-18 appears to correlate to a similar decrease in boron concentrations at this well. Overall, boron concentrations appear to have decreased at most of the wells over the sampling history. However, the overall changes in boron concentrations have generally been minimal.
- Higher concentrations for molybdenum at site monitoring wells do not necessarily appear to correlate to higher or lower concentrations of chloride than those at other wells. The highest chloride concentrations consistently occur at wells away from the Landfill CCR Unit (CM-1B, CM-4A, CM-4B, CM-5A, and CM-5B) and one of the lower chloride concentrations is consistently observed occurs at MW-18. Data to date does suggest possible correlations between changes in chloride and molybdenum concentrations at some of the wells.

Most notably, a decrease in molybdenum concentration at MW-18 appears to correlate to a similar decrease in chloride concentration. Chloride concentrations appear to have slightly decreased at most of the wells over the sampling history.

- The monitoring wells exhibiting the highest concentrations for molybdenum also exhibit the highest pH. Monitoring wells MW-18 and MW-19S consistently register pH above 10 Standard Units. Data to date does not appear to suggest an overall correlation between changes in pH (neither field measured or laboratory reported) and changes in molybdenum concentration. However, possible correlations cannot be ruled out at a few of the monitoring wells.
- Higher concentrations for molybdenum at site monitoring wells do not necessarily appear to correlate to higher or lower TDS concentrations than those at other wells. The highest TDS concentrations consistently occur at wells away from the Landfill CCR Unit (CM-1A, CM-1B, MW-22A, and MW-22B). A possible correlation between changes in TDS and molybdenum concentrations are suggested at a few of the monitoring wells. Most notably, decreases in molybdenum concentrations at MW-15A and MW-18 appear to correlate to similar decreases in TDS concentrations.
- In general, site monitoring wells with the highest concentrations for molybdenum exhibit lower concentrations of calcium than those at other wells. Data to date suggests possible correlations between changes in molybdenum and calcium concentrations. Most notably, decreases in molybdenum concentrations at MW-15A, MW-16, MW-18, and MW-19S appear to correlate to similar decreases in calcium concentrations at these wells.
- In general, site monitoring wells with the highest concentrations for molybdenum also exhibit higher concentrations of fluoride than those at other wells. Data to date does not appear to suggest an overall correlation between changes in fluoride and molybdenum concentrations. Fluoride concentrations appear to have slightly increased at MW-18 and MW-19S and slightly decreased at other wells over the sampling history. The overall changes in fluoride concentrations have generally been minimal.

- Higher concentrations for molybdenum at site monitoring wells do not necessary appear to correlate to higher or lower sulfate concentrations than those at other wells. However, sulfate concentrations at MW-18 are typically low compared to those observed at most of the other monitoring wells and sulfate concentrations appear to be decreasing significantly at this well. Data to date does not appear to suggest an overall correlation between changes in sulfate molybdenum concentrations.
- 4) The monitoring wells were sampled for indicator parameters for MNA including ORP (field measured), DO (field measured), specific conductance (field measured and laboratory reported), nitrate, sulfide, and alkalinity. For ORP, DO, and specific conductance at monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-18, MW-19S, and MW-22A the October 2021 sampling was the eleventh sampling event concurrent with sampling for molybdenum (dating to August 2017). For nitrate at monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-18, MW-19S, and MW-22A the October 2021 sampling was the eighth sampling event concurrent with sampling for molybdenum (dating to October 2018). For alkalinity at monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-18, MW-19S, and MW-22A the October 2021 sampling was either the fifth or sixth sampling event concurrent with sampling for molybdenum (dating to August 2017). For the other parameters at MW-15B, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5B, the October 2021 sampling event was the fourth sampling concurrent with sampling for molybdenum (dating to July 2020). Monitoring well CM-3B did not contain sufficient water to sample during the October 2021 sampling event. Because of limited water availability samples for ORP, DO, specific conductance, nitrate, sulfide, and/or alkalinity could not be obtained during all sampling events at some of the wells (CM-1B, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B). Charts comparing changes in concentration over time for these parameters to changes in molybdenum concentration for each of the monitoring wells evaluated are included in **Attachment G**.
- Data to date does not appear to suggest an overall correlation between changes in ORP and changes in molybdenum concentrations. However, the monitoring wells exhibiting the highest concentrations for molybdenum (MW-18 and MW-19S) appear to be more often associated negative ORP (under reducing conditions) and wells away from the Landfill CCR Unit to the east appear to be more often associated with positive ORP.

- Data to date appears to suggest a possible correlation at some wells between changes in DO and changes in molybdenum concentrations. The higher DO concentrations at some wells (MW-15B, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5B) may be associated with the use of bailers for purging/sample collection.
 - Higher concentrations for molybdenum at site monitoring wells do not necessarily appear to correlate to higher or lower specific conductance than at other wells. Data to date does suggest possible correlations between changes in specific conductance and molybdenum concentrations at some of the wells. Most notably, a decrease in molybdenum concentration at MW-18 appears to correlate to a similar decrease in specific conductance (both as measured in the field and at the laboratory).
 - Higher concentrations for molybdenum at site monitoring wells do not necessarily appear to correlate to higher or lower nitrate concentrations and data to date does not appear to suggest an overall correlation between changes in nitrate and molybdenum concentrations. In many of the wells the nitrate is often not identified above the laboratory reporting levels. In general, higher nitrate concentrations are reported in the monitoring wells and wells away from the Landfill CCR Unit to the east.
 - Data to date does not appear to suggest an overall correlation between changes in sulfide and changes in molybdenum concentrations. Sulfide has been detected periodically in several of the monitoring wells, but is generally below laboratory reporting levels (1 mg/L). Sulfide can be indicative of reducing conditions.
 - Data to date does not appear to suggest an overall correlation between changes in total alkalinity and molybdenum concentrations. However, whereas most of the monitoring wells contain alkalinity only in the bicarbonate form the monitoring wells exhibiting the highest concentrations for molybdenum (MW-18 and MW-19S) typically contain both carbonate and hydroxide alkalinity and do not contain alkalinity in the bicarbonate form.
- 5) The wells were sampled for total and dissolved iron, total and dissolved ferrous iron (Fe(II)), and total and dissolved ferric iron (Fe(III)) to facilitate future evaluation of MNA. The October 2021 sampling was the fourth sampling event for total iron, dissolved iron, and total ferrous iron (dating to July 2020). The October 2021 sampling was the second sampling event for dissolved ferrous iron and total and dissolved ferric iron. Limited water availability at CM-3B in October 2021 precluded sampling at this well.

Because of limited water availability samples for ferrous and or ferric iron could not be obtained during all sampling events at some of the wells. A chart showing changes in iron concentrations over time for each of the monitoring wells evaluated is included in **Attachment H**. Observations from October 2021 sampling of iron are as follows:

- Reported iron concentrations (total and dissolved forms) are low or below laboratory reporting levels in samples collected from MW-18 (a well with higher molybdenum concentrations) and MW-17.
- Less than 10% of iron reported in samples collected from MW-5S, MW-15B, MW-22B, CM-1B, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5B was in dissolved form (indicating that the iron may be predominantly insoluble or associated with sediment entrained in these samples).
- For samples collected from MW-7S, MW-14A, MW-15A, MW-15B, MW-16, MW-19S, CM-22A, CM-1A, and CM-2 more than 10% of the iron identified was in dissolved form, indicating that iron is partly soluble at these locations. At each of these locations, the dissolved iron was ferric iron and ferrous iron was not identified in dissolved form at any of the monitoring wells. Dissolved ferrous iron is indicative of reducing conditions.

COMPARISON TO DRINKING WATER STANDARDS AND GROUNDWATER QUALITY

Of the constituents discussed herein, only fluoride has a published Federal Drinking Water Standard / Maximum Contaminant Level (MCL). The MCL for fluoride is 4 mg/L. Secondary MCLs have been published for chloride (250 mg/L), fluoride (2 mg/L), iron (0.3 mg/L), pH (6.5-8.5 Standard Units), sulfate (250 mg/L), and TDS (500 mg/L). The EPA has developed a health based groundwater protection standard for molybdenum (0.1 mg/L). In none of the wells discussed herein did the reported fluoride concentration exceed the MCL or Secondary MCL. Also, chloride was not identified in any of the monitoring wells at concentrations exceeding the Secondary MCL. Sulfate and TDS were above the Secondary MCLs in most of the HPS monitoring wells, including up-gradient background monitoring wells. Reported pH was above the range of the Secondary MCLs at MW-18 and MW-19S. Reported dissolved iron was at concentrations above the Secondary MCL at MW-14A, MW-15A, and MW-22A. Reported molybdenum was above the health-risk GWPS as established by EPA at MW-15A, MW-16, MW-18, and MW-19S.

Natural groundwater in the region of the HPS is of poor quality. From Hydrologic Atlas Number 9, Reconnaissance of the Water Resources of the McAlester and Texarkana Quadrangles,

Southeastern Oklahoma (Marcher, V. Melvin Bergman, L. DeRoy, U.S. Geological Survey, 1983), results from chemical analysis of water from undifferentiated rocks of Cretaceous age in southeastern Oklahoma indicate that sulfate occurs naturally up to concentrations as high as 845 mg/L and that total dissolved solids (TDS) occur naturally up to concentrations of 1,900 mg/L. These naturally occurring levels for both sulfate and TDS exceed the Secondary Standards for these compounds as established by EPA (250 mg/L for sulfate and 500 mg/L for TDS). WFEC has been monitoring several wells for groundwater quality at its HPS facility as part of its CCR Program. This monitoring consistently yields sulfate at concentrations between 1,300 mg/L and 2,000 mg/L and TDS at concentrations between 2,100 mg/L and 2,700 mg/L in upgradient wells at the HPS. These sulfate and TDS levels are naturally occurring.

GROUNDWATER FLOW AND RISK EVALUATION

As presented in the Assessment of Corrective Measures Report, soils/rock that underlie the HPS are predominantly tight clays and hard shale exhibiting very low horizontal hydraulic conductivities (geometric mean of 3.43×10^{-6} cm/second) and well yields of less than 0.01 gallons per minute. Based on the estimated well yields and hydraulic conductivities it appears that near-surface groundwater at the HPS are perched non-contiguous groundwater zones and well yields are such that formations containing shallow perched groundwater would not generally be considered a usable water bearing unit and not considered a major groundwater aquifer under Oklahoma Standards.

To the southeast, the nearest property boundary is more than 1,000 feet from identified molybdenum in groundwater over the GWPS. To the east and northeast, the nearest property boundaries are at least 7,500 feet from identified molybdenum in groundwater over the GWPS. From the Assessment of Corrective Measures Report, it would take approximately 498 years to reach the nearest property boundary to the southeast and it would take approximately 3,730 years to reach the property boundaries to the northeast and east. A risk evaluation was previously submitted (Risk Evaluation for Shallow Perched Groundwater; Planned Impoundment FO-08, Nancy Coleman, March 19, 2020). It was concluded that the constituents present in shallow perched groundwater at designated wells downgradient of the Landfill CCR Unit do not pose a hazard to potential on-site or off-site human or ecological receptors.

CONCLUSIONS/RECOMMENDATIONS

Based on evaluations included in the ODEQ approved Assessment of Corrective Measures Report, source control via enhanced dewatering combined with monitored natural attenuation was proposed as a corrective measure alternative for the molybdenum. A minimum of two years of semi-annual sampling of monitoring wells downgradient of the Landfill CCR Unit was proposed to establish the effectiveness of this alternative prior to selection of a final remedy. Dewatering of the Landfill CCR Unit was initiated in March 2020 and continues as water accumulates in the landfill following rainfall events. As of April 4, 2022, a total of 1,122.2 hours of pumping have been conducted to prevent standing water from accumulating in the Landfill CCR Unit since dewatering was initiated in March 2020.

The second semi-annual sampling of select monitoring wells as contained in the approved Assessment of Corrective Measures Report was conducted in October 2021. Wells sampled included MW-5S, MW-7S, MW-14A, MW-15A, MW-15B, MW-16, MW-17, MW-18, MW-19S, MW-22A, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-4A, CM-4B, CM-5A, and CM-5. Limited water availability at CM-3B in October 2021 precluded sampling at this well. Samples were collected from each of these wells for analysis of molybdenum. These wells were also sampled for (and/or measured in the field) parameters to facilitate future evaluation of MNA. Conclusions from this sampling are:

- 1) Molybdenum was identified at SSLs above GWPSs at four wells proximal to the Landfill CCR Unit (MW-15A, MW-16, MW-18, and MW-19S). This is consistent with previous sampling.
- 2) A comparison of October 2021 data to historic data suggests that molybdenum concentrations have gone down over the sampling history for most of the wells sampled (including MW-15A, MW-16, MW-18, and MW-19S).
- 3) It remains evident that molybdenum concentrations attenuate significantly with increased distance from the CCR Landfill.
- 4) A comparison of October 2021 data to historic data suggests possible correlations between molybdenum and boron and calcium. Possible correlations between molybdenum and pH, chloride, TDS, conductivity and DO are also suggested at some wells.
- 5) No new exceedances of the GWPSs were identified in any of the other wells during this latest sampling event.

- 6) Natural groundwater in the region is of poor quality, with sulfate at concentrations between 1,300 mg/L and 2,000 mg/L and TDS at concentrations between 2,100 mg/L and 2,700 mg/L in upgradient wells at the HPS. These sulfate and TDS levels are naturally occurring.

- 7) It appears that near-surface groundwater at the HPS are perched non-contiguous groundwater zones, that it would take molybdenum in groundwater approximately 498 years to reach the nearest property boundary to the southeast and it would take approximately 3,730 years to reach the property boundaries to the northeast and east. and that constituents present in shallow perched groundwater downgradient of the Landfill CCR Unit do not pose a hazard to potential on-site or off-site human or ecological receptors.

It is recommended that WFEC continue with its two-year semi-annual sampling as per the approved Assessment of Corrective Measures Report. The third semi-annual sampling event is scheduled to occur in April 2022. It is recommended that the data continue to be reviewed and evaluated to identify potential trends, correlations, and/or other information that could aid in determining the fate of molybdenum in the subsurface environment and that a summary report be submitted to ODEQ following evaluation of the data. It is also recommended that WFEC continue with its dewatering of the Landfill CCR Unit as per the approved Assessment of Corrective Measures Report.

If you have any questions, please feel free to contact me at (405) 842-1066 or at chris.schaefer@altamira-us.com.

Sincerely,
Altamira-US, LLC.

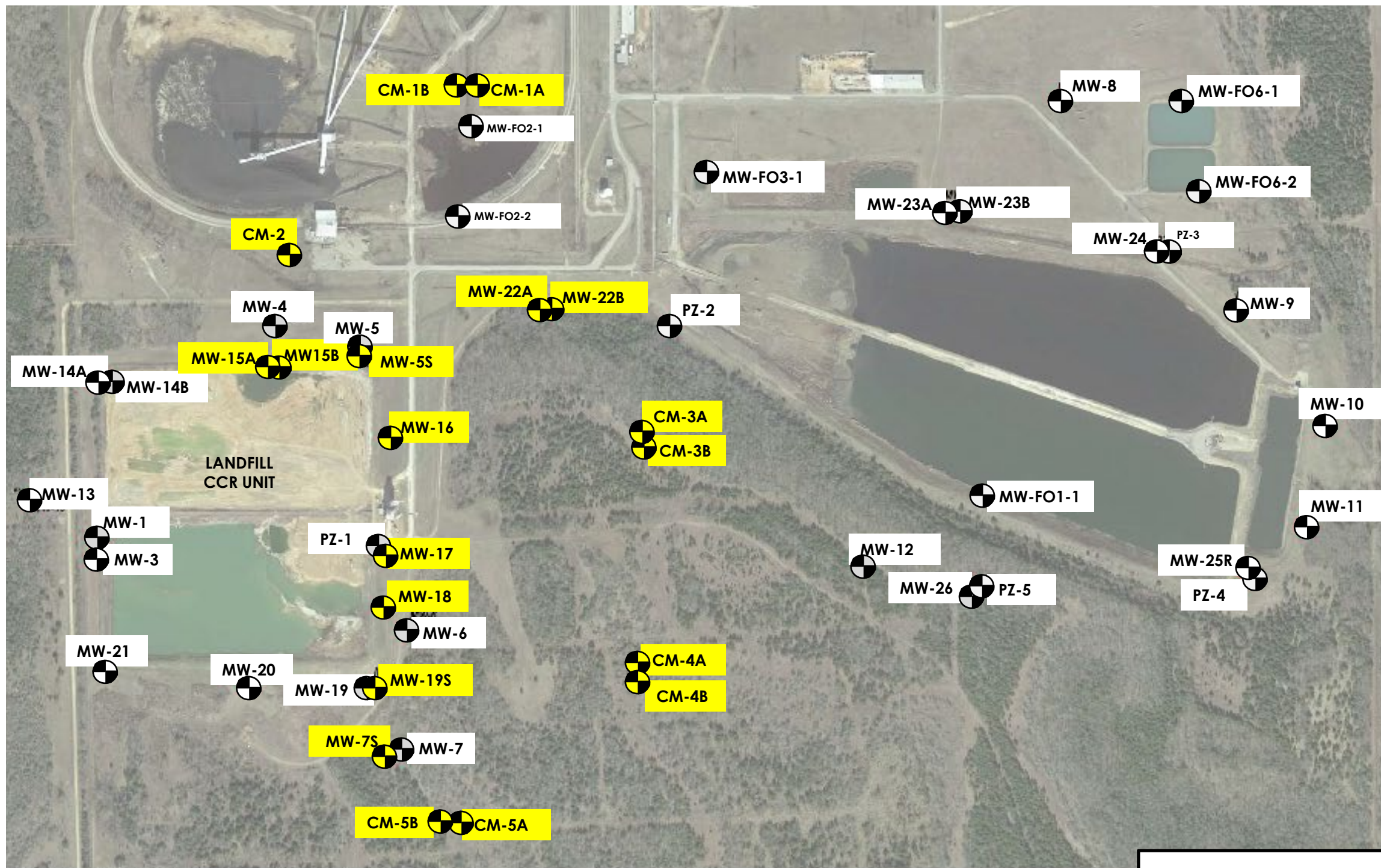


Christopher S. Schaefer, P.E.
Project Engineer

cc: Kent Flethcer and John McCreight / Western Farmers Electric Cooperation
Chris Schaefer and Bert Smith / Altamira-US, LLC

ATTACHMENT A

MONITORING WELL LOCATION MAP



Base Map: AERIAL PHOTOGRAPH DATED FEBRUARY 1, 2015, GEOREFERENCED SCREEN CAPTURE FROM GOOGLE EARTH PRO

ATTACHMENT A – LOCATIONS OF MONITORING WELLS SAMPLED TO MONITOR PROPOSED CORRECTIVE MEASURES ALTERNATIVE

Location of monitoring wells sampled semi-annually to monitor proposed corrective measures alternative of source control via enhanced dewatering combined with monitored natural attenuation (Approximate)

Location of other site monitoring wells/piezometers (Approximate)

One inch approximately 500 ft

PROJECT	WESTERN FARMERS ELECTRIC COOPERATIVE
LOCATION	HUGO POWER STATION (HPS)
PREPARED FOR	WESTERN FARMERS ELECTRIC COOPERATIVE
DRAWING TITLE	ATTACHMENT A LOCATIONS OF MONITORING WELLS SAMPLED TO MONITOR PROPOSED CORRECTIVE MEASURES ALTERNATIVE
Project No.	WFEE160019
Drawn By	CSS
Checked By	BS
Date:	9/7/21
Scale	1" – 500' (Approximate)
Issued For.	Western Farmers Elect. Coop.
Figure No.	

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ATTACHMENT B

ANALYTICAL REPORTS (OCTOBER 2021 SAMPLING)

- Included is a condensed report for monitoring wells MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-17, MW-18, MW-19S, and MW-22A such to contain only those parameters sampled to evaluate monitored natural attenuation. The laboratory provided analytical report for these wells (which also contained monitoring wells and parameters associated with assessment monitoring) was provided in a previous submittal (2021 Annual Groundwater and Corrective Action Report, January 26, 2021)
- Included is the laboratory provided analytical report for monitoring wells sampled to evaluate monitored natural attenuation outside of assessment monitoring CM-1A, CM-1B, CM-2, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, CM-5B, MW-15B, MW-22B).

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Order: HS21100884

Sample ID:	MW-5S	Lab ID: HS21100884-06
Sample Date:	10/14/2021	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT		
				REPORTED	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C				Method: M2540C		
Specific Conductivity	1,820	umhos/cm @ 25.0 °C	1	MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F				Method: SM4500 S2-F		
Sulfide	<1.00	mg/L	1	MDL	1.00	1.00
Analysis : pH by SM4500h+ B				Method: SM4500H+ B		
pH	8.16 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	21.6 H	pH Units	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C				Method: M2540C		
Total Dissolved Solids (Residue, Filterable)	1,140	mg/L	1	MDL	5.00	10.0
Analysis : ANIONS by E300.0				Method: E300		
Chloride	26.4	mg/L	1	MDL	0.200	0.500
Fluoride	1.57	mg/L	1	MDL	0.0500	0.100
Nitrogen, Nitrate (As N)	0.0984 J	mg/L	1	MDL	0.0300	0.100
Sulfate	499	mg/L	20	MDL	4.00	10.00
Analysis : ALKALINITY by SM2320B				Method: SM2320B		
Alkalinity, Bicarbonate (As CaCO3)	460	mg/L	1	MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	9.52	mg/L	1	MDL	5.00	5.00
Alkalinity, Hydroxide (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Total (As CaCO3)	470	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B				Method: SM3500FED		
Ferrous Iron	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D				Method: SM3500FED (dissolved)		
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED		
Ferric Iron	0.0270 J	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED (dissolved)		
Ferric Iron, Dissolved	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A				Method: SW6020		
Boron	1.82	mg/L	10	MDL	0.110	0.200
Sodium	243	mg/L	10	MDL	0.140	2.00
Potassium	3.96	mg/L	1	MDL	0.0180	0.200
Magnesium	4.60	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.00387 J	mg/L	1	MDL	0.000600	0.00500
Iron	0.0270 J	mg/L	1	MDL	0.0120	0.200
Calcium	21.0	mg/L	1	MDL	0.0340	0.500
Analysis : DISSOLVED METALS by SW6020A				Method: SW6020 (dissolved)		
Molybdenum, Dissolved	0.00296 J	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	<0.0120	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Order: HS21100884

Sample ID:	MW-7S	Lab ID: HS21100884-07
Sample Date:	10/15/2021	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT		
				REPORTED	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C				Method: M2540C		
Specific Conductivity	1,860	umhos/cm @ 25.0 °C	1	MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F				Method: SM4500 S2-F		
Sulfide	<1.00	mg/L	1	MDL	1.00	1.00
Analysis : pH by SM4500H+ B				Method: SM4500H+ B		
pH	7.84 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	21.6 H	pH Units	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C				Method: M2540C		
Total Dissolved Solids (Residue, Filterable)	1,290	mg/L	1	MDL	5.00	10.0
Analysis : ANIONS by E300.0				Method: E300		
Chloride	16.8	mg/L	1	MDL	0.200	0.500
Fluoride	0.746	mg/L	1	MDL	0.0500	0.100
Nitrogen, Nitrate (As N)	0.0940 J	mg/L	1	MDL	0.0300	0.100
Sulfate	690	mg/L	20	MDL	4.00	10.00
Analysis : ALKALINITY by SM2320B				Method: SM2320B		
Alkalinity, Bicarbonate (As CaCO3)	343	mg/L	1	MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Hydroxide (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Total (As CaCO3)	343	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B				Method: SM3500FED		
Ferrous Iron	0.207	mg/L	1	MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D				Method: SM3500FED (dissolved)		
Ferrous Iron, Dissolved	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED		
Ferric Iron	0.103	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED (dissolved)		
Ferric Iron, Dissolved	0.134	mg/L	1	MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A				Method: SW6020		
Boron	2.18	mg/L	10	MDL	0.110	0.200
Sodium	261	mg/L	10	MDL	0.140	2.00
Potassium	5.14	mg/L	1	MDL	0.0180	0.200
Magnesium	12.2	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.00115 J	mg/L	1	MDL	0.000600	0.00500
Iron	0.310	mg/L	1	MDL	0.0120	0.200
Calcium	97.1	mg/L	1	MDL	0.0340	0.500
Analysis : DISSOLVED METALS by SW6020A				Method: SW6020 (dissolved)		
Molybdenum, Dissolved	0.00121 J	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	0.134 J	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Order: HS21100884

Sample ID:	MW-14A	Lab ID: HS21100884-02
Sample Date:	10/13/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT		
				REPORTED	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C				Method: M2540C		
Specific Conductivity	3,320	mg/L	1	MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F				Method: SM4500 S2-F		
Sulfide	3.08	mg/L	1	MDL	1.00	1.00
Analysis : pH by SM4500H+ B				Method: SM4500H+ B		
pH	6.74 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	21.5 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C				Method: M2540C		
Total Dissolved Solids (Residue, Filterable)	2,630	mg/L	1	MDL	5.00	10.0
Analysis : ANIONS by E300.0				Method: E300		
Chloride	12.8	mg/L	2	MDL	0.400	1.00
Fluoride	0.221	mg/L	2	MDL	0.100	0.200
Nitrogen, Nitrate (As N)	<0.0600	mg/L	2	MDL	0.0600	0.200
Sulfate	1,690	mg/L	20	MDL	4.00	10.0
Analysis : ALKALINITY by SM2320B				Method: SM2320B		
Alkalinity, Bicarbonate (As CaCO3)	348	mg/L	1	MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Hydroxide (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Total (As CaCO3)	348	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B				Method: SM3500FED		
Ferrous Iron	0.285	mg/L	1	MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D				Method: SM3500FED (dissolved)		
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED		
Iron, Ferric	0.935	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED (dissolved)		
Iron, Ferric, Dissolved	0.357	mg/L	1	MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A				Method: SW6020		
Boron	0.857	mg/L	1	MDL	0.0110	0.0200
Sodium	388	mg/L	20	MDL	0.280	4.00
Potassium	7.84	mg/L	1	MDL	0.0180	0.200
Magnesium	26.5	mg/L	1	MDL	0.0100	0.200
Molybdenum	<0.000600	mg/L	1	MDL	0.000600	0.00500
Iron	1.22	mg/L	1	MDL	0.0120	0.200
Calcium	263	mg/L	20	MDL	0.680	10.0
Analysis : DISSOLVED METALS by SW6020A				Method: SW6020 (dissolved)		
Molybdenum, Dissolved	<0.000600	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	0.357	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Order: HS21100884

Sample ID:	MW-15A	Lab ID: HS21100884-03
Sample Date:	10/13/2021	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT		
				REPORTED	MDL	RL
	Analysis :	SPECIFIC CONDUCTIVITY by SM2540C		Method:	M2540C	
Specific Conductivity	3,370	mg/L	1	MDL	5.00	5.00
	Analysis :	SULFIDE by SM500 S2-F		Method:	SM4500 S2-F	
Sulfide	<1.00	mg/L	1	MDL	1.00	1.00
	Analysis :	pH by SM4500H+ B		Method:	SM4500H+ B	
pH	7.45 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	22.2 H	°C	1	MDL	0	0
	Analysis :	DISSOLVED SOLIDS by SM2540C		Method:	M2540C	
Total Dissolved Solids (Residue, Filterable)	2,370	mg/L	1	MDL	5.00	10.0
	Analysis :	ANIONS by E300.0		Method:	E300	
Chloride	25.7	mg/L	2	MDL	0.400	1.00
Fluoride	1.01	mg/L	2	MDL	0.100	0.200
Nitrogen, Nitrate (As N)	0.0704 J	mg/L	2	MDL	0.0600	0.200
Sulfate	1,580	mg/L	20	MDL	4.00	10.0
	Analysis :	ALKALINITY by SM2320B		Method:	SM2320B	
Alkalinity, Bicarbonate (As CaCO3)	226	mg/L	1	MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Hydroxide (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Total (As CaCO3)	226	mg/L	1	MDL	5.00	5.00
	Analysis :	FERROUS IRON by SM3500 FE B		Method:	SM3500FED	
Ferrous Iron	0.284	mg/L	1	MDL	0.0200	0.0500
	Analysis :	FERROUS IRON by SM3500 FE D		Method:	SM3500FED (dissolved)	
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	MDL	0.0200	0.0500
	Analysis :	FERRIC IRON-BY CALCULATION by SM3500FED		Method:	SM3500FED	
Iron, Ferric	0.0840	mg/L	1	MDL	0.0200	0.0500
	Analysis :	FERRIC IRON-BY CALCULATION by SM3500FED		Method:	SM3500FED (dissolved)	
Iron, Ferric, Dissolved	0.590	mg/L	1	MDL	0.0200	0.0500
	Analysis :	ICP-MS METALS by SW6020A		Method:	SW6020	
Boron	2.14	mg/L	20	MDL	0.220	0.400
Sodium	421	mg/L	20	MDL	0.280	4.00
Potassium	4.97	mg/L	1	MDL	0.0180	0.200
Magnesium	10.2	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.149	mg/L	1	MDL	0.000600	0.00500
Iron	0.368	mg/L	1	MDL	0.0120	0.200
Calcium	96.6	mg/L	1	MDL	0.0340	0.500
	Analysis :	DISSOLVED METALS by SW6020A		Method:	SW6020 (dissolved)	
Molybdenum, Dissolved	0.181	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	0.590	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Order: HS21100884

Sample ID:	MW-16	Lab ID: HS21100884-09
Sample Date:	10/14/2021	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT		
				REPORTED	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C				Method: M2540C		
Specific Conductivity	2,340	mg/L	1	MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F				Method: SM4500 S2-F		
Sulfide	<1.00	mg/L	1	MDL	1.00	1.00
Analysis : pH by SM4500H+ B				Method: SM4500H+ B		
pH	7.75 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	21.2 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C				Method: M2540C		
Total Dissolved Solids (Residue, Filterable)	1,590	mg/L	1	MDL	5.00	10.0
Analysis : ANIONS by E300.0				Method: E300		
Chloride	16.2	mg/L	2	MDL	0.400	1.00
Fluoride	0.964	mg/L	2	MDL	0.100	0.200
Nitrogen, Nitrate (As N)	<0.0300	mg/L	2	MDL	0.0600	0.200
Sulfate	1,110	mg/L	20	MDL	4.00	10.0
Analysis : ALKALINITY by SM2320B				Method: SM2320B		
Alkalinity, Bicarbonate (As CaCO3)	264	mg/L	1	MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Hydroxide (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Total (As CaCO3)	264	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B				Method: SM3500FED		
Ferrous Iron	0.191	mg/L	1	MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D				Method: SM3500FED (dissolved)		
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED		
Iron, Ferric	0.178	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED (dissolved)		
Iron, Ferric, Dissolved	0.190	mg/L	1	MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A				Method: SW6020		
Boron	1.61	mg/L	10	MDL	0.110	0.200
Sodium	295	mg/L	10	MDL	0.140	2.00
Potassium	3.18	mg/L	1	MDL	0.0180	0.200
Magnesium	7.38	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.163	mg/L	1	MDL	0.000600	0.00500
Iron	0.369	mg/L	1	MDL	0.0120	0.200
Calcium	158	mg/L	10	MDL	0.340	5.00
Analysis : DISSOLVED METALS by SW6020A				Method: SW6020 (dissolved)		
Molybdenum, Dissolved	0.189	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	0.190 J	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Order: HS21100884

Sample ID:	MW-17	Lab ID: HS21100884-10
Sample Date:	10/14/2021	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT		
				REPORTED	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C				Method: M2540C		
Specific Conductivity	2,390	mg/L	1	MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F				Method: SM4500 S2-F		
Sulfide	1.12	mg/L	1	MDL	1.00	1.00
Analysis : pH by SM4500H+ B				Method: SM4500H+ B		
pH	7.12 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	22.0 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C				Method: M2540C		
Total Dissolved Solids (Residue, Filterable)	2,210	mg/L	1	MDL	5.00	10.0
Analysis : ANIONS by E300.0				Method: E300		
Chloride	4.02	mg/L	2.00	MDL	0.4	1
Fluoride	0.317	mg/L	2.00	MDL	0.1	0.2
Nitrogen, Nitrate (As N)	<0.0600	mg/L	2.00	MDL	0.06	0.2
Sulfate	1,390	mg/L	50.00	MDL	10	25
Analysis : ALKALINITY by SM2320B				Method: SM2320B		
Alkalinity, Bicarbonate (As CaCO3)	288	mg/L	1	MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Hydroxide (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Total (As CaCO3)	288	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B				Method: SM3500FED		
Ferrous Iron	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D				Method: SM3500FED (dissolved)		
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED		
Iron, Ferric	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED (dissolved)		
Iron, Ferric, Dissolved	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A				Method: SW6020		
Boron	0.700	mg/L	1	MDL	0.0110	0.0200
Sodium	32.5	mg/L	1	MDL	0.0140	0.200
Potassium	4.94	mg/L	1	MDL	0.0180	0.200
Magnesium	34.6	mg/L	1	MDL	0.0100	0.200
Molybdenum	<0.000600	mg/L	1	MDL	0.000600	0.00500
Iron	<0.0120	mg/L	1	MDL	0.0120	0.200
Calcium	428	mg/L	10	MDL	0.340	5.00
Analysis : DISSOLVED METALS by SW6020A				Method: SW6020 (dissolved)		
Molybdenum, Dissolved	<0.000600	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	0.0198 J	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Order: HS21100884

Sample ID:	MW-18	Lab ID: HS21100884-11
Sample Date:	10/14/2021	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT		
				REPORTED	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C				Method: M2540C		
Specific Conductivity	2,040	mg/L	1	MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F				Method: SM4500 S2-F		
Sulfide	<1.00	mg/L	1	MDL	1.00	1.00
Analysis : pH by SM4500H+ B				Method: SM4500H+ B		
pH	9.95 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	22.7 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C				Method: M2540C		
Total Dissolved Solids (Residue, Filterable)	1,320	mg/L	1	MDL	5.00	10.0
Analysis : ANIONS by E300.0				Method: E300		
Chloride	4.20	mg/L	1.00	MDL	0.2	0.5
Fluoride	1.71	mg/L	1.00	MDL	0.05	0.1
Nitrogen, Nitrate (As N)	<0.0300	mg/L	1.00	MDL	0.03	0.1
Sulfate	904	mg/L	20.00	MDL	4	10
Analysis : ALKALINITY by SM2320B				Method: SM2320B		
Alkalinity, Bicarbonate (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	55.8	mg/L	1	MDL	5.00	5.00
Alkalinity, Hydroxide (As CaCO3)	17.9	mg/L	1	MDL	5.00	5.00
Alkalinity, Total (As CaCO3)	73.8	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B				Method: SM3500FED		
Ferrous Iron	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D				Method: SM3500FED (dissolved)		
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED		
Iron, Ferric	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED (dissolved)		
Iron, Ferric, Dissolved	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A				Method: SW6020		
Boron	4.61	mg/L	10	MDL	0.110	0.200
Sodium	329	mg/L	10	MDL	0.140	2.00
Potassium	15.0	mg/L	1	MDL	0.0180	0.200
Magnesium	0.152 J	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.209	mg/L	1	MDL	0.000600	0.00500
Iron	<0.0120	mg/L	1	MDL	0.0120	0.200
Calcium	19.3	mg/L	10	MDL	0.340	5.00
Analysis : DISSOLVED METALS by SW6020A				Method: SW6020 (dissolved)		
Molybdenum, Dissolved	0.211	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	<0.0120	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Order: HS21100884

Sample ID:	MW-19S	Lab ID: HS21100884-12
Sample Date:	10/15/2021	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT		
				REPORTED	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C				Method: M2540C		
Specific Conductivity	3,370	mg/L	1	MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F				Method: SM4500 S2-F		
Sulfide	<1.00	mg/L	1	MDL	1.00	1.00
Analysis : pH by SM4500H+ B				Method: SM4500H+ B		
pH	10.8 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	22.0 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C				Method: M2540C		
Total Dissolved Solids (Residue, Filterable)	2,290	mg/L	1	MDL	5.00	10.0
Analysis : ANIONS by E300.0				Method: E300		
Chloride	13.6	mg/L	2	MDL	0.400	1.00
Fluoride	1.57	mg/L	2	MDL	0.100	0.200
Nitrogen, Nitrate (As N)	<0.0600	mg/L	2	MDL	0.0600	0.200
Sulfate	1,570	mg/L	20	MDL	4.00	10.0
Analysis : ALKALINITY by SM2320B				Method: SM2320B		
Alkalinity, Bicarbonate (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	77.3	mg/L	1	MDL	5.00	5.00
Alkalinity, Hydroxide (As CaCO3)	73.0	mg/L	1	MDL	5.00	5.00
Alkalinity, Total (As CaCO3)	150	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B				Method: SM3500FED		
Ferrous Iron	0.0450 J	mg/L	1	MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D				Method: SM3500FED (dissolved)		
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED		
Iron, Ferric	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED (dissolved)		
Iron, Ferric, Dissolved	0.0210 J	mg/L	1	MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A				Method: SW6020		
Boron	5.88	mg/L	10	MDL	0.110	0.200
Sodium	462	mg/L	10	MDL	0.140	2.00
Potassium	34.6	mg/L	1	MDL	0.0180	0.200
Magnesium	0.0415 J	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.407	mg/L	1	MDL	0.000600	0.00500
Iron	0.0509 J	mg/L	1	MDL	0.0120	0.200
Calcium	41.6	mg/L	10	MDL	0.340	5.00
Analysis : DISSOLVED METALS by SW6020A				Method: SW6020 (dissolved)		
Molybdenum, Dissolved	0.440	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	0.0210 J	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Order: HS21100884

Sample ID:	MW-22A	Lab ID: HS21100769-09
Sample Date:	10/13/2021	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT		
				REPORTED	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C				Method: M2540C		
Specific Conductivity	3,250	mg/L	1	MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F				Method: SM4500 S2-F		
Sulfide	2.08	mg/L	1	MDL	1.00	1.00
Analysis : pH by SM4500h+ B				Method: SM4500H+ B		
pH	7.32 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	22.3 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C				Method: M2540C		
Total Dissolved Solids (Residue, Filterable)	3,010	mg/L	1	MDL	5.00	10.0
Analysis : ANIONS by E300.0				Method: E300		
Chloride	2.06 J	mg/L	5	MDL	1.00	2.50
Fluoride	0.608	mg/L	5	MDL	0.250	0.500
Nitrogen, Nitrate (As N)	<0.150	mg/L	5	MDL	0.150	0.500
Sulfate	2,020	mg/L	50	MDL	10.0	25.0
Analysis : ALKALINITY by SM2320B				Method: SM2320B		
Alkalinity, Bicarbonate (As CaCO3)	315	mg/L	1	MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Hydroxide (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Total (As CaCO3)	315	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B				Method: SM3500FED		
Ferrous Iron	0.904	mg/L	1	MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D				Method: SM3500FED (dissolved)		
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED		
Iron, Ferric	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED				Method: SM3500FED (dissolved)		
Iron, Ferric, Dissolved	<0.0200	mg/L	1	MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A				Method: SW6020		
Boron	1.76	mg/L	10	MDL	0.110	0.200
Sodium	158	mg/L	1	MDL	0.0140	0.200
Potassium	16.7	mg/L	1	MDL	0.0180	0.200
Magnesium	96.2	mg/L	1	MDL	0.0100	0.200
Molybdenum	<0.000600	mg/L	1	MDL	0.000600	0.00500
Iron	0.660	mg/L	1	MDL	0.0120	0.200
Calcium	515	mg/L	10	MDL	0.340	5.00
Analysis : DISSOLVED METALS by SW6020A				Method: SW6020 (dissolved)		
Molybdenum, Dissolved	0.0328	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	1.00	mg/L	1	MDL	0.0120	0.200

Acronyms & Qualifiers

- H : Analyzed outside of holding time. pH is an immediate test.
- MDL : Method Detection Limit.
- RL : Reporting Limit.



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October 31, 2021

Bert Smith
Altamira
525 central park Dr
Suite 500
Oklahoma City, OK 73013

Work Order: **HS21100807**

Laboratory Results for: **WFEC / MNA Program**

Dear Bert Smith,

ALS Environmental received 10 sample(s) on Oct 14, 2021 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Ragen Giga
Project Manager

Client: Altamira
Project: WFEC / MNA Program
Work Order: HS21100807

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21100807-01	CM-4A	Water		13-Oct-2021 12:30	14-Oct-2021 10:00	<input type="checkbox"/>
HS21100807-02	CM-4B	Water		13-Oct-2021 12:00	14-Oct-2021 10:00	<input type="checkbox"/>
HS21100807-03	CM-5A	Water		13-Oct-2021 11:25	14-Oct-2021 10:00	<input type="checkbox"/>
HS21100807-04	CM-5B	Water		13-Oct-2021 11:00	14-Oct-2021 10:00	<input type="checkbox"/>
HS21100807-05	CM-3A	Water		14-Oct-2021 10:30	15-Oct-2021 10:20	<input type="checkbox"/>
HS21100807-06	MW-15B	Water		14-Oct-2021 11:40	15-Oct-2021 10:20	<input type="checkbox"/>
HS21100807-07	MW-22B	Water		14-Oct-2021 11:15	15-Oct-2021 10:20	<input type="checkbox"/>
HS21100807-08	CM-1A	Water		14-Oct-2021 18:46	16-Oct-2021 09:20	<input type="checkbox"/>
HS21100807-09	CM-1B	Water		14-Oct-2021 17:55	16-Oct-2021 09:20	<input type="checkbox"/>
HS21100807-10	CM-2	Water		15-Oct-2021 12:22	16-Oct-2021 09:20	<input type="checkbox"/>

Client: Altamira
Project: WFEC / MNA Program
Work Order: HS21100807

CASE NARRATIVE

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Metals by Method SM3500FED

Batch ID: R394454,R394455,R393566,R393740,R393899

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 171725

Sample ID: HS21100809-02MS

- MS/MSD and DUPs are for an unrelated sample

Batch ID: 171817

Sample ID: HS21100769-09MS

- MS and MSD are for an unrelated sample

Wet Chemistry by Method E300

Batch ID: R393664

Sample ID: HS21100876-02MS

- MS and MSD are for an unrelated sample

Batch ID: R394568

Sample ID: HS21100769-01MS

- MS and MSD are for an unrelated sample

WetChemistry by Method SM4500H+ B

Batch ID: R394287

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: Altamira
Project: WFEC / MNA Program
Work Order: HS21100807

CASE NARRATIVE

WetChemistry by Method SM3500FED

Batch ID: R394434

Sample ID: CM-1A (HS21100807-08)

- Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.

Sample ID: CM-1B (HS21100807-09)

- Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.

Sample ID: CM-2 (HS21100807-10)

- Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.

Sample ID: CM-3A (HS21100807-05)

- Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.

Sample ID: CM-4A (HS21100807-01)

- Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.

Sample ID: CM-4B (HS21100807-02)

- Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.

Sample ID: CM-5A (HS21100807-03)

- Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.

Sample ID: CM-5B (HS21100807-04)

- Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.

Sample ID: MW-15B (HS21100807-06)

- Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.

Sample ID: MW-22B (HS21100807-07)

- Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.

WetChemistry by Method M2510 B

Batch ID: R394420

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R393922,R393933,R394028

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: Altamira
Project: WFEC / MNA Program
Work Order: HS21100807

CASE NARRATIVE

WetChemistry by Method SM4500 S2-F

Batch ID: R393819,R393988

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

WetChemistry by Method E300

Batch ID: R393664

Sample ID: MW-15B (HS21100807-06)

- Sample ran at 5X due to high concentration of Sulfate

Sample ID: MW-22B (HS21100807-07)

- Sample ran at 5X due to high concentration of Sulfate

Batch ID: R393484

Sample ID: CM-4A (HS21100807-01)

- Sample ran at 5X due to high concentration of Sulfate

Sample ID: CM-5A (HS21100807-03)

- Sample ran at 5X due to high concentration of Sulfate

Sample ID: CM-5B (HS21100807-04)

- Sample ran at 5X due to high concentration of Sulfate

Batch ID: R394412

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

WetChemistry by Method SM2320B

Batch ID: R393445,R393972

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-4A
 Collection Date: 13-Oct-2021 12:30

ANALYTICAL REPORT
 WorkOrder:HS21100807
 Lab ID:HS21100807-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: JHD
Ferric Iron	4.10		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: JHD
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 26-Oct-2021	Analyst: JHD
Boron	3.56		0.110	0.200	mg/L	10	26-Oct-2021 18:05
Calcium	66.5		0.340	5.00	mg/L	10	26-Oct-2021 18:05
Iron	4.64		0.0120	0.200	mg/L	1	27-Oct-2021 15:30
Magnesium	16.4		0.100	2.00	mg/L	10	26-Oct-2021 18:05
Molybdenum	0.0105		0.000600	0.00500	mg/L	1	27-Oct-2021 15:30
Potassium	7.82		0.0180	0.200	mg/L	1	27-Oct-2021 15:30
Sodium	709		0.140	2.00	mg/L	10	26-Oct-2021 18:05
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 27-Oct-2021	Analyst: JHD
Iron	U		0.0120	0.200	mg/L	1	27-Oct-2021 18:27
Molybdenum	0.0194		0.000600	0.00500	mg/L	1	27-Oct-2021 18:27
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	90.2		1.00	2.50	mg/L	5	15-Oct-2021 02:54
Fluoride	0.737		0.250	0.500	mg/L	5	15-Oct-2021 02:54
Nitrogen, Nitrate (As N)	21.6		0.150	0.500	mg/L	5	15-Oct-2021 02:54
Sulfate	1,160		10.0	25.0	mg/L	50	29-Oct-2021 14:22
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	4,030		5.00	5.00	umhos/cm @ 25.0 °C	1	28-Oct-2021 14:05
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: SH
Total Dissolved Solids (Residue, Filterable)	2,830		5.00	10.0	mg/L	1	20-Oct-2021 15:35
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	605		5.00	5.00	mg/L	1	14-Oct-2021 20:30
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	14-Oct-2021 20:30
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	14-Oct-2021 20:30
Alkalinity, Total (As CaCO3)	605		5.00	5.00	mg/L	1	14-Oct-2021 20:30
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	0.544		0.0200	0.0500	mg/L	1	14-Oct-2021 20:47
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U	H	0.0200	0.0500	mg/L	1	27-Oct-2021 20:36
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide	U		1.00	1.00	mg/L	1	20-Oct-2021 12:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-4A
 Collection Date: 13-Oct-2021 12:30

ANALYTICAL REPORT

WorkOrder:HS21100807
 Lab ID:HS21100807-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: SH		
pH	8.14	H	0.100	0.100	pH Units	1	27-Oct-2021 12:00
Temp Deg C @pH	22.2	H	0	0	°C	1	27-Oct-2021 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-4B
 Collection Date: 13-Oct-2021 12:00

ANALYTICAL REPORT
 WorkOrder:HS21100807
 Lab ID:HS21100807-02
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: JHD
Ferric Iron	11.4		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: JHD
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 26-Oct-2021	Analyst: JHD
Boron	3.79		0.110	0.200	mg/L	10	26-Oct-2021 18:07
Calcium	79.1		0.340	5.00	mg/L	10	26-Oct-2021 18:07
Iron	13.0		0.0120	0.200	mg/L	1	27-Oct-2021 15:34
Magnesium	17.8		0.100	2.00	mg/L	10	26-Oct-2021 18:07
Molybdenum	0.0131		0.000600	0.00500	mg/L	1	27-Oct-2021 15:34
Potassium	8.42		0.0180	0.200	mg/L	1	27-Oct-2021 15:34
Sodium	865		0.140	2.00	mg/L	10	26-Oct-2021 18:07
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 27-Oct-2021	Analyst: JHD
Iron	0.0134	J	0.0120	0.200	mg/L	1	27-Oct-2021 19:21
Molybdenum	0.0235		0.000600	0.00500	mg/L	1	27-Oct-2021 19:21
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	113		1.00	2.50	mg/L	5	15-Oct-2021 03:01
Fluoride	1.05		0.250	0.500	mg/L	5	15-Oct-2021 03:01
Nitrogen, Nitrate (As N)	22.2		0.150	0.500	mg/L	5	15-Oct-2021 03:01
Sulfate	1,590		10.0	25.0	mg/L	50	29-Oct-2021 14:44
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	4,400		5.00	5.00	umhos/cm @ 25.0 °C	1	28-Oct-2021 14:05
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: SH
Total Dissolved Solids (Residue, Filterable)	2,980		5.00	10.0	mg/L	1	20-Oct-2021 15:35
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	589		5.00	5.00	mg/L	1	14-Oct-2021 20:38
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	14-Oct-2021 20:38
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	14-Oct-2021 20:38
Alkalinity, Total (As CaCO3)	589		5.00	5.00	mg/L	1	14-Oct-2021 20:38
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	1.64		0.100	0.250	mg/L	5	14-Oct-2021 20:47
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U	H	0.0200	0.0500	mg/L	1	27-Oct-2021 20:36
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide	U		1.00	1.00	mg/L	1	20-Oct-2021 12:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-4B
 Collection Date: 13-Oct-2021 12:00

ANALYTICAL REPORT

WorkOrder:HS21100807
 Lab ID:HS21100807-02
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
PH BY SM4500H+ B-2011		Method:SM4500H+ B				Analyst: SH		
pH	8.04	H	0.100	0.100	pH Units	1	27-Oct-2021 12:00	
Temp Deg C @pH	22.3	H	0	0	°C	1	27-Oct-2021 12:00	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-5A
 Collection Date: 13-Oct-2021 11:25

ANALYTICAL REPORT
 WorkOrder:HS21100807
 Lab ID:HS21100807-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: JHD
Ferric Iron	10.9		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: JHD
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 26-Oct-2021	Analyst: JHD
Boron	4.57		0.110	0.200	mg/L	10	26-Oct-2021 18:15
Calcium	143		0.340	5.00	mg/L	10	26-Oct-2021 18:15
Iron	13.6		0.0120	0.200	mg/L	1	27-Oct-2021 15:35
Magnesium	29.9		0.100	2.00	mg/L	10	26-Oct-2021 18:15
Molybdenum	0.00580		0.000600	0.00500	mg/L	1	27-Oct-2021 15:35
Potassium	11.5		0.0180	0.200	mg/L	1	27-Oct-2021 15:35
Sodium	749		0.140	2.00	mg/L	10	26-Oct-2021 21:21
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 27-Oct-2021	Analyst: JHD
Iron	U		0.0120	0.200	mg/L	1	27-Oct-2021 19:23
Molybdenum	0.0165		0.000600	0.00500	mg/L	1	27-Oct-2021 19:23
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	134		1.00	2.50	mg/L	5	15-Oct-2021 03:24
Fluoride	0.682		0.250	0.500	mg/L	5	15-Oct-2021 03:24
Nitrogen, Nitrate (As N)	24.4		0.150	0.500	mg/L	5	15-Oct-2021 03:24
Sulfate	1,480		10.0	25.0	mg/L	50	29-Oct-2021 14:51
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	4,130		5.00	5.00	umhos/cm @ 25.0 °C	1	28-Oct-2021 14:05
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: SH
Total Dissolved Solids (Residue, Filterable)	2,900		5.00	10.0	mg/L	1	20-Oct-2021 15:35
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	538		5.00	5.00	mg/L	1	14-Oct-2021 20:45
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	14-Oct-2021 20:45
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	14-Oct-2021 20:45
Alkalinity, Total (As CaCO3)	538		5.00	5.00	mg/L	1	14-Oct-2021 20:45
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	2.72		0.100	0.250	mg/L	5	14-Oct-2021 20:47
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U	H	0.0200	0.0500	mg/L	1	27-Oct-2021 20:36
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide	U		1.00	1.00	mg/L	1	20-Oct-2021 12:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-5A
 Collection Date: 13-Oct-2021 11:25

ANALYTICAL REPORT

WorkOrder:HS21100807
 Lab ID:HS21100807-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: SH
pH	7.75	H	0.100	0.100	pH Units	1	27-Oct-2021 12:00
Temp Deg C @pH	22.3	H	0	0	°C	1	27-Oct-2021 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-5B
 Collection Date: 13-Oct-2021 11:00

ANALYTICAL REPORT
 WorkOrder:HS21100807
 Lab ID:HS21100807-04
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: JHD
Ferric Iron	2.97		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: JHD
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 26-Oct-2021	Analyst: JHD
Boron	4.37		0.110	0.200	mg/L	10	26-Oct-2021 18:17
Calcium	56.8		0.340	5.00	mg/L	10	26-Oct-2021 18:17
Iron	3.61		0.0120	0.200	mg/L	1	27-Oct-2021 16:11
Magnesium	18.8		0.100	2.00	mg/L	10	26-Oct-2021 18:17
Molybdenum	0.0448		0.000600	0.00500	mg/L	1	27-Oct-2021 16:11
Potassium	10.1		0.0180	0.200	mg/L	1	27-Oct-2021 16:11
Sodium	836		0.140	2.00	mg/L	10	26-Oct-2021 21:23
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 27-Oct-2021	Analyst: JHD
Iron	U		0.0120	0.200	mg/L	1	27-Oct-2021 19:25
Molybdenum	0.0418		0.000600	0.00500	mg/L	1	27-Oct-2021 19:25
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	141		1.00	2.50	mg/L	5	15-Oct-2021 03:31
Fluoride	0.925		0.250	0.500	mg/L	5	15-Oct-2021 03:31
Nitrogen, Nitrate (As N)	59.8		0.150	0.500	mg/L	5	15-Oct-2021 03:31
Sulfate	1,310		10.0	25.0	mg/L	50	29-Oct-2021 14:59
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	4,250		5.00	5.00	umhos/cm @ 25.0 °C	1	28-Oct-2021 14:05
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: SH
Total Dissolved Solids (Residue, Filterable)	2,910		5.00	10.0	mg/L	1	20-Oct-2021 15:35
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	613		5.00	5.00	mg/L	1	14-Oct-2021 20:52
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	14-Oct-2021 20:52
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	14-Oct-2021 20:52
Alkalinity, Total (As CaCO3)	613		5.00	5.00	mg/L	1	14-Oct-2021 20:52
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	0.641		0.0200	0.0500	mg/L	1	14-Oct-2021 20:47
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U	H	0.0200	0.0500	mg/L	1	27-Oct-2021 20:36
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide	1.28		1.00	1.00	mg/L	1	20-Oct-2021 12:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-5B
 Collection Date: 13-Oct-2021 11:00

ANALYTICAL REPORT

WorkOrder:HS21100807
 Lab ID:HS21100807-04
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: SH		
pH	7.92	H	0.100	0.100	pH Units	1	27-Oct-2021 12:00
Temp Deg C @pH	22.2	H	0	0	°C	1	27-Oct-2021 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-3A
 Collection Date: 14-Oct-2021 10:30

ANALYTICAL REPORT
 WorkOrder:HS21100807
 Lab ID:HS21100807-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: JHD
Ferric Iron	5.27		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: JHD
Ferric Iron, Dissolved	0.0291	J	0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 26-Oct-2021	Analyst: JHD
Boron	2.72		0.110	0.200	mg/L	10	26-Oct-2021 18:19
Calcium	67.6		0.340	5.00	mg/L	10	26-Oct-2021 18:19
Iron	6.76		0.0120	0.200	mg/L	1	27-Oct-2021 16:13
Magnesium	10.7		0.100	2.00	mg/L	10	26-Oct-2021 18:19
Molybdenum	0.00297	J	0.000600	0.00500	mg/L	1	27-Oct-2021 16:13
Potassium	6.38		0.0180	0.200	mg/L	1	27-Oct-2021 16:13
Sodium	447		0.140	2.00	mg/L	10	26-Oct-2021 21:25
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 27-Oct-2021	Analyst: JHD
Iron	0.0291	J	0.0120	0.200	mg/L	1	27-Oct-2021 19:27
Molybdenum	0.0120		0.000600	0.00500	mg/L	1	27-Oct-2021 19:27
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	42.5		0.200	0.500	mg/L	1	15-Oct-2021 18:35
Fluoride	0.801		0.0500	0.100	mg/L	1	15-Oct-2021 18:35
Nitrogen, Nitrate (As N)	7.07		0.0300	0.100	mg/L	1	15-Oct-2021 18:35
Sulfate	635		4.00	10.0	mg/L	20	29-Oct-2021 15:06
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	2,410		5.00	5.00	umhos/cm @ 25.0 °C	1	28-Oct-2021 14:05
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: SH
Total Dissolved Solids (Residue, Filterable)	1,560		5.00	10.0	mg/L	1	20-Oct-2021 20:00
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	630		5.00	5.00	mg/L	1	22-Oct-2021 00:31
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	22-Oct-2021 00:31
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	22-Oct-2021 00:31
Alkalinity, Total (As CaCO3)	630		5.00	5.00	mg/L	1	22-Oct-2021 00:31
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	1.49		0.0200	0.0500	mg/L	1	15-Oct-2021 15:29
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U	H	0.0200	0.0500	mg/L	1	27-Oct-2021 20:36
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide	2.12		1.00	1.00	mg/L	1	21-Oct-2021 16:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
Project: WFEC / MNA Program
Sample ID: CM-3A
Collection Date: 14-Oct-2021 10:30

ANALYTICAL REPORT

WorkOrder:HS21100807
Lab ID:HS21100807-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: SH		
pH	7.73	H	0.100	0.100	pH Units	1	27-Oct-2021 12:00
Temp Deg C @pH	22.3	H	0	0	°C	1	27-Oct-2021 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: MW-15B
 Collection Date: 14-Oct-2021 11:40

ANALYTICAL REPORT
 WorkOrder:HS21100807
 Lab ID:HS21100807-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: JHD			
Ferric Iron	6.69		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: JHD			
Ferric Iron, Dissolved	0.0794		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 26-Oct-2021		Analyst: JHD	
Boron	4.78		0.110	0.200	mg/L	10	26-Oct-2021 18:21
Calcium	52.8		0.340	5.00	mg/L	10	26-Oct-2021 18:21
Iron	8.51		0.0120	0.200	mg/L	1	27-Oct-2021 16:37
Magnesium	15.9		0.100	2.00	mg/L	10	26-Oct-2021 18:21
Molybdenum	0.00328	J	0.000600	0.00500	mg/L	1	27-Oct-2021 16:37
Potassium	8.29		0.0180	0.200	mg/L	1	27-Oct-2021 16:37
Sodium	866		0.140	2.00	mg/L	10	26-Oct-2021 21:27
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 27-Oct-2021		Analyst: JHD	
Iron	0.0794	J	0.0120	0.200	mg/L	1	27-Oct-2021 19:29
Molybdenum	0.00679		0.000600	0.00500	mg/L	1	27-Oct-2021 19:29
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: YP			
Chloride	56.0		0.400	1.00	mg/L	2	15-Oct-2021 18:57
Fluoride	1.15		0.100	0.200	mg/L	2	15-Oct-2021 18:57
Nitrogen, Nitrate (As N)	18.3		0.0600	0.200	mg/L	2	15-Oct-2021 18:57
Sulfate	1,580		10.0	25.0	mg/L	50	29-Oct-2021 15:14
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: MZD			
Specific Conductivity	4,410		5.00	5.00	umhos/cm @ 25.0 °C	1	28-Oct-2021 14:05
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: SH			
Total Dissolved Solids (Residue, Filterable)	2,990		5.00	10.0	mg/L	1	20-Oct-2021 20:00
ALKALINITY BY SM 2320B-2011		Method:SM2320B		Analyst: TH			
Alkalinity, Bicarbonate (As CaCO3)	802		5.00	5.00	mg/L	1	22-Oct-2021 00:39
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	22-Oct-2021 00:39
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	22-Oct-2021 00:39
Alkalinity, Total (As CaCO3)	802		5.00	5.00	mg/L	1	22-Oct-2021 00:39
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: AP			
Ferrous Iron	1.82		0.0200	0.0500	mg/L	1	15-Oct-2021 15:29
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: AP			
Ferrous Iron, Dissolved	U	H	0.0200	0.0500	mg/L	1	27-Oct-2021 20:36
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: MZD			
Sulfide	3.31		1.00	1.00	mg/L	1	21-Oct-2021 16:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: MW-15B
 Collection Date: 14-Oct-2021 11:40

ANALYTICAL REPORT

WorkOrder:HS21100807
 Lab ID:HS21100807-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: SH
pH	7.59	H	0.100	0.100	pH Units	1	27-Oct-2021 12:00
Temp Deg C @pH	22.3	H	0	0	°C	1	27-Oct-2021 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: MW-22B
 Collection Date: 14-Oct-2021 11:15

ANALYTICAL REPORT
 WorkOrder:HS21100807
 Lab ID:HS21100807-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: JHD
Ferric Iron	4.22		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: JHD
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 26-Oct-2021	Analyst: JHD
Boron	3.17		0.110	0.200	mg/L	10	26-Oct-2021 18:24
Calcium	82.7		0.340	5.00	mg/L	10	26-Oct-2021 18:24
Iron	6.04		0.0120	0.200	mg/L	1	27-Oct-2021 16:39
Magnesium	26.0		0.100	2.00	mg/L	10	26-Oct-2021 18:24
Molybdenum	0.00446	J	0.000600	0.00500	mg/L	1	27-Oct-2021 16:39
Potassium	10.2		0.0180	0.200	mg/L	1	27-Oct-2021 16:39
Sodium	848		0.140	2.00	mg/L	10	26-Oct-2021 21:29
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 27-Oct-2021	Analyst: JHD
Iron	0.0138	J	0.0120	0.200	mg/L	1	27-Oct-2021 19:31
Molybdenum	0.00723		0.000600	0.00500	mg/L	1	27-Oct-2021 19:31
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	55.0		0.400	1.00	mg/L	2	15-Oct-2021 19:05
Fluoride	1.21		0.100	0.200	mg/L	2	15-Oct-2021 19:05
Nitrogen, Nitrate (As N)	0.958		0.0600	0.200	mg/L	2	15-Oct-2021 19:05
Sulfate	2,090		20.0	50.0	mg/L	100	29-Oct-2021 15:21
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	4,690		5.00	5.00	umhos/cm @ 25.0 °C	1	28-Oct-2021 14:05
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: SH
Total Dissolved Solids (Residue, Filterable)	3,290		5.00	10.0	mg/L	1	20-Oct-2021 20:00
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	435		5.00	5.00	mg/L	1	22-Oct-2021 00:45
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	22-Oct-2021 00:45
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	22-Oct-2021 00:45
Alkalinity, Total (As CaCO3)	435		5.00	5.00	mg/L	1	22-Oct-2021 00:45
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	1.82		0.0200	0.0500	mg/L	1	15-Oct-2021 15:29
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U	H	0.0200	0.0500	mg/L	1	27-Oct-2021 20:36
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide	U		1.00	1.00	mg/L	1	21-Oct-2021 16:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: MW-22B
 Collection Date: 14-Oct-2021 11:15

ANALYTICAL REPORT

WorkOrder:HS21100807
 Lab ID:HS21100807-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: SH		
pH	7.59	H	0.100	0.100	pH Units	1	27-Oct-2021 12:00
Temp Deg C @pH	22.4	H	0	0	°C	1	27-Oct-2021 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-1A
 Collection Date: 14-Oct-2021 18:46

ANALYTICAL REPORT
 WorkOrder:HS21100807
 Lab ID:HS21100807-08
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: JHD
Ferric Iron	0.0640		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: JHD
Ferric Iron, Dissolved	0.0382	J	0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 26-Oct-2021	Analyst: JHD
Boron	0.883		0.110	0.200	mg/L	10	26-Oct-2021 18:26
Calcium	531		0.340	5.00	mg/L	10	26-Oct-2021 18:26
Iron	0.115	J	0.0120	0.200	mg/L	1	27-Oct-2021 16:41
Magnesium	77.6		0.100	2.00	mg/L	10	26-Oct-2021 18:26
Molybdenum	0.00127	J	0.000600	0.00500	mg/L	1	27-Oct-2021 16:41
Potassium	11.9		0.0180	0.200	mg/L	1	27-Oct-2021 16:41
Sodium	198		0.140	2.00	mg/L	10	26-Oct-2021 21:31
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 27-Oct-2021	Analyst: JHD
Iron	0.0382	J	0.0120	0.200	mg/L	1	27-Oct-2021 19:33
Molybdenum	0.00121	J	0.000600	0.00500	mg/L	1	27-Oct-2021 19:33
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	21.2		0.200	0.500	mg/L	1	16-Oct-2021 15:17
Fluoride	0.399		0.0500	0.100	mg/L	1	16-Oct-2021 15:17
Nitrogen, Nitrate (As N)	U		0.0300	0.100	mg/L	1	16-Oct-2021 15:17
Sulfate	1,940		20.0	50.0	mg/L	100	29-Oct-2021 15:28
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	3,300		5.00	5.00	umhos/cm @ 25.0 °C	1	28-Oct-2021 14:05
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: SH
Total Dissolved Solids (Residue, Filterable)	3,030		5.00	10.0	mg/L	1	20-Oct-2021 20:00
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	356		5.00	5.00	mg/L	1	22-Oct-2021 00:51
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	22-Oct-2021 00:51
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	22-Oct-2021 00:51
Alkalinity, Total (As CaCO3)	356		5.00	5.00	mg/L	1	22-Oct-2021 00:51
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: TH
Ferrous Iron	0.0510		0.0200	0.0500	mg/L	1	16-Oct-2021 12:30
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U	H	0.0200	0.0500	mg/L	1	27-Oct-2021 20:36
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide	U		1.00	1.00	mg/L	1	21-Oct-2021 16:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-1A
 Collection Date: 14-Oct-2021 18:46

ANALYTICAL REPORT

WorkOrder:HS21100807
 Lab ID:HS21100807-08
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: SH
pH	7.73	H	0.100	0.100	pH Units	1	27-Oct-2021 12:00
Temp Deg C @pH	22.3	H	0	0	°C	1	27-Oct-2021 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-1B
 Collection Date: 14-Oct-2021 17:55

ANALYTICAL REPORT
 WorkOrder:HS21100807
 Lab ID:HS21100807-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: JHD
Ferric Iron	0.0435	J	0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: JHD
Ferric Iron, Dissolved		U	0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 26-Oct-2021	Analyst: JHD
Boron	3.48		0.110	0.200	mg/L	10	26-Oct-2021 18:28
Calcium	119		0.340	5.00	mg/L	10	26-Oct-2021 18:28
Iron	0.0865	J	0.0120	0.200	mg/L	1	27-Oct-2021 16:44
Magnesium	45.1		0.100	2.00	mg/L	10	26-Oct-2021 18:28
Molybdenum	0.00976		0.000600	0.00500	mg/L	1	27-Oct-2021 16:44
Potassium	13.6		0.0180	0.200	mg/L	1	27-Oct-2021 16:44
Sodium	951		0.140	2.00	mg/L	10	26-Oct-2021 21:33
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 27-Oct-2021	Analyst: JHD
Iron		U	0.0120	0.200	mg/L	1	27-Oct-2021 19:35
Molybdenum	0.0108		0.000600	0.00500	mg/L	1	27-Oct-2021 19:35
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	113		0.400	1.00	mg/L	2	16-Oct-2021 15:24
Fluoride	0.789		0.100	0.200	mg/L	2	16-Oct-2021 15:24
Nitrogen, Nitrate (As N)		U	0.0600	0.200	mg/L	2	16-Oct-2021 15:24
Sulfate	2,300		20.0	50.0	mg/L	100	29-Oct-2021 15:51
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	5,110		5.00	5.00	umhos/cm @ 25.0 °C	1	28-Oct-2021 14:05
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: SH
Total Dissolved Solids (Residue, Filterable)	3,670		5.00	10.0	mg/L	1	20-Oct-2021 20:00
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	424		5.00	5.00	mg/L	1	22-Oct-2021 00:57
Alkalinity, Carbonate (As CaCO3)		U	5.00	5.00	mg/L	1	22-Oct-2021 00:57
Alkalinity, Hydroxide (As CaCO3)		U	5.00	5.00	mg/L	1	22-Oct-2021 00:57
Alkalinity, Total (As CaCO3)	424		5.00	5.00	mg/L	1	22-Oct-2021 00:57
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: TH
Ferrous Iron	0.0430	J	0.0200	0.0500	mg/L	1	16-Oct-2021 12:30
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved		U	0.0200	0.0500	mg/L	1	27-Oct-2021 20:36
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide		U	1.00	1.00	mg/L	1	21-Oct-2021 16:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-1B
 Collection Date: 14-Oct-2021 17:55

ANALYTICAL REPORT

WorkOrder:HS21100807
 Lab ID:HS21100807-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: SH
pH	8.03	H	0.100	0.100	pH Units	1	27-Oct-2021 12:00
Temp Deg C @pH	22.3	H	0	0	°C	1	27-Oct-2021 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-2
 Collection Date: 15-Oct-2021 12:22

ANALYTICAL REPORT
 WorkOrder:HS21100807
 Lab ID:HS21100807-10
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: JHD
Ferric Iron	0.0970		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: JHD
Ferric Iron, Dissolved	0.237		0.0200	0.0500	mg/L	1	28-Oct-2021 17:32
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 26-Oct-2021	Analyst: JHD
Boron	0.744		0.110	0.200	mg/L	10	26-Oct-2021 18:30
Calcium	487		0.340	5.00	mg/L	10	26-Oct-2021 18:30
Iron	0.232		0.0120	0.200	mg/L	1	27-Oct-2021 16:46
Magnesium	29.5		0.100	2.00	mg/L	10	26-Oct-2021 18:30
Molybdenum	0.00120	J	0.000600	0.00500	mg/L	1	27-Oct-2021 16:46
Potassium	7.56		0.0180	0.200	mg/L	1	27-Oct-2021 16:46
Sodium	107		0.140	2.00	mg/L	10	26-Oct-2021 21:35
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 27-Oct-2021	Analyst: JHD
Iron	0.237		0.0120	0.200	mg/L	1	27-Oct-2021 19:38
Molybdenum	0.00136	J	0.000600	0.00500	mg/L	1	27-Oct-2021 19:38
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	3.15		0.200	0.500	mg/L	1	16-Oct-2021 15:32
Fluoride	0.526		0.0500	0.100	mg/L	1	16-Oct-2021 15:32
Nitrogen, Nitrate (As N)	0.0497	J	0.0300	0.100	mg/L	1	16-Oct-2021 15:32
Sulfate	1,370		10.0	25.0	mg/L	50	29-Oct-2021 15:58
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	2,500		5.00	5.00	umhos/cm @ 25.0 °C	1	28-Oct-2021 14:05
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: SH
Total Dissolved Solids (Residue, Filterable)	2,210		5.00	10.0	mg/L	1	21-Oct-2021 15:00
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	353		5.00	5.00	mg/L	1	22-Oct-2021 01:04
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	22-Oct-2021 01:04
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	22-Oct-2021 01:04
Alkalinity, Total (As CaCO3)	353		5.00	5.00	mg/L	1	22-Oct-2021 01:04
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: TH
Ferrous Iron	0.135		0.0200	0.0500	mg/L	1	16-Oct-2021 12:30
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U	H	0.0200	0.0500	mg/L	1	27-Oct-2021 20:36
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide	U		1.00	1.00	mg/L	1	21-Oct-2021 16:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-2
 Collection Date: 15-Oct-2021 12:22

ANALYTICAL REPORT

WorkOrder:HS21100807
 Lab ID:HS21100807-10
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: SH		
pH	7.37	H	0.100	0.100	pH Units	1	27-Oct-2021 12:00
Temp Deg C @pH	22.3	H	0	0	°C	1	27-Oct-2021 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

Batch ID: 171725 **Start Date:** 26 Oct 2021 08:00 **End Date:** 26 Oct 2021 12:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21100807-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-10		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 171817 **Start Date:** 27 Oct 2021 12:30 **End Date:** 27 Oct 2021 16:30
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21100807-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100807-10		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 171897 **Start Date:** 26 Oct 2021 09:08 **End Date:**
Method: SAMPLE FILTRATION - 0.45 MICRON FILTER **Prep Code:** FILTRATION - WET CHEM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21100807-01		50 (mL)	50 (mL)	1	500 mL plastic, Neat
HS21100807-02		50 (mL)	50 (mL)	1	500 mL plastic, Neat
HS21100807-03		50 (mL)	50 (mL)	1	500 mL plastic, Neat
HS21100807-04		50 (mL)	50 (mL)	1	500 mL plastic, Neat
HS21100807-05		50 (mL)	50 (mL)	1	500 mL plastic, Neat
HS21100807-06		50 (mL)	50 (mL)	1	500 mL plastic, Neat
HS21100807-07		50 (mL)	50 (mL)	1	500 mL plastic, Neat
HS21100807-08		50 (mL)	50 (mL)	1	500 mL plastic, Neat
HS21100807-09		50 (mL)	50 (mL)	1	500 mL plastic, Neat
HS21100807-10		50 (mL)	50 (mL)	1	500 mL plastic, Neat

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 171725 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30		26 Oct 2021 12:00	27 Oct 2021 15:30	1
HS21100807-01	CM-4A	13 Oct 2021 12:30		26 Oct 2021 12:00	26 Oct 2021 18:05	10
HS21100807-02	CM-4B	13 Oct 2021 12:00		26 Oct 2021 12:00	27 Oct 2021 15:34	1
HS21100807-02	CM-4B	13 Oct 2021 12:00		26 Oct 2021 12:00	26 Oct 2021 18:07	10
HS21100807-03	CM-5A	13 Oct 2021 11:25		26 Oct 2021 12:00	27 Oct 2021 15:35	1
HS21100807-03	CM-5A	13 Oct 2021 11:25		26 Oct 2021 12:00	26 Oct 2021 21:21	10
HS21100807-03	CM-5A	13 Oct 2021 11:25		26 Oct 2021 12:00	26 Oct 2021 18:15	10
HS21100807-04	CM-5B	13 Oct 2021 11:00		26 Oct 2021 12:00	27 Oct 2021 16:11	1
HS21100807-04	CM-5B	13 Oct 2021 11:00		26 Oct 2021 12:00	26 Oct 2021 21:23	10
HS21100807-04	CM-5B	13 Oct 2021 11:00		26 Oct 2021 12:00	26 Oct 2021 18:17	10
HS21100807-05	CM-3A	14 Oct 2021 10:30		26 Oct 2021 12:00	27 Oct 2021 16:13	1
HS21100807-05	CM-3A	14 Oct 2021 10:30		26 Oct 2021 12:00	26 Oct 2021 21:25	10
HS21100807-05	CM-3A	14 Oct 2021 10:30		26 Oct 2021 12:00	26 Oct 2021 18:19	10
HS21100807-06	MW-15B	14 Oct 2021 11:40		26 Oct 2021 12:00	27 Oct 2021 16:37	1
HS21100807-06	MW-15B	14 Oct 2021 11:40		26 Oct 2021 12:00	26 Oct 2021 21:27	10
HS21100807-06	MW-15B	14 Oct 2021 11:40		26 Oct 2021 12:00	26 Oct 2021 18:21	10
HS21100807-07	MW-22B	14 Oct 2021 11:15		26 Oct 2021 12:00	27 Oct 2021 16:39	1
HS21100807-07	MW-22B	14 Oct 2021 11:15		26 Oct 2021 12:00	26 Oct 2021 21:29	10
HS21100807-07	MW-22B	14 Oct 2021 11:15		26 Oct 2021 12:00	26 Oct 2021 18:24	10
HS21100807-08	CM-1A	14 Oct 2021 18:46		26 Oct 2021 12:00	27 Oct 2021 16:41	1
HS21100807-08	CM-1A	14 Oct 2021 18:46		26 Oct 2021 12:00	26 Oct 2021 21:31	10
HS21100807-08	CM-1A	14 Oct 2021 18:46		26 Oct 2021 12:00	26 Oct 2021 18:26	10
HS21100807-09	CM-1B	14 Oct 2021 17:55		26 Oct 2021 12:00	27 Oct 2021 16:44	1
HS21100807-09	CM-1B	14 Oct 2021 17:55		26 Oct 2021 12:00	26 Oct 2021 21:33	10
HS21100807-09	CM-1B	14 Oct 2021 17:55		26 Oct 2021 12:00	26 Oct 2021 18:28	10
HS21100807-10	CM-2	15 Oct 2021 12:22		26 Oct 2021 12:00	27 Oct 2021 16:46	1
HS21100807-10	CM-2	15 Oct 2021 12:22		26 Oct 2021 12:00	26 Oct 2021 21:35	10
HS21100807-10	CM-2	15 Oct 2021 12:22		26 Oct 2021 12:00	26 Oct 2021 18:30	10

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Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 171817 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30		27 Oct 2021 16:30	27 Oct 2021 18:27	1
HS21100807-02	CM-4B	13 Oct 2021 12:00		27 Oct 2021 16:30	27 Oct 2021 19:21	1
HS21100807-03	CM-5A	13 Oct 2021 11:25		27 Oct 2021 16:30	27 Oct 2021 19:23	1
HS21100807-04	CM-5B	13 Oct 2021 11:00		27 Oct 2021 16:30	27 Oct 2021 19:25	1
HS21100807-05	CM-3A	14 Oct 2021 10:30		27 Oct 2021 16:30	27 Oct 2021 19:27	1
HS21100807-06	MW-15B	14 Oct 2021 11:40		27 Oct 2021 16:30	27 Oct 2021 19:29	1
HS21100807-07	MW-22B	14 Oct 2021 11:15		27 Oct 2021 16:30	27 Oct 2021 19:31	1
HS21100807-08	CM-1A	14 Oct 2021 18:46		27 Oct 2021 16:30	27 Oct 2021 19:33	1
HS21100807-09	CM-1B	14 Oct 2021 17:55		27 Oct 2021 16:30	27 Oct 2021 19:35	1
HS21100807-10	CM-2	15 Oct 2021 12:22		27 Oct 2021 16:30	27 Oct 2021 19:38	1
Batch ID: R393445 (0)		Test Name : ALKALINITY BY SM 2320B-2011			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			14 Oct 2021 20:30	1
HS21100807-02	CM-4B	13 Oct 2021 12:00			14 Oct 2021 20:38	1
HS21100807-03	CM-5A	13 Oct 2021 11:25			14 Oct 2021 20:45	1
HS21100807-04	CM-5B	13 Oct 2021 11:00			14 Oct 2021 20:52	1
Batch ID: R393484 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			15 Oct 2021 02:54	5
HS21100807-02	CM-4B	13 Oct 2021 12:00			15 Oct 2021 03:01	5
HS21100807-03	CM-5A	13 Oct 2021 11:25			15 Oct 2021 03:24	5
HS21100807-04	CM-5B	13 Oct 2021 11:00			15 Oct 2021 03:31	5
Batch ID: R393566 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS21100807-08	CM-1A	14 Oct 2021 18:46			16 Oct 2021 12:30	1
HS21100807-09	CM-1B	14 Oct 2021 17:55			16 Oct 2021 12:30	1
HS21100807-10	CM-2	15 Oct 2021 12:22			16 Oct 2021 12:30	1
Batch ID: R393664 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS21100807-05	CM-3A	14 Oct 2021 10:30			15 Oct 2021 18:35	1
HS21100807-06	MW-15B	14 Oct 2021 11:40			15 Oct 2021 18:57	2
HS21100807-07	MW-22B	14 Oct 2021 11:15			15 Oct 2021 19:05	2
Batch ID: R393740 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS21100807-05	CM-3A	14 Oct 2021 10:30			15 Oct 2021 15:29	1
HS21100807-06	MW-15B	14 Oct 2021 11:40			15 Oct 2021 15:29	1
HS21100807-07	MW-22B	14 Oct 2021 11:15			15 Oct 2021 15:29	1
Batch ID: R393819 (0)		Test Name : SULFIDE BY SM4500 S2-F-2011			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			20 Oct 2021 12:50	1
HS21100807-02	CM-4B	13 Oct 2021 12:00			20 Oct 2021 12:50	1
HS21100807-03	CM-5A	13 Oct 2021 11:25			20 Oct 2021 12:50	1
HS21100807-04	CM-5B	13 Oct 2021 11:00			20 Oct 2021 12:50	1

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Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R393899 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			14 Oct 2021 20:47	1
HS21100807-02	CM-4B	13 Oct 2021 12:00			14 Oct 2021 20:47	5
HS21100807-03	CM-5A	13 Oct 2021 11:25			14 Oct 2021 20:47	5
HS21100807-04	CM-5B	13 Oct 2021 11:00			14 Oct 2021 20:47	1
Batch ID: R393922 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS21100807-05	CM-3A	14 Oct 2021 10:30			20 Oct 2021 20:00	1
HS21100807-06	MW-15B	14 Oct 2021 11:40			20 Oct 2021 20:00	1
HS21100807-07	MW-22B	14 Oct 2021 11:15			20 Oct 2021 20:00	1
HS21100807-08	CM-1A	14 Oct 2021 18:46			20 Oct 2021 20:00	1
HS21100807-09	CM-1B	14 Oct 2021 17:55			20 Oct 2021 20:00	1
Batch ID: R393933 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			20 Oct 2021 15:35	1
HS21100807-02	CM-4B	13 Oct 2021 12:00			20 Oct 2021 15:35	1
HS21100807-03	CM-5A	13 Oct 2021 11:25			20 Oct 2021 15:35	1
HS21100807-04	CM-5B	13 Oct 2021 11:00			20 Oct 2021 15:35	1
Batch ID: R393972 (0)		Test Name : ALKALINITY BY SM 2320B-2011			Matrix: Water	
HS21100807-05	CM-3A	14 Oct 2021 10:30			22 Oct 2021 00:31	1
HS21100807-06	MW-15B	14 Oct 2021 11:40			22 Oct 2021 00:39	1
HS21100807-07	MW-22B	14 Oct 2021 11:15			22 Oct 2021 00:45	1
HS21100807-08	CM-1A	14 Oct 2021 18:46			22 Oct 2021 00:51	1
HS21100807-09	CM-1B	14 Oct 2021 17:55			22 Oct 2021 00:57	1
HS21100807-10	CM-2	15 Oct 2021 12:22			22 Oct 2021 01:04	1
Batch ID: R393988 (0)		Test Name : SULFIDE BY SM4500 S2-F-2011			Matrix: Water	
HS21100807-05	CM-3A	14 Oct 2021 10:30			21 Oct 2021 16:45	1
HS21100807-06	MW-15B	14 Oct 2021 11:40			21 Oct 2021 16:45	1
HS21100807-07	MW-22B	14 Oct 2021 11:15			21 Oct 2021 16:45	1
HS21100807-08	CM-1A	14 Oct 2021 18:46			21 Oct 2021 16:45	1
HS21100807-09	CM-1B	14 Oct 2021 17:55			21 Oct 2021 16:45	1
HS21100807-10	CM-2	15 Oct 2021 12:22			21 Oct 2021 16:45	1
Batch ID: R394028 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS21100807-10	CM-2	15 Oct 2021 12:22			21 Oct 2021 15:00	1

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Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R394287 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			27 Oct 2021 12:00	1
HS21100807-02	CM-4B	13 Oct 2021 12:00			27 Oct 2021 12:00	1
HS21100807-03	CM-5A	13 Oct 2021 11:25			27 Oct 2021 12:00	1
HS21100807-04	CM-5B	13 Oct 2021 11:00			27 Oct 2021 12:00	1
HS21100807-05	CM-3A	14 Oct 2021 10:30			27 Oct 2021 12:00	1
HS21100807-06	MW-15B	14 Oct 2021 11:40			27 Oct 2021 12:00	1
HS21100807-07	MW-22B	14 Oct 2021 11:15			27 Oct 2021 12:00	1
HS21100807-08	CM-1A	14 Oct 2021 18:46			27 Oct 2021 12:00	1
HS21100807-09	CM-1B	14 Oct 2021 17:55			27 Oct 2021 12:00	1
HS21100807-10	CM-2	15 Oct 2021 12:22			27 Oct 2021 12:00	1
Batch ID: R394412 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS21100807-08	CM-1A	14 Oct 2021 18:46			16 Oct 2021 15:17	1
HS21100807-09	CM-1B	14 Oct 2021 17:55			16 Oct 2021 15:24	2
HS21100807-10	CM-2	15 Oct 2021 12:22			16 Oct 2021 15:32	1
Batch ID: R394420 (0)		Test Name : SPECIFIC CONDUCTANCE BY SM 2510B-2011			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			28 Oct 2021 14:05	1
HS21100807-02	CM-4B	13 Oct 2021 12:00			28 Oct 2021 14:05	1
HS21100807-03	CM-5A	13 Oct 2021 11:25			28 Oct 2021 14:05	1
HS21100807-04	CM-5B	13 Oct 2021 11:00			28 Oct 2021 14:05	1
HS21100807-05	CM-3A	14 Oct 2021 10:30			28 Oct 2021 14:05	1
HS21100807-06	MW-15B	14 Oct 2021 11:40			28 Oct 2021 14:05	1
HS21100807-07	MW-22B	14 Oct 2021 11:15			28 Oct 2021 14:05	1
HS21100807-08	CM-1A	14 Oct 2021 18:46			28 Oct 2021 14:05	1
HS21100807-09	CM-1B	14 Oct 2021 17:55			28 Oct 2021 14:05	1
HS21100807-10	CM-2	15 Oct 2021 12:22			28 Oct 2021 14:05	1
Batch ID: R394434 (0)		Test Name : FERROUS IRON BY SM3500 FE D			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			27 Oct 2021 20:36	1
HS21100807-02	CM-4B	13 Oct 2021 12:00			27 Oct 2021 20:36	1
HS21100807-03	CM-5A	13 Oct 2021 11:25			27 Oct 2021 20:36	1
HS21100807-04	CM-5B	13 Oct 2021 11:00			27 Oct 2021 20:36	1
HS21100807-05	CM-3A	14 Oct 2021 10:30			27 Oct 2021 20:36	1
HS21100807-06	MW-15B	14 Oct 2021 11:40			27 Oct 2021 20:36	1
HS21100807-07	MW-22B	14 Oct 2021 11:15			27 Oct 2021 20:36	1
HS21100807-08	CM-1A	14 Oct 2021 18:46			27 Oct 2021 20:36	1
HS21100807-09	CM-1B	14 Oct 2021 17:55			27 Oct 2021 20:36	1
HS21100807-10	CM-2	15 Oct 2021 12:22			27 Oct 2021 20:36	1

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DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R394454 (0)		Test Name : FERRIC IRON - BY CALCULATION BY SM3500FED			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			28 Oct 2021 17:32	1
HS21100807-02	CM-4B	13 Oct 2021 12:00			28 Oct 2021 17:32	1
HS21100807-03	CM-5A	13 Oct 2021 11:25			28 Oct 2021 17:32	1
HS21100807-04	CM-5B	13 Oct 2021 11:00			28 Oct 2021 17:32	1
HS21100807-05	CM-3A	14 Oct 2021 10:30			28 Oct 2021 17:32	1
HS21100807-06	MW-15B	14 Oct 2021 11:40			28 Oct 2021 17:32	1
HS21100807-07	MW-22B	14 Oct 2021 11:15			28 Oct 2021 17:32	1
HS21100807-08	CM-1A	14 Oct 2021 18:46			28 Oct 2021 17:32	1
HS21100807-09	CM-1B	14 Oct 2021 17:55			28 Oct 2021 17:32	1
HS21100807-10	CM-2	15 Oct 2021 12:22			28 Oct 2021 17:32	1
Batch ID: R394455 (0)		Test Name : FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			28 Oct 2021 17:32	1
HS21100807-02	CM-4B	13 Oct 2021 12:00			28 Oct 2021 17:32	1
HS21100807-03	CM-5A	13 Oct 2021 11:25			28 Oct 2021 17:32	1
HS21100807-04	CM-5B	13 Oct 2021 11:00			28 Oct 2021 17:32	1
HS21100807-05	CM-3A	14 Oct 2021 10:30			28 Oct 2021 17:32	1
HS21100807-06	MW-15B	14 Oct 2021 11:40			28 Oct 2021 17:32	1
HS21100807-07	MW-22B	14 Oct 2021 11:15			28 Oct 2021 17:32	1
HS21100807-08	CM-1A	14 Oct 2021 18:46			28 Oct 2021 17:32	1
HS21100807-09	CM-1B	14 Oct 2021 17:55			28 Oct 2021 17:32	1
HS21100807-10	CM-2	15 Oct 2021 12:22			28 Oct 2021 17:32	1
Batch ID: R394568 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS21100807-01	CM-4A	13 Oct 2021 12:30			29 Oct 2021 14:22	50
HS21100807-02	CM-4B	13 Oct 2021 12:00			29 Oct 2021 14:44	50
HS21100807-03	CM-5A	13 Oct 2021 11:25			29 Oct 2021 14:51	50
HS21100807-04	CM-5B	13 Oct 2021 11:00			29 Oct 2021 14:59	50
HS21100807-05	CM-3A	14 Oct 2021 10:30			29 Oct 2021 15:06	20
HS21100807-06	MW-15B	14 Oct 2021 11:40			29 Oct 2021 15:14	50
HS21100807-07	MW-22B	14 Oct 2021 11:15			29 Oct 2021 15:21	100
HS21100807-08	CM-1A	14 Oct 2021 18:46			29 Oct 2021 15:28	100
HS21100807-09	CM-1B	14 Oct 2021 17:55			29 Oct 2021 15:51	100
HS21100807-10	CM-2	15 Oct 2021 12:22			29 Oct 2021 15:58	50

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QC BATCH REPORT

Batch ID: 171725 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A
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MBLK		Sample ID: MBLK-171725			Units: mg/L		Analysis Date: 26-Oct-2021 21:09			
Client ID:		Run ID: ICPMS06_394199			SeqNo: 6339366		PrepDate: 26-Oct-2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	U	0.0200								
Calcium	U	0.500								
Iron	U	0.200								
Magnesium	U	0.200								
Molybdenum	U	0.00500								
Potassium	U	0.200								
Sodium	U	0.200								

LCS		Sample ID: LCS-171725			Units: mg/L		Analysis Date: 26-Oct-2021 17:04			
Client ID:		Run ID: ICPMS06_394199			SeqNo: 6339265		PrepDate: 26-Oct-2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.4286	0.0200	0.5	0	85.7	80 - 120				
Calcium	4.563	0.500	5	0	91.3	80 - 120				
Iron	4.616	0.200	5	0	92.3	80 - 120				
Magnesium	5.125	0.200	5	0	103	80 - 120				
Molybdenum	0.04725	0.00500	0.05	0	94.5	80 - 120				
Potassium	4.847	0.200	5	0	96.9	80 - 120				
Sodium	5.23	0.200	5	0	105	80 - 120				

MS		Sample ID: HS21100809-02MS			Units: mg/L		Analysis Date: 26-Oct-2021 17:12			
Client ID:		Run ID: ICPMS06_394199			SeqNo: 6339269		PrepDate: 26-Oct-2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.646	0.0200	0.5	0.1752	94.2	80 - 120				
Calcium	550.9	0.500	5	552.4	-31.4	80 - 120				SEO
Iron	7.407	0.200	5	2.82	91.8	80 - 120				
Magnesium	124.8	0.200	5	123.1	33.2	80 - 120				SO
Molybdenum	0.05121	0.00500	0.05	0.000862	101	80 - 120				
Potassium	6.096	0.200	5	1.154	98.8	80 - 120				
Sodium	909.5	0.200	5	928.6	-382	80 - 120				SEO

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Batch ID: 171725 (0)		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MSD		Sample ID: HS21100809-02MSD			Units: mg/L		Analysis Date: 26-Oct-2021 17:14			
Client ID:		Run ID: ICPMS06_394199			SeqNo: 6339270		PrepDate: 26-Oct-2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.6395	0.0200	0.5	0.1752	92.9	80 - 120	0.646	1.01	20	
Calcium	537.2	0.500	5	552.4	-306	80 - 120	550.9	2.52	20	SEO
Iron	7.298	0.200	5	2.82	89.6	80 - 120	7.407	1.48	20	
Magnesium	123	0.200	5	123.1	-3.20	80 - 120	124.8	1.47	20	SO
Molybdenum	0.04895	0.00500	0.05	0.000862	96.2	80 - 120	0.05121	4.51	20	
Potassium	5.922	0.200	5	1.154	95.3	80 - 120	6.096	2.9	20	
Sodium	889.9	0.200	5	928.6	-773	80 - 120	909.5	2.17	20	SEO
PDS		Sample ID: HS21100809-02PDS			Units: mg/L		Analysis Date: 27-Oct-2021 15:28			
Client ID:		Run ID: ICPMS06_394320			SeqNo: 6341205		PrepDate: 26-Oct-2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.4395	0.0200	0.25	0.1752	106	75 - 125				
Iron	11.94	0.200	10	2.82	91.2	75 - 125				
Magnesium	124.5	0.200	10	123.1	13.5	75 - 125				SO
Molybdenum	0.09732	0.00500	0.1	0.000862	96.5	75 - 125				
Potassium	10.68	0.200	10	1.154	95.2	75 - 125				
PDS		Sample ID: HS21100809-02PDS			Units: mg/L		Analysis Date: 26-Oct-2021 21:15			
Client ID:		Run ID: ICPMS06_394199			SeqNo: 6339369		PrepDate: 26-Oct-2021		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	1398	50.0	1000	522.9	87.5	75 - 125				
Sodium	1692	20.0	1000	834.7	85.8	75 - 125				
SD		Sample ID: HS21100809-02SD			Units: mg/L		Analysis Date: 26-Oct-2021 21:13			
Client ID:		Run ID: ICPMS06_394199			SeqNo: 6339368		PrepDate: 26-Oct-2021		DF: 500	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Calcium	535.2	250					522.9	2.34	10	
Sodium	852.4	100					834.7	2.11	10	

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Batch ID: 171725 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

SD		Sample ID: HS21100809-02SD		Units: mg/L		Analysis Date: 26-Oct-2021 17:10				
Client ID:		Run ID: ICPMS06_394199		SeqNo: 6339268		PrepDate: 26-Oct-2021		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Iron	2.887	1.00					2.82	2.39	10	
Magnesium	122.5	1.00					123.1	0.508	10	
Molybdenum	U	0.0250					0.000862	0	10	

SD		Sample ID: HS21100809-02SD		Units: mg/L		Analysis Date: 27-Oct-2021 15:26				
Client ID:		Run ID: ICPMS06_394320		SeqNo: 6341204		PrepDate: 26-Oct-2021		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Potassium	1.185	1.00					1.154	2.72	10	

The following samples were analyzed in this batch:

HS21100807-01	HS21100807-02	HS21100807-03	HS21100807-04
HS21100807-05	HS21100807-06	HS21100807-07	HS21100807-08
HS21100807-09	HS21100807-10		

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WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: 171817 (0)		Instrument: ICPMS06			Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLK-171817	Units: mg/L			Analysis Date: 27-Oct-2021 18:22					
Client ID:		Run ID: ICPMS06_394320	SeqNo: 6341637	PrepDate: 27-Oct-2021	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	U	0.200								
Molybdenum	U	0.00500								
LCS	Sample ID: LCS-171817	Units: mg/L			Analysis Date: 27-Oct-2021 18:24					
Client ID:		Run ID: ICPMS06_394320	SeqNo: 6341638	PrepDate: 27-Oct-2021	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.966	0.200	5	0	99.3	80 - 120				
Molybdenum	0.04967	0.00500	0.05	0	99.4	80 - 120				
MS	Sample ID: HS21100769-09MS	Units: mg/L			Analysis Date: 27-Oct-2021 19:11					
Client ID:		Run ID: ICPMS06_394320	SeqNo: 6341657	PrepDate: 27-Oct-2021	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	6.128	0.200	5	1.004	102	75 - 125				
Molybdenum	0.05395	0.00500	0.05	0.03278	42.4	75 - 125				S
MSD	Sample ID: HS21100769-09MSD	Units: mg/L			Analysis Date: 27-Oct-2021 19:13					
Client ID:		Run ID: ICPMS06_394320	SeqNo: 6341658	PrepDate: 27-Oct-2021	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	6.115	0.200	5	1.004	102	75 - 125	6.128	0.218	20	
Molybdenum	0.05302	0.00500	0.05	0.03278	40.5	75 - 125	0.05395	1.75	20	S
PDS	Sample ID: HS21100769-09PDS	Units: mg/L			Analysis Date: 27-Oct-2021 19:15					
Client ID:		Run ID: ICPMS06_394320	SeqNo: 6341659	PrepDate: 27-Oct-2021	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Molybdenum	0.1307	0.00500	0.1	0.03278	97.9	75 - 125				

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: 171817 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

SD	Sample ID: HS21100769-09SD	Units: mg/L			Analysis Date: 27-Oct-2021 19:09				
Client ID:	Run ID: ICPMS06_394320	SeqNo: 6341656	PrepDate: 27-Oct-2021	DF: 5					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual
Iron	1.041	1.00					1.004	3.62	10
Molybdenum	0.03191	0.0250					0.03278	2.64	10

The following samples were analyzed in this batch:

HS21100807-01	HS21100807-02	HS21100807-03	HS21100807-04
HS21100807-05	HS21100807-06	HS21100807-07	HS21100807-08
HS21100807-09	HS21100807-10		

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393445 (0)	Instrument: ManTech01	Method: ALKALINITY BY SM 2320B-2011
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MBLK	Sample ID: WBLKW1-211014	Units: mg/L	Analysis Date: 14-Oct-2021 18:35							
Client ID:	Run ID: ManTech01_393445	SeqNo: 6319811	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								
Alkalinity, Hydroxide (As CaCO3)	U	5.00								
Alkalinity, Total (As CaCO3)	U	5.00								

LCS	Sample ID: LCS1-211014	Units: mg/L	Analysis Date: 14-Oct-2021 18:43							
Client ID:	Run ID: ManTech01_393445	SeqNo: 6319812	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	1005	5.00	1000	0	100	85 - 115				
Alkalinity, Total (As CaCO3)	1015	5.00	1000	0	101	85 - 115				

LCSD	Sample ID: LCSD1-211014	Units: mg/L	Analysis Date: 14-Oct-2021 18:52							
Client ID:	Run ID: ManTech01_393445	SeqNo: 6319813	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	1008	5.00	1000	0	101	85 - 115	1005	0.322	20	
Alkalinity, Total (As CaCO3)	1022	5.00	1000	0	102	85 - 115	1015	0.729	20	

DUP	Sample ID: HS21100801-02DUP	Units: mg/L	Analysis Date: 14-Oct-2021 19:05							
Client ID:	Run ID: ManTech01_393445	SeqNo: 6319815	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	177.1	5.00					159	10.7	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Total (As CaCO3)	177.1	5.00					159	10.7	20	

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393445 (0) **Instrument:** ManTech01 **Method:** ALKALINITY BY SM 2320B-2011

DUP Sample ID: **HS21100767-05DUP** Units: **mg/L** Analysis Date: **14-Oct-2021 19:27**
 Client ID: Run ID: **ManTech01_393445** SeqNo: **6319818** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Alkalinity, Bicarbonate (As CaCO3)	853.7	5.00					848	0.673	20
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20
Alkalinity, Hydroxide (As CaCO3)	U	5.00					0	0	20
Alkalinity, Total (As CaCO3)	853.7	5.00					848	0.673	20

The following samples were analyzed in this batch: HS21100807-01 HS21100807-02 HS21100807-03 HS21100807-04

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393484 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MBLK		Sample ID: MBLK		Units: mg/L		Analysis Date: 15-Oct-2021 04:30			
Client ID:		Run ID: ICS-Integrion_393484		SeqNo: 6320594		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	U	0.500							
Fluoride	U	0.100							
Nitrogen, Nitrate (As N)	U	0.100							

LCS		Sample ID: LCS		Units: mg/L		Analysis Date: 15-Oct-2021 04:38			
Client ID:		Run ID: ICS-Integrion_393484		SeqNo: 6320595		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	19.58	0.500	20	0	97.9	90 - 110			
Fluoride	4.095	0.100	4	0	102	90 - 110			
Nitrogen, Nitrate (As N)	3.858	0.100	4	0	96.4	90 - 110			

MS		Sample ID: HS21100807-02MS		Units: mg/L		Analysis Date: 15-Oct-2021 03:09			
Client ID: CM-4B		Run ID: ICS-Integrion_393484		SeqNo: 6320586		PrepDate:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	159.3	2.50	50	112.7	93.1	80 - 120			
Fluoride	11.64	0.500	10	1.05	106	80 - 120			
Nitrogen, Nitrate (As N)	31.49	0.500	10	22.2	92.9	80 - 120			

MS		Sample ID: HS21100772-01MS		Units: mg/L		Analysis Date: 14-Oct-2021 22:42			
Client ID:		Run ID: ICS-Integrion_393484		SeqNo: 6320571		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	28.83	0.500	10	18.75	101	80 - 120			
Fluoride	2.14	0.100	2	0.0956	102	80 - 120			
Nitrogen, Nitrate (As N)	2.158	0.100	2	0.1676	99.5	80 - 120			

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393484 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MSD		Sample ID: HS21100807-02MSD			Units: mg/L		Analysis Date: 15-Oct-2021 03:16			
Client ID: CM-4B		Run ID: ICS-Integrion_393484			SeqNo: 6320587		PrepDate:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	157.4	2.50	50	112.7	89.4	80 - 120	159.3	1.17	20	
Fluoride	11.39	0.500	10	1.05	103	80 - 120	11.64	2.16	20	
Nitrogen, Nitrate (As N)	31.12	0.500	10	22.2	89.2	80 - 120	31.49	1.18	20	

MSD		Sample ID: HS21100772-01MSD			Units: mg/L		Analysis Date: 14-Oct-2021 22:50			
Client ID:		Run ID: ICS-Integrion_393484			SeqNo: 6320572		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	28.38	0.500	10	18.75	96.3	80 - 120	28.83	1.57	20	
Fluoride	2.1	0.100	2	0.0956	100	80 - 120	2.14	1.87	20	
Nitrogen, Nitrate (As N)	2.122	0.100	2	0.1676	97.7	80 - 120	2.158	1.69	20	

The following samples were analyzed in this batch: HS21100807-01 HS21100807-02 HS21100807-03 HS21100807-04

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393566 (0) **Instrument:** UV-2450 **Method:** FERROUS IRON BY SM3500 FE B

MBLK	Sample ID: MBLK-R393566	Units: mg/L			Analysis Date: 16-Oct-2021 12:30				
Client ID:	Run ID: UV-2450_393566	SeqNo: 6322634		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron U 0.0500 80 - 120

LCS	Sample ID: LCS-R393566	Units: mg/L			Analysis Date: 16-Oct-2021 12:30				
Client ID:	Run ID: UV-2450_393566	SeqNo: 6322633		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.25 0.0500 0.25 0 100 80 - 120

MS	Sample ID: HS21100884-06MS	Units: mg/L			Analysis Date: 16-Oct-2021 12:30				
Client ID:	Run ID: UV-2450_393566	SeqNo: 6322636		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.246 0.0500 0.25 0.009 94.8 75 - 125

MSD	Sample ID: HS21100884-06MSD	Units: mg/L			Analysis Date: 16-Oct-2021 12:30				
Client ID:	Run ID: UV-2450_393566	SeqNo: 6322635		PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.245 0.0500 0.25 0.009 94.4 75 - 125 0.246 0.407 20

The following samples were analyzed in this batch: HS21100807-08 HS21100807-09 HS21100807-10

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393664 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 15-Oct-2021 14:00					
Client ID:		Run ID: ICS-Integrion_393664		SeqNo: 6324764		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	U	0.500								
Fluoride	U	0.100								
Nitrogen, Nitrate (As N)	U	0.100								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 15-Oct-2021 14:08					
Client ID:		Run ID: ICS-Integrion_393664		SeqNo: 6324765		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	19.88	0.500	20	0	99.4	90 - 110				
Fluoride	4.254	0.100	4	0	106	90 - 110				
Nitrogen, Nitrate (As N)	3.919	0.100	4	0	98.0	90 - 110				
MS	Sample ID: HS21100884-04MS	Units: mg/L			Analysis Date: 15-Oct-2021 15:37					
Client ID:		Run ID: ICS-Integrion_393664		SeqNo: 6324772		PrepDate:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	41.08	1.00	20	21.49	98.0	80 - 120				
Fluoride	4.591	0.200	4	0.4108	105	80 - 120				
Nitrogen, Nitrate (As N)	4.104	0.200	4	0.2074	97.4	80 - 120				
MS	Sample ID: HS21100876-02MS	Units: mg/L			Analysis Date: 15-Oct-2021 20:41					
Client ID:		Run ID: ICS-Integrion_393664		SeqNo: 6324795		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	104.2	0.500	10	96.76	74.4	80 - 120			SEO	
Fluoride	2.881	0.100	2	0.9764	95.2	80 - 120				
Nitrogen, Nitrate (As N)	1.913	0.100	2	0.0184	94.7	80 - 120				

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393664 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MSD		Sample ID: HS21100884-04MSD		Units: mg/L		Analysis Date: 15-Oct-2021 15:44				
Client ID:		Run ID: ICS-Integrion_393664		SeqNo: 6324773		PrepDate:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	40.92	1.00	20	21.49	97.2	80 - 120	41.08	0.4	20	
Fluoride	4.541	0.200	4	0.4108	103	80 - 120	4.591	1.1	20	
Nitrogen, Nitrate (As N)	4.101	0.200	4	0.2074	97.3	80 - 120	4.104	0.0731	20	

MSD		Sample ID: HS21100876-02MSD		Units: mg/L		Analysis Date: 15-Oct-2021 20:49				
Client ID:		Run ID: ICS-Integrion_393664		SeqNo: 6324796		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	106.8	0.500	10	96.76	101	80 - 120	104.2	2.51	20	EO
Fluoride	2.951	0.100	2	0.9764	98.7	80 - 120	2.881	2.42	20	
Nitrogen, Nitrate (As N)	1.962	0.100	2	0.0184	97.2	80 - 120	1.913	2.52	20	

The following samples were analyzed in this batch: HS21100807-05 HS21100807-06 HS21100807-07

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393740 (0) **Instrument:** UV-2450 **Method:** FERROUS IRON BY SM3500 FE B

MBLK	Sample ID: MBLK-R393740	Units: mg/L			Analysis Date: 15-Oct-2021 15:29				
Client ID:	Run ID: UV-2450_393740	SeqNo: 6326907		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron U 0.0500 80 - 120

LCS	Sample ID: LCS-R393740	Units: mg/L			Analysis Date: 15-Oct-2021 15:29				
Client ID:	Run ID: UV-2450_393740	SeqNo: 6326906		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.238 0.0500 0.25 0 95.2 80 - 120

MS	Sample ID: HS21100884-03MS	Units: mg/L			Analysis Date: 15-Oct-2021 15:29				
Client ID:	Run ID: UV-2450_393740	SeqNo: 6326909		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.524 0.0500 0.25 0.284 96.0 75 - 125

MSD	Sample ID: HS21100884-03MSD	Units: mg/L			Analysis Date: 15-Oct-2021 15:29				
Client ID:	Run ID: UV-2450_393740	SeqNo: 6326908		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ferrous Iron 0.519 0.0500 0.25 0.284 94.0 75 - 125 0.524 0.959 20

The following samples were analyzed in this batch: HS21100807-05 HS21100807-06 HS21100807-07

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393819 (0) **Instrument:** WetChem_HS **Method:** SULFIDE BY SM4500 S2-F-2011

MBLK Sample ID: **MBLK-R393819** Units: **mg/L** Analysis Date: **20-Oct-2021 12:50**
 Client ID: Run ID: **WetChem_HS_393819** SeqNo: **6328708** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide U 1.00

LCS Sample ID: **LCS-R393819** Units: **mg/L** Analysis Date: **20-Oct-2021 12:50**
 Client ID: Run ID: **WetChem_HS_393819** SeqNo: **6328707** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 22.08 1.00 25 0 88.3 85 - 115

LCSD Sample ID: **LCSD-R393819** Units: **mg/L** Analysis Date: **20-Oct-2021 12:50**
 Client ID: Run ID: **WetChem_HS_393819** SeqNo: **6328706** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 22.28 1.00 25 0 89.1 85 - 115 22.08 0.902 20

MS Sample ID: **HS21100727-01MS** Units: **mg/L** Analysis Date: **20-Oct-2021 12:50**
 Client ID: Run ID: **WetChem_HS_393819** SeqNo: **6328709** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Sulfide 22.68 1.00 25 -0.92 94.4 80 - 120

The following samples were analyzed in this batch: HS21100807-01 HS21100807-02 HS21100807-03 HS21100807-04

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393899 (0)	Instrument: UV-2450	Method: FERROUS IRON BY SM3500 FE B
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MBLK	Sample ID: MBLK-R393899	Units: mg/L	Analysis Date: 14-Oct-2021 20:47							
Client ID:	Run ID: UV-2450_393899	SeqNo: 6330752	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Ferrous Iron U 0.0500 80 - 120

LCS	Sample ID: LCS-R393899	Units: mg/L	Analysis Date: 14-Oct-2021 20:47							
Client ID:	Run ID: UV-2450_393899	SeqNo: 6330751	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Ferrous Iron 0.238 0.0500 0.25 0 95.2 80 - 120

MS	Sample ID: HS21100807-01MS	Units: mg/L	Analysis Date: 14-Oct-2021 20:47							
Client ID: CM-4A	Run ID: UV-2450_393899	SeqNo: 6330754	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Ferrous Iron 0.798 0.0500 0.25 0.544 102 75 - 125

MSD	Sample ID: HS21100807-01MSD	Units: mg/L	Analysis Date: 14-Oct-2021 20:47							
Client ID: CM-4A	Run ID: UV-2450_393899	SeqNo: 6330753	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Ferrous Iron 0.784 0.0500 0.25 0.544 96.0 75 - 125 0.798 1.77 20

The following samples were analyzed in this batch: HS21100807-01 HS21100807-02 HS21100807-03 HS21100807-04

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393922 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK	Sample ID: WBLK-102021	Units: mg/L			Analysis Date: 20-Oct-2021 20:00					
Client ID:	Run ID: Balance1_393922	SeqNo: 6331367	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) U 10.0

LCS	Sample ID: WLCS-102021	Units: mg/L			Analysis Date: 20-Oct-2021 20:00					
Client ID:	Run ID: Balance1_393922	SeqNo: 6331368	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 924 10.0 1000 0 92.4 85 - 115

DUP	Sample ID: HS21100884-04DUP	Units: mg/L			Analysis Date: 20-Oct-2021 20:00					
Client ID:	Run ID: Balance1_393922	SeqNo: 6331364	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 2682 10.0 2656 0.974 5

DUP	Sample ID: HS21100781-01DUP	Units: mg/L			Analysis Date: 20-Oct-2021 20:00					
Client ID:	Run ID: Balance1_393922	SeqNo: 6331347	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 716 10.0 726 1.39 5

The following samples were analyzed in this batch:

HS21100807-05	HS21100807-06	HS21100807-07	HS21100807-08
HS21100807-09			

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393933 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK	Sample ID: WBLK-102021	Units: mg/L			Analysis Date: 20-Oct-2021 15:35					
Client ID:	Run ID: Balance1_393933	SeqNo: 6331533	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) U 10.0

LCS	Sample ID: WLCS-102021	Units: mg/L			Analysis Date: 20-Oct-2021 15:35					
Client ID:	Run ID: Balance1_393933	SeqNo: 6331534	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 932 10.0 1000 0 93.2 85 - 115

DUP	Sample ID: HS21100833-02DUP	Units: mg/L			Analysis Date: 20-Oct-2021 15:35					
Client ID:	Run ID: Balance1_393933	SeqNo: 6331521	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 1258 10.0 1240 1.44 5

DUP	Sample ID: HS21100748-01DUP	Units: mg/L			Analysis Date: 20-Oct-2021 15:35					
Client ID:	Run ID: Balance1_393933	SeqNo: 6331512	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 1370 10.0 1364 0.439 5

The following samples were analyzed in this batch: HS21100807-01 HS21100807-02 HS21100807-03 HS21100807-04

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393972 (0) **Instrument:** ManTech01 **Method:** ALKALINITY BY SM 2320B-2011

MBLK		Sample ID: WBLKW2-211021		Units: mg/L		Analysis Date: 21-Oct-2021 23:05			
Client ID:		Run ID: ManTech01_393972		SeqNo: 6332728		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00							
Alkalinity, Carbonate (As CaCO3)	U	5.00							
Alkalinity, Hydroxide (As CaCO3)	U	5.00							
Alkalinity, Total (As CaCO3)	U	5.00							

LCS		Sample ID: WLCS2-211021		Units: mg/L		Analysis Date: 21-Oct-2021 22:32			
Client ID:		Run ID: ManTech01_393972		SeqNo: 6332724		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Alkalinity, Carbonate (As CaCO3)	994.3	5.00	1000	0	99.4	85 - 115			
Alkalinity, Total (As CaCO3)	1014	5.00	1000	0	101	85 - 115			

LCS D		Sample ID: WLCSD2-211021		Units: mg/L		Analysis Date: 21-Oct-2021 22:41			
Client ID:		Run ID: ManTech01_393972		SeqNo: 6332725		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Alkalinity, Carbonate (As CaCO3)	1007	5.00	1000	0	101	85 - 115	994.3	1.24	20
Alkalinity, Total (As CaCO3)	1013	5.00	1000	0	101	85 - 115	1014	0.0878	20

DUP		Sample ID: HS21100884-02DUP		Units: mg/L		Analysis Date: 21-Oct-2021 23:18			
Client ID:		Run ID: ManTech01_393972		SeqNo: 6332730		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Alkalinity, Bicarbonate (As CaCO3)	350.4	5.00					347.6	0.785	20
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20
Alkalinity, Hydroxide (As CaCO3)	U	5.00					0	0	20
Alkalinity, Total (As CaCO3)	350.4	5.00					347.6	0.785	20

The following samples were analyzed in this batch:

HS21100807-05	HS21100807-06	HS21100807-07	HS21100807-08
HS21100807-09	HS21100807-10		

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R393988 (0)	Instrument: WetChem_HS	Method: SULFIDE BY SM4500 S2-F-2011
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MBLK	Sample ID: MBLK-R393988	Units: mg/L	Analysis Date: 21-Oct-2021 16:45							
Client ID:	Run ID: WetChem_HS_393988	SeqNo: 6333104	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide U 1.00

LCS	Sample ID: LCS-R393988	Units: mg/L	Analysis Date: 21-Oct-2021 16:45							
Client ID:	Run ID: WetChem_HS_393988	SeqNo: 6333103	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 22.12 1.00 25 0 88.5 85 - 115

LCSD	Sample ID: LCSD-R393988	Units: mg/L	Analysis Date: 21-Oct-2021 16:45							
Client ID:	Run ID: WetChem_HS_393988	SeqNo: 6333102	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 22.32 1.00 25 0 89.3 85 - 115 22.12 0.9 20

MS	Sample ID: HS21101110-01MS	Units: mg/L	Analysis Date: 21-Oct-2021 16:45							
Client ID:	Run ID: WetChem_HS_393988	SeqNo: 6333105	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 21.72 1.00 25 -1.48 92.8 80 - 120

The following samples were analyzed in this batch:	HS21100807-05	HS21100807-06	HS21100807-07	HS21100807-08
	HS21100807-09	HS21100807-10		

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R394028 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK	Sample ID: WBLK-102121	Units: mg/L			Analysis Date: 21-Oct-2021 15:00					
Client ID:	Run ID: Balance1_394028	SeqNo: 6333952	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) U 10.0

LCS	Sample ID: WLCS-102121	Units: mg/L			Analysis Date: 21-Oct-2021 15:00					
Client ID:	Run ID: Balance1_394028	SeqNo: 6333953	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 964 10.0 1000 0 96.4 85 - 115

DUP	Sample ID: HS21100945-05DUP	Units: mg/L			Analysis Date: 21-Oct-2021 15:00					
Client ID:	Run ID: Balance1_394028	SeqNo: 6333945	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 1714 10.0 1712 0.117 5

DUP	Sample ID: HS21100884-07DUP	Units: mg/L			Analysis Date: 21-Oct-2021 15:00					
Client ID:	Run ID: Balance1_394028	SeqNo: 6333933	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 1292 10.0 1294 0.155 5

The following samples were analyzed in this batch: HS21100807-10

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R394287 (0)	Instrument: WetChem_HS	Method: PH BY SM4500H+ B-2011
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DUP	Sample ID: HS21100804-07DUP	Units: pH Units	Analysis Date: 27-Oct-2021 12:00							
Client ID:	Run ID: WetChem_HS_394287	SeqNo: 6340501	PrepDate:							
			DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	7.15	0.100					7.17	0.279	10	
Temp Deg C @pH	22.7	0					22.7	0	10	

The following samples were analyzed in this batch:

HS21100807-01	HS21100807-02	HS21100807-03	HS21100807-04
HS21100807-05	HS21100807-06	HS21100807-07	HS21100807-08
HS21100807-09	HS21100807-10		

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R394412 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MBLK		Sample ID: MBLK		Units: mg/L		Analysis Date: 16-Oct-2021 11:46			
Client ID:		Run ID: ICS-Integrion_394412		SeqNo: 6343271		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	U	0.500							
Fluoride	U	0.100							
Nitrogen, Nitrate (As N)	U	0.100							

LCS		Sample ID: LCS		Units: mg/L		Analysis Date: 16-Oct-2021 11:53			
Client ID:		Run ID: ICS-Integrion_394412		SeqNo: 6343272		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	18.3	0.500	20	0	91.5	90 - 110			
Fluoride	3.861	0.100	4	0	96.5	90 - 110			
Nitrogen, Nitrate (As N)	3.604	0.100	4	0	90.1	90 - 110			

MS		Sample ID: HS21100884-07MS		Units: mg/L		Analysis Date: 16-Oct-2021 13:48			
Client ID:		Run ID: ICS-Integrion_394412		SeqNo: 6343279		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	26.48	0.500	10	16.77	97.1	80 - 120			
Fluoride	2.798	0.100	2	0.7461	103	80 - 120			
Nitrogen, Nitrate (As N)	2.155	0.100	2	0.094	103	80 - 120			

MS		Sample ID: HS21100884-06MS		Units: mg/L		Analysis Date: 16-Oct-2021 13:26			
Client ID:		Run ID: ICS-Integrion_394412		SeqNo: 6343276		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	35.63	0.500	10	26.4	92.3	80 - 120			
Fluoride	3.668	0.100	2	1.568	105	80 - 120			
Nitrogen, Nitrate (As N)	2.146	0.100	2	0.0984	102	80 - 120			

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R394412 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MSD		Sample ID: HS21100884-07MSD		Units: mg/L		Analysis Date: 16-Oct-2021 13:55			
Client ID:		Run ID: ICS-Integrion_394412		SeqNo: 6343280		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	26.1	0.500	10	16.77	93.4	80 - 120	26.48	1.43	20
Fluoride	2.744	0.100	2	0.7461	99.9	80 - 120	2.798	1.96	20
Nitrogen, Nitrate (As N)	2.126	0.100	2	0.094	102	80 - 120	2.155	1.33	20

MSD		Sample ID: HS21100884-06MSD		Units: mg/L		Analysis Date: 16-Oct-2021 13:33			
Client ID:		Run ID: ICS-Integrion_394412		SeqNo: 6343277		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	35.38	0.500	10	26.4	89.8	80 - 120	35.63	0.684	20
Fluoride	3.609	0.100	2	1.568	102	80 - 120	3.668	1.61	20
Nitrogen, Nitrate (As N)	2.13	0.100	2	0.0984	102	80 - 120	2.146	0.762	20

The following samples were analyzed in this batch: HS21100807-08 HS21100807-09 HS21100807-10

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R394420 (0) **Instrument:** WetChem_HS **Method:** SPECIFIC CONDUCTANCE BY SM 2510B-2011

MBLK Sample ID: **MBLK-R394420** Units: **umhos/cm @ 25.0 °C** Analysis Date: **28-Oct-2021 14:05**
 Client ID: Run ID: **WetChem_HS_394420** SeqNo: **6343490** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Specific Conductivity U 5.00

LCS Sample ID: **LCS-R394420** Units: **umhos/cm @ 25.0 °C** Analysis Date: **28-Oct-2021 14:05**
 Client ID: Run ID: **WetChem_HS_394420** SeqNo: **6343489** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Specific Conductivity 1398 5.00 1413 0 98.9 80 - 120

DUP Sample ID: **HS21100807-10DUP** Units: **umhos/cm @ 25.0 °C** Analysis Date: **28-Oct-2021 14:05**
 Client ID: **CM-2** Run ID: **WetChem_HS_394420** SeqNo: **6343491** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Specific Conductivity 2492 5.00 2496 0.16 20

The following samples were analyzed in this batch: HS21100807-01 HS21100807-02 HS21100807-03 HS21100807-04
 HS21100807-05 HS21100807-06 HS21100807-07 HS21100807-08
 HS21100807-09 HS21100807-10

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R394434 (0)	Instrument: UV-2450	Method: FERROUS IRON BY SM3500 FE D (DISSOLVED)								
MBLK	Sample ID: MBLK-R394434	Units: mg/L	Analysis Date: 27-Oct-2021 20:36							
Client ID:	Run ID: UV-2450_394434	SeqNo: 6343864	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Ferrous Iron, Dissolved U 0.0500

LCS	Sample ID: LCS-R394434	Units: mg/L	Analysis Date: 27-Oct-2021 20:36							
Client ID:	Run ID: UV-2450_394434	SeqNo: 6343863	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Ferrous Iron, Dissolved 0.247 0.0500 0.25 0 98.8 80 - 120

MS	Sample ID: HS21100807-03MS	Units: mg/L	Analysis Date: 27-Oct-2021 20:36							
Client ID: CM-5A	Run ID: UV-2450_394434	SeqNo: 6343854	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Ferrous Iron, Dissolved 0.25 0.0500 0.25 -0.001 100 80 - 120

MSD	Sample ID: HS21100807-03MSD	Units: mg/L	Analysis Date: 27-Oct-2021 20:36							
Client ID: CM-5A	Run ID: UV-2450_394434	SeqNo: 6343853	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Ferrous Iron, Dissolved 0.242 0.0500 0.25 -0.001 97.2 80 - 120 0.25 3.25 20

The following samples were analyzed in this batch:

HS21100807-01	HS21100807-02	HS21100807-03	HS21100807-04
HS21100807-05	HS21100807-06	HS21100807-07	HS21100807-08
HS21100807-09	HS21100807-10		

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

QC BATCH REPORT

Batch ID: R394568 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 29-Oct-2021 14:07					
Client ID:		Run ID: ICS-Integrion_394568	SeqNo: 6346930	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	U	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 29-Oct-2021 14:14					
Client ID:		Run ID: ICS-Integrion_394568	SeqNo: 6346931	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	18.72	0.500	20	0	93.6	90 - 110				
MS	Sample ID: HS21101156-08MS	Units: mg/L			Analysis Date: 29-Oct-2021 17:42					
Client ID:		Run ID: ICS-Integrion_394568	SeqNo: 6346957	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	32	0.500	10	23.08	89.2	80 - 120				
MS	Sample ID: HS21100769-01MS	Units: mg/L			Analysis Date: 29-Oct-2021 16:13					
Client ID:		Run ID: ICS-Integrion_394568	SeqNo: 6346945	PrepDate:	DF: 20					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	1958	10.0	400	1658	75.0	80 - 120			SO	
MSD	Sample ID: HS21101156-08MSD	Units: mg/L			Analysis Date: 29-Oct-2021 17:49					
Client ID:		Run ID: ICS-Integrion_394568	SeqNo: 6346958	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	31.83	0.500	10	23.08	87.5	80 - 120	32	0.543	20	
MSD	Sample ID: HS21100769-01MSD	Units: mg/L			Analysis Date: 29-Oct-2021 16:20					
Client ID:		Run ID: ICS-Integrion_394568	SeqNo: 6346946	PrepDate:	DF: 20					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	1912	10.0	400	1658	63.6	80 - 120	1958	2.37	20 SO	

The following samples were analyzed in this batch:

HS21100807-01	HS21100807-02	HS21100807-03	HS21100807-04
HS21100807-05	HS21100807-06	HS21100807-07	HS21100807-08
HS21100807-09	HS21100807-10		

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS21100807

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	21-022-0	26-Mar-2022
Dept of Defense	PJLA L20-507-R2	22-Dec-2021
Florida	E87611-33	30-Jun-2022
Illinois	2000322021-7	09-May-2022
Kansas	E-10352 2021-2022	31-Jul-2022
Kentucky	123043, 2021-2022	30-Apr-2022
Louisiana	03087, 2021-2022	30-Jun-2022
North Carolina	624-2021	31-Dec-2021
Texas	T104704231-21-28	30-Apr-2022

Client: Altamira
Project: WFEC / MNA Program
Work Order: HS21100807

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS21100807-01	CM-4A	Login	10/14/2021 5:04:05 PM	JRM	MET014
HS21100807-01	CM-4A	Login	10/14/2021 5:04:05 PM	JRM	WET220

Sample Receipt Checklist

Work Order ID: HS21100807

Date/Time Received: 14-Oct-2021 10:00

Client Name: Enviro Clean Services-Tulsa

Received by: Jared R. Makan

Completed By: /S/ Jared R. Makan	14-Oct-2021 16:29	Reviewed by: /S/ Ragen Giga	15-Oct-2021 20:04
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Water**

Carrier name: **FedEx Priority Overnight**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	1.4°C UC/C	IR31
Cooler(s)/Kit(s):	47550	
Date/Time sample(s) sent to storage:	10/14/2021 16:30	

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Sample Receipt Checklist

Work Order ID: HS21100807

Date/Time Received: 14-Oct-2021 10:00

Client Name: Enviro Clean Services-Tulsa

Received by: Jared R. Makan

Completed By: /S/ Jared R. Makan 15-Oct-2021 13:28 eSignature Date/Time
Reviewed by: /S/ Ragen Giga 18-Oct-2021 15:18 eSignature Date/Time

Matrices: Water

Carrier name: FedEx Priority Overnight

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Samplers name present on COC? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

Temperature(s)/Thermometer(s): 0.8°C, 1.1°C UC/C IR31
Cooler(s)/Kit(s): 47345, 46495
Date/Time sample(s) sent to storage: 10/15/2021 13:30

- Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [checked] No [] N/A []
pH adjusted? Yes [] No [checked] N/A []

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Sample Receipt Checklist

Work Order ID: HS21100807

Date/Time Received: 14-Oct-2021 10:00

Client Name: Enviro Clean Services-Tulsa

Received by: Jared R. Makan

Completed By: /S/ Jared R. Makan 16-Oct-2021 10:16 eSignature Date/Time
Reviewed by: /S/ Ragen Giga 18-Oct-2021 15:19 eSignature Date/Time

Matrices: Water

Carrier name: FedEx Priority Overnight

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Samplers name present on COC? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

Temperature(s)/Thermometer(s): 1.5°C, 1.2°C UC/C IR31
Cooler(s)/Kit(s): 46825, 45672
Date/Time sample(s) sent to storage: 10/16/2021 10:20
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [checked] No [] N/A []
pH adjusted? Yes [] No [checked] N/A []
pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

CHAIN OF CUSTODY RECORD



PROJECT NUMBER:
WFEE160021/2003

PROJECT NAME: (All wells on same no)
WFEC / MNA PROGRAM
COC: 1 of X

CLIENT CONTACT:
HEATHER TIFFANY

CLIENT EMAIL:
HEATHER.TIFFANY@ALTAMIRA-LABDATA-US.COM
CLIENT PHONE:
405-618-2021

LABORATORY / LAB PM:
AIG / RAGEN GIGA

CLIENT ADDRESS:
525 CENTRAL PARK DR. #500
OKC, OK 73105

TAT: STND

LAB ADDRESS:
10450 STANCLIFF RD
STE 210
HOUSTON, TX 77099

SPECIAL INSTRUCTIONS:
* SHOOT HOLD *

SHIPMENT METHOD:
FEDEX
TRACKING:

PARAMETERS

NO.	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PRES.	NUMBER OF CONTAINERS	FIELD FILTERED (YES / NO)	APPENDIX A	N03 AS N *	SPEC. COND.	Fe & Mo, TOTAL	Fe, FERROUS *	Fe, FERRIC *	DISSOLVED FERROUS Fe	DISSOLVED Fe, Mo FERRIC Fe	K, Mg, Na	SULFIDE	HC03, CO3, TOTAL & HYDROXIDE AUK	HOLD
1	CU-1A			W	1,2,4,9	5	N	X	X	X	X	X	X	X	X	X	X	X	
2	CU-1B							X	X	X	X	X	X	X	X	X	X	X	
3	CU-2							X	X	X	X	X	X	X	X	X	X	X	
4	CU-3A							X	X	X	X	X	X	X	X	X	X	X	
5	CU-3B							X	X	X	X	X	X	X	X	X	X	X	
6	CU-4A	10/13/21	1230					X	X	X	X	X	X	X	X	X	X	X	
7	CU-4B	10/13/21	1200					X	X	X	X	X	X	X	X	X	X	X	
8	CU-5A	10/13/21	1125					X	X	X	X	X	X	X	X	X	X	X	
9	CU-5B	10/13/21	1100					X	X	X	X	X	X	X	X	X	X	X	
10	CU-15B							X	X	X	X	X	X	X	X	X	X	X	
11	CU-22B							X	X	X	X	X	X	X	X	X	X	X	
12	Temp Blank							X	X	X	X	X	X	X	X	X	X	X	
13																			
14																			
15																			

SAMPLER(S) NAME: *Buddy Well* DATE: 10/13/21
 TIME: 1300
 Total # of Containers:
 SAMPLER(S) SIGNATURE: *Buddy Well* DATE: 10/13/21
 TIME: 1300

RELINQUISHED BY: *Bradley Van Cleave* DATE: 10/13/21
 TIME: 1300
 RECEIVED BY: *J. W. ...* DATE: 10/14/21
 TIME: 10:50
 LOGGED BY:

PRESERVATION KEY: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7- 4 Degrees C 8-9035 9-Other
 POINT OF ORIGIN: Norman Oklahoma City Tulsa Yukon Midland

HS21100807
 Altamira
 WFEC / MNA Program



ALTAMIRA-US, LLC



PROJECT NUMBER:
WFEE160021/2003

PROJECT NAME: (All wells on same WD)
WFEC/MNA PROGRAM
COC: 2 of X

CLIENT CONTACT:
HEATHER TIFFANY

CLIENT EMAIL:
HEATHER.TIFFANY@ALTAMIRA-LABDATA-US.COM
CLIENT PHONE:
405-618-2021

LABORATORY / LAB PM:
ALS/RAGEN GIGA

CLIENT ADDRESS:
525 CENTRAL PARK DR #500
OKC, OK 73105

TAT: STND

LAB ADDRESS:
10400 STANCLIFF RD #210
HOUSTON, TX 77099

SPECIAL INSTRUCTIONS:
* Smart Hold *

SHIPMENT METHOD:
FED EX

TRACKING:

NO.	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PRES.	NUMBER OF CONTAINERS	FIELD FILTERED (YES / NO)	PARAMETERS												D10H
								APPENDIX A	NO3 AS N *	SPEC COND.	Fe & Mo, TOTAL	Fe, FERRIC *	DISSOLVED Fe, Mo, FERRIC *	DISSOLVED Fe, Mo, FERRIC Fe	K, Mg, Na	SULFIDE	HCO3, CO3, TOTAL	HYDROXIDE ALK		
1	CM-1A			W	1,2,4,9	5	N	X	X	X	X	X	X	X	X	X	X	X	X	
2	CM-1B							X	X	X	X	X	X	X	X	X	X	X	X	
3	CM-2							X	X	X	X	X	X	X	X	X	X	X	X	
4	CM-3A	10/14/21	1030				Y	X	X	X	X	X	X	X	X	X	X	X	X	
5	CM-3B							X	X	X	X	X	X	X	X	X	X	X	X	
6	CM-4A							X	X	X	X	X	X	X	X	X	X	X	X	
7	CM-4B							X	X	X	X	X	X	X	X	X	X	X	X	
8	CM-5A							X	X	X	X	X	X	X	X	X	X	X	X	
9	CM-5B							X	X	X	X	X	X	X	X	X	X	X	X	
10	MWCA-15B	10/14/21	1140				Y	X	X	X	X	X	X	X	X	X	X	X	X	
11	MWCA-22B	10/14/21	1115				W	X	X	X	X	X	X	X	X	X	X	X	X	
12	Temp Blank			W		1														
13																				
14																				
15																				





Altamira
WFEC / MNA Program
HS21100807

SAMPLER(S) NAME: Bradley VanCleave
DATE: 10/14/21
TIME: 1400
Total # of Containers:
SAMPLER(S) SIGNATURE:
DATE: 10/14/21
TIME: 1400


RELINQUISHED BY: Bradley VanCleave
DATE: 10/14/21
TIME: 1400
RECEIVED BY: J. Norman
DATE: 10/15/21
TIME: 10:20
LOGGED BY:
DATE:
TIME:
COOLER TEMP:

PRESERVATION KEY: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-4 Degrees C 8-9035 9-Other:
POINT OF ORIGIN: Norman Oklahoma City Tulsa Yukon Midland Other:

 ALS 10450 Stancilff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 10/12/12	Time: 1400	Date:
	Name:		Date:
	Company: #Hennings		

 ALS 10450 Stancilff Rd. Suite 210 Houston, Texas 77499 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 10/13/12	Time: 1400	Date:
	Name:		Date:
	Company: #Hennings		

47550
 -> shipping tag
 to west re
 storage

 ALS 10450 Stancliff Blvd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5616 Fax. +1 281 530 5887	CUSTOMER		CUSTOMER SEAL	Seal Broken By:
	Date: 10/15/21	Name:	Time: 1930	JM
	Name:	Company:		Date: 10/16/21
	Company:			

FedEx
 TRK# 5300 5222 9763
 0221

SATURDAY 12:00P
 PRIORITY OVERNIGHT


XO SGRA

77099

TX- US IAH



427771 10/15 56DJ3/14BR/FE4R

 ALS 10450 Stancliff Blvd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5616 Fax. +1 281 530 5887	Date:
	Name:
	Company:

CUSTOMER SEAL		Seal Broken By:
Date: 10/15/21	Time: 1930	JM
Name:		Date: 10/16/21
Company:		

ALS
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

CU
 Date: 10/15/21
 Name:
 Compa:

STUDY SEAL
 Time: 1930

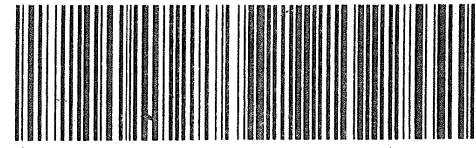
Seal Broken By:
 Jm
 Date: 10/16/21

FedEx
 TRK# 0221 5300 5223 0182

RETURNS MON - SAT
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO SGRA

77099
 TX-US IAH



#4272271 10/15 56DJ3/14BA/FE4R

ALS
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

CUSTODY SEAL
 Date: 10/15/21 Time: 1930
 Name:
 Company:

Seal Broken By:
 Jm
 Date: 10/16/21

ALS
 10450 Stancilff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

CUSTODY SEAL
 Date: 10/16/21 Time:
 Name: [Signature] Company: [Signature]

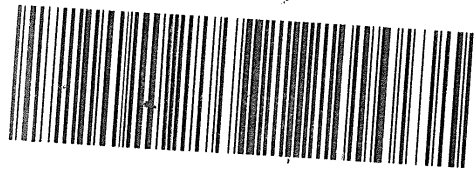
SEAL
 Seal Broken By: JM
 Date: 10/16/21

FedEx
 TRK# 5300 5222 9671
 0221

RETURNS MON-SAT
 SATURDAY 12:00P
 PRIORITY OVERNIGHT

XO SGRA

77099
 TX-US IAH



44277271 10/15 56DJ3/14BR/FE46

ALS
 10450 Stancilff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

CUSTODY SEAL
 Date: 10/18/21 Time: 19:50
 Name: [Signature] Company: [Signature]

Seal Broken By: JM
 Date: 10/16/21



ALS
 10450 Stanciff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5696
 Fax. +1 281 530 5887

C/S
 Date: 10/17/21
 Name:
 Company:

TODY SEAL

Time: 1400

Seal Broken By:

SM

Date:

10/18/20

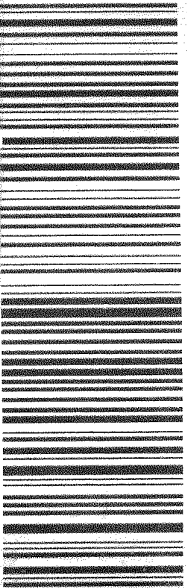


TRK# 5300 5222 9730
 02221

FRI - 15 OCT AA
PRIORITY OVERNIGHT

AB SGRA

77099
 TX-US
IAH



596739 14012901 3 1 50602 / 9778 / 1023



ALS
 10450 Stanciff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5696
 Fax. +1 281 530 5887

Date:
 Name:
 Company:

CUSTODY SEAL

Time: 1400

Seal Broken By:

SM

Date:

10/18/20

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY
Date: 10/14/21 Time:
Name:
Company:

SEAL
Seal Broken By:
Date: 10/15/21

FRK# 5300 5222 9741
AB SGRA
77099 TX-US IAH
FRI - 15 OCT AA
PRIORITY OVERNIGHT
586758 140c1282L SA IA 55062/0776/1023

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 10/14/21 Time: 1400
Name:
Company:

Seal Broken By:
Date: 10/15/21



ALS
 10450 Stanciliff Rd., Suite 210
 Houston, Texas 77063
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

Date: 10/15/21
 Name: TX-ALS
 Company: CU

STODY SEAL

Time: 14:00

Seal Broken By: Jm
 Date: 10/15/21

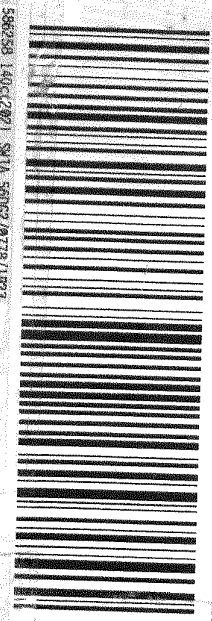


TIME 5300 5222 9719
 0771

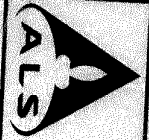
FRI - 15 OCT AA
PRIORITY OVERNIGHT

AB SGRA

77099
 TX-ALS
 IAH



584258 140C7/071 SM7A 586G2/0778/1023



ALS
 10450 Stanciliff Rd., Suite 210
 Houston, Texas 77063
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

CUSTODY SEAL

Date: 10/15/21
 Name: Jm
 Company:

Seal Broken By: Jm
 Date: 10/15/21

ATTACHMENT C

TABULATION OF DATA

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING	
		MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
		14-Aug-17	22-May-18	1-Aug-18	10-Aug-18	2-Oct-18	10-Jan-19	23-Apr-19	2-Oct-19	18-Jun-20	12-Oct-20	1-Apr-21	14-Oct-21
Total Alkalinity as CaCO3	mg/L	418	---	---	---	---	---	---	---	412	444	405	470
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	---	---	---	15	20.5	<5	9.52
Bicarbonate Alkalinity as CaCO3	mg/L	418	---	---	---	---	---	---	---	397	424	405	460
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	---	---	---	<5.00	<5.00	<5	<5.00
Boron	mg/L	1.29	1.05	1.06	3.09	2.82	2.73	1.87	2.49	0.811	2.57	2.04	1.82
Calcium	mg/L	46.6	74.7	59.1	24.9 J	25	27.7	57	22.5	68.2	19.6	33.4	21.0
Chloride	mg/L	18.7	25	18.7	26.1	28.3	30.5	21.8	25.1	19.5	25.6	23.9	26.4
Dissolved Oxygen (field)	mg/L	0.05	0.13	5.05	1.37	0.21	0.63	0.85	0.45	1.89	0.32	0.81	0.36
Fluoride	mg/L	1.17	1.38	1.02	1.5	1.54	1.54	1.11	1.54	0.824	1.51	1.24	1.57
Iron, Total	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	0.0170 J	0.0270 J
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.020	0.0270 J
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.020	<0.0200
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0290 J	<0.0200	<0.020	<0.0200
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.020	<0.0200 H
Magnesium	mg/L	5.19	---	---	---	---	5.73	---	---	5.16	4.38	4.53	4.60
Molybdenum, Total	mg/L	0.00737	---	0.00497	0.00387	<0.005	0.00512	0.00485 J	0.00315 J	0.00361 J	0.00244 J	0.00234 J	0.00387 J
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.00335 J	---	---	0.00308 J	0.00244 J	0.00287 J	0.00296 J
Nitrate as N	mg/L	---	---	---	---	0.089 J	0.964	0.665	0.212	<0.0300	<0.0300	0.631	0.0984 J
Oxidation-Reduction Potential (field)	mV	21.5	-104.7	142.8	-40.1	-125.1	-30.9	19.7	-54.1	-48.2	168.1	283.3	-59.9
pH (laboratory)	S.U.	7.5	7.6	7.7	8	8.7	7.65	8.11	7.55	7.65	8.21	7.9	8.16
pH (field)	S.U.	7.79	7.85	7.19	7.62	7.61	7.56	7.95	7.91	7.9	7.83	7.74	7.85
Potassium	mg/L	4.14	---	---	---	---	4.49	---	---	3.48	3.94	3.25	3.96
Sodium	mg/L	307	---	---	---	---	405	---	---	277	335	312	243
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	1730	1870	---	---	---	1960	1770	1820
Specific Conductance (field)	umhos/cm	1760	1516	1516	1843	1871	1791	1669	1826	1665	1794	1745	1863
Sulfate	mg/L	301	369	294	384	447	457	394	434	408	485	477	499
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00	<1.00
Temperature (field)	°C	22.46	20.24	25.07	23.59	25.3	13.4	18.78	25.18	24.37	21.5	14.7	23.7
Total Dissolved Solids	mg/L	980	950	880	1150	1140	1120	1090	1180	904	1080	1140	1140
Turbidity (field)	NTU	1.14	0.41	0.02	1.12	3.3	4.51	1.16	0.94	2.88	1.97	2.85	2.16
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.27	---	---	---	1.97	1.19	1.91

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING	
		MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
		10-Aug-17	17-May-18	3-Aug-18	10-Aug-18	4-Oct-18	10-Jan-19	23-Apr-19	1-Oct-19	17-Jun-20	9-Oct-20	30-Mar-21	15-Oct-21
Total Alkalinity as CaCO3	mg/L	311	---	---	---	---	222	---	---	264	315	180	343
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	311	---	---	---	---	222	---	---	264	315	180	343
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00
Boron	mg/L	2.21	1.25	0.283	3.31	2.7	0.839	0.848	1.99	1.33	2.29	0.677	2.18
Calcium	mg/L	80.6	178	90.3	142	76	277	271	81	160	90.2	254	97.1
Chloride	mg/L	16.2	17.6	16.4	17	16.1	18.7	19.7	16.3	18	16.9	20.5	16.8
Dissolved Oxygen (field)	mg/L	0.08	0.22	1.61	2.95	0.45	0.23	0.84	0.51	0.49	0.33	0.31	0.30
Fluoride	mg/L	0.744	0.509	0.771	0.664	0.764	0.422	0.376	0.729	0.479	0.713	0.444	0.746
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.278	0.111 J	0.0145 J	0.310
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	0.0340 J	0.235	0.0154 J	0.134 J
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	0.103
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	0.134
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.306	0.216	<0.02	0.207
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H
Magnesium	mg/L	10.7	---	---	---	---	19	---	---	17.1	12	16.9	12.2
Molybdenum, Total	mg/L	0.00171 J	---	0.00127 J	<0.001	<0.01	0.00105 J	0.000952 J	0.000798 J	0.00105 J	0.00106 J	0.000755 J	0.00115 J
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.00107 J	---	---	0.000987 J	0.00103 J	0.000846 J	0.00121 J
Nitrate as N	mg/L	---	---	---	---	0.118	0.557	<0.03	<0.03	<0.0300	<0.0300	<0.06	0.0940 J
Oxidation-Reduction Potential (field)	mV	57.6	-58.8	-20.8	-30.7	-129.1	-6.3	-61.6	-133.8	-67.6	-90.1	83.3	-107.8
pH (laboratory)	S.U.	7.4	7.6	7.6	7.7	8	7.34	7.82	7.39	7.55	7.79	7.32	7.84
pH (field)	S.U.	7.22	7.4	6.92	7.22	7.35	7.08	7.42	7.53	7.37	7.52	7.24	7.47
Potassium	mg/L	4.95	---	---	---	---	4.67	---	---	5.33	5.1	4.06	5.14
Sodium	mg/L	273	---	---	---	---	274	---	---	313	272	230	261
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	1610	2240	---	---	---	2110	2380	1860
Specific Conductance (field)	umhos/cm	1680	2101	1822	1932	1887	2180	2326	1944	2097	1945	2377	1973
Sulfate	mg/L	450	860	545	623	1600	1200	1040	633	970	759	1200	690
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	1.48	<1.00	<1.00
Temperature (field)	°C	24.46	19.6	29.34	25.21	25	12.8	17.92	25.27	21.95	23.1	16.8	22.5
Total Dissolved Solids	mg/L	1120	1600	1210	1330	1230	1670	1890	1270	1680	1340	2060	1290
Turbidity (field)	NTU	3.45	2.29	3.37	1.76	8.01	0.67	0.71	0.88	2.49	0.85	5.81	3.15
Filtered Turbidity (field)	NTU	---	---	---	---	---	0.64	---	---	---	0.85	---	1.83

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING	
		MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A	MW-14A
		9-Aug-17	17-May-18	1-Aug-18	9-Aug-18	4-Oct-18	11-Jan-19	24-Apr-19	2-Oct-19	17-Jun-20	8-Oct-20	31-Mar-21	13-Oct-21
Total Alkalinity as CaCO3	mg/L	280	---	---	---	---	---	---	---	327	327	332	348
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	---	---	---	<5.00	<5.00	<5	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	280	---	---	---	---	---	---	---	327	327	332	348
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	---	---	---	<5.00	<5.00	<5	<5.00
Boron	mg/L	0.764	1.14	0.925	1.8	1.18	1.42	1.23	0.98	0.907	0.882	0.839	0.857
Calcium	mg/L	672	313	341	746	319	402	314	306	280	278	298	263
Chloride	mg/L	13.8	15.3	15	16	14.2	14	13.5	14.2	13.3	14.9	14.3	12.8
Dissolved Oxygen (field)	mg/L	0.1	0.24	252	1.65	0.31	0.19	1.45	0.62	0.79	0.59	0.34	0.40
Fluoride	mg/L	0.312	0.292	0.333	0.296	0.281	0.269	0.377 J	0.286	0.23	0.254 J	0.284	0.221
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0771 J	0.236	0.162 J	1.22
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	0.169 J	0.150 J	0.357
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	0.107	0.935
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.116	0.357
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.098	0.184	0.055	0.285
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.034 J	<0.0200 H
Magnesium	mg/L	24.4	---	---	---	---	---	---	---	26.6	26.2	25.9	26.5
Molybdenum, Total	mg/L	0.00223	---	<0.001	<0.01	<0.01	0.00170 J	0.00104 J	0.000709 J	0.000760 J	<0.000600	<0.000600	<0.000600
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.00143 J	---	---	0.000768 J	0.000621 J	0.00165 J	<0.000600
Nitrate as N	mg/L	---	---	---	---	0.087 J	0.478	1.64	<0.03	0.316	<0.150	<0.0600	<0.0600
Oxidation-Reduction Potential (field)	mV	97.7	-48.5	0.2	68.3	13.1	19.5	4.6	27.7	-45.7	107.1	20.5	-128.9
pH (laboratory)	S.U.	6.9	7.4	7.3	7.1	7.6	7.28	7.61	7.18	7.44	7.41	7.7	6.74
pH (field)	S.U.	6.75	7.1	6.82	6.47	6.93	6.9	7.28	7.1	7.04	7.1	7.33	7.00
Potassium	mg/L	7.88	---	---	---	---	8.64	---	---	7.66	7.94	7.87	7.84
Sodium	mg/L	518	---	---	---	---	516	---	---	382	388	413	388
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	3000	3270	---	---	---	3660	3260	3320
Specific Conductance (field)	umhos/cm	3186	3301	3415	3410	3491	3251	3386	3435	3107	3394	4453	2989
Sulfate	mg/L	1420	1790	1580	1600	1650	1660	1540	1580	1650	1770	1680	1690
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00	3.08
Temperature (field)	°C	21.41	22.9	25.6	21.33	23.1	16.2	17.75	24.4	21	23.7	15.84	20.0
Total Dissolved Solids	mg/L	2680	2700	2700	2730	2710	2590	2680	2750	2780	2630	2680	2630
Turbidity (field)	NTU	0.71	0.37	1.53	0.02	3.17	4.89	2.06	3.88	4.71	2.96	3.52	9.38
Filtered Turbidity (field)	NTU	---	---	---	---	---	0.94	---	---	---	2.96	---	2.37

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING	
		MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A
		9-Aug-17	24-May-18	1-Aug-18	10-Aug-18	2-Oct-18	10-Jan-19	25-Apr-19	2-Oct-19	18-Jun-20	8-Oct-20	31-Mar-21	13-Oct-21
Total Alkalinity as CaCO3	mg/L	160	---	---	---	---	149	---	---	209	204	196	226
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	130	---	---	---	---	149	---	---	209	204	196	226
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00
Boron	mg/L	3.38	4.83	3.7	4.14	3.76	3.52	3.61	3.19	4.57	3.33	3.35	2.14
Calcium	mg/L	156	160	93.4	129	170	129	92	82.4	141	89.8	78.6	96.6
Chloride	mg/L	25.7	26.9	26.6	26.5	26.6	26.3	21.9	25.9	26.3	26.5	27.3	25.7
Dissolved Oxygen (field)	mg/L	0.06	0.14	1.62	1.23	0.21	0.41	1.24	0.71	1.39	0.28	4.47	0.38
Fluoride	mg/L	1.37	1.76	1.2	1.17	1.21	1.22	1.02	1.24	0.86	1.14	1.13	1.01
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0535 J	0.0496 J	0.0492 J	0.368
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	0.165 J	0.133 J	0.590
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	0.0840
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.101	0.590
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0410 J	0.0210 J	0.054	0.284
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.032 J	<0.0200 H
Magnesium	mg/L	9.36	---	---	---	---	12.4	---	---	16.5	11	10.9	10.2
Molybdenum, Total	mg/L	0.255	---	0.202	0.182	0.233	0.205	0.219	0.196	0.269	0.167	0.168	0.149
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.244	---	---	0.168	0.153	0.159	0.181
Nitrate as N	mg/L	---	---	---	---	0.068 J	1.42	1.72	0.287	<0.0600	<0.150	1.14	0.0704 J
Oxidation-Reduction Potential (field)	mV	43.1	-101.3	133.1	140.8	-69.9	98	-22.1	-79.5	-50.3	167.2	13.8	-59.9
pH (laboratory)	S.U.	7.5	7.6	7.8	7.8	8.2	7.02	8.02	7.58	7.68	7.77	7.93	7.45
pH (field)	S.U.	7.42	7.72	7.42	7.43	7.53	7.45	7.82	7.71	7.73	7.71	7.82	7.61
Potassium	mg/L	5.28	---	---	---	---	5.98	---	---	8.24	5.15	5.47	4.97
Sodium	mg/L	541	---	---	---	---	746	---	---	1040	627	594	421
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	3490	3540	---	---	---	3780	3400	3370
Specific Conductance (field)	umhos/cm	3524	3505	3548	3578	3563	3449	3544	3575	3337	3422	4645	3431
Sulfate	mg/L	1720	1690	1510	1490	1570	1610	1310	1510	1680	1650	1590	1580
Sulfide	mg/L	---	---	---	---	---	---	---	---	1.12	<1.00	<1.00	<1.00
Temperature (field)	°C	22.68	21.24	25.05	23.28	23.1	18.5	20.72	27.05	24.09	22.2	16.37	22.4
Total Dissolved Solids	mg/L	2710	2660	2490	2610	2650	2590	2570	2500	2520	2460	2420	2370
Turbidity (field)	NTU	1.31	0.39	5.5	1.68	4.11	1.13	0.55	0.84	2.6	1.73	0.88	3.34
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.09	---	---	---	0.61	---	2.23

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING	
		MW-15B	MW-15B	MW-15B	MW-15B
		24-Jul-20	13-Oct-20	31-Mar-21	14-Oct-21
Total Alkalinity as CaCO ₃	mg/L	680	724	771	802
Carbonate Alkalinity as CaCO ₃	mg/L	38.1	14.8	<5.00	<5.00
Bicarbonate Alkalinity as CaCO ₃	mg/L	642	709	771	802
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00
Boron	mg/L	4.27	5.08	3.67	4.78
Calcium	mg/L	39.3	38.3	35.1	52.8
Chloride	mg/L	60.1	57	57.2	56.0
Dissolved Oxygen (field)	mg/L	4.21	5.04	2.4	9.52
Fluoride	mg/L	1.23	0.96	1.14	1.15
Iron, Total	mg/L	22.7	1.51	7.89	8.51
Iron, Dissolved	mg/L	2.11	<0.0120	0.0212 J	0.0794 J
Iron, Ferric	mg/L	---	---	7.21	6.69
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	0.0794
Iron, Ferrous	mg/L	2.67	7.52	0.68	1.82
Iron, Ferrous, Dissolved	mg/L	---	---	0.235	<0.0200 H
Magnesium	mg/L	13.2	11.5	10.2	15.9
Molybdenum, Total	mg/L	0.0109	0.00876	0.00571	0.00328 J
Molybdenum, Dissolved	mg/L	0.016	0.00762	0.00814	0.00679
Nitrate as N	mg/L	---	36.2	29.4	18.3
Oxidation-Reduction Potential (field)	mV	224.1	236.6	211.3	240.1
pH (laboratory)	S.U.	7.66	7.87	7.66	7.59
pH (field)	S.U.	7.91	7.88	7.43	7.58
Potassium	mg/L	10.3	6.72	8.19	8.29
Sodium	mg/L	713	836	625	866
Specific Conductance (laboratory)	umhos/cm	---	4520	4300	4410
Specific Conductance (field)	umhos/cm	3513	2486	4208	4285
Sulfate	mg/L	1280	1340	1560	1580
Sulfide	mg/L	3	5	<1.00	3.31
Temperature (field)	°C	21.7	20.7	18	20.4
Total Dissolved Solids	mg/L	2390	2940	3080	2990
Turbidity (field)	NTU	568	80.1	>1,000	>1000
Filtered Turbidity (field)	NTU	0.72	1.69	0.72	22.4

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

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TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING	
		MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
		11-Aug-17	22-May-18	1-Aug-18	10-Aug-18	2-Oct-18	16-Jan-19	23-Apr-19	3-Oct-19	18-Jun-20	13-Oct-20	1-Apr-21	14-Oct-21
Total Alkalinity as CaCO3	mg/L	238	---	---	---	---	256	---	---	232	233	228	264
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	238	---	---	---	---	256	---	---	232	233	228	264
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00
Boron	mg/L	1.79	1.95	1.9	2.39 J	2.05	2.23	1.85	1.53	1.43	1.78	1.57	1.61
Calcium	mg/L	238	122	159	185	221	215	192	149	186	166	140	158
Chloride	mg/L	18	21.3	20.6	29.6	18	19	15.8	23.8	14.7	14.8	14.4	16.2
Dissolved Oxygen (field)	mg/L	0.16	0.37	1.59	2.7	0.25	1.37	0.83	3.67	2.18	1.99	0.46	3.3
Fluoride	mg/L	0.817	1.01	0.963	1.17	0.832	0.82	0.741	1.07	0.694	0.893	0.916	0.964
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0358 J	0.125 J	0.0536 J	0.369
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	0.0160 J	0.0694 J	0.0140 J	0.190 J
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	0.0536	0.178
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	0.190
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0380 J	0.0240 J	<0.02	0.191
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H
Magnesium	mg/L	10.3	---	---	---	---	---	---	---	8.44	7.59	7.65	7.38
Molybdenum, Total	mg/L	0.181	---	0.145	0.154	0.169	0.18	0.193	0.149	0.172	0.149	0.166	0.163
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.18	---	---	0.173	0.16	0.18	0.189
Nitrate as N	mg/L	---	---	---	---	0.133	<0.03	0.854	<0.03	<0.0600	<0.0600	0.687	<0.0300
Oxidation-Reduction Potential (field)	mV	60.3	-83.7	186.4	150.4	-131.8	278.9	28.7	-191.5	-56.9	60.2	57.7	-167.2
pH (laboratory)	S.U.	7.2	7.5	7.5	7.8	8.2	7.33	7.88	7.01	7.6	7.63	7.83	7.75
pH (field)	S.U.	7.09	7.57	7.11	7.3	7.53	7.21	7.56	7.82	7.66	7.69	8.12	7.74
Potassium	mg/L	3.33	---	---	---	---	4.18	---	---	2.85	3.09	3.12	3.18
Sodium	mg/L	272	---	---	---	---	405	---	---	309	316	325	295
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	2420	2340	---	---	---	2400	2420	2340
Specific Conductance (field)	umhos/cm	2330	2463	2436	2678	2816	2273	2330	2836	2438	2615	3178	2699
Sulfate	mg/L	1020	933	938	998	959	1020	974	1020	1030	929	1070	1110
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	1.4	<1.00	<1.00
Temperature (field)	°C	24.61	22.87	23.7	23.74	25.4	14.8	19.31	24.89	21.9	23.5	16.32	23
Total Dissolved Solids	mg/L	1710	1820	1810	1930	1780	1740	1740	1810	1610	1610	1790	1590
Turbidity (field)	NTU	1.11	1.21	3.49	2.96	2.89	6.82	2.53	1.48	3.09	0.75	2.16	4.38
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.03	---	---	---	0.75	---	2.21

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING		
		MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
		10-Aug-17	21-May-18	1-Aug-18	10-Aug-18	3-Oct-18	10-Jan-19	25-Apr-19	3-Oct-19	18-Jun-20	12-Oct-20	31-Mar-21	14-Oct-21	
Total Alkalinity as CaCO3	mg/L	260	---	---	---	---	280	---	---	284	273	269	288	
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	
Bicarbonate Alkalinity as CaCO3	mg/L	260	---	---	---	---	280	---	---	284	273	269	288	
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	
Boron	mg/L	0.666	0.588	0.659	0.845 J	0.567	0.766	0.796	0.622	0.652	0.64	0.539	0.700	
Calcium	mg/L	528	436	549	787	461	591	499	555	494	453	467	428	
Chloride	mg/L	3.28	3.15	3.84	3.27	4.81	3.44	3.65	3.75	4.29	4.04	4.06	4.02	
Dissolved Oxygen (field)	mg/L	0.29	0.21	5.57	4.59	0.44	0.51	1.8	0.8	1.35	0.41	0.45	0.52	
Fluoride	mg/L	0.328	0.324	0.47	0.317	0.393	0.337	0.392 J	0.37	0.211	0.366	0.412	0.317	
Iron, Total	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	0.0541 J	<0.0120	
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120 [#]	0.0198 J	
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	0.0541 [#]	<0.0200	
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02 [#]	<0.0200	
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0200 J	<0.0200	<0.02 [#]	<0.0200	
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02 [#]	<0.0200 H	
Magnesium	mg/L	36.6	---	---	---	---	38.1	---	---	37.8	30.9	29.3	34.6	
Molybdenum, Total	mg/L	<0.001	---	<0.001	<0.001	<0.001	<0.0006	0.000671 J	<0.0006	<0.000600	<0.000600	0.000950 J	<0.000600	
Molybdenum, Dissolved	mg/L	---	---	---	---	---	<0.0006	---	---	0.00123 J	<0.000600	0.00292 J [#]	<0.000600	
Nitrate as N	mg/L	---	---	---	---	0.276	<0.03	<0.150	<0.03	<0.0600	<0.0600	<0.0300	<0.0600	
Oxidation-Reduction Potential (field)	mV	65.7	-49.2	172.9	209.4	237.5	57.8	2.4	148.3	-28.1	129.9	37.4	61.7	
pH (laboratory)	S.U.	6.9	6.9	7.2	7	7.5	6.59	7.53	6.37	7.38	7.51	7.34	7.12	
pH (field)	S.U.	6.69	6.92	6.64	6.8	6.7	6.67	7.09	6.88	6.8	6.88	7.14	6.90	
Potassium	mg/L	5.15	---	---	---	---	5.37	---	---	5.15	4.42	4.19	4.94	
Sodium	mg/L	34.5	---	---	---	---	35.7	---	---	35.6	29.2	28.2	32.5	
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	1920	2450	---	---	---	2610	2460	2390	
Specific Conductance (field)	umhos/cm	2417	2416	2606	2569	2548	2416	2470	2458	2344	2393	3256	2467	
Sulfate	mg/L	1450	1140	1310	1340	821	1480	1100	1310	1390	1,220 H	1310	1390	
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00 [#]	1.12	
Temperature (field)	°C	21.98	20.98	25.04	22.3	23.3	15.9	19.26	23.63	21.2	23.2	18.75	22.9	
Total Dissolved Solids	mg/L	2140	2360	2340	2380	1670	2300	2400	2160	2230	2160	2200	2210	
Turbidity (field)	NTU	0.81	0.52	4.63	14.5	5.4	1.24	0.63	0.65	2.28	0.58	0.64	1.80	
Filtered Turbidity (field)	NTU	---	---	---	---	---	0.69	---	---	---	0.58	---	---	

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.
13. # : samples for sulfide, dissolved iron, dissolved molybdenum, total and dissolved ferrous iron, and total and dissolved ferric iron were collected on 4/6/21

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING	
		MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
		10-Aug-17	18-May-18	2-Aug-18	10-Aug-18	3-Oct-18	14-Jan-19	25-Apr-19	1-Oct-19	17-Jun-20	12-Oct-20	31-Mar-21	14-Oct-21
Total Alkalinity as CaCO3	mg/L	77.9	---	---	---	---	75.1	---	---	71	69.9	65.5	73.8
Carbonate Alkalinity as CaCO3	mg/L	52.6	---	---	---	---	42.2	---	---	60.6	64.3	46.8	55.8
Bicarbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00
Hydroxide Alkalinity	mg/L	25.3	---	---	---	---	32.9	---	---	10.4	5.63	18.7	17.9
Boron	mg/L	6.51	6.71	4.86	6.65	5.77	6.89	6.05	5.29	5.49	5.43	4.32	4.61
Calcium	mg/L	28.7	28.1	36.1	31.1	25.1	31.8	33.1	25.6	21.6	20	19.3	19.3
Chloride	mg/L	6.1	5.19	8.04	5.33	5.5	5.59	4.79	5.07	4.06	4.22	4.2	4.39
Dissolved Oxygen (field)	mg/L	0.03	0.17	4.03	0.9	0.21	0.36	1.44	0.33	0.55	0.24	0.39	0.36
Fluoride	mg/L	1.38	1.37	1.26	1.35	1.37	1.32	1.25	1.47	1.28	1.66	1.71	1.90
Iron, Total	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0200 J	<0.0200	<0.02	<0.0200
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H
Magnesium	mg/L	<0.220	---	---	---	---	---	---	---	0.141 J	0.27	0.426	0.152 J
Molybdenum, Total	mg/L	0.39	---	0.113	0.319	0.33	0.333	0.342	0.257	0.194	0.18	0.195	0.209
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.332	---	---	0.18	0.166	0.215	0.211
Nitrate as N	mg/L	---	---	---	---	0.053 J	0.075 J	<0.05	<0.03	<0.0600	<0.0300	<0.0300	0.0606 J
Oxidation-Reduction Potential (field)	mV	28.2	-139.8	-65.1	-119.7	130.1	174.9	-152.8	-71.2	-140.3	-80.5	-49.7	-9.7
pH (laboratory)	S.U.	10.7	10.1	7.8	10.2	9.8	10.4	10.2	10.3	9.35	10.2	10.5	9.95
pH (field)	S.U.	10.54	10.74	9.71	10.41	10.45	10.47	10.93	10.4	10.65	10.4	10.39	10.46
Potassium	mg/L	22	---	---	---	---	22.3	---	---	15.9	14.6	13.6	15.0
Sodium	mg/L	523	---	---	---	---	603	---	---	376	348	324	329
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	2590	2520	---	---	---	2200	2090	2040
Specific Conductance (field)	umhos/cm	2716	2530	2568	2658	2632	2442	2486	2350	1998	1986	1999	2041
Sulfate	mg/L	1070	1120	996	1030	1090	1110	933	1020	888	794	904	896
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00	<1.00
Temperature (field)	°C	22.11	21.12	24.1	22.37	23.6	14	17.89	24.8	22.45	23.5	17	20.7
Total Dissolved Solids	mg/L	1850	1740	1660	1730	1760	1630	1680	1550	1340	1270	1260	1320
Turbidity (field)	NTU	1.21	0.22	0.02	0.02	2.04	2.79	0.49	0.92	2.43	0.34	1	1.99
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.47	---	---	---	0.34	0.62	1.89

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING										CMA SAMPLING				
		MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	DUP 2	MW-19S	MW-19S	DUP 3	MW-19S
		10-Aug-17	18-May-18	2-Aug-18	10-Aug-18	3-Oct-18	15-Jan-19	25-Apr-19	1-Oct-19	MW-19S	MW-19S	17-Jun-20	12-Oct-20	31-Mar-21		15-Oct-21
Total Alkalinity as CaCO3	mg/L	132	---	---	---	---	141	---	---	128	130	132	135	133	150	
Carbonate Alkalinity as CaCO3	mg/L	85.8	---	---	---	---	59.8	---	---	92.6	98.7	89.2	63.8	69	77.3	
Bicarbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5.00	<5	<5	<5.00	
Hydroxide Alkalinity	mg/L	46.2	---	---	---	---	81.2	---	---	35.1	31.4	42.6	71.6	64.4	73.0	
Boron	mg/L	7.64	8.43	8.64	3.78	10.2	9.79	8.57	6.64	6.8	7.18	6.88	6.86	8.41	5.88	
Calcium	mg/L	41.3	45.7	35	24.8	35.3	50	52.4	40.4	43.6	42.1	40.7	42.3	35.3	41.6	
Chloride	mg/L	15.7	14.5	15.1	14.9	14.8	14.2	13.7	14.4	13.8	14	14.1	13.7	14	13.6	
Dissolved Oxygen (field)	mg/L	0.02	0.24	4.64	1.32	0.33	0.21	1.5	0.5	0.36	---	0.16	0.27	---	0.21	
Fluoride	mg/L	1.32	1.3	1.34	1.3	1.24	1.27	1.13	1.37	1.15	1.04	1.38	1.46	1.54	1.57	
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0153 J	<0.0120	<0.0120	<0.0120	<0.0120	0.0509 J	
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	0.0210 J	
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	---	<0.02	<0.02	<0.0200	
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	---	<0.02	<0.02	0.0210 J	
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0430 J	0.0330 J	0.0310 J	<0.02	<0.02	0.0450 J	
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	---	<0.02	<0.02	<0.0200 H	
Magnesium	mg/L	<0.220	---	---	---	---	0.121 J	---	---	0.0553 J	0.0510 J	0.0346 J	0.0773 J	0.0681 J	0.0415 J	
Molybdenum, Total	mg/L	0.469	---	0.384	0.112	0.439	0.472	0.462	0.377	0.402	0.394	0.367	0.398	0.351	0.407	
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.463	---	---	0.373	0.383	0.37	0.457	0.398	0.440	
Nitrate as N	mg/L	---	---	---	---	<0.049	<0.03	<0.150	<0.03	<0.0600	<0.0600	<0.150	<0.0600	<0.0600	<0.0600	
Oxidation-Reduction Potential (field)	mV	-215.4	-312.1	-227.4	-249	172.1	-162	-281.7	-252.4	-588.1	---	209.2	-191.7	---	-237.2	
pH (laboratory)	S.U.	10.8	10.5	9.7	10.5	9.9	10.4	10.5	10.6	10.2	9.88	10.9	10.8	10.6	10.8	
pH (field)	S.U.	10.72	11.09	10.55	10.56	10.63	11.01	11.26	10.65	10.97	---	10.92	11.09	---	10.84	
Potassium	mg/L	35.9	---	---	---	---	38.2	---	---	35.2	34.1	33.7	33.9	29	34.6	
Sodium	mg/L	697	---	---	---	---	801	---	---	644	598	610	639	545	462	
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	2470	3530	---	---	---	---	3860	3500	3540	3370	
Specific Conductance (field)	umhos/cm	3552	3530	3587	3563	3610	3438	3524	3552	3309	---	3433	3406	---	3342	
Sulfate	mg/L	1650	1630	1520	1480	1950	1640	1520	1580	1490	1590	1640	1560	1560	1570	
Sulfide	mg/L	---	---	---	---	---	---	---	---	1.52	<1.00	1.8	<1.00	<1.00	<1.00	
Temperature (field)	°C	24.37	20.38	26.67	24.71	25.4	13.4	17.92	25.86	22.99	---	23.8	18.3	---	21.8	
Total Dissolved Solids	mg/L	2440	2560	2390	2440	2490	2500	2440	2460	2300	2290	2340	2360	2310	2290	
Turbidity (field)	NTU	1.26	0.47	0.02	4.16	2.05	5.19	0.57	0.61	2.86	---	1.24	0.73	---	2.77	
Filtered Turbidity (field)	NTU	---	---	---	---	---	2.24	---	---	---	---	1.24	0.59	---	1.88	

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING									CMA SAMPLING	
		MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A
		11-Aug-17	22-May-18	10-Aug-18	3-Oct-18	16-Jan-19	25-Apr-19	30-Sep-19	18-Jun-20	9-Oct-20	31-Mar-21	13-Oct-21
Total Alkalinity as CaCO3	mg/L	231	---	---	---	256	---	---	249	249	232	315
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	231	---	---	---	256	---	---	249	249	232	315
Hydroxide Alkalinity	mg/L	<5	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00
Boron	mg/L	1.77	1.74	2.18	1.45	1.78	1.88	1.49	2.82	1.84	1.6	1.76
Calcium	mg/L	559	636	697	702	643	507	481	754	507	529	515
Chloride	mg/L	2.28	2.6	2.41	2.4	2.24	2.56	2.39	2.34	2.05 J	2.17	2.06 J
Dissolved Oxygen (field)	mg/L	0.43	2.18	2.72	0.44	0.9	4.05	1.23	3.35	0.68	2	0.26
Fluoride	mg/L	0.341	2.24	0.315	0.329	0.299	0.374 J	0.364	0.237	0.279 J	0.249	0.608
Iron, Total	mg/L	---	---	---	---	---	---	---	0.0509 J	<0.0120	0.0536 J	0.660
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	<0.0120	0.0121 J	0.0206 J	1.00
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	0.0536	<0.0200
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	0.0206 J	<0.0200
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	<0.0200	<0.0200	<0.02	0.904
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H
Magnesium	mg/L	87.1	---	---	---	107	---	---	126	85	95	96.2
Molybdenum, Total	mg/L	<0.001	---	<0.001	<0.001	<0.0006	<0.0006	0.000787 J	<0.000600	<0.000600	<0.000600	<0.000600
Molybdenum, Dissolved	mg/L	---	---	---	---	0.000822 J	---	---	0.000773 J	<0.000600	<0.000600	0.0328
Nitrate as N	mg/L	---	---	---	0.458	<0.03	<0.150	0.198	<0.0600	<0.150	<0.0600	<0.150
Oxidation-Reduction Potential (field)	mV	64.2	-14.8	-30.2	275.1	275.6	43.2	-110.1	-36.5	146.4	207.4	-251.1
pH (laboratory)	S.U.	6.8	7	7.1	7.4	6.49	7.61	6.74	7.08	7.48	7.21	7.32
pH (field)	S.U.	6.76	7.01	7.02	6.75	6.75	7.19	7.02	6.97	6.97	7	7.00
Potassium	mg/L	14.4	---	---	---	17.8	---	---	21.7	13.7	15.2	16.7
Sodium	mg/L	140	---	---	---	169	---	---	202	135	147	158
Specific Conductance (laboratory)	umhos/cm	---	---	---	3180	3170	---	---	---	3450	3450	3250
Specific Conductance (field)	umhos/cm	3218	3135	3244	3277	3181	3208	3236	3013	3165	3195	2975
Sulfate	mg/L	2030	1940	1860	1830	1990	1740	1880	2160	2010	2020	1970
Sulfide	mg/L	---	---	---	---	---	---	---	1.52	<1.00	<1.00	2.08
Temperature (field)	°C	23.05	20.84	24.37	20.9	13.6	17.89	22.78	23.52	20.7	18.2	23.3
Total Dissolved Solids	mg/L	3030	3090	3050	1910	3000	3170	3030	3390	3160	3040	3010
Turbidity (field)	NTU	5.72	2.09	3.67	2.71	51.5	3.81	1.89	9.49	2.92	18.3	7.88
Filtered Turbidity (field)	NTU	---	---	---	---	4.9	---	---	---	0.51	---	1.18

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING	
		MW-22B	MW-22B	MW-22B	MW-22B
		24-Jul-20	13-Oct-20	31-Mar-21	13-Oct-21
Total Alkalinity as CaCO3	mg/L	333	364	364	435
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	328	364	364	435
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00
Boron	mg/L	2.97	3.4	3.14	3.17
Calcium	mg/L	90.1	69.8	75.8	82.7
Chloride	mg/L	55.5	56.1	57.8	55.0
Dissolved Oxygen (field)	mg/L	5.05	1.23	5.4	9.27
Fluoride	mg/L	1.14	1.05	1.46	1.21
Iron, Total	mg/L	11.7	0.282	4.19	6.04
Iron, Dissolved	mg/L	<0.0120	<0.0120	<0.0120	0.0138 J
Iron, Ferric	mg/L	---	---	3.23	4.22
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200
Iron, Ferrous	mg/L	3.06	0.58	0.957	1.82
Iron, Ferrous, Dissolved	mg/L	---	---	0.53	<0.0200 H
Magnesium	mg/L	24.1	21.7	23.4	26.0
Molybdenum, Total	mg/L	0.00878	0.00866	0.00753	0.00446 J
Molybdenum, Dissolved	mg/L	0.0111	0.00853	0.00841	0.00723
Nitrate as N	mg/L	---	<0.0600	1.03	0.958
Oxidation-Reduction Potential (field)	mV	180.5	235.6	37.4	259.2
pH (laboratory)	S.U.	7.57	7.77	7.75	7.59
pH (field)	S.U.	7.95	7.64	7.88	7.72
Potassium	mg/L	10.3	7.81	8.79	10.2
Sodium	mg/L	838	842	846	848
Specific Conductance (laboratory)	umhos/cm	---	5100	4460	4690
Specific Conductance (field)	umhos/cm	4364	4400	6102	4547
Sulfate	mg/L	2180	2040	2080	2090
Sulfide	mg/L	4	<1.00	<1.00	<1.00
Temperature (field)	°C	22.3	19.3	17.23	20.7
Total Dissolved Solids	mg/L	3000	3340	3280	3290
Turbidity (field)	NTU	926	8.67	>1,000	391
Filtered Turbidity (field)	NTU	1.21	0.21	1.41	2.05

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time.
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING	
		CM-1A	CM-1A	CM-1A	CM-1A
		24-Jul-20	7-Oct-20	1-Apr-21	14-Oct-21
Total Alkalinity as CaCO ₃	mg/L	326	346	337	356
Carbonate Alkalinity as CaCO ₃	mg/L	<5.00	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO ₃	mg/L	326	346	337	356
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00
Boron	mg/L	0.748	0.612	0.664	0.883
Calcium	mg/L	452	480	464	531
Chloride	mg/L	49.5	28.4	26.3	21.2
Dissolved Oxygen (field)	mg/L	6	0.59	1.8	0.37
Fluoride	mg/L	0.382	<0.500	0.483	0.399
Iron, Total	mg/L	5.34	0.0215 J	0.0232 J	0.115 J
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.0713 J	0.0382 J
Iron, Ferric	mg/L	---	---	0.0232 J	0.0640
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	0.0382 J
Iron, Ferrous	mg/L	0.114	<0.0200	<0.0200	0.051
Iron, Ferrous, Dissolved	mg/L	---	---	<0.0200	<0.0200 H
Magnesium	mg/L	65.7	55.4	50.2	77.6
Molybdenum, Total	mg/L	0.0088	0.00198 J	0.00132 J	0.00127 J
Molybdenum, Dissolved	mg/L	0.00385 J	0.00169 J	0.00159 J	0.00121 J
Nitrate as N	mg/L	---	<0.300	<0.0600	<0.0300
Oxidation-Reduction Potential (field)	mV	301.9	170.1	175.7	-58.0
pH (laboratory)	S.U.	6.52	7.69	7.61	7.73
pH (field)	S.U.	6.93	6.84	6.95	6.77
Potassium	mg/L	12.4	8.79	7.52	11.9
Sodium	mg/L	178	181	170	198
Specific Conductance (laboratory)	umhos/cm	---	3620	3180	3300
Specific Conductance (field)	umhos/cm	3105	3258	3225	3092
Sulfate	mg/L	1970	1810	1910	1940
Sulfide	mg/L	<1.00	<1.00	<1.00	<1.00
Temperature (field)	°C	23.7	22.7	18.7	21.8
Total Dissolved Solids	mg/L	2980	3130	3090	3030
Turbidity (field)	NTU	31.4	2.91	2.39	15.6
Filtered Turbidity (field)	NTU	0.67	0.65	1.1	1.23

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING	
		CM-1B	CM-1B	CM-1B	CM-1B
		24-Jul-20	12-Oct-20	1-Apr-21	14-Oct-21
Total Alkalinity as CaCO3	mg/L	432	439	---	424
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	---	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	432	439	---	424
Hydroxide Alkalinity	mg/L	<5.00	<5.00	---	<5.00
Boron	mg/L	3.86	3.84	3.44	3.48
Calcium	mg/L	233	128	127	119
Chloride	mg/L	107	110	---	113
Dissolved Oxygen (field)	mg/L	4.33	---	0.81	0.39
Fluoride	mg/L	0.626	0.599	---	0.789
Iron, Total	mg/L	47.5	3.89	0.194 J	0.0865 J
Iron, Dissolved	mg/L	0.0150 J	0.0164 J	0.0136 J	<0.0120
Iron, Ferric	mg/L	---	---	0.112	0.0435 J
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200
Iron, Ferrous	mg/L	26	7.3	0.082	0.0430 J
Iron, Ferrous, Dissolved	mg/L	---	---	0.0450 J	<0.0200 H
Magnesium	mg/L	50.8	41.7	43.3	45.1
Molybdenum, Total	mg/L	0.0133	0.0144	0.0113	0.00976
Molybdenum, Dissolved	mg/L	0.019	0.0155	0.0126	0.0108
Nitrate as N	mg/L	---	9.85	---	<0.0600
Oxidation-Reduction Potential (field)	mV	184.2	-80.5	189.3	-70.5
pH (laboratory)	S.U.	7.67	8.12	---	8.03
pH (field)	S.U.	7.62	10.4	7.45	7.43
Potassium	mg/L	19.7	12.3	12.4	13.6
Sodium	mg/L	877	881	899	951
Specific Conductance (laboratory)	umhos/cm	---	5650	---	5110
Specific Conductance (field)	umhos/cm	4900	1986	5107	4662
Sulfate	mg/L	2490	2290	---	2300
Sulfide	mg/L	5	<1.00	<1.00	<1.00
Temperature (field)	°C	23.3	23.5	19.9	22.6
Total Dissolved Solids	mg/L	3490	3760	---	3670
Turbidity (field)	NTU	>1,000	0.34	14.8	18.2
Filtered Turbidity (field)	NTU	---	0.34	1.16	1.8

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING		
		CM-2	DUP 1	CM-2	CM-2	CM-2
		24-Jul-20	7-Oct-20	1-Apr-21	15-Oct-21	
Total Alkalinity as CaCO3	mg/L	337	347	329	328	353
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	337	347	329	328	353
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00
Boron	mg/L	0.93	0.941	0.845	0.679	0.744
Calcium	mg/L	492	533	491	466	487
Chloride	mg/L	3.79	3.12	2.84 J	3.49	3.15
Dissolved Oxygen (field)	mg/L	4.62	---	0.27	0.67	0.40
Fluoride	mg/L	0.558	0.565	<0.500	0.419	0.526
Iron, Total	mg/L	2.78	2.97	0.0482 J	0.132 J	0.232
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.0139 J	0.0386 J	0.237
Iron, Ferric	mg/L	---	---	---	0.132	0.0970
Iron, Ferric, Dissolved	mg/L	---	---	---	<0.0200	0.237
Iron, Ferrous	mg/L	0.109	0.146	<0.0200	<0.0200	0.135
Iron, Ferrous, Dissolved	mg/L	---	---	---	<0.0200	<0.0200 H
Magnesium	mg/L	31.6	32.8	28.7	24.4	29.5
Molybdenum, Total	mg/L	0.00209 J	0.00218 J	0.00203 J	0.00161 J	0.00120 J
Molybdenum, Dissolved	mg/L	0.00158 J	0.00134 J	0.00177 J	0.00118 J	0.00136 J
Nitrate as N	mg/L	---	---	<0.300	0.529	0.0497 J
Oxidation-Reduction Potential (field)	mV	244.3	---	170.2	72.3	-27.8
pH (laboratory)	S.U.	6.66	6.6	7.91	7.82	7.37
pH (field)	S.U.	7.02	---	6.89	6.8	6.80
Potassium	mg/L	8.78	8.74	7.09	6.88	7.56
Sodium	mg/L	111	116	110	94	107
Specific Conductance (laboratory)	umhos/cm	---	---	3020	2190	2500
Specific Conductance (field)	umhos/cm	2713	---	2872	2870	2182
Sulfate	mg/L	1680	1730	1590	1210	1370
Sulfide	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00
Temperature (field)	°C	21	---	20.1	17.7	21.4
Total Dissolved Solids	mg/L	2490	2660	2690	2060	2210
Turbidity (field)	NTU	16	---	18.8	2.32	14.6
Filtered Turbidity (field)	NTU	0.47	---	3.91	0.82	2.82

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING	
		CM-3A	CM-3A	CM-3A	CM-3A
		21-Aug-20	13-Oct-20	30-Mar-21	14-Oct-21
Total Alkalinity as CaCO3	mg/L	**	616	489	630
Carbonate Alkalinity as CaCO3	mg/L	**	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	**	616	489	630
Hydroxide Alkalinity	mg/L	**	<5.00	<5.00	<5.00
Boron	mg/L	4.84	3.8	2.82	2.72
Calcium	mg/L	50.9	70.3	64.3	67.6
Chloride	mg/L	52.9	36.1	54.8	42.5
Dissolved Oxygen (field)	mg/L	**	***	3.3	4.96
Fluoride	mg/L	0.425	0.699	0.858	0.801
Iron, Total	mg/L	2.78	8.53	0.0152 J	6.76
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.794	0.0291 J
Iron, Ferric	mg/L	---	---	<0.0200	5.27
Iron, Ferric, Dissolved	mg/L	---	---	0.313	0.0291 J
Iron, Ferrous	mg/L	**	0.480 J	1.45	1.49
Iron, Ferrous, Dissolved	mg/L	---	---	0.481	<0.0200 H
Magnesium	mg/L	6.26	10.4	13.3	10.7
Molybdenum, Total	mg/L	0.0457	0.0222	0.0153	0.00297 J
Molybdenum, Dissolved	mg/L	0.0445	0.0299	0.0157	0.0120
Nitrate as N	mg/L	1.67	7.55	19.9	7.07
Oxidation-Reduction Potential (field)	mV	**	***	212.5	281.8
pH (laboratory)	S.U.	8.76	7.82	7.95	7.73
pH (field)	S.U.	**	***	7.6	7.37
Potassium	mg/L	6.13	7.41	6.68	6.38
Sodium	mg/L	429	499	559	447
Specific Conductance (laboratory)	umhos/cm	---	2940	2910	2410
Specific Conductance (field)	umhos/cm	**	***	3015	2467
Sulfate	mg/L	554	749	971	635
Sulfide	mg/L	**	<1.00	<1.00	2.12
Temperature (field)	°C	**	***	18.7	19.7
Total Dissolved Solids	mg/L	1700	1840	2330	1560
Turbidity (field)	NTU	**	***	>1,000	>1000
Filtered Turbidity (field)	NTU	**	***	0.44	1.84

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time.
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING	
		CM-3B	CM-3B	CM-3B	CM-3B
		21-Aug-20	15-Oct-20	2-Apr-21	11-Oct-21
Total Alkalinity as CaCO3	mg/L	**	413	519	**
Carbonate Alkalinity as CaCO3	mg/L	**	16.5	17.6	**
Bicarbonate Alkalinity as CaCO3	mg/L	**	396	502	**
Hydroxide Alkalinity	mg/L	**	<5.00	<5.00	**
Boron	mg/L	3.82	3.44	4.73	**
Calcium	mg/L	70	62.7	100	**
Chloride	mg/L	48.9	28.8	40.2	**
Dissolved Oxygen (field)	mg/L	**	***	***	***
Fluoride	mg/L	1.9	1.14	1.52	**
Iron, Total	mg/L	23.5	22.8	55.6	**
Iron, Dissolved	mg/L	0.0140 J	0.0399 J	0.0419 J	**
Iron, Ferric	mg/L	---	---	---	**
Iron, Ferric, Dissolved	mg/L	---	---	---	**
Iron, Ferrous	mg/L	**	**	---	**
Iron, Ferrous, Dissolved	mg/L	---	---	---	**
Magnesium	mg/L	13.6	11.2	23.2	**
Molybdenum, Total	mg/L	0.0327	0.0318	0.0353 J	**
Molybdenum, Dissolved	mg/L	0.0394	0.0355	0.0392	**
Nitrate as N	mg/L	<0.0300	4.64	31.3	**
Oxidation-Reduction Potential (field)	mV	**	***	***	***
pH (laboratory)	S.U.	8.11	8.65	8.24	**
pH (field)	S.U.	**	***	***	***
Potassium	mg/L	11.1	9.04	23.6	**
Sodium	mg/L	573	603	847	**
Specific Conductance (laboratory)	umhos/cm	---	2540	2930	**
Specific Conductance (field)	umhos/cm	**	***	***	***
Sulfate	mg/L	1090	733	942	**
Sulfide	mg/L	**	**	---	**
Temperature (field)	°C	**	***	***	***
Total Dissolved Solids	mg/L	2240	1310	2340	**
Turbidity (field)	NTU	**	***	***	***
Filtered Turbidity (field)	NTU	**	***	***	***

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING	
		CM-4A	CM-4A	CM-4A	CM-4A
		24-Jul-20	8-Oct-20	30-Mar-21	13-Oct-21
Total Alkalinity as CaCO3	mg/L	470	557	510	605
Carbonate Alkalinity as CaCO3	mg/L	20	5.28	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	450	552	510	605
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00
Boron	mg/L	3.03	4.42	3.24	3.56
Calcium	mg/L	103	71.7	59.1	66.5
Chloride	mg/L	92.4	105	109	90.2
Dissolved Oxygen (field)	mg/L	2.68	***	3.93	5.31
Fluoride	mg/L	0.879	0.602	0.947	0.737
Iron, Total	mg/L	40	6.78	7.67	4.64
Iron, Dissolved	mg/L	0.0205 J	0.0162 J	0.0149 J	<0.0120
Iron, Ferric	mg/L	---	---	6.98	4.10
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200
Iron, Ferrous	mg/L	1.92	10.3	0.69	0.544
Iron, Ferrous, Dissolved	mg/L	---	---	0.278	<0.0200 H
Magnesium	mg/L	16.7	15.2	13.5	16.4
Molybdenum, Total	mg/L	0.0269	0.0271	0.0212	0.0105
Molybdenum, Dissolved	mg/L	0.0529	0.0391	0.0255	0.0194
Nitrate as N	mg/L	---	27	20	21.6
Oxidation-Reduction Potential (field)	mV	238.4	***	210.6	111.4
pH (laboratory)	S.U.	7.82	7.98	7.64	8.14
pH (field)	S.U.	7.6	***	7.74	7.64
Potassium	mg/L	14.3	8.13	8.26	7.82
Sodium	mg/L	443	654	580	709
Specific Conductance (laboratory)	umhos/cm	---	4150	3630	4030
Specific Conductance (field)	umhos/cm	2939	***	3612	3240
Sulfate	mg/L	1050	1260	1300	1160
Sulfide	mg/L	4	<1.00	<1.00	<1.00
Temperature (field)	°C	20.2	***	18.9	21.1
Total Dissolved Solids	mg/L	1900	2630	2660	2830
Turbidity (field)	NTU	692	***	>1,000	>1000
Filtered Turbidity (field)	NTU	0.4	***	0.54	2.13

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING	
		CM-4B	CM-4B	CM-4B	CM-4B
		24-Jul-20	8-Oct-20	30-Mar-21	13-Oct-21
Total Alkalinity as CaCO3	mg/L	436	520	448	589
Carbonate Alkalinity as CaCO3	mg/L	15.7	24.5	<5.00	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	420	495	448	589
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00
Boron	mg/L	3.14	4.31	3.63	3.79
Calcium	mg/L	56.5	47.1	42.1	79.1
Chloride	mg/L	69.9	95.3	119	113
Dissolved Oxygen (field)	mg/L	2.88	***	5.52	7.70
Fluoride	mg/L	1.01	1.07	1.4	1.05
Iron, Total	mg/L	4.25	1.27	2.19	13.0
Iron, Dissolved	mg/L	0.0123 J	1.56	0.0156 J	0.0134 J
Iron, Ferric	mg/L	---	---	1.03	11.4
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200
Iron, Ferrous	mg/L	19.2	5.17	1.16	1.64
Iron, Ferrous, Dissolved	mg/L	---	---	0.406	<0.0200 H
Magnesium	mg/L	14	12.1	13	17.8
Molybdenum, Total	mg/L	0.0307	0.0306	0.0303	0.0131
Molybdenum, Dissolved	mg/L	0.0354	0.0271	0.0344	0.0235
Nitrate as N	mg/L	---	7.22	17.8	22.2
Oxidation-Reduction Potential (field)	mV	292.1	***	214.4	63.6
pH (laboratory)	S.U.	7.78	8.32	7.84	8.04
pH (field)	S.U.	7.45	***	7.89	7.69
Potassium	mg/L	10.2	7.12	7.46	8.42
Sodium	mg/L	529	764	769	865
Specific Conductance (laboratory)	umhos/cm	---	4260	4160	4400
Specific Conductance (field)	umhos/cm	3331	***	4107	3801
Sulfate	mg/L	1360	1460	1620	1590
Sulfide	mg/L	5	<1.00	<1.00	<1.00
Temperature (field)	°C	20.7	***	19.2	21.2
Total Dissolved Solids	mg/L	2240	2750	3040	2980
Turbidity (field)	NTU	158	***	>1,000	>1000
Filtered Turbidity (field)	NTU	---	***	0.5	1.92

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING	
		CM-5A	CM-5A	CM-5A	CM-5A
		24-Jul-20	8-Oct-20	30-Mar-21	13-Oct-21
Total Alkalinity as CaCO ₃	mg/L	451	541	445	538
Carbonate Alkalinity as CaCO ₃	mg/L	7.91	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO ₃	mg/L	443	541	445	538
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00
Boron	mg/L	3.92	4.67	4.97	4.57
Calcium	mg/L	102	86.7	102	143
Chloride	mg/L	93.9	130	154	134
Dissolved Oxygen (field)	mg/L	3.81	***	3.36	6.35
Fluoride	mg/L	1.09	0.602	0.667	0.682
Iron, Total	mg/L	28.4	5.43	3.27	13.6
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.0799 J	<0.0120
Iron, Ferric	mg/L	---	---	1.21	10.9
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200
Iron, Ferrous	mg/L	0.561	4.63	2.06	2.72
Iron, Ferrous, Dissolved	mg/L	---	---	0.673	<0.0200 H
Magnesium	mg/L	15.8	18.4	26	29.9
Molybdenum, Total	mg/L	0.0205	0.011	0.0182	0.00580
Molybdenum, Dissolved	mg/L	0.0352	0.0214	0.0192	0.0165
Nitrate as N	mg/L	---	27.4	27.2	24.4
Oxidation-Reduction Potential (field)	mV	270.1	***	217.6	126.0
pH (laboratory)	S.U.	7.7	7.96	7.46	7.75
pH (field)	S.U.	7.4	***	7.35	7.49
Potassium	mg/L	13.3	8.41	10.4	11.5
Sodium	mg/L	448	632	761	749
Specific Conductance (laboratory)	umhos/cm	---	4180	4180	4130
Specific Conductance (field)	umhos/cm	2617	***	4132	3626
Sulfate	mg/L	808	1290	1540	1480
Sulfide	mg/L	<1.00	1.36	1.36	<1.00
Temperature (field)	°C	22.5	***	19.2	21.0
Total Dissolved Solids	mg/L	1840	2680	3260	2900
Turbidity (field)	NTU	204	***	>1,000	>1000
Filtered Turbidity (field)	NTU	0.61	***	0.86	36.8

Notes:

1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time.
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

**ATTACHMENT C
TABULATION OF DATA
SEMI-ANNUAL CMA SAMPLING
WESTERN FARMERS ELECTRIC COOPERATIVE - HUGO POWER STATION**

Parameters	Sample ID: Sample Date:	PREVIOUS SAMPLING		CMA SAMPLING	
		CM-5B	CM-5B	CM-5B	CM-5B
		24-Jul-20	9-Oct-20	30-Mar-21	13-Oct-21
Total Alkalinity as CaCO ₃	mg/L	421	525	486	613
Carbonate Alkalinity as CaCO ₃	mg/L	22.6	<5.00	<5.00	<5.00
Bicarbonate Alkalinity as CaCO ₃	mg/L	398	520	486	613
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00
Boron	mg/L	3.8	4.42	3.86	4.37
Calcium	mg/L	115	56.4	46	56.8
Chloride	mg/L	107	113	145	141
Dissolved Oxygen (field)	mg/L	3.35	***	4.46	3.41
Fluoride	mg/L	0.636	0.786	1.15	0.925
Iron, Total	mg/L	32.3	1.26	1.73	3.61
Iron, Dissolved	mg/L	0.0246 J	1.87	0.214 J	<0.0120
Iron, Ferric	mg/L	---	---	0.47	2.97
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200
Iron, Ferrous	mg/L	0.671	10.6	1.26	0.641
Iron, Ferrous, Dissolved	mg/L	---	---	0.206	<0.0200 H
Magnesium	mg/L	22	15.8	14	18.8
Molybdenum, Total	mg/L	0.04	0.0394	0.0536	0.0448
Molybdenum, Dissolved	mg/L	0.0515	0.0359	0.0594	0.0418
Nitrate as N	mg/L	---	25.8	58.0 H	59.8
Oxidation-Reduction Potential (field)	mV	229	***	224.2	50.8
pH (laboratory)	S.U.	7.94	7.84	7.67	7.92
pH (field)	S.U.	7.53	***	7.8	7.56
Potassium	mg/L	15.2	7.73	8	10.1
Sodium	mg/L	587	762	671	836
Specific Conductance (laboratory)	umhos/cm	---	4570	4130	4250
Specific Conductance (field)	umhos/cm	3617	***	3914	3673
Sulfate	mg/L	1470	1430	1330	1310
Sulfide	mg/L	8	6.4	<1.00	1.28
Temperature (field)	°C	21.7	***	18.8	21.0
Total Dissolved Solids	mg/L	2570	2910	3120	2910
Turbidity (field)	NTU	616	***	>1,000	>1000
Filtered Turbidity (field)	NTU	0.25	***	12.1	0.93

Notes:

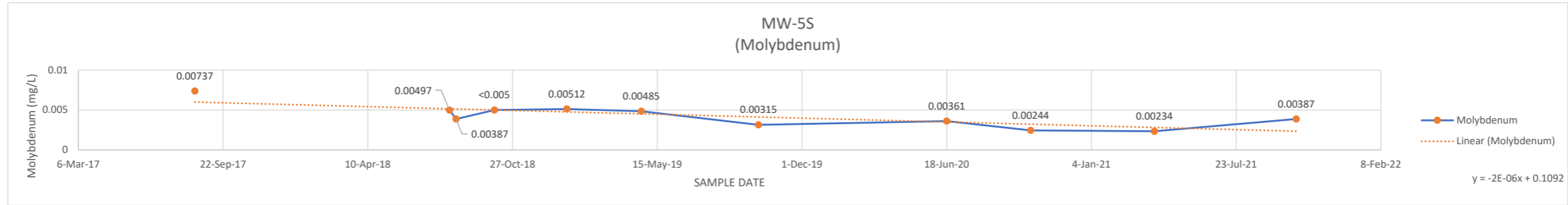
1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
9. --- : no analysis performed.
10. H : Analyzed outside of holding time..
11. ** : Insufficient sample volume for analysis due to well depletion.
12. *** : Insufficient sample volume for field measurements.

ATTACHMENT D

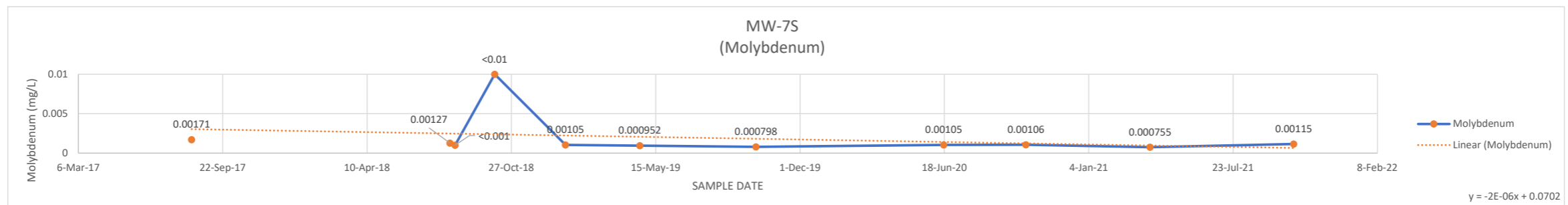
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

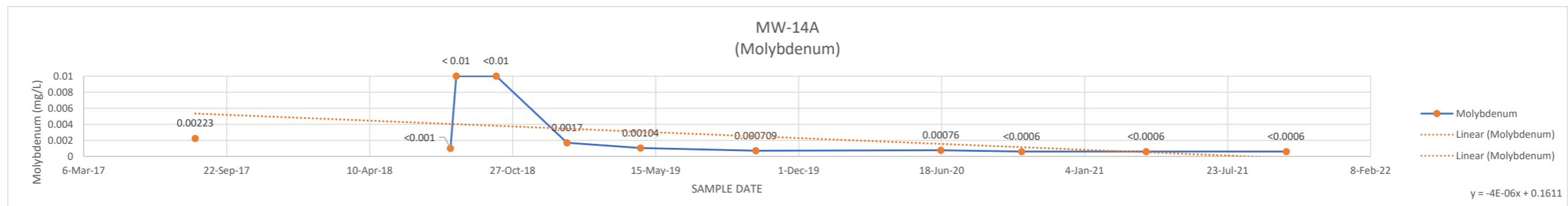
MW-5S	DATE	MOLYBDENUM
	14-Aug-17	0.00737
	22-May-18	
	1-Aug-18	0.00497
	10-Aug-18	0.00387
	2-Oct-18	0.005
	10-Jan-19	0.00512
	23-Apr-19	0.00485
	2-Oct-19	0.00315
	18-Jun-20	0.00361
	12-Oct-20	0.00244
	1-Apr-21	0.00234
	14-Oct-21	0.00387



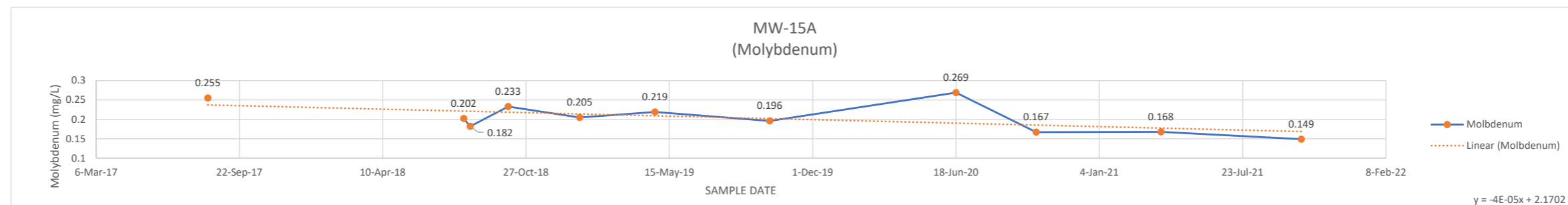
MW-7S	DATE	MOLYBDENUM
	10-Aug-17	0.00171
	17-May-18	
	3-Aug-18	0.00127
	10-Aug-18	0.001
	4-Oct-18	0.01
	10-Jan-19	0.00105
	23-Apr-19	0.000952
	1-Oct-19	0.000798
	17-Jun-20	0.00105
	9-Oct-20	0.00106
	30-Mar-21	0.000755
	15-Oct-21	0.00115



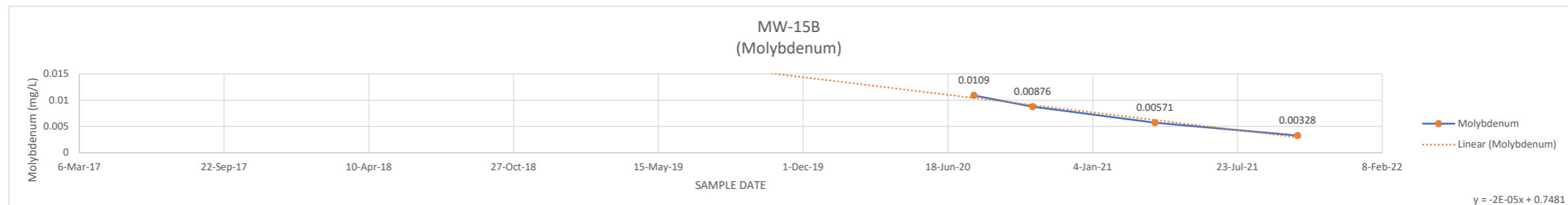
MW-14A	DATE	MOLYBDENUM
	9-Aug-17	0.00223
	17-May-18	
	1-Aug-18	0.001
	9-Aug-18	0.01
	4-Oct-18	0.01
	11-Jan-19	0.0017
	24-Apr-19	0.00104
	2-Oct-19	0.000709
	17-Jun-20	0.00076
	8-Oct-20	0.0006
	31-Mar-21	0.0006
	13-Oct-21	0.0006



MW-15A	DATE	MOLYBDENUM
	9-Aug-17	0.255
	24-May-18	
	1-Aug-18	0.202
	10-Aug-18	0.182
	2-Oct-18	0.233
	10-Jan-19	0.205
	25-Apr-19	0.219
	2-Oct-19	0.196
	18-Jun-20	0.269
	8-Oct-20	0.167
	31-Mar-21	0.168
	13-Oct-21	0.149



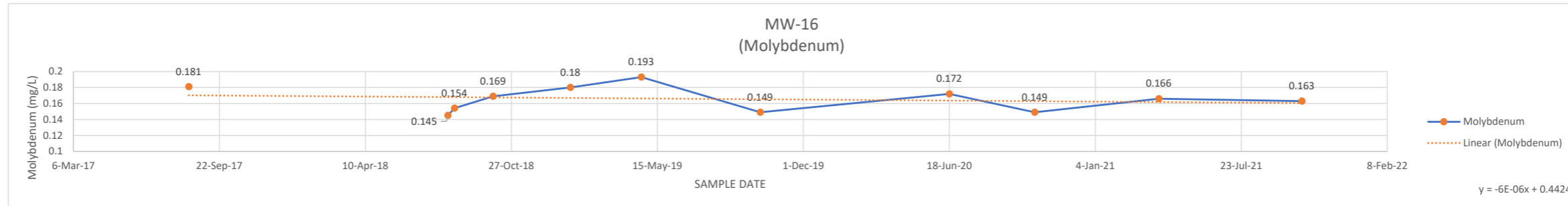
MW-15B	DATE	MOLYBDENUM
	9-Aug-17	
	24-May-18	
	1-Aug-18	
	10-Aug-18	
	2-Oct-18	
	10-Jan-19	
	25-Apr-19	
	2-Oct-19	
	24-Jul-20	0.0109
	13-Oct-20	0.00876
	31-Mar-21	0.00571
	14-Oct-21	0.00328



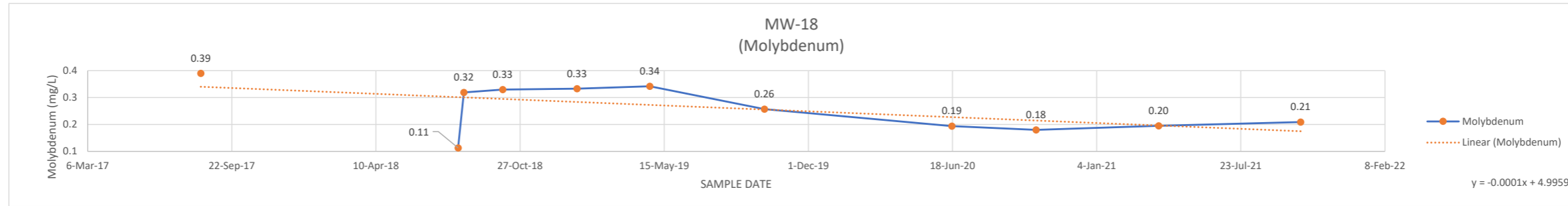
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

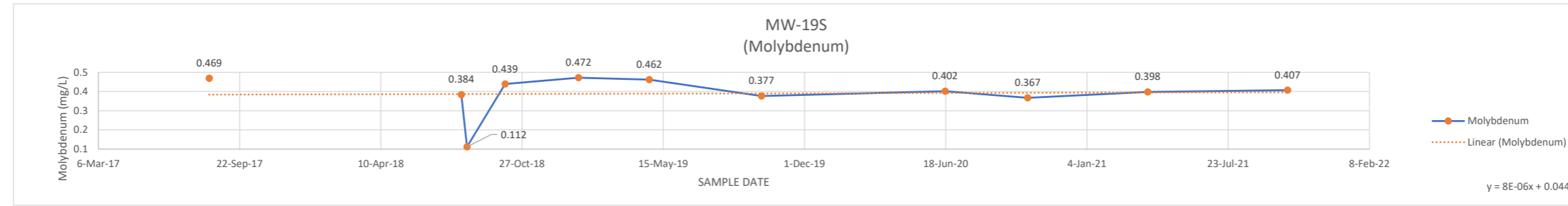
MW-16	MOLYBDENUM
DATE	
11-Aug-17	0.181
22-May-18	
1-Aug-18	0.145
10-Aug-18	0.154
2-Oct-18	0.169
16-Jan-19	0.18
23-Apr-19	0.193
3-Oct-19	0.149
18-Jun-20	0.172
13-Oct-20	0.149
1-Apr-21	0.166
14-Oct-21	0.163



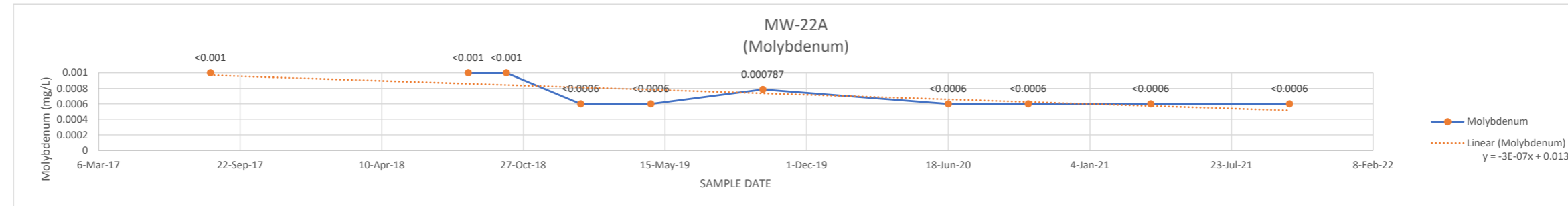
MW-18	MOLYBDENUM
DATE	
10-Aug-17	0.39
18-May-18	
2-Aug-18	0.113
10-Aug-18	0.319
3-Oct-18	0.33
14-Jan-19	0.333
25-Apr-19	0.342
1-Oct-19	0.257
17-Jun-20	0.194
12-Oct-20	0.18
31-Mar-21	0.195
14-Oct-21	0.209



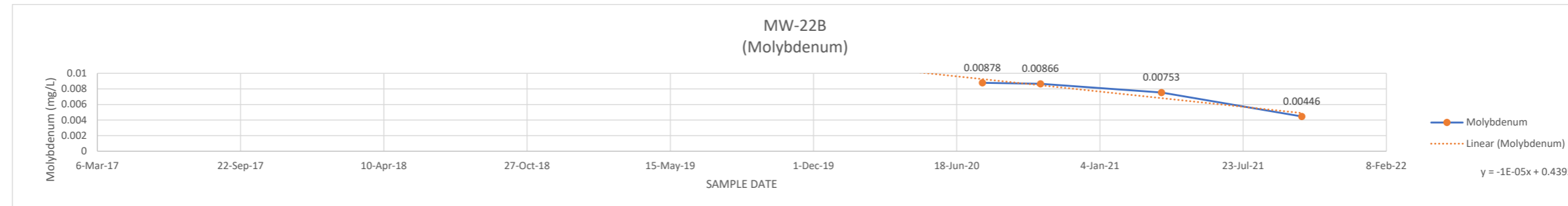
MW-19S	MOLYBDENUM
DATE	
10-Aug-17	0.469
18-May-18	
2-Aug-18	0.384
10-Aug-18	0.112
3-Oct-18	0.439
15-Jan-19	0.472
25-Apr-19	0.462
1-Oct-19	0.377
17-Jun-20	0.402
12-Oct-20	0.367
31-Mar-21	0.398
15-Oct-21	0.407



MW-22A	MOLYBDENUM
DATE	
11-Aug-17	0.001
22-May-18	
10-Aug-18	0.001
3-Oct-18	0.001
16-Jan-19	0.0006
25-Apr-19	0.0006
30-Sep-19	0.000787
18-Jun-20	0.0006
9-Oct-20	0.0006
31-Mar-21	0.0006
13-Oct-21	0.0006



MW-22B	MOLYBDENUM
DATE	
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.00878
13-Oct-20	0.00866
31-Mar-21	0.00753
13-Oct-21	0.00446

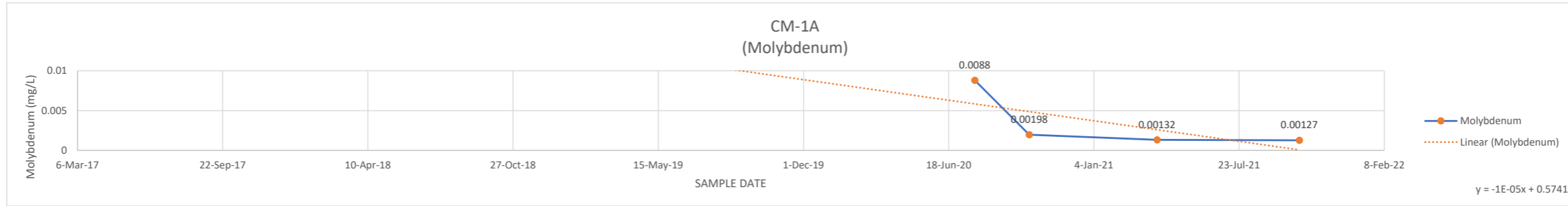


Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

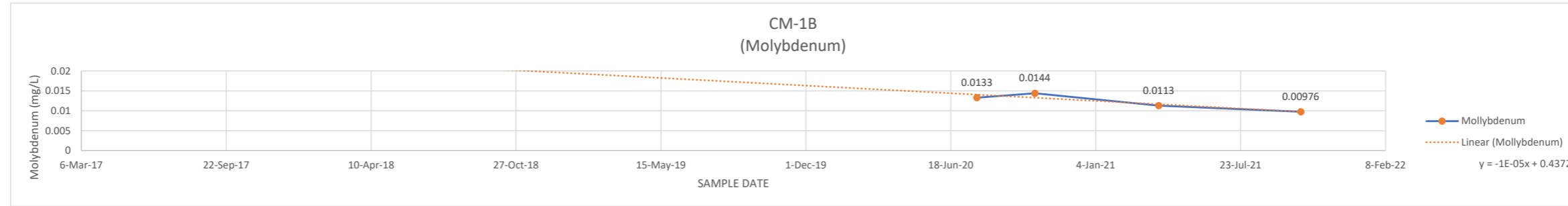
CM-1A
DATE
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
24-Jul-20
7-Oct-20
1-Apr-21
14-Oct-21

MOLYBDENUM



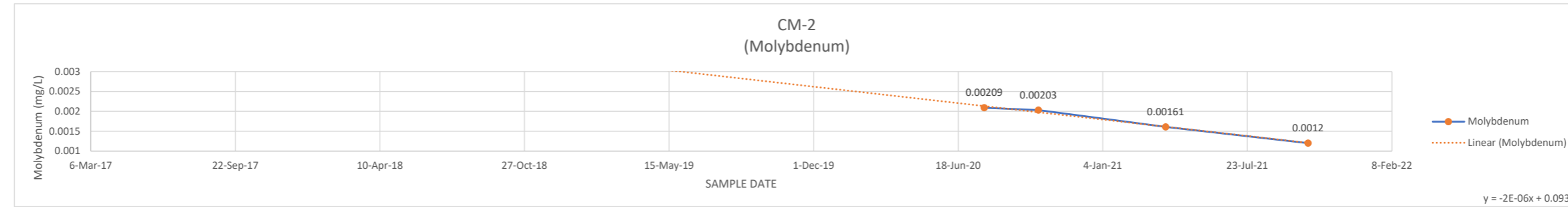
CM-1B
DATE
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
24-Jul-20
12-Oct-20
1-Apr-21
14-Oct-21

MOLYBDENUM



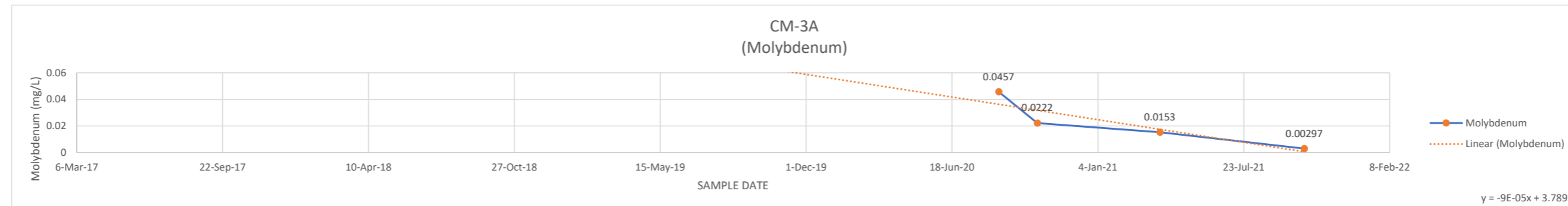
CM-2
DATE
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
24-Jul-20
7-Oct-20
1-Apr-21
15-Oct-21

MOLYBDENUM



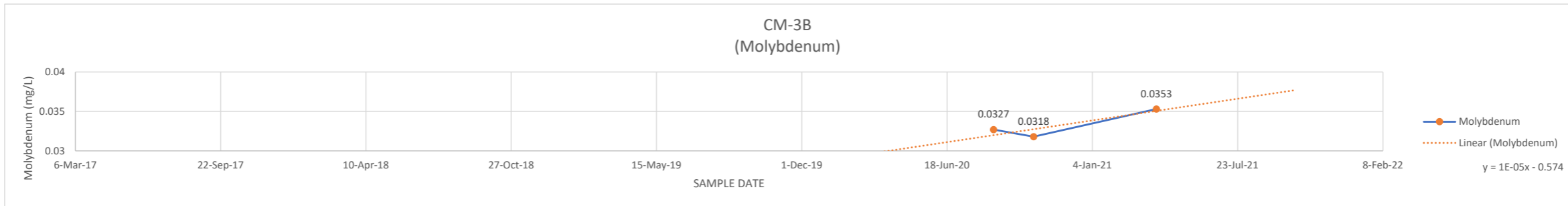
CM-3A
DATE
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
21-Aug-20
13-Oct-20
30-Mar-21
14-Oct-21

MOLYBDENUM



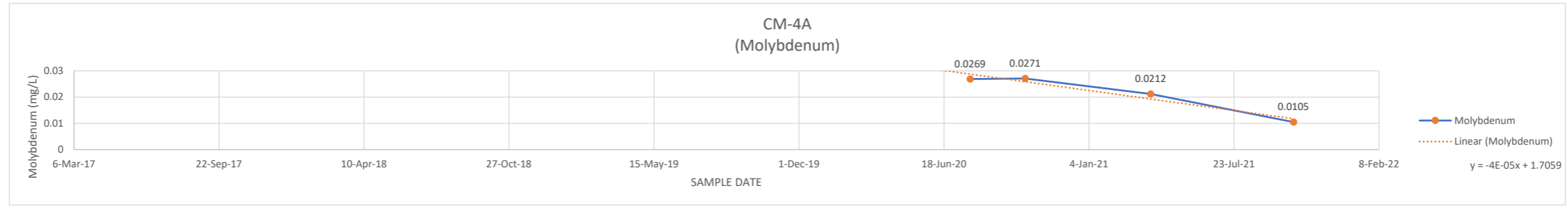
CM-3B
DATE
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
21-Aug-20
15-Oct-20
2-Apr-21
11-Oct-21

MOLYBDENUM

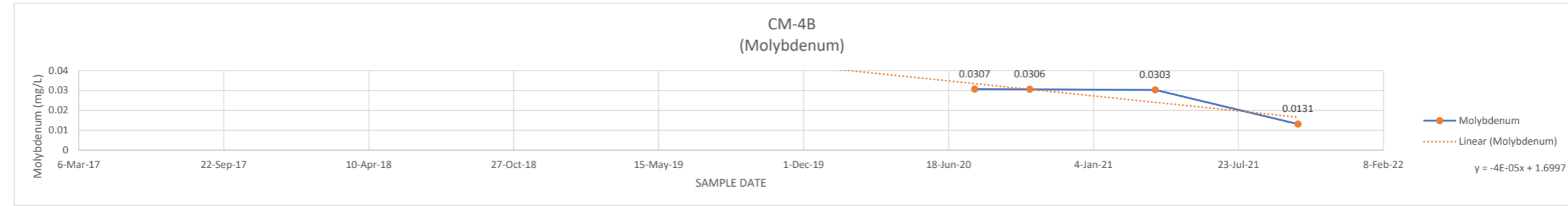


ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

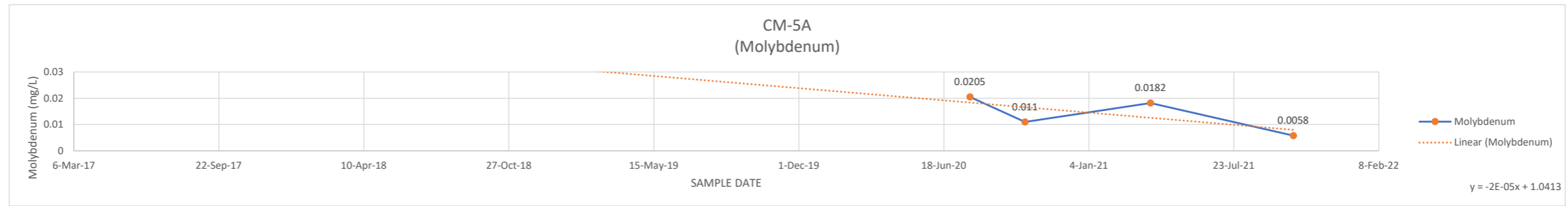
CM-4A DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0269
8-Oct-20	0.0271
30-Mar-21	0.0212
13-Oct-21	0.0105



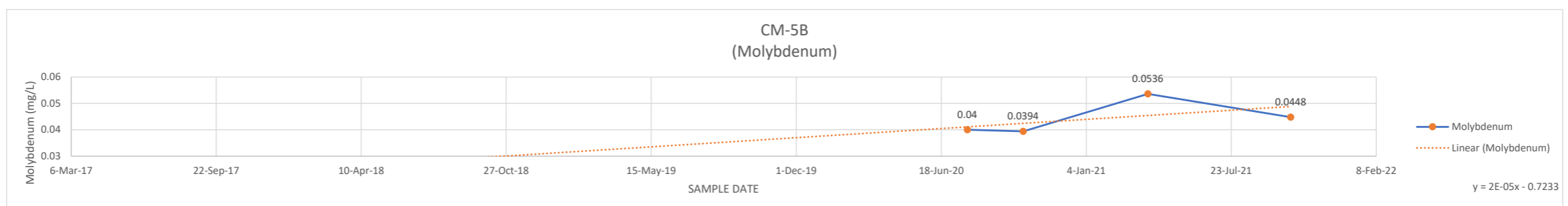
CM-4B DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0307
8-Oct-20	0.0306
30-Mar-21	0.0303
13-Oct-21	0.0131



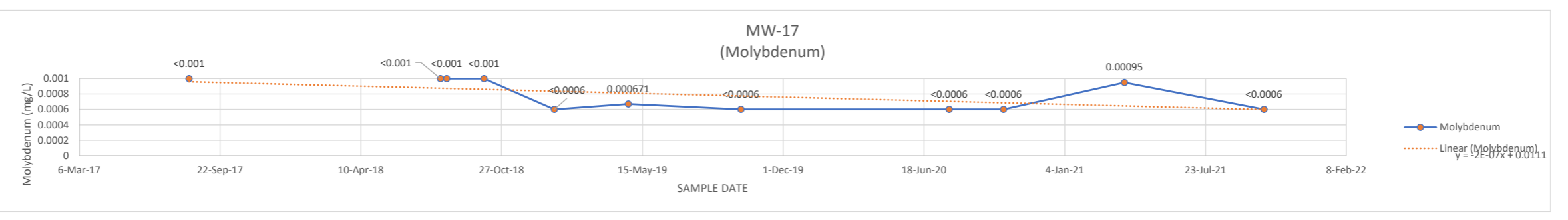
CM-5A DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0205
8-Oct-20	0.011
30-Mar-21	0.0182
13-Oct-21	0.0058



CM-5B DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.04
9-Oct-20	0.0394
30-Mar-21	0.0536
13-Oct-21	0.0448



MW-17 DATE	MOLYBDENUM
9-Aug-17	0.001
24-May-18	
1-Aug-18	0.001
10-Aug-18	0.001
2-Oct-18	0.001
10-Jan-19	0.0006
25-Apr-19	0.000671
2-Oct-19	0.0006
24-Jul-20	0.0006
9-Oct-20	0.0006
30-Mar-21	0.00095
14-Oct-21	0.0006



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT E

COMPARISON OF CHANGES IN MEAN CONCENTRATION FOR MOLOYBDENUM

ATTACHMENT E
 COMPARISON OF CHANGES IN MEAN CONCENTRATION FOR MOLYBDENUM
 (MEAN OVER INITIAL SAMPLING VRS MEAN OVER LAST FOUR SAMPLINGS)

	MEAN MOLYBDENUM CONCENTRATION (AUGUST 2017 THROUGH OCTOBER 2019) ^{1, 2}	MEAN MOLYBDENUM CONCENTRATION (JUNE 2020 THROUGH OCTOBER 2021)	PERCENT DIFFERENCE
MW-5S	0.004904286	0.003065	-38
MW-7S	0.002397143	0.00100375	-58
MW-14A	0.003811286	0.00064	-83
MW-15A	0.213142857	0.18825	-12
MW-15B	NOT APPLICABLE	0.0071625	Not Applicable
MW-16	0.167285714	0.1625	-3
MW-17	0.000838714	0.0006875	-18
MW-18	0.297714286	0.1945	-35
MW-19S	0.387857143	0.3935	1
MW-22A	0.000831167	0.0006	-28
MW-22B	NOT APPLICABLE	0.007358	Not Applicable
CM-1A	NOT APPLICABLE	0.0033425	Not Applicable
CM-1B	NOT APPLICABLE	0.01219	Not Applicable
CM-2	NOT APPLICABLE	0.0017325	Not Applicable
CM-3A	NOT APPLICABLE	0.0215425	Not Applicable
CM-3B	NOT APPLICABLE	0.033266667	Not Applicable
CM-4A	NOT APPLICABLE	0.021425	Not Applicable
CM-4B	NOT APPLICABLE	0.026175	Not Applicable
CM-5A	NOT APPLICABLE	0.013875	Not Applicable
CM-5B	NOT APPLICABLE	0.04445	Not Applicable

1) Mean Molybdenum Concentration (August 2017 through October 2019) is based on seven sampling events for MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-17, MW-18, and MW-19S. It is based on six sampling events for MW-22A.

2) MW-15B, MW-22B, CM-1A, CM-1B, CM-2, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B were not sampled for Molybdenum until June 2020

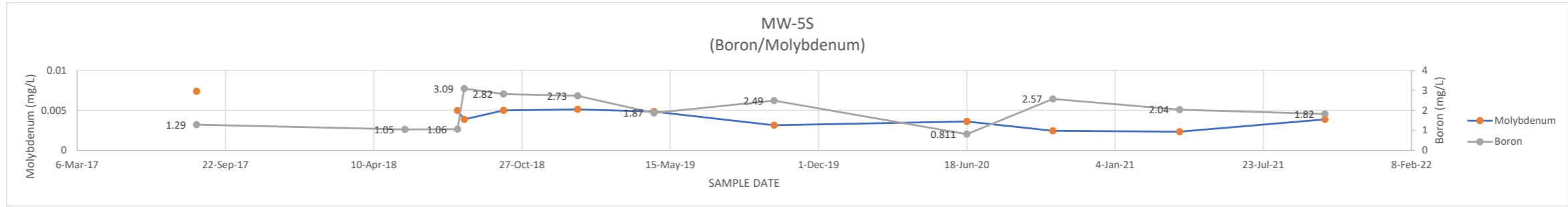
ATTACHMENT F

CHANGES IN CONCENTRATION OF CCR APPENDIX III PARAMETERS COMPARED TO CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

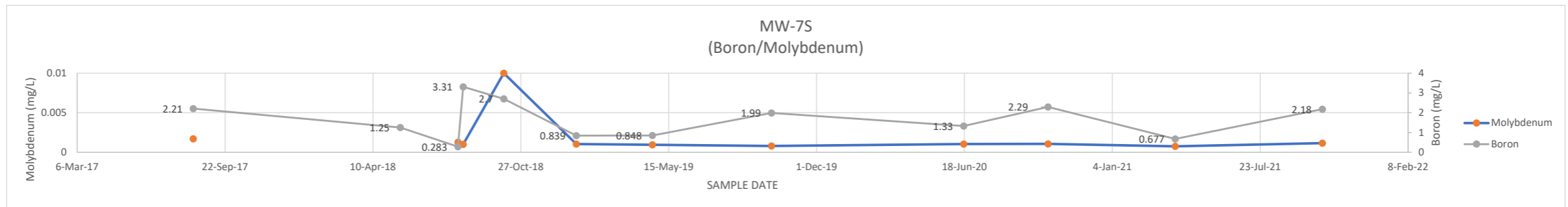
- F-1: CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS
- F-2: CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS
- F-3A: CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS
- F-3B: CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS
- F-4: CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS
- F-5: CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS
- F-6: CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS
- F-7: CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

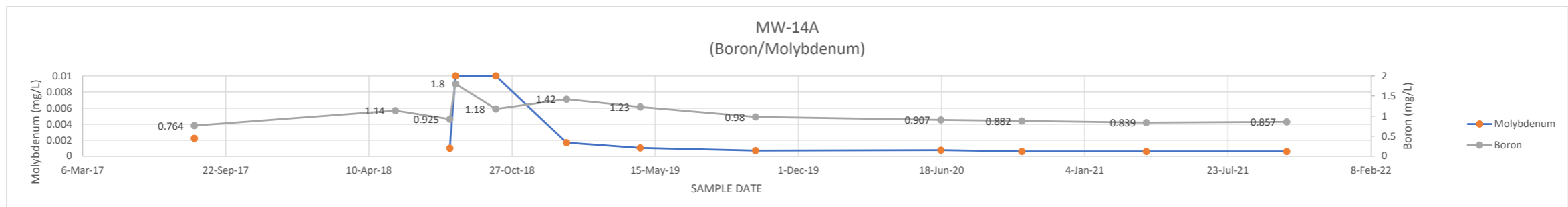
MW-5S DATE	BORON	MOLYBDENUM
14-Aug-17	1.29	0.00737
22-May-18	1.05	
1-Aug-18	1.06	0.00497
10-Aug-18	3.09	0.00387
2-Oct-18	2.82	0.005
10-Jan-19	2.73	0.00512
23-Apr-19	1.87	0.00485
2-Oct-19	2.49	0.00315
18-Jun-20	0.811	0.00361
12-Oct-20	2.57	0.00244
1-Apr-21	2.04	0.00234
14-Oct-21	1.82	0.00387



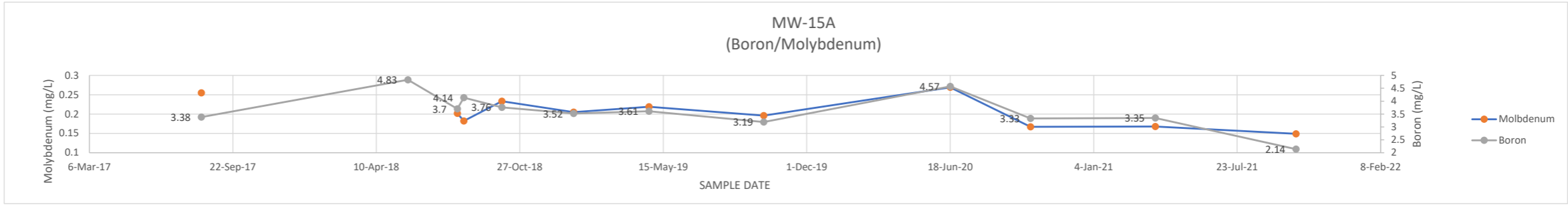
MW-7S DATE	BORON	MOLYBDENUM
10-Aug-17	2.21	0.00171
17-May-18	1.25	
3-Aug-18	0.283	0.00127
10-Aug-18	3.31	0.001
4-Oct-18	2.7	0.01
10-Jan-19	0.839	0.00105
23-Apr-19	0.848	0.000952
1-Oct-19	1.99	0.000798
17-Jun-20	1.33	0.00105
9-Oct-20	2.29	0.00106
30-Mar-21	0.677	0.000755
15-Oct-21	2.18	0.00115



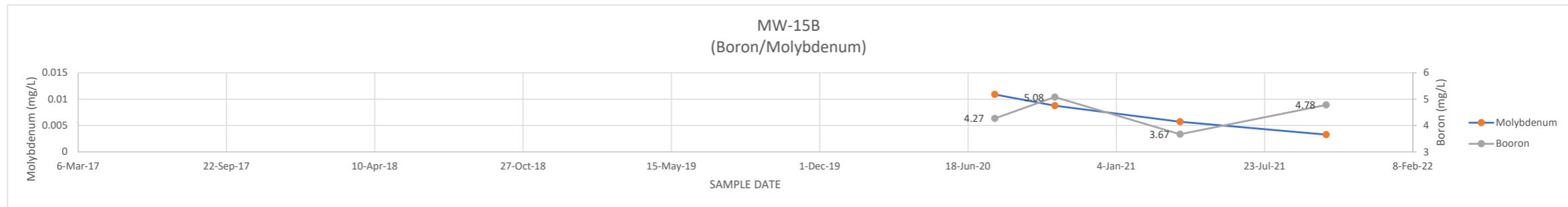
MW-14A DATE	BORON	MOLYBDENUM
9-Aug-17	0.764	0.00223
17-May-18	1.14	
1-Aug-18	0.925	0.001
9-Aug-18	1.8	0.01
4-Oct-18	1.18	0.01
11-Jan-19	1.42	0.0017
24-Apr-19	1.23	0.00104
2-Oct-19	0.98	0.000709
17-Jun-20	0.907	0.00076
8-Oct-20	0.882	0.0006
31-Mar-21	0.839	0.0006
13-Oct-21	0.857	0.0006



MW-15A DATE	BORON	MOLYBDENUM
9-Aug-17	3.38	0.255
24-May-18	4.83	
1-Aug-18	3.7	0.202
10-Aug-18	4.14	0.182
2-Oct-18	3.76	0.233
10-Jan-19	3.52	0.205
25-Apr-19	3.61	0.219
2-Oct-19	3.19	0.196
18-Jun-20	4.57	0.269
8-Oct-20	3.33	0.167
31-Mar-21	3.35	0.168
13-Oct-21	2.14	0.149



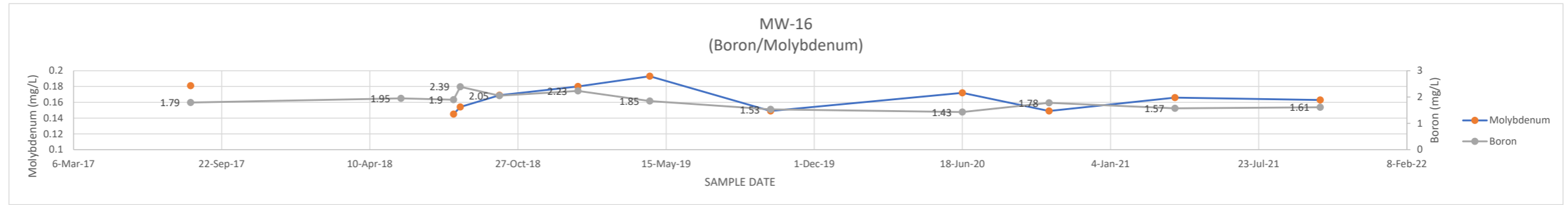
MW-15B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4.27	0.0109
13-Oct-20	5.08	0.00876
31-Mar-21	3.67	0.00571
14-Oct-21	4.78	0.00328



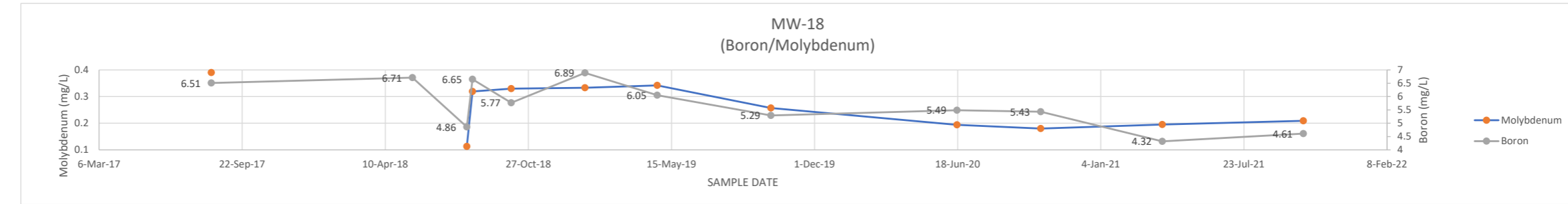
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

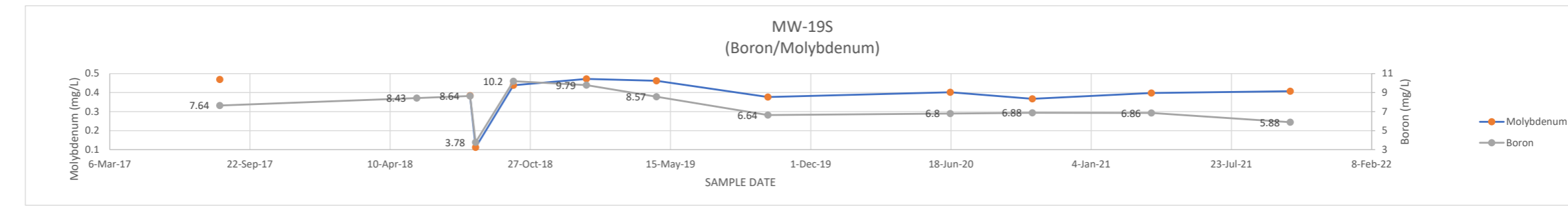
MW-16	BORON	MOLYBDENUM
DATE		
11-Aug-17	1.79	0.181
22-May-18	1.95	
1-Aug-18	1.9	0.145
10-Aug-18	2.39	0.154
2-Oct-18	2.05	0.169
16-Jan-19	2.23	0.18
23-Apr-19	1.85	0.193
3-Oct-19	1.53	0.149
18-Jun-20	1.43	0.172
13-Oct-20	1.78	0.149
1-Apr-21	1.57	0.166
14-Oct-21	1.61	0.163



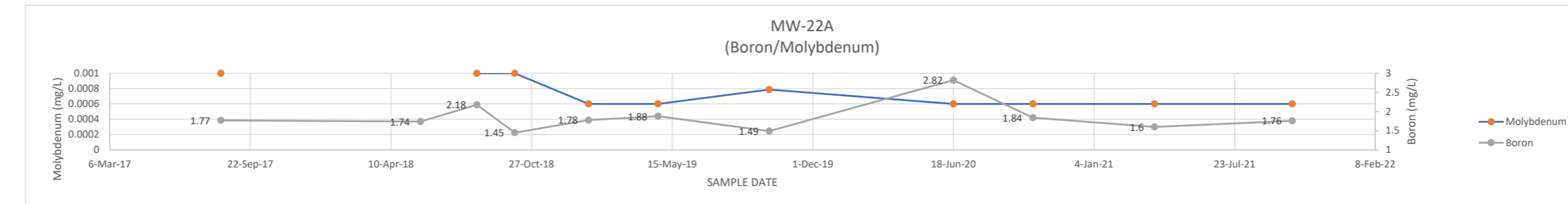
MW-18	BORON	MOLYBDENUM
DATE		
10-Aug-17	6.51	0.39
18-May-18	6.71	
2-Aug-18	4.86	0.113
10-Aug-18	6.65	0.319
3-Oct-18	5.77	0.33
14-Jan-19	6.89	0.333
25-Apr-19	6.05	0.342
1-Oct-19	5.29	0.257
17-Jun-20	5.49	0.194
12-Oct-20	5.43	0.18
31-Mar-21	4.32	0.195
14-Oct-21	4.61	0.209



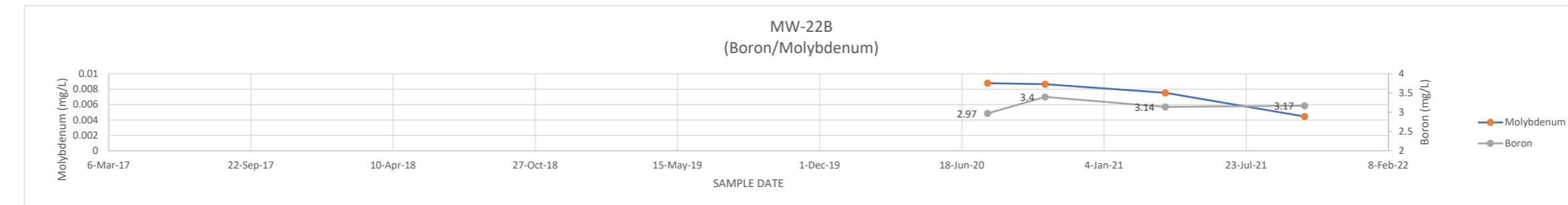
MW-19S	BORON	MOLYBDENUM
DATE		
10-Aug-17	7.64	0.469
18-May-18	8.43	
2-Aug-18	8.64	0.384
10-Aug-18	3.78	0.112
3-Oct-18	10.2	0.439
15-Jan-19	9.79	0.472
25-Apr-19	8.57	0.462
1-Oct-19	6.64	0.377
17-Jun-20	6.8	0.402
12-Oct-20	6.88	0.367
31-Mar-21	6.86	0.398
15-Oct-21	5.88	0.407



MW-22A	BORON	MOLYBDENUM
DATE		
11-Aug-17	1.77	0.001
22-May-18	1.74	
10-Aug-18	2.18	0.001
3-Oct-18	1.45	0.001
16-Jan-19	1.78	0.0006
25-Apr-19	1.88	0.0006
30-Sep-19	1.49	0.000787
18-Jun-20	2.82	0.0006
9-Oct-20	1.84	0.0006
31-Mar-21	1.6	0.0006
13-Oct-21	1.76	0.0006



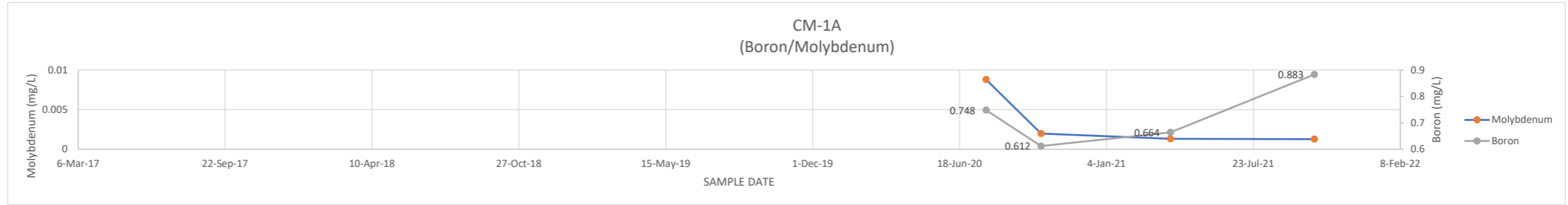
MW-22B	BORON	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2.97	0.00878
13-Oct-20	3.4	0.00866
31-Mar-21	3.14	0.00753
13-Oct-21	3.17	0.00446



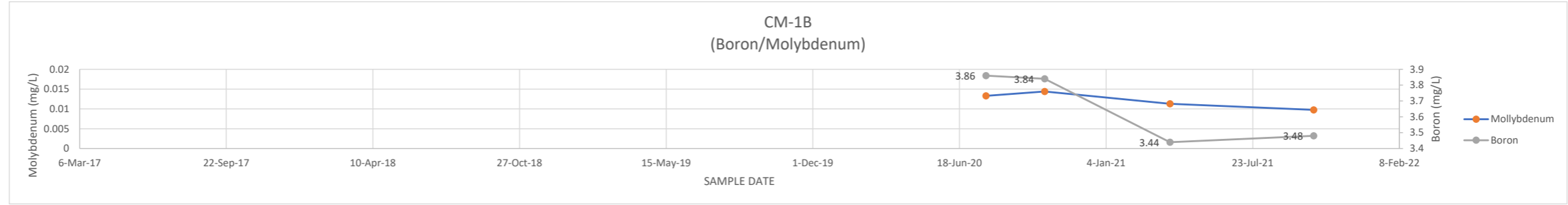
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

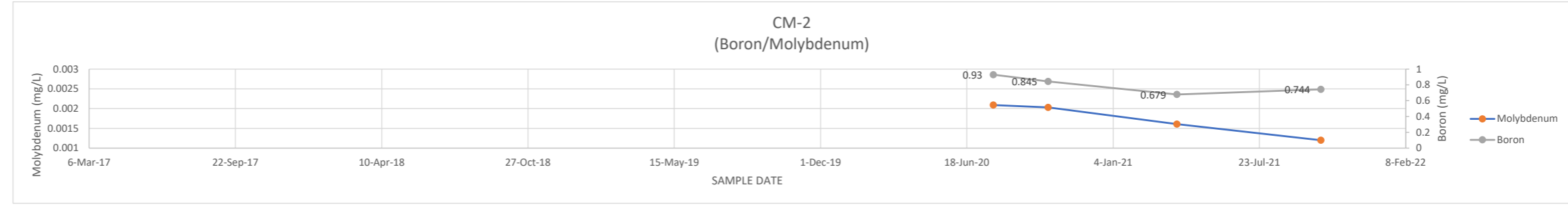
CM-1A DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.748	0.0088
7-Oct-20	0.612	0.00198
1-Apr-21	0.664	0.00132
14-Oct-21	0.883	0.00127



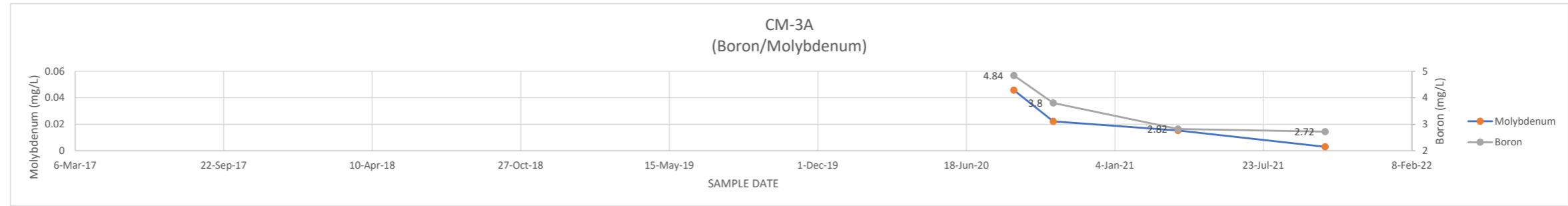
CM-1B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.86	0.0133
12-Oct-20	3.84	0.0144
1-Apr-21	3.44	0.0113
14-Oct-21	3.48	0.00976



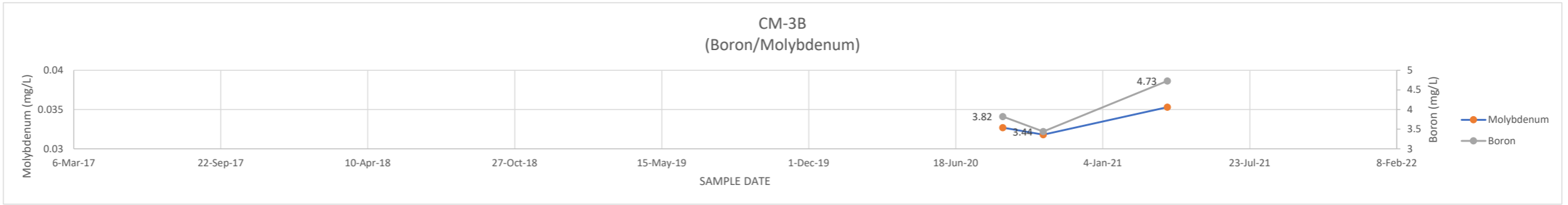
CM-2 DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.93	0.00209
7-Oct-20	0.845	0.00203
1-Apr-21	0.679	0.00161
15-Oct-21	0.744	0.0012



CM-3A DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	4.84	0.0457
13-Oct-20	3.8	0.0222
30-Mar-21	2.82	0.0153
14-Oct-21	2.72	0.00297

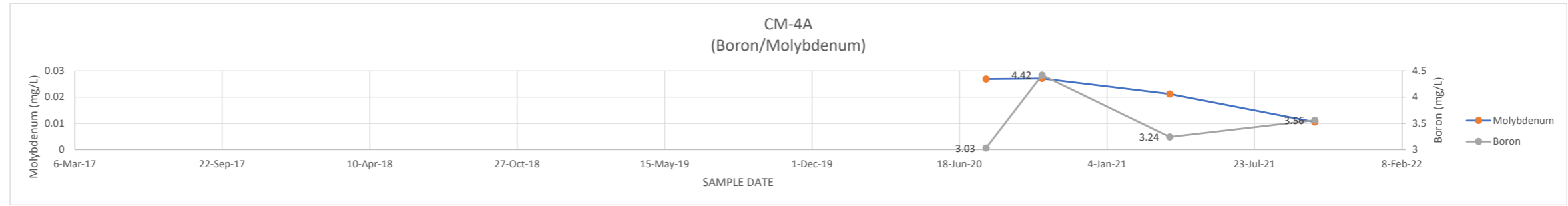


CM-3B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	3.82	0.0327
15-Oct-20	3.44	0.0318
2-Apr-21	4.73	0.0353
11-Oct-21		

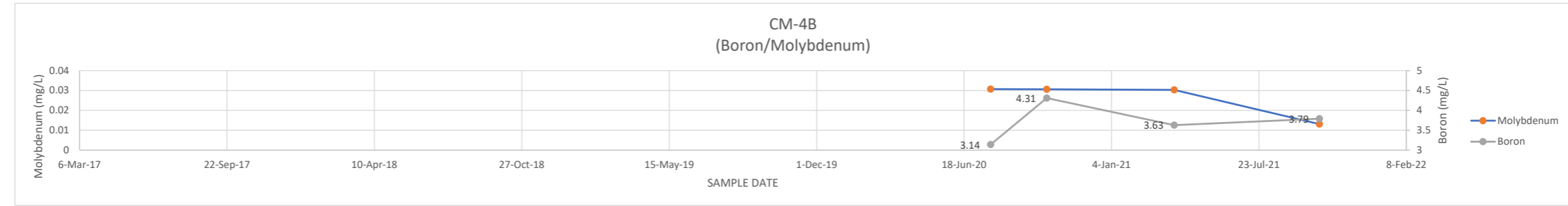


ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

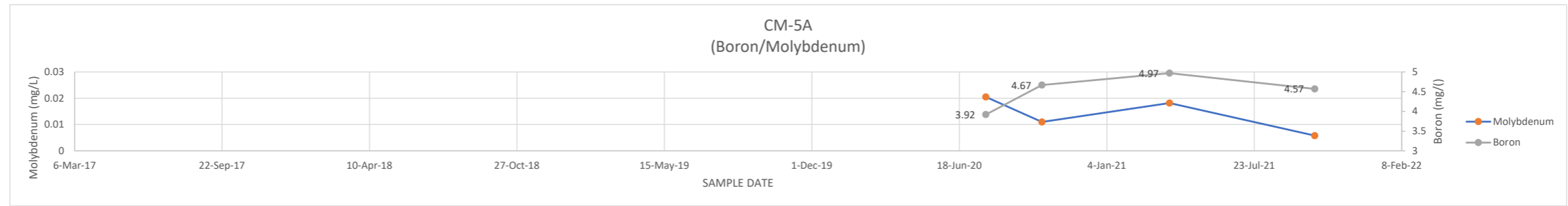
CM-4A DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.03	0.0269
8-Oct-20	4.42	0.0271
30-Mar-21	3.24	0.0212
13-Oct-21	3.56	0.0105



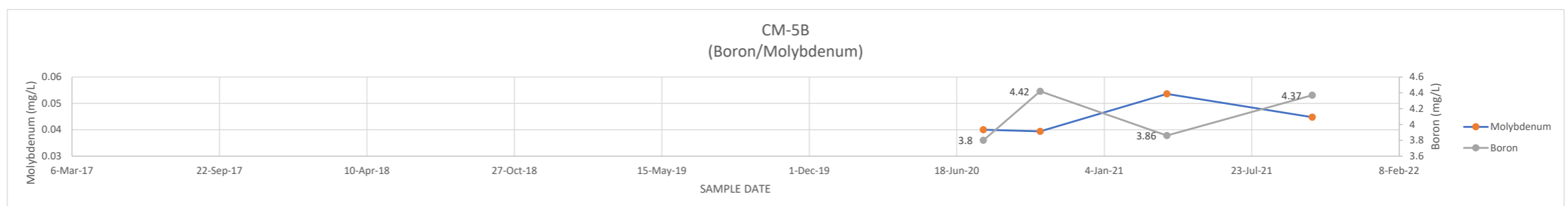
CM-4B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.14	0.0307
8-Oct-20	4.31	0.0306
30-Mar-21	3.63	0.0303
13-Oct-21	3.79	0.0131



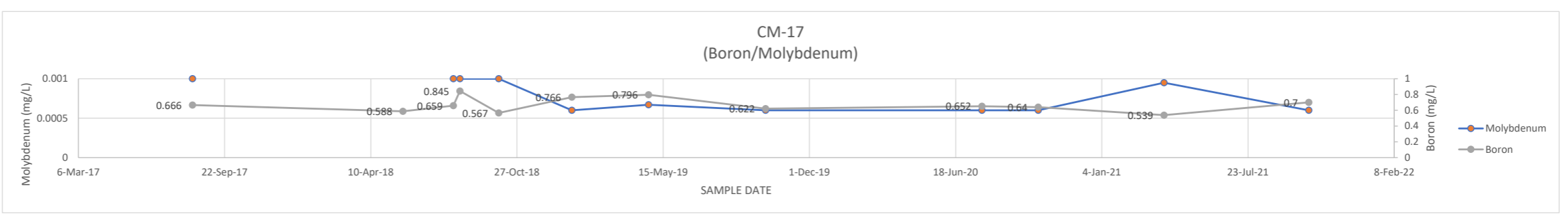
CM-5A DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.92	0.0205
8-Oct-20	4.67	0.011
30-Mar-21	4.97	0.0182
13-Oct-21	4.57	0.0058



CM-5B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.8	0.04
9-Oct-20	4.42	0.0394
30-Mar-21	3.86	0.0536
13-Oct-21	4.37	0.0448



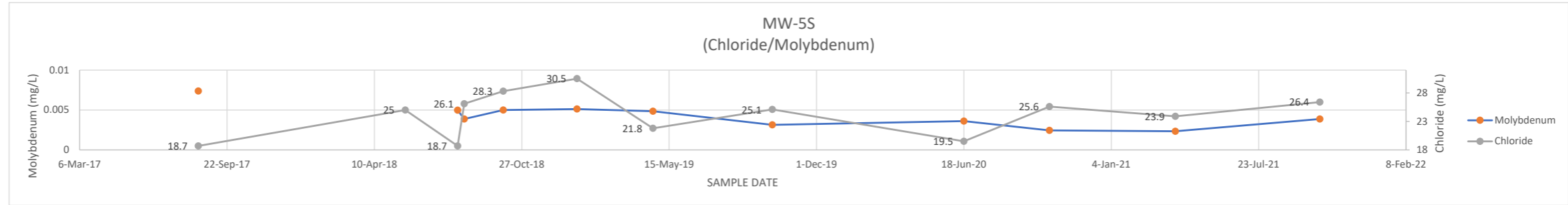
MW-17 DATE	BORON	MOLYBDENUM
9-Aug-17	0.666	0.001
24-May-18	0.588	
1-Aug-18	0.659	0.001
10-Aug-18	0.845	0.001
2-Oct-18	0.567	0.001
10-Jan-19	0.766	0.0006
25-Apr-19	0.796	0.000671
2-Oct-19	0.622	0.0006
24-Jul-20	0.652	0.0006
9-Oct-20	0.64	0.0006
30-Mar-21	0.539	0.00095
14-Oct-21	0.7	0.0006



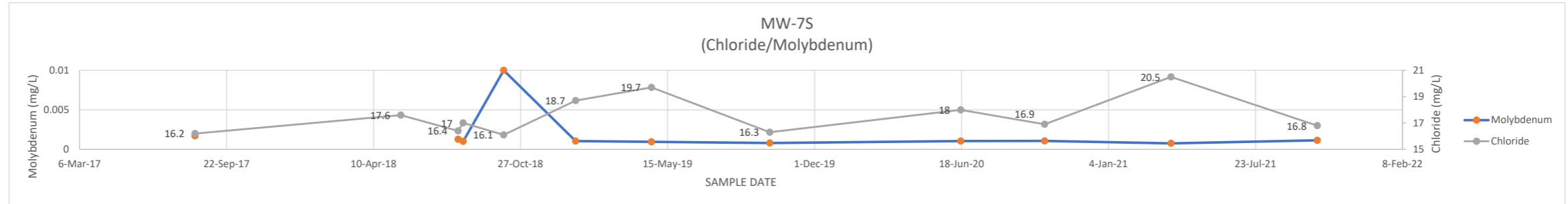
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

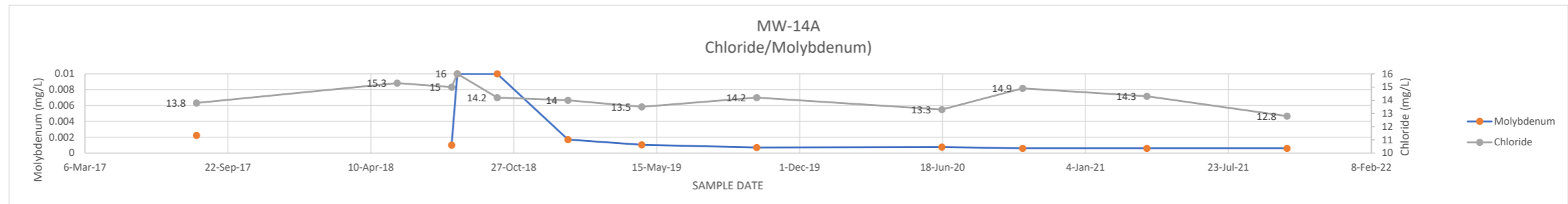
MW-5S	DATE	CHLORIDE	MOLYBDENUM
14-Aug-17	18.7	0.00737	
22-May-18	25		
1-Aug-18	18.7	0.00497	
10-Aug-18	26.1	0.00387	
2-Oct-18	28.3	0.005	
10-Jan-19	30.5	0.00512	
23-Apr-19	21.8	0.00485	
2-Oct-19	25.1	0.00315	
18-Jun-20	19.5	0.00361	
12-Oct-20	25.6	0.00244	
1-Apr-21	23.9	0.00234	
14-Oct-21	26.4	0.00387	



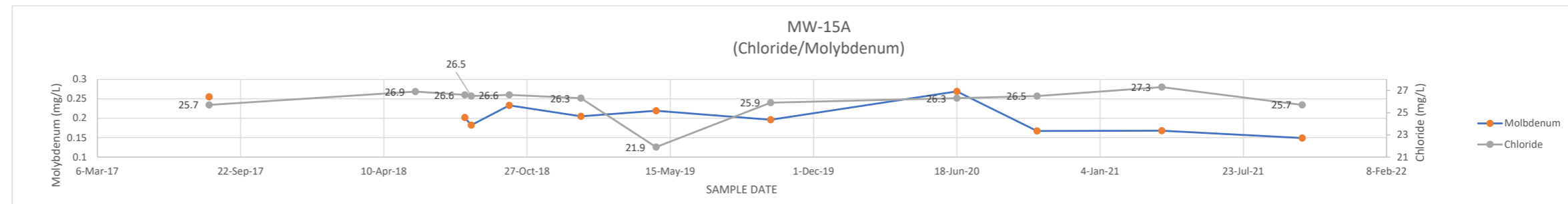
MW-7S	DATE	CHLORIDE	MOLYBDENUM
10-Aug-17	16.2	0.00171	
17-May-18	17.6		
3-Aug-18	16.4	0.00127	
10-Aug-18	17	0.001	
4-Oct-18	16.1	0.01	
10-Jan-19	18.7	0.00105	
23-Apr-19	19.7	0.000952	
1-Oct-19	16.3	0.000798	
17-Jun-20	18	0.00105	
9-Oct-20	16.9	0.00106	
30-Mar-21	20.5	0.000755	
15-Oct-21	16.8	0.00115	



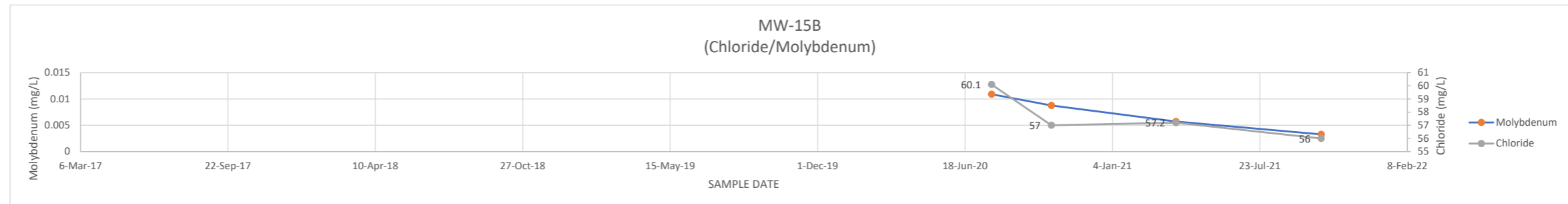
MW-14A	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17	13.8	0.00223	
17-May-18	15.3		
1-Aug-18	15	0.001	
9-Aug-18	16	0.01	
4-Oct-18	14.2	0.01	
11-Jan-19	14	0.0017	
24-Apr-19	13.5	0.00104	
2-Oct-19	14.2	0.000709	
17-Jun-20	13.3	0.00076	
8-Oct-20	14.9	0.0006	
31-Mar-21	14.3	0.0006	
13-Oct-21	12.8	0.0006	



MW-15A	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17	25.7	0.255	
24-May-18	26.9		
1-Aug-18	26.6	0.202	
10-Aug-18	26.5	0.182	
2-Oct-18	26.6	0.233	
10-Jan-19	26.3	0.205	
25-Apr-19	21.9	0.219	
2-Oct-19	25.9	0.196	
18-Jun-20	26.3	0.269	
8-Oct-20	26.5	0.167	
31-Mar-21	27.3	0.168	
13-Oct-21	25.7	0.149	



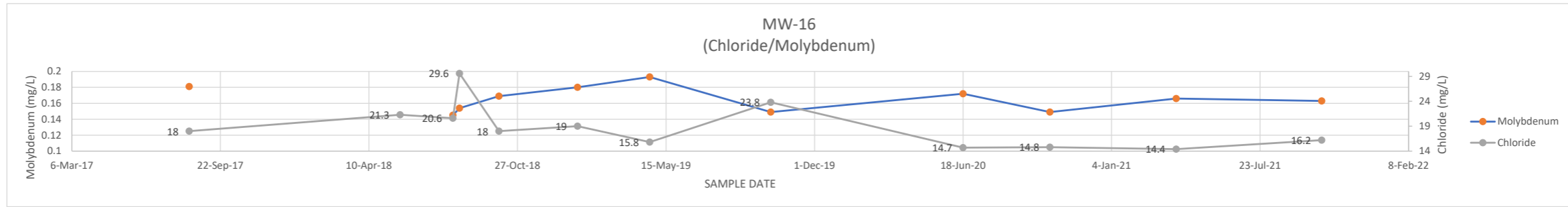
MW-15B	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	60.1	0.0109	
13-Oct-20	57	0.00876	
31-Mar-21	57.2	0.00571	
14-Oct-21	56	0.00328	



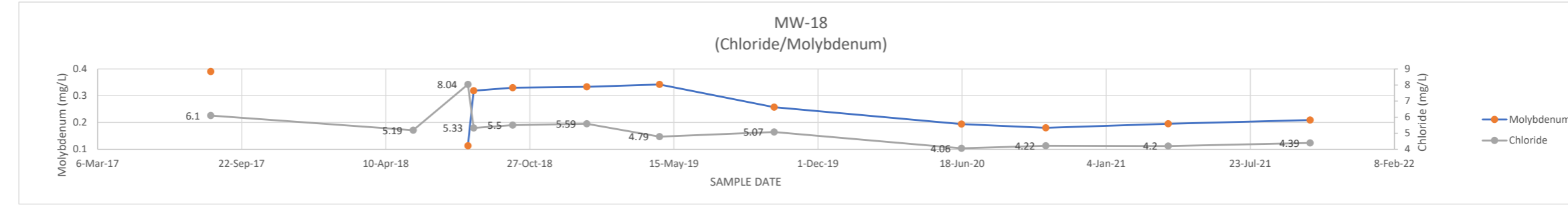
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

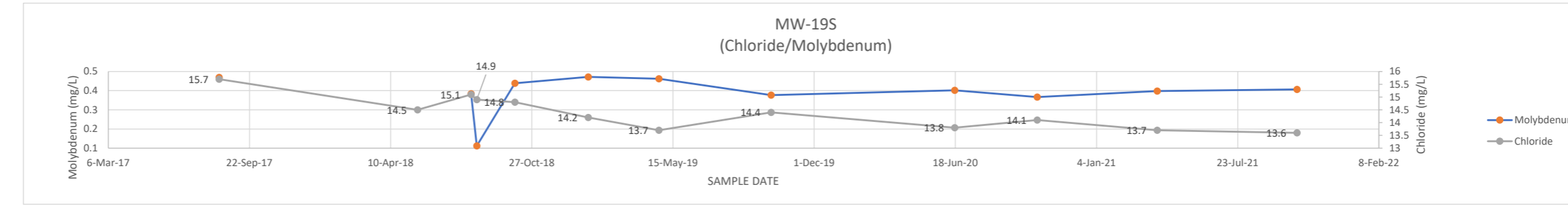
MW-16	DATE	CHLORIDE	MOLYBDENUM
11-Aug-17	18	0.181	
22-May-18	21.3		
1-Aug-18	20.6	0.145	
10-Aug-18	29.6	0.154	
2-Oct-18	18	0.169	
16-Jan-19	19	0.18	
23-Apr-19	15.8	0.193	
3-Oct-19	23.8	0.149	
18-Jun-20	14.7	0.172	
13-Oct-20	14.8	0.149	
1-Apr-21	14.4	0.166	
14-Oct-21	16.2	0.163	



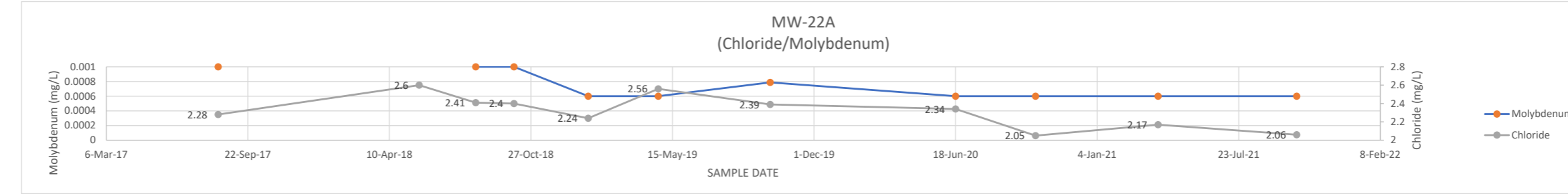
MW-18	DATE	CHLORIDE	MOLYBDENUM
10-Aug-17	6.1	0.39	
18-May-18	5.19		
2-Aug-18	8.04	0.113	
10-Aug-18	5.33	0.319	
3-Oct-18	5.5	0.33	
14-Jan-19	5.59	0.333	
25-Apr-19	4.79	0.342	
1-Oct-19	5.07	0.257	
17-Jun-20	4.06	0.194	
12-Oct-20	4.22	0.18	
31-Mar-21	4.2	0.195	
14-Oct-21	4.39	0.209	



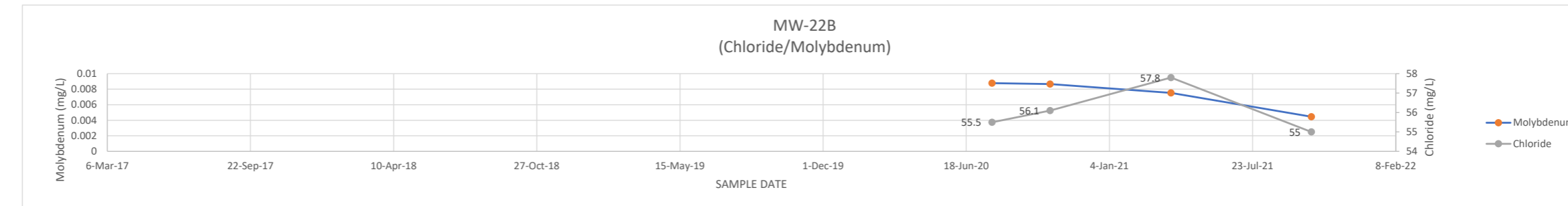
MW-19S	DATE	CHLORIDE	MOLYBDENUM
10-Aug-17	15.7	0.469	
18-May-18	14.5		
2-Aug-18	15.1	0.384	
10-Aug-18	14.9	0.112	
3-Oct-18	14.8	0.439	
15-Jan-19	14.2	0.472	
25-Apr-19	13.7	0.462	
1-Oct-19	14.4	0.377	
17-Jun-20	13.8	0.402	
12-Oct-20	14.1	0.367	
31-Mar-21	13.7	0.398	
15-Oct-21	13.6	0.407	



MW-22A	DATE	CHLORIDE	MOLYBDENUM
11-Aug-17	2.28	0.001	
22-May-18	2.6		
10-Aug-18	2.41	0.001	
3-Oct-18	2.4	0.001	
16-Jan-19	2.24	0.0006	
25-Apr-19	2.56	0.0006	
30-Sep-19	2.39	0.000787	
18-Jun-20	2.34	0.0006	
9-Oct-20	2.05	0.0006	
31-Mar-21	2.17	0.0006	
13-Oct-21	2.06	0.0006	



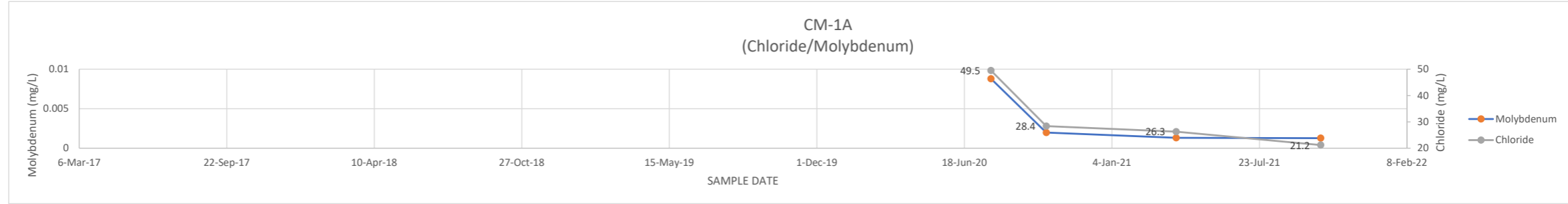
MW-22B	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	55.5	0.00878	
13-Oct-20	56.1	0.00866	
31-Mar-21	57.8	0.00753	
13-Oct-21	55	0.00446	



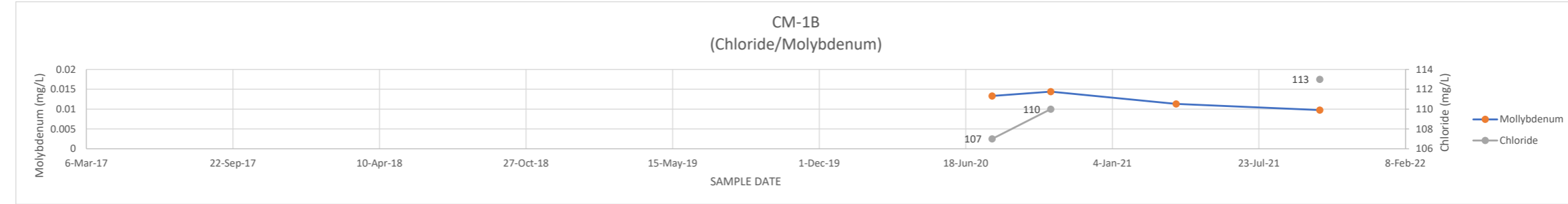
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

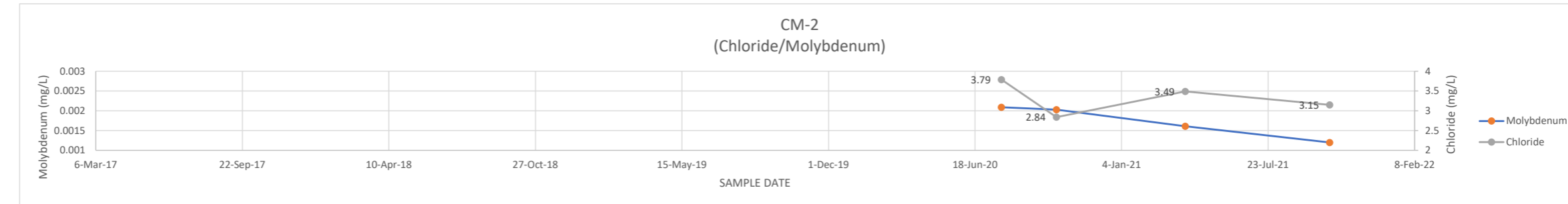
CM-1A DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	49.5	0.0088
7-Oct-20	28.4	0.00198
1-Apr-21	26.3	0.00132
14-Oct-21	21.2	0.00127



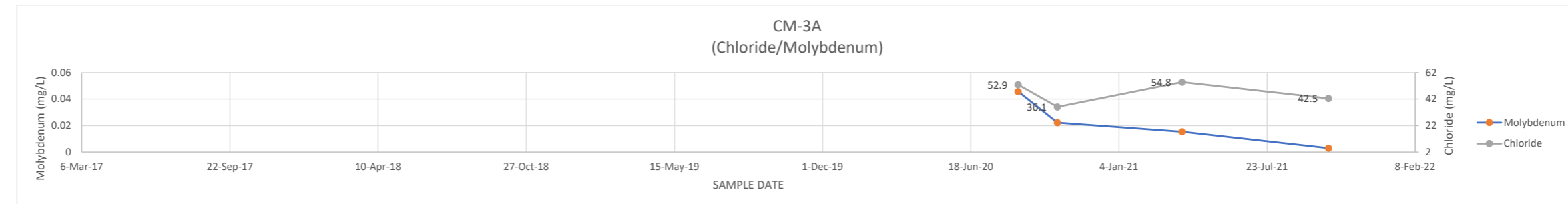
CM-1B DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	107	0.0133
12-Oct-20	110	0.0144
1-Apr-21		0.0113
14-Oct-21	113	0.00976



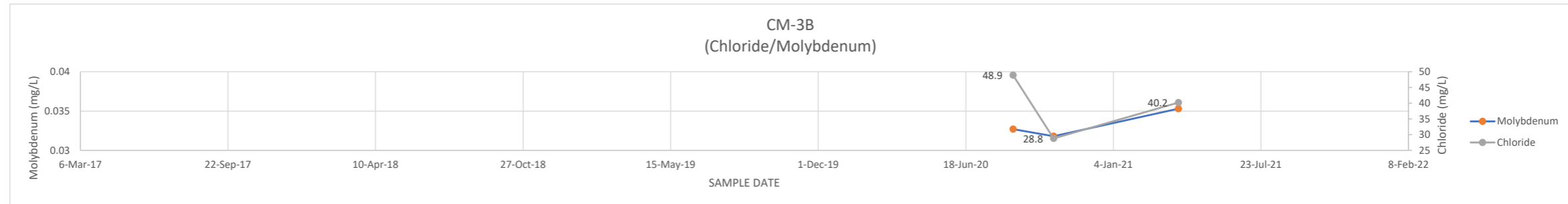
CM-2 DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.79	0.00209
7-Oct-20	2.84	0.00203
1-Apr-21	3.49	0.00161
15-Oct-21	3.15	0.0012



CM-3A DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	52.9	0.0457
13-Oct-20	36.1	0.0222
30-Mar-21	54.8	0.0153
14-Oct-21	42.5	0.00297

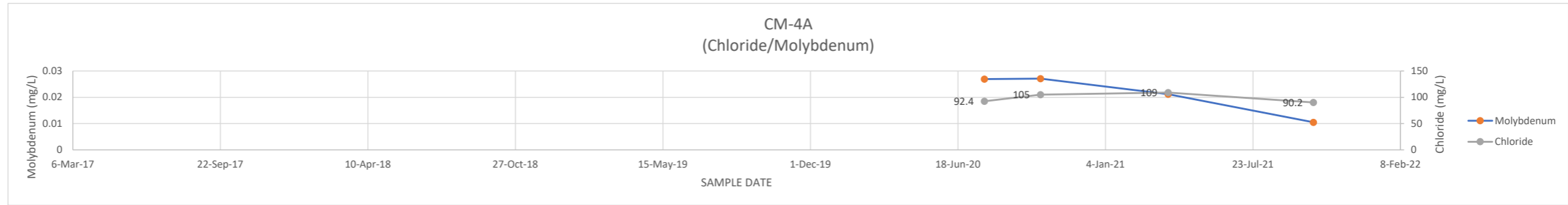


CM-3B DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	48.9	0.0327
15-Oct-20	28.8	0.0318
2-Apr-21	40.2	0.0353
11-Oct-21		

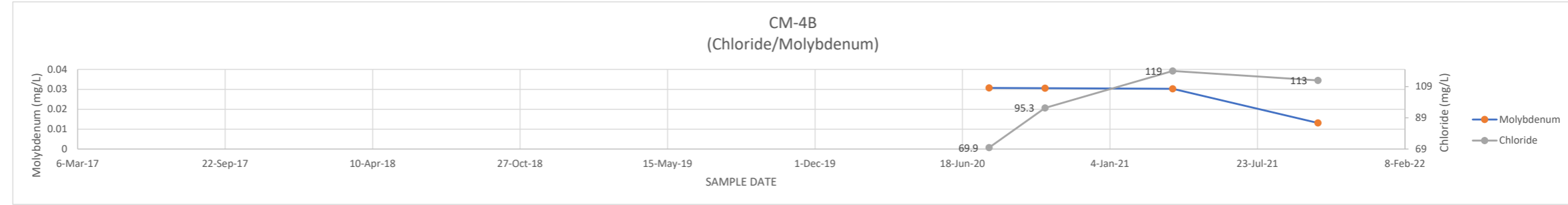


ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

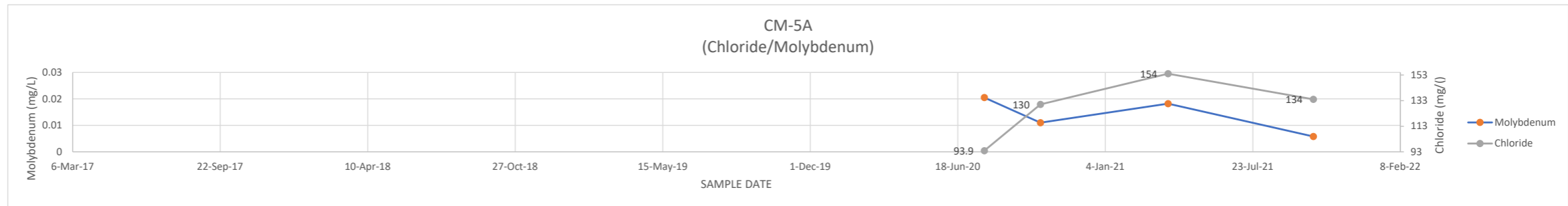
CM-4A DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	92.4	0.0269
8-Oct-20	105	0.0271
30-Mar-21	109	0.0212
13-Oct-21	90.2	0.0105



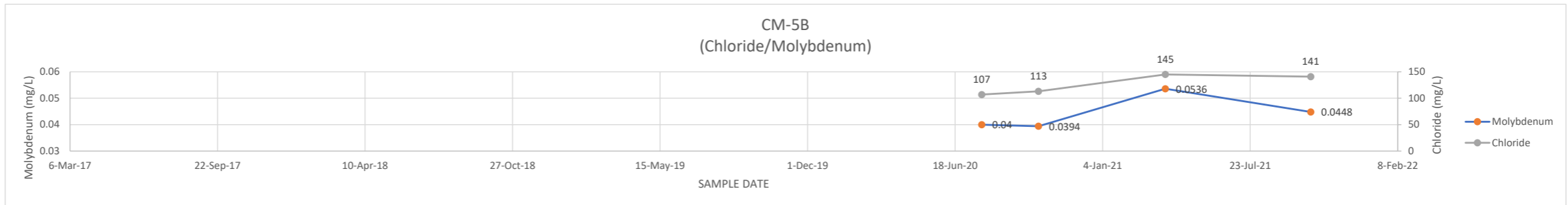
CM-4B DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	69.9	0.0307
8-Oct-20	95.3	0.0306
30-Mar-21	119	0.0303
13-Oct-21	113	0.0131



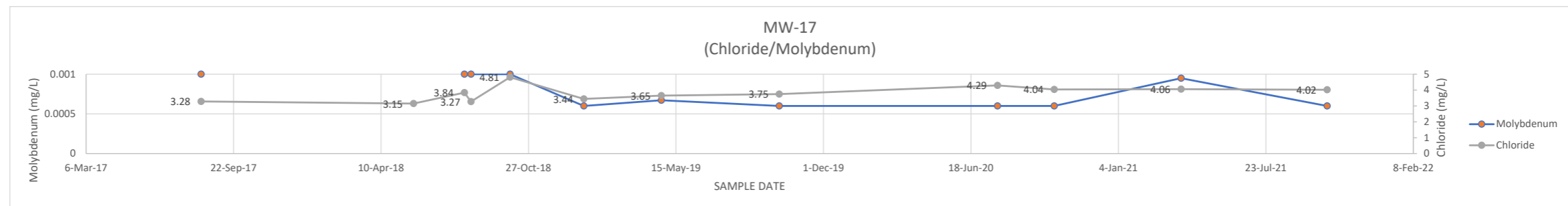
CM-5A DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	93.9	0.0205
8-Oct-20	130	0.011
30-Mar-21	154	0.0182
13-Oct-21	134	0.0058



CM-5B DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	107	0.04
9-Oct-20	113	0.0394
30-Mar-21	145	0.0536
13-Oct-21	141	0.0448



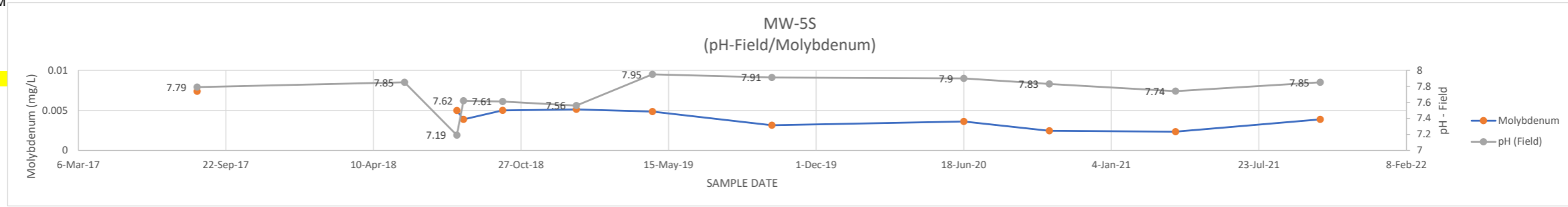
MW-17 DATE	CHLORIDE	MOLYBDENUM
9-Aug-17	3.28	0.001
24-May-18	3.15	
1-Aug-18	3.84	0.001
10-Aug-18	3.27	0.001
2-Oct-18	4.81	0.001
10-Jan-19	3.44	0.0006
25-Apr-19	3.65	0.000671
2-Oct-19	3.75	0.0006
24-Jul-20	4.29	0.0006
9-Oct-20	4.04	0.0006
30-Mar-21	4.06	0.00095
14-Oct-21	4.02	0.0006



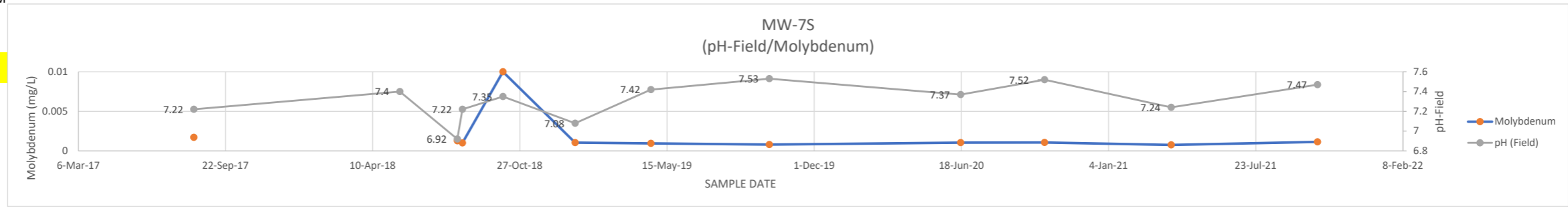
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

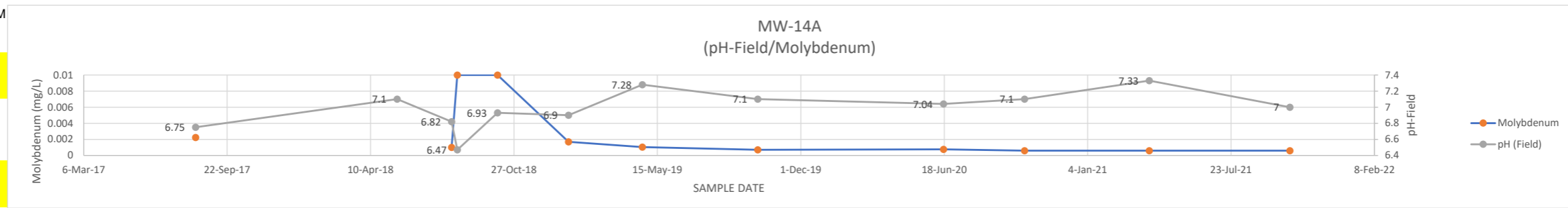
MW-5S	DATE	pH Field	MOLYBDENUM
14-Aug-17	7.79	0.00737	
22-May-18	7.85		
1-Aug-18	7.19	0.00497	
10-Aug-18	7.62	0.00387	
2-Oct-18	7.61	0.005	
10-Jan-19	7.56	0.00512	
23-Apr-19	7.95	0.00485	
2-Oct-19	7.91	0.00315	
18-Jun-20	7.9	0.00361	
12-Oct-20	7.83	0.00244	
1-Apr-21	7.74	0.00234	
14-Oct-21	7.85	0.00387	



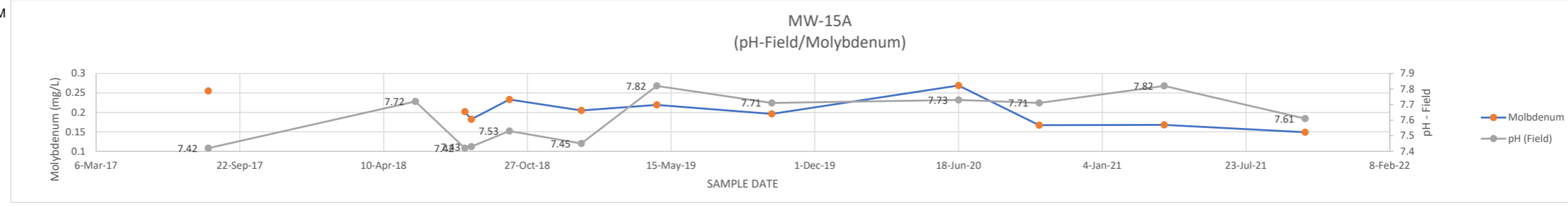
MW-7S	DATE	pH Field	MOLYBDENUM
10-Aug-17	7.22	0.00171	
17-May-18	7.4		
3-Aug-18	6.92	0.00127	
10-Aug-18	7.22	0.001	
4-Oct-18	7.35	0.01	
10-Jan-19	7.08	0.00105	
23-Apr-19	7.42	0.000952	
1-Oct-19	7.53	0.000798	
17-Jun-20	7.37	0.00105	
9-Oct-20	7.52	0.00106	
30-Mar-21	7.24	0.000755	
15-Oct-21	7.47	0.00115	



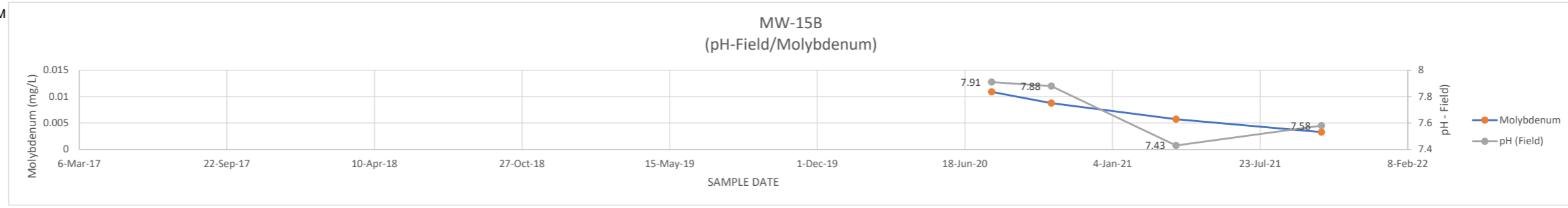
MW-14A	DATE	pH Field	MOLYBDENUM
9-Aug-17	6.75	0.00223	
17-May-18	7.1		
1-Aug-18	6.82	0.001	
9-Aug-18	6.47	0.01	
4-Oct-18	6.93	0.01	
11-Jan-19	6.9	0.0017	
24-Apr-19	7.28	0.00104	
2-Oct-19	7.1	0.000709	
17-Jun-20	7.04	0.00076	
8-Oct-20	7.1	0.0006	
31-Mar-21	7.33	0.0006	
13-Oct-21	7	0.0006	



MW-15A	DATE	pH Field	MOLYBDENUM
9-Aug-17	7.42	0.255	
24-May-18	7.72		
1-Aug-18	7.42	0.202	
10-Aug-18	7.43	0.182	
2-Oct-18	7.53	0.233	
10-Jan-19	7.45	0.205	
25-Apr-19	7.82	0.219	
2-Oct-19	7.71	0.196	
18-Jun-20	7.73	0.269	
8-Oct-20	7.71	0.167	
31-Mar-21	7.82	0.168	
13-Oct-21	7.61	0.149	



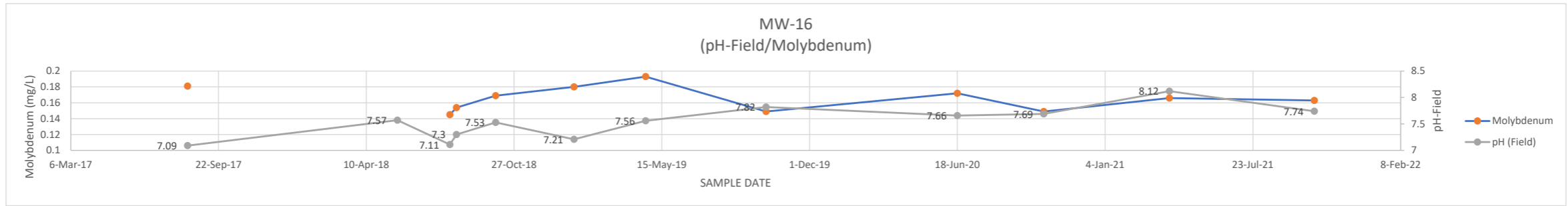
MW-15B	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	7.91	0.0109	
13-Oct-20	7.88	0.00876	
31-Mar-21	7.43	0.00571	
14-Oct-21	7.58	0.00328	



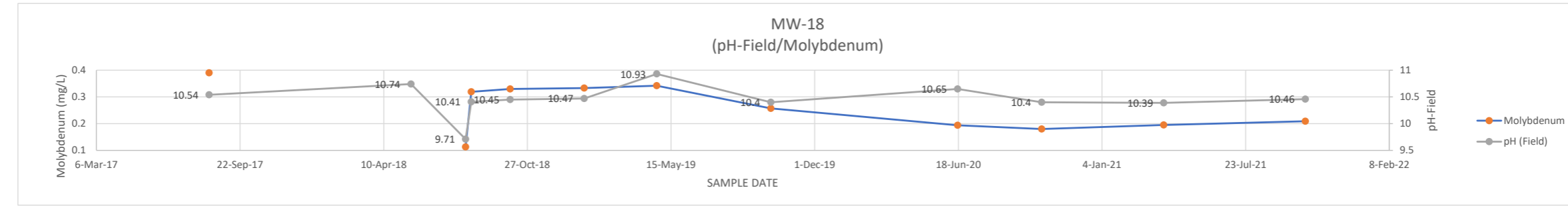
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

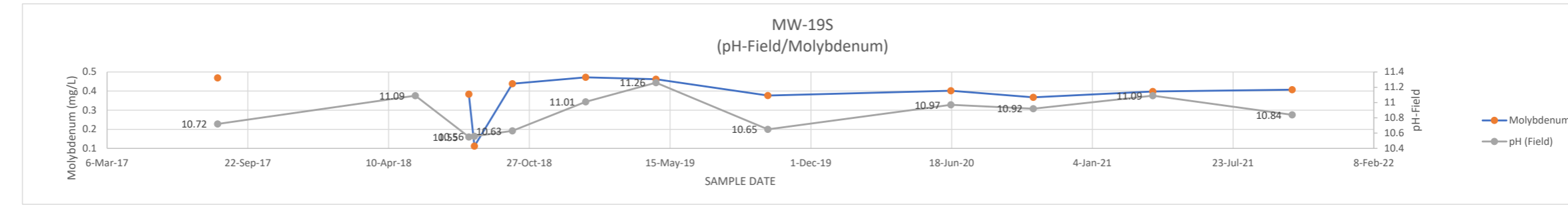
MW-16	DATE	pH Field	MOLYBDENUM
	11-Aug-17	7.09	0.181
	22-May-18	7.57	
	1-Aug-18	7.11	0.145
	10-Aug-18	7.3	0.154
	2-Oct-18	7.53	0.169
	16-Jan-19	7.21	0.18
	23-Apr-19	7.56	0.193
	3-Oct-19	7.82	0.149
	18-Jun-20	7.66	0.172
	13-Oct-20	7.69	0.149
	1-Apr-21	8.12	0.166
	14-Oct-21	7.74	0.163



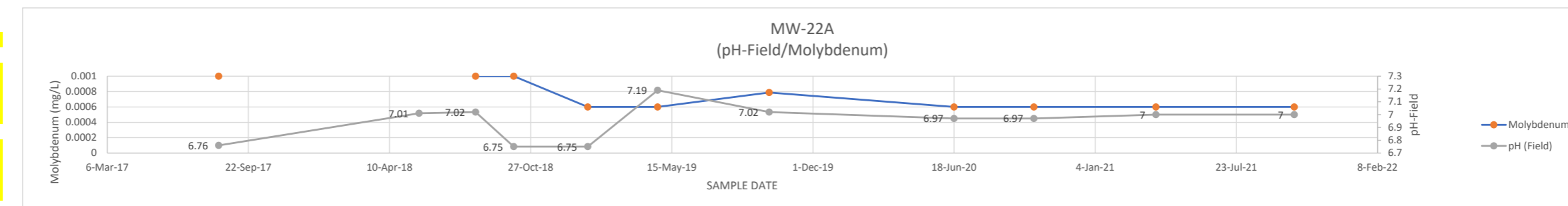
MW-18	DATE	pH Field	MOLYBDENUM
	10-Aug-17	10.54	0.39
	18-May-18	10.74	
	2-Aug-18	9.71	0.113
	10-Aug-18	10.41	0.319
	3-Oct-18	10.45	0.33
	14-Jan-19	10.47	0.333
	25-Apr-19	10.93	0.342
	1-Oct-19	10.4	0.257
	17-Jun-20	10.65	0.194
	12-Oct-20	10.4	0.18
	31-Mar-21	10.39	0.195
	14-Oct-21	10.46	0.209



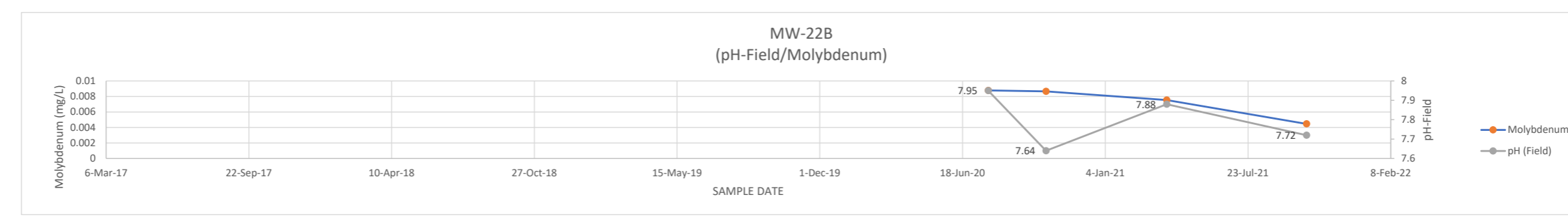
MW-19S	DATE	pH Field	MOLYBDENUM
	10-Aug-17	10.72	0.469
	18-May-18	11.09	
	2-Aug-18	10.55	0.384
	10-Aug-18	10.56	0.112
	3-Oct-18	10.63	0.439
	15-Jan-19	11.01	0.472
	25-Apr-19	11.26	0.462
	1-Oct-19	10.65	0.377
	17-Jun-20	10.97	0.402
	12-Oct-20	10.92	0.367
	31-Mar-21	11.09	0.398
	15-Oct-21	10.84	0.407



MW-22A	DATE	pH Field	MOLYBDENUM
	11-Aug-17	6.76	0.001
	22-May-18	7.01	
	10-Aug-18	7.02	0.001
	3-Oct-18	6.75	0.001
	16-Jan-19	6.75	0.0006
	25-Apr-19	7.19	0.0006
	30-Sep-19	7.02	0.000787
	18-Jun-20	6.97	0.0006
	9-Oct-20	6.97	0.0006
	31-Mar-21	7	0.0006
	13-Oct-21	7	0.0006



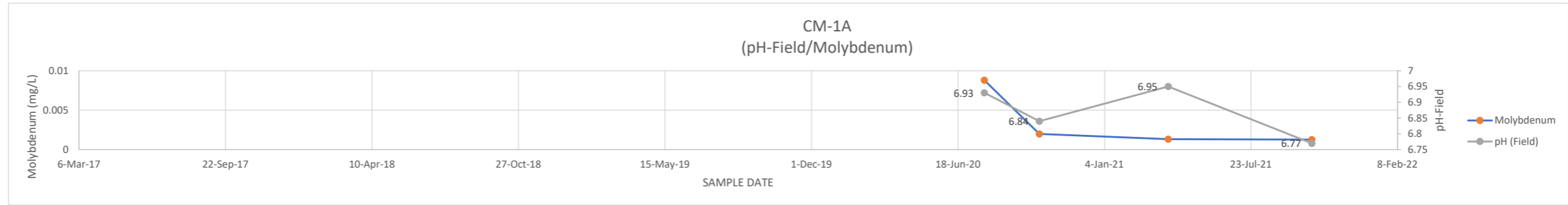
MW-22B	DATE	pH Field	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20	7.95	0.00878
	13-Oct-20	7.64	0.00866
	31-Mar-21	7.88	0.00753
	13-Oct-21	7.72	0.00446



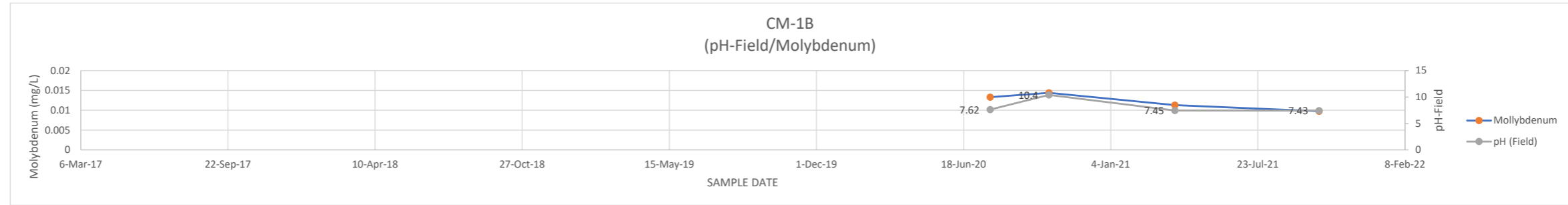
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

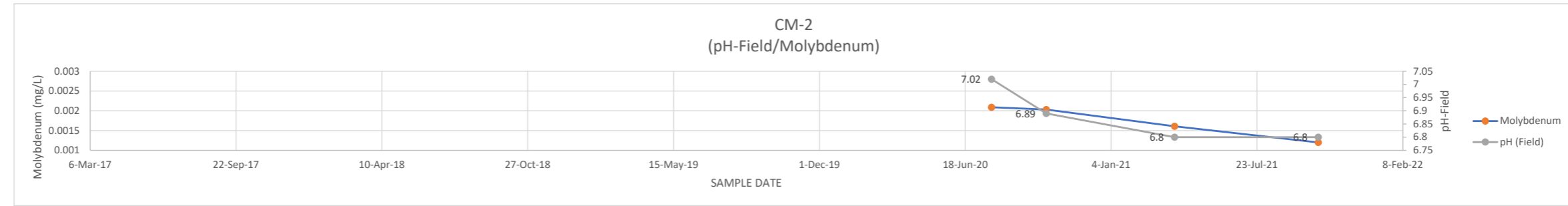
CM-1A	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	6.93	0.0088	
7-Oct-20	6.84	0.00198	
1-Apr-21	6.95	0.00132	
14-Oct-21	6.77	0.00127	



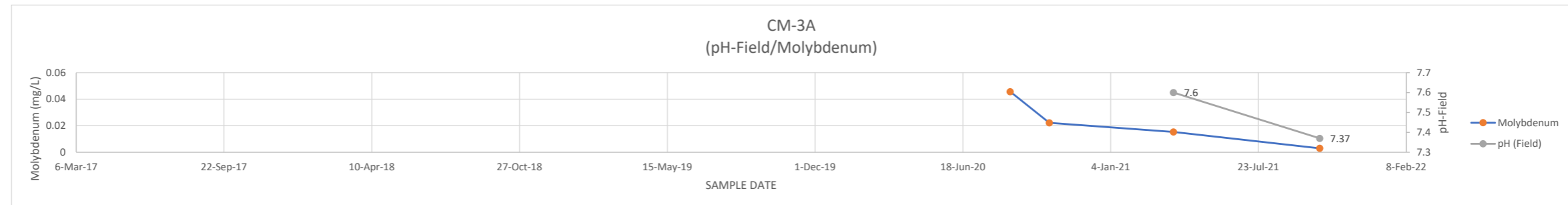
CM-1B	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	7.62	0.0133	
12-Oct-20	10.4	0.0144	
1-Apr-21	7.45	0.0113	
14-Oct-21	7.43	0.00976	



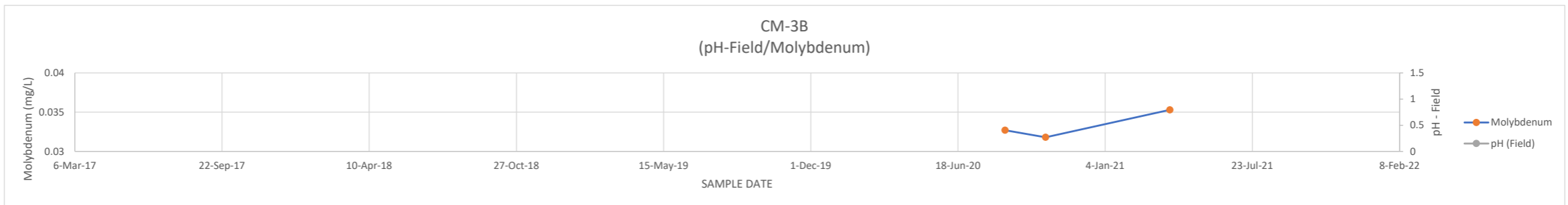
CM-2	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	7.02	0.00209	
7-Oct-20	6.89	0.00203	
1-Apr-21	6.8	0.00161	
15-Oct-21	6.8	0.0012	



CM-3A	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
21-Aug-20		0.0457	
13-Oct-20		0.0222	
30-Mar-21	7.6	0.0153	
14-Oct-21	7.37	0.00297	

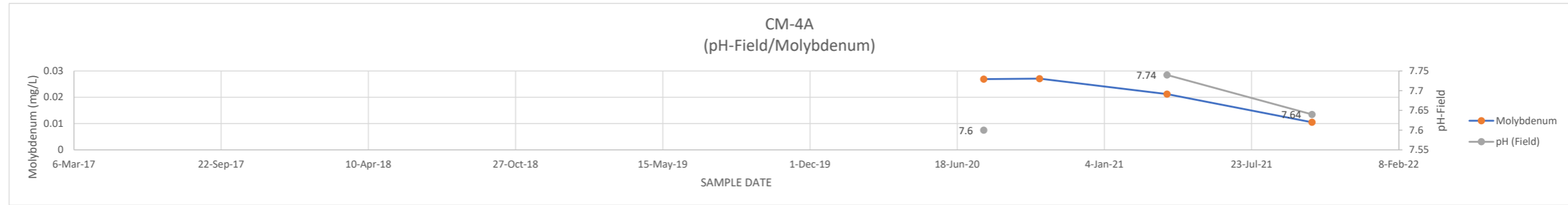


CM-3B	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
21-Aug-20		0.0327	
15-Oct-20		0.0318	
2-Apr-21		0.0353	
11-Oct-21			

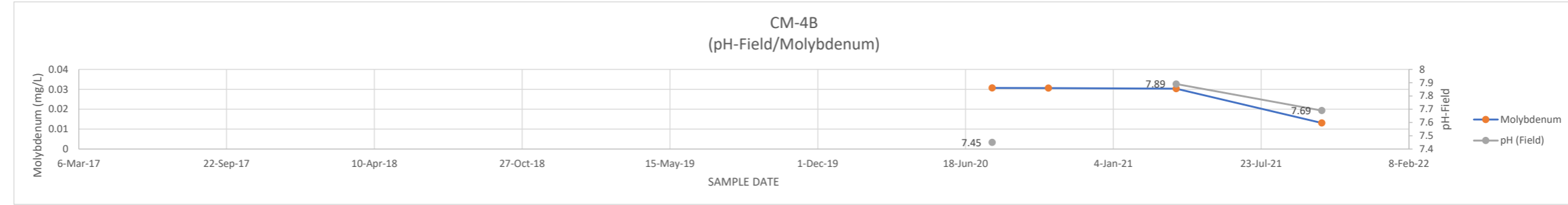


ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

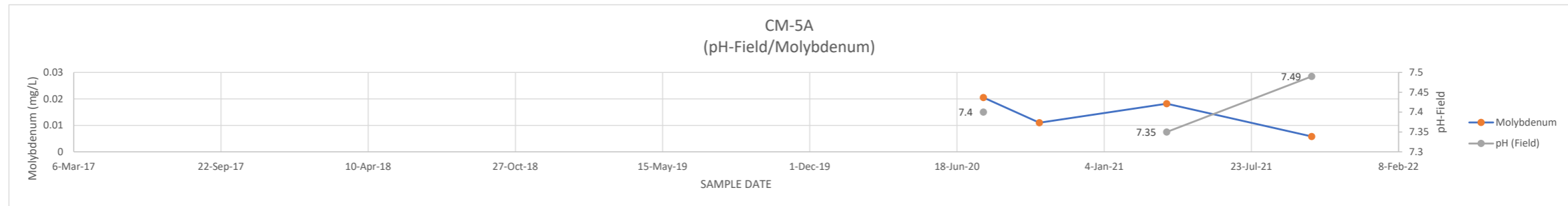
CM-4A DATE	pH Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.6	0.0269
8-Oct-20		0.0271
30-Mar-21	7.74	0.0212
13-Oct-21	7.64	0.0105



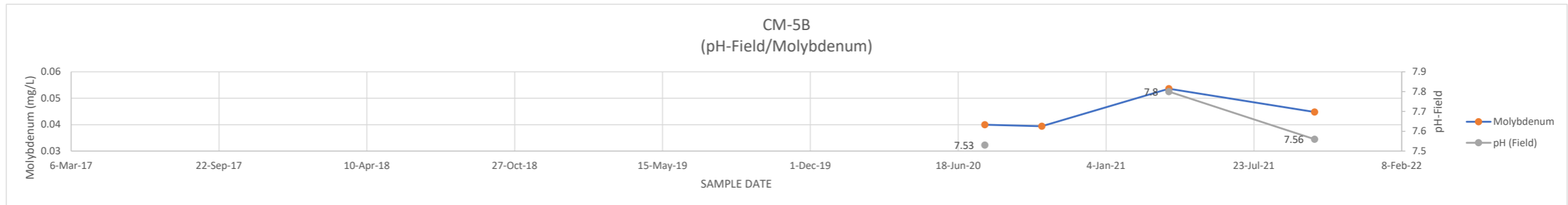
CM-4B DATE	pH Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.45	0.0307
8-Oct-20		0.0306
30-Mar-21	7.89	0.0303
13-Oct-21	7.69	0.0131



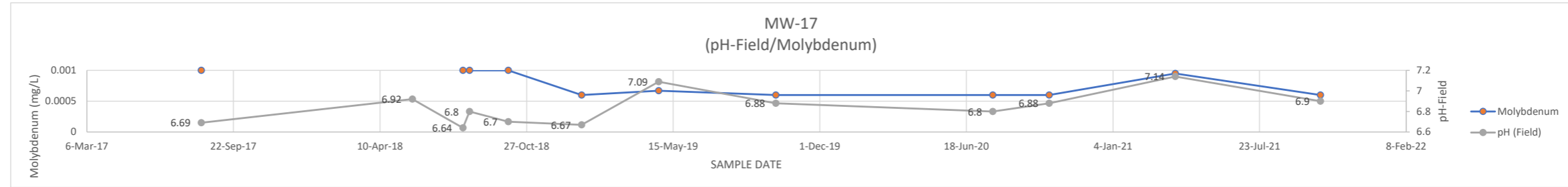
CM-5A DATE	pH Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.4	0.0205
8-Oct-20		0.011
30-Mar-21	7.35	0.0182
13-Oct-21	7.49	0.0058



CM-5B DATE	pH Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.53	0.04
9-Oct-20		0.0394
30-Mar-21	7.8	0.0536
13-Oct-21	7.56	0.0448



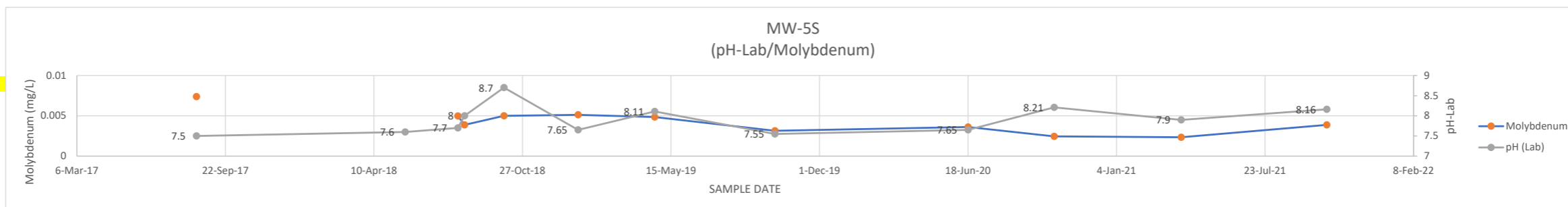
MW-17 DATE	pH Field	MOLYBDENUM
9-Aug-17	6.69	0.001
24-May-18	6.92	
1-Aug-18	6.64	0.001
10-Aug-18	6.8	0.001
2-Oct-18	6.7	0.001
10-Jan-19	6.67	0.0006
25-Apr-19	7.09	0.000671
2-Oct-19	6.88	0.0006
24-Jul-20	6.8	0.0006
9-Oct-20	6.88	0.0006
30-Mar-21	7.14	0.00095
14-Oct-21	6.9	0.0006



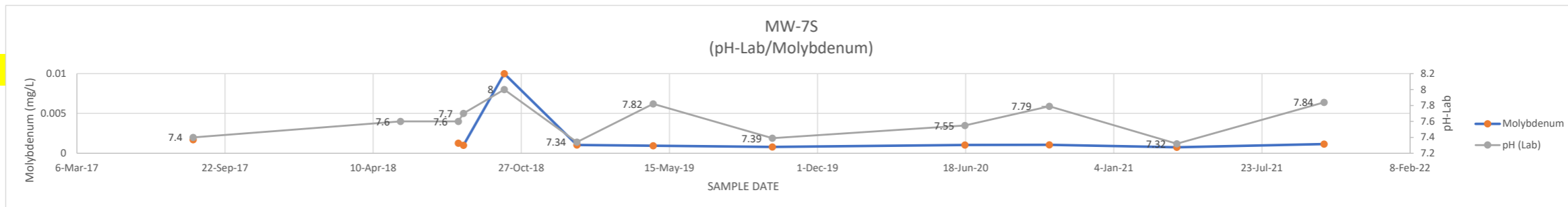
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

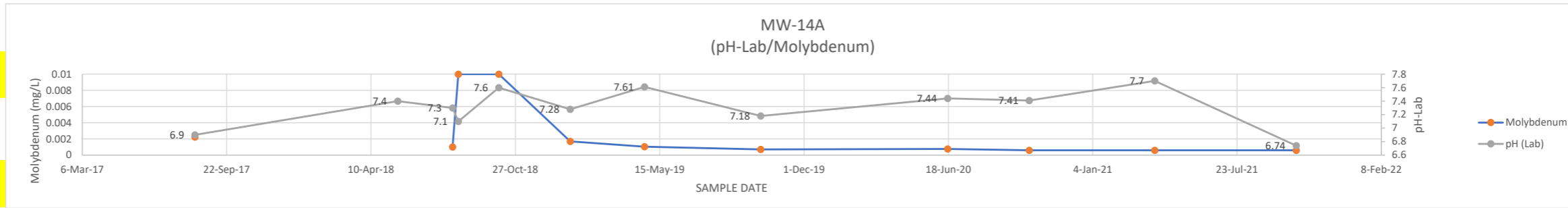
MW-5S	pH Lab	MOLYBDENUM
DATE		
14-Aug-17	7.5	0.00737
22-May-18	7.6	
1-Aug-18	7.7	0.00497
10-Aug-18	8	0.00387
2-Oct-18	8.7	0.005
10-Jan-19	7.65	0.00512
23-Apr-19	8.11	0.00485
2-Oct-19	7.55	0.00315
18-Jun-20	7.65	0.00361
12-Oct-20	8.21	0.00244
1-Apr-21	7.9	0.00234
14-Oct-21	8.16	0.00387



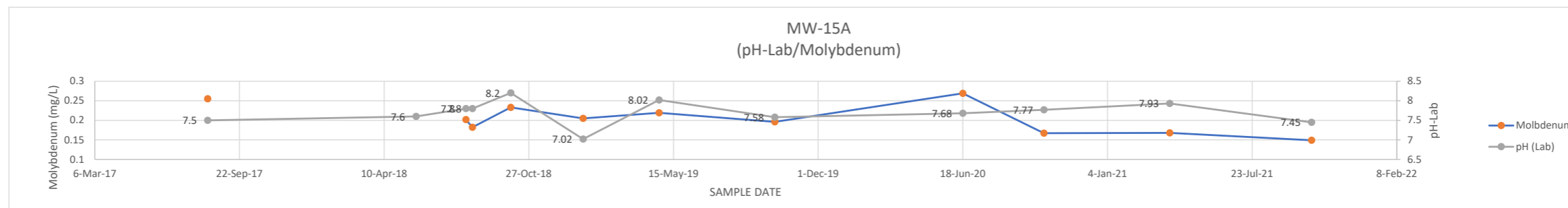
MW-7S	pH Lab	MOLYBDENUM
DATE		
10-Aug-17	7.4	0.00171
17-May-18	7.6	
3-Aug-18	7.6	0.00127
10-Aug-18	7.7	0.001
4-Oct-18	8	0.01
10-Jan-19	7.34	0.00105
23-Apr-19	7.82	0.000952
1-Oct-19	7.39	0.000798
17-Jun-20	7.55	0.00105
9-Oct-20	7.79	0.00106
30-Mar-21	7.32	0.000755
15-Oct-21	7.84	0.00115



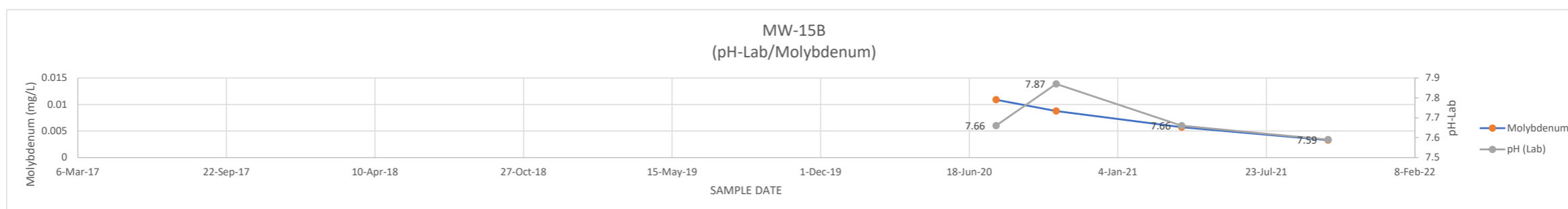
MW-14A	pH Lab	MOLYBDENUM
DATE		
9-Aug-17	6.9	0.00223
17-May-18	7.4	
1-Aug-18	7.3	0.001
9-Aug-18	7.1	0.01
4-Oct-18	7.6	0.01
11-Jan-19	7.28	0.0017
24-Apr-19	7.61	0.00104
2-Oct-19	7.18	0.000709
17-Jun-20	7.44	0.00076
8-Oct-20	7.41	0.0006
31-Mar-21	7.7	0.0006
13-Oct-21	6.74	0.0006



MW-15A	pH Lab	MOLYBDENUM
DATE		
9-Aug-17	7.5	0.255
24-May-18	7.6	
1-Aug-18	7.8	0.202
10-Aug-18	7.8	0.182
2-Oct-18	8.2	0.233
10-Jan-19	7.02	0.205
25-Apr-19	8.02	0.219
2-Oct-19	7.58	0.196
18-Jun-20	7.68	0.269
8-Oct-20	7.77	0.167
31-Mar-21	7.93	0.168
13-Oct-21	7.45	0.149



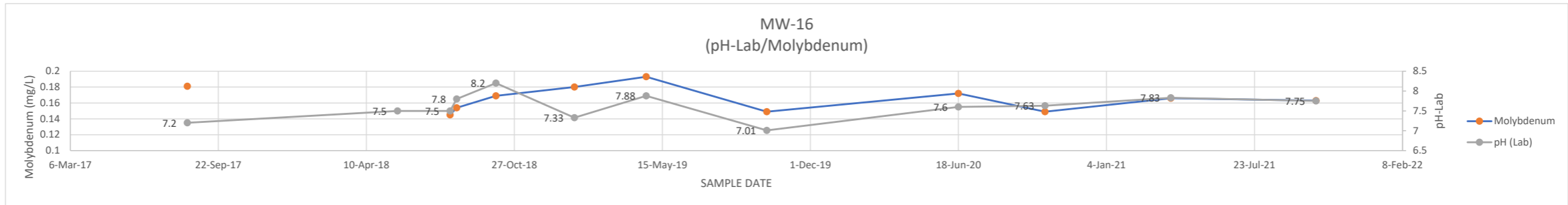
MW-15B	pH Lab	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.66	0.0109
13-Oct-20	7.87	0.00876
31-Mar-21	7.66	0.00571
14-Oct-21	7.59	0.00328



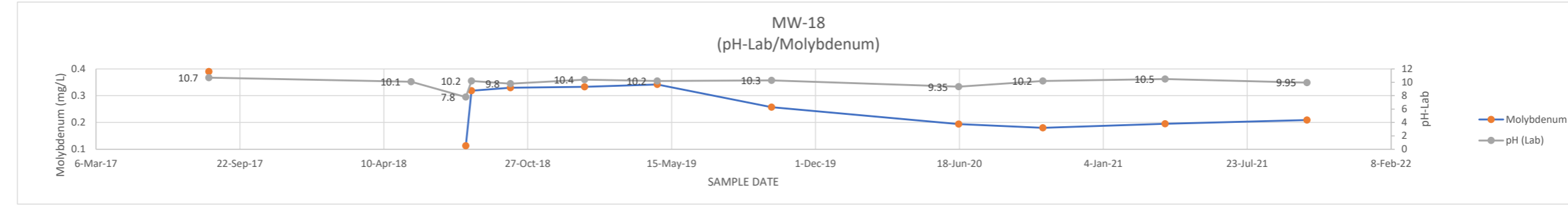
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

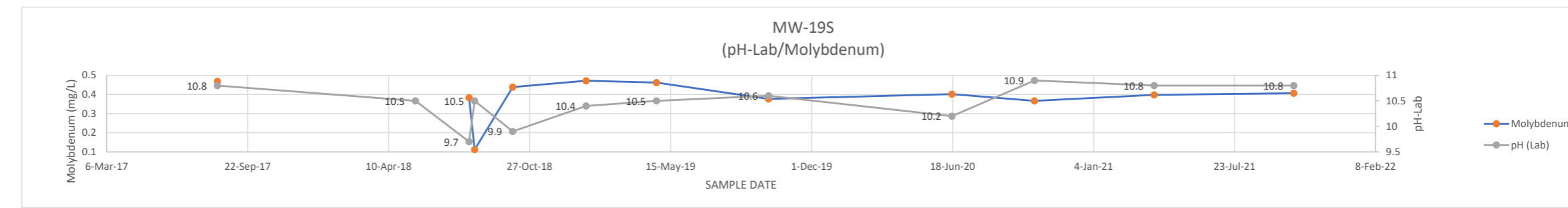
MW-16	DATE	pH Lab	MOLYBDENUM
	11-Aug-17	7.2	0.181
	22-May-18	7.5	
	1-Aug-18	7.5	0.145
	10-Aug-18	7.8	0.154
	2-Oct-18	8.2	0.169
	16-Jan-19	7.33	0.18
	23-Apr-19	7.88	0.193
	3-Oct-19	7.01	0.149
	18-Jun-20	7.6	0.172
	13-Oct-20	7.63	0.149
	1-Apr-21	7.83	0.166
	14-Oct-21	7.75	0.163



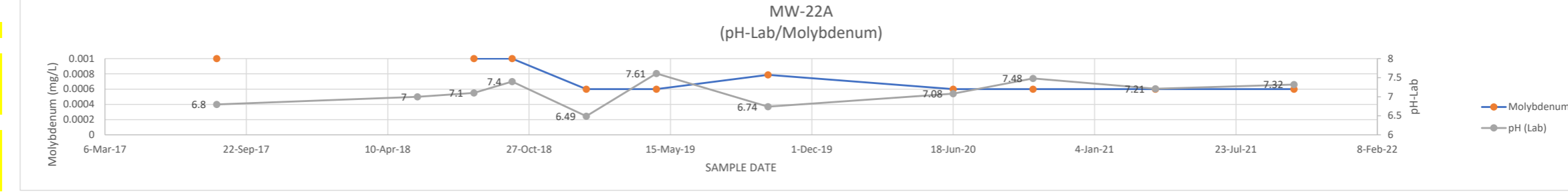
MW-18	DATE	pH Lab	MOLYBDENUM
	10-Aug-17	10.7	0.39
	18-May-18	10.1	
	2-Aug-18	7.8	0.113
	10-Aug-18	10.2	0.319
	3-Oct-18	9.8	0.33
	14-Jan-19	10.4	0.333
	25-Apr-19	10.2	0.342
	1-Oct-19	10.3	0.257
	17-Jun-20	9.35	0.194
	12-Oct-20	10.2	0.18
	31-Mar-21	10.5	0.195
	14-Oct-21	9.95	0.209



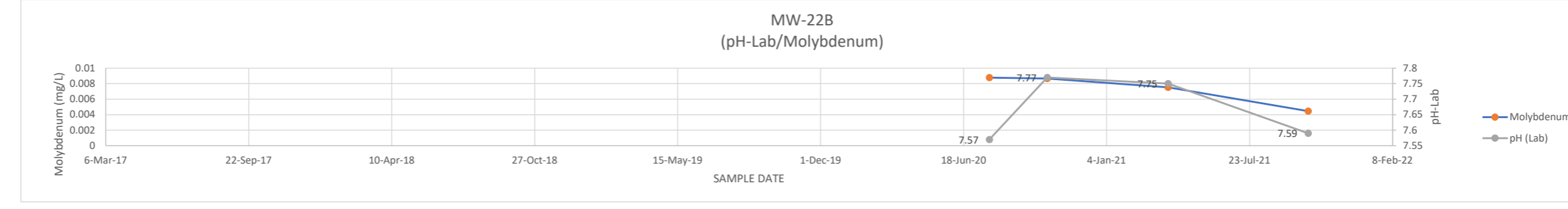
MW-19S	DATE	pH Lab	MOLYBDENUM
	10-Aug-17	10.8	0.469
	18-May-18	10.5	
	2-Aug-18	9.7	0.384
	10-Aug-18	10.5	0.112
	3-Oct-18	9.9	0.439
	15-Jan-19	10.4	0.472
	25-Apr-19	10.5	0.462
	1-Oct-19	10.6	0.377
	17-Jun-20	10.2	0.402
	12-Oct-20	10.9	0.367
	31-Mar-21	10.8	0.398
	15-Oct-21	10.8	0.407



MW-22A	DATE	pH Lab	MOLYBDENUM
	11-Aug-17	6.8	0.001
	22-May-18	7	
	10-Aug-18	7.1	0.001
	3-Oct-18	7.4	0.001
	16-Jan-19	6.49	0.0006
	25-Apr-19	7.61	0.0006
	30-Sep-19	6.74	0.000787
	18-Jun-20	7.08	0.0006
	9-Oct-20	7.48	0.0006
	31-Mar-21	7.21	0.0006
	13-Oct-21	7.32	0.0006



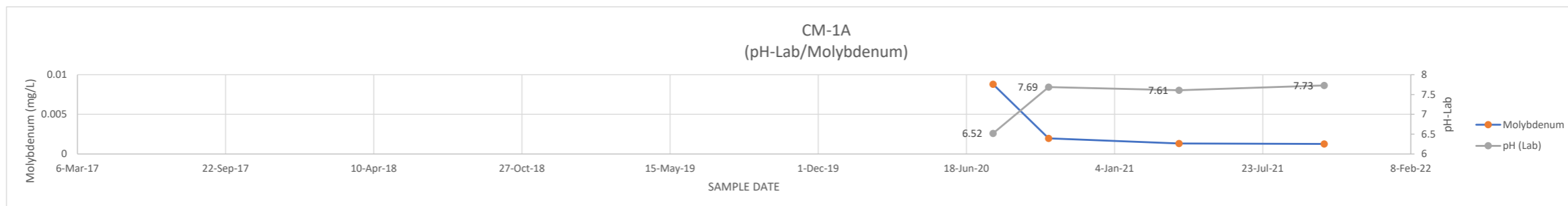
MW-22B	DATE	pH Lab	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20	7.57	0.00878
	13-Oct-20	7.77	0.00866
	31-Mar-21	7.75	0.00753
	13-Oct-21	7.59	0.00446



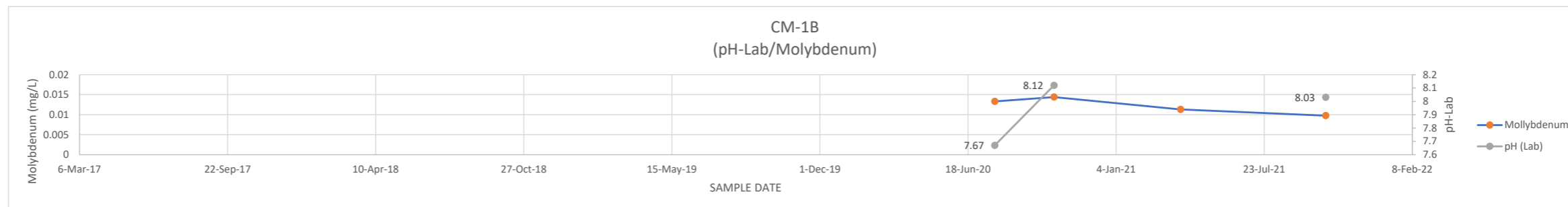
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

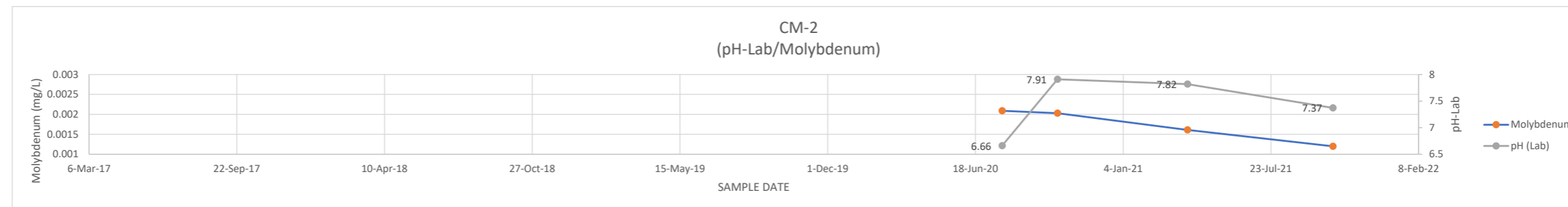
CM-1A DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	6.52	0.0088
7-Oct-20	7.69	0.00198
1-Apr-21	7.61	0.00132
14-Oct-21	7.73	0.00127



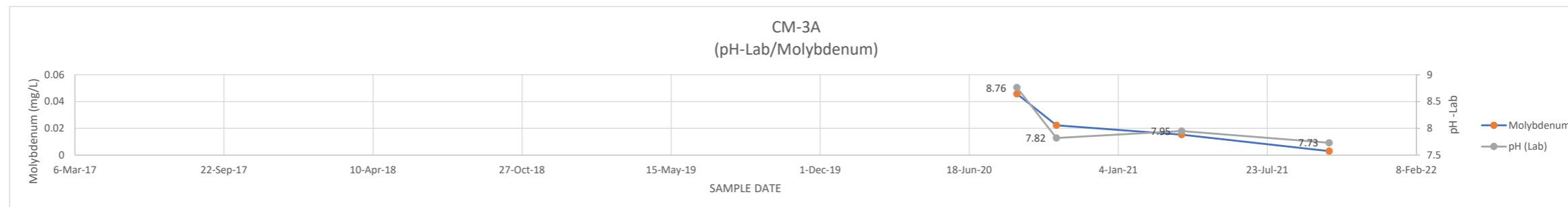
CM-1B DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.67	0.0133
12-Oct-20	8.12	0.0144
1-Apr-21		0.0113
14-Oct-21	8.03	0.00976



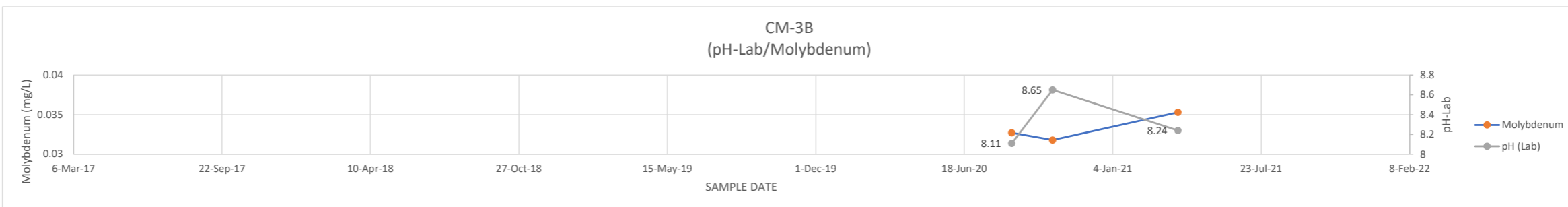
CM-2 DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	6.66	0.00209
7-Oct-20	7.91	0.00203
1-Apr-21	7.82	0.00161
15-Oct-21	7.37	0.0012



CM-3A DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	8.76	0.0457
13-Oct-20	7.82	0.0222
30-Mar-21	7.95	0.0153
14-Oct-21	7.73	0.00297

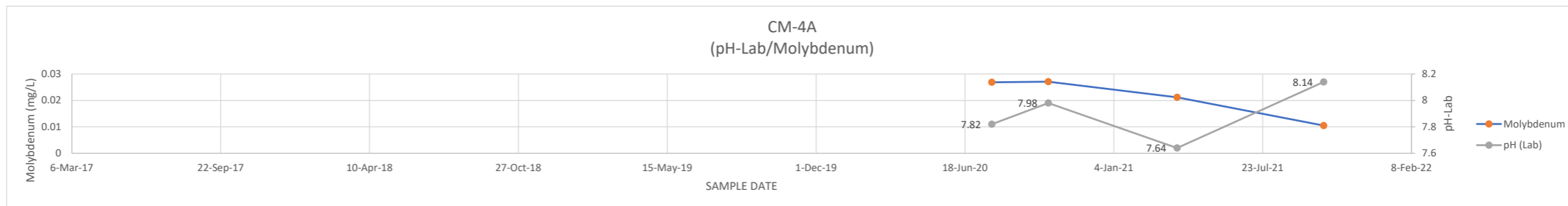


CM-3B DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	8.11	0.0327
15-Oct-20	8.65	0.0318
2-Apr-21	8.24	0.0353
11-Oct-21		

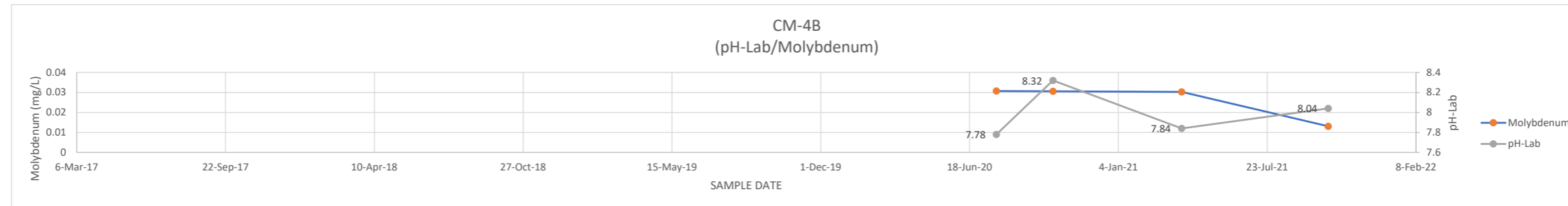


ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

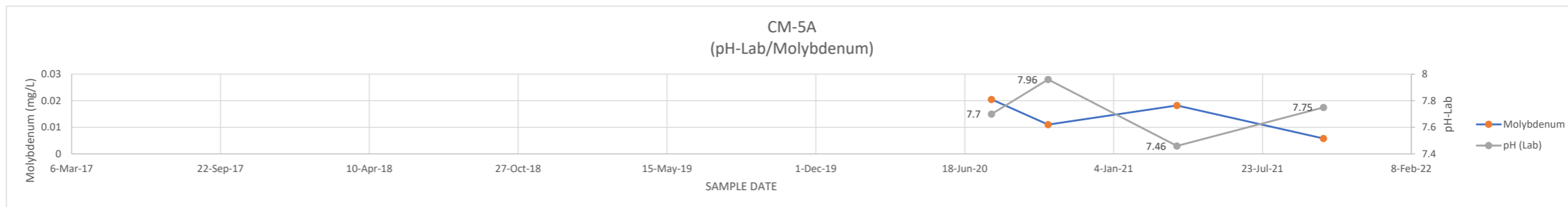
CM-4A DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.82	0.0269
8-Oct-20	7.98	0.0271
30-Mar-21	7.64	0.0212
13-Oct-21	8.14	0.0105



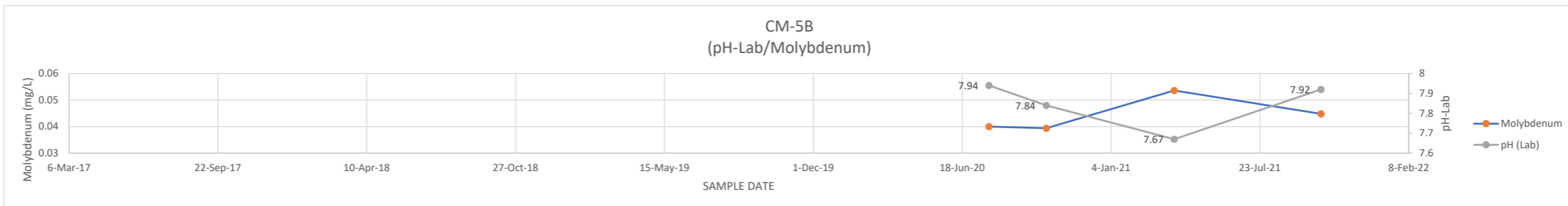
CM-4B DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.78	0.0307
8-Oct-20	8.32	0.0306
30-Mar-21	7.84	0.0303
13-Oct-21	8.04	0.0131



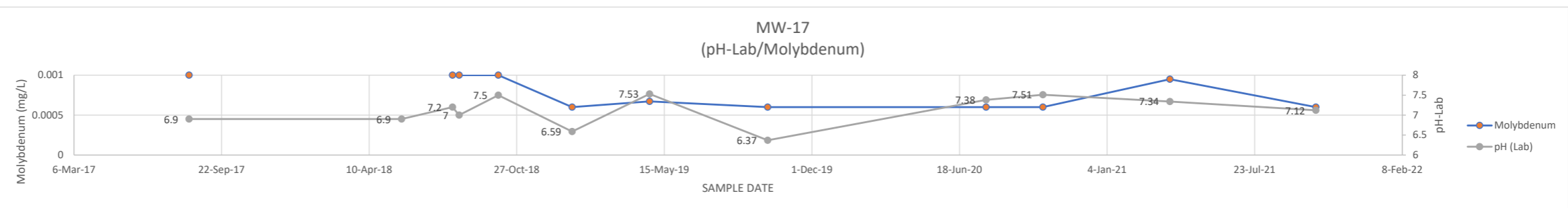
CM-5A DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.7	0.0205
8-Oct-20	7.96	0.011
30-Mar-21	7.46	0.0182
13-Oct-21	7.75	0.0058



CM-5B DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.94	0.04
9-Oct-20	7.84	0.0394
30-Mar-21	7.67	0.0536
13-Oct-21	7.92	0.0448



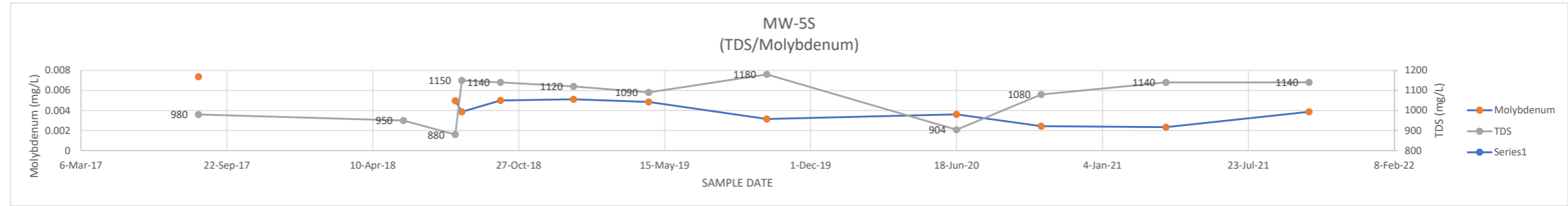
MW-17 DATE	pH Lab	MOLYBDENUM
9-Aug-17	6.9	0.001
24-May-18	6.9	
1-Aug-18	7.2	0.001
10-Aug-18	7	0.001
2-Oct-18	7.5	0.001
10-Jan-19	6.59	0.0006
25-Apr-19	7.53	0.000671
2-Oct-19	6.37	0.0006
24-Jul-20	7.38	0.0006
9-Oct-20	7.51	0.0006
30-Mar-21	7.34	0.00095
14-Oct-21	7.12	0.0006



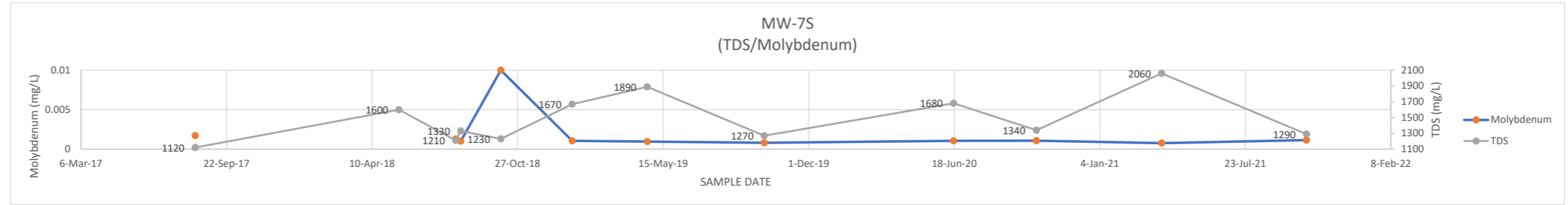
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

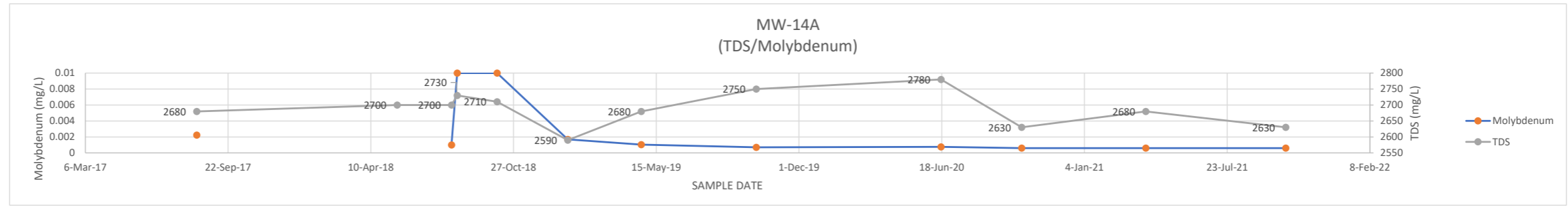
MW-5S	TDS	MOLYBDENUM
DATE		
14-Aug-17	980	0.00737
22-May-18	950	
1-Aug-18	880	0.00497
10-Aug-18	1150	0.00387
2-Oct-18	1140	0.005
10-Jan-19	1120	0.00512
23-Apr-19	1090	0.00485
2-Oct-19	1180	0.00315
18-Jun-20	904	0.00361
12-Oct-20	1080	0.00244
1-Apr-21	1140	0.00234
14-Oct-21	1140	0.00387



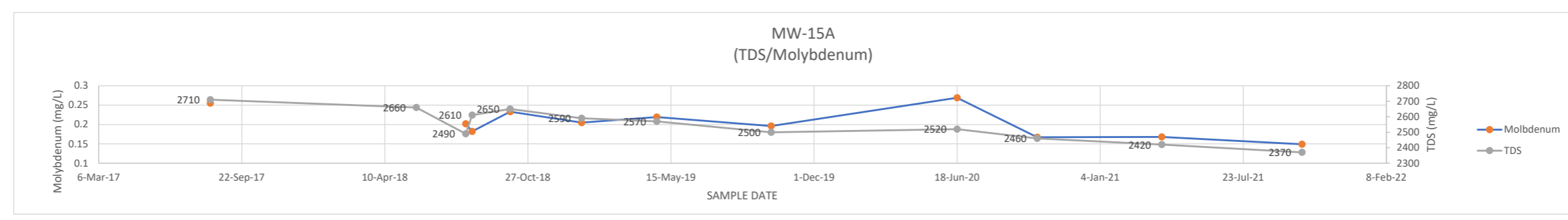
MW-7S	TDS	MOLYBDENUM
DATE		
10-Aug-17	1120	0.00171
17-May-18	1600	
3-Aug-18	1210	0.00127
10-Aug-18	1330	0.001
4-Oct-18	1230	0.01
10-Jan-19	1670	0.00105
23-Apr-19	1890	0.000952
1-Oct-19	1270	0.000798
17-Jun-20	1680	0.00105
9-Oct-20	1340	0.00106
30-Mar-21	2060	0.000755
15-Oct-21	1290	0.00115



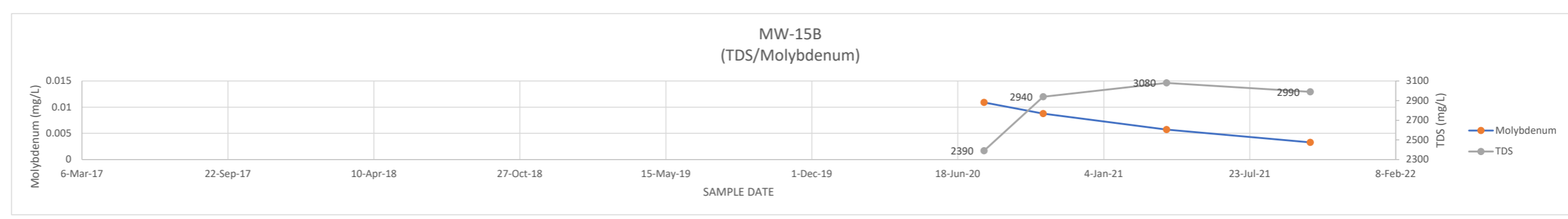
MW-14A	TDS	MOLYBDENUM
DATE		
9-Aug-17	2680	0.00223
17-May-18	2700	
1-Aug-18	2700	0.001
9-Aug-18	2730	0.01
4-Oct-18	2710	0.01
11-Jan-19	2590	0.0017
24-Apr-19	2680	0.00104
2-Oct-19	2750	0.000709
17-Jun-20	2780	0.00076
8-Oct-20	2630	0.0006
31-Mar-21	2680	0.0006
13-Oct-21	2630	0.0006



MW-15A	TDS	MOLYBDENUM
DATE		
9-Aug-17	2710	0.255
24-May-18	2660	
1-Aug-18	2490	0.202
10-Aug-18	2610	0.182
2-Oct-18	2650	0.233
10-Jan-19	2590	0.205
25-Apr-19	2570	0.219
2-Oct-19	2500	0.196
18-Jun-20	2520	0.269
8-Oct-20	2460	0.167
31-Mar-21	2420	0.168
13-Oct-21	2370	0.149



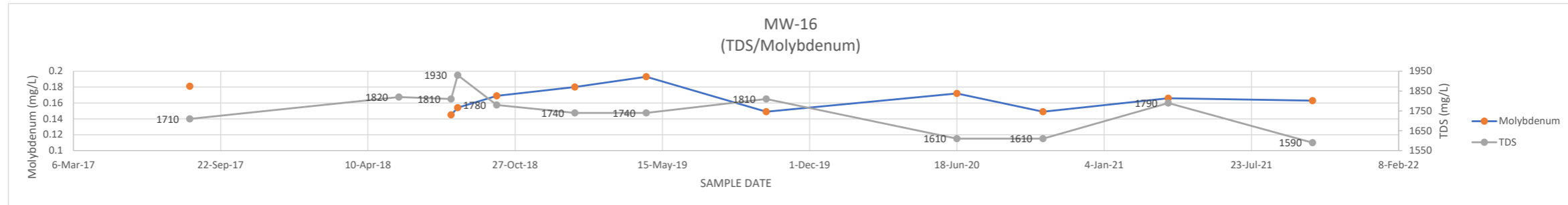
MW-15B	TDS	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2390	0.0109
13-Oct-20	2940	0.00876
31-Mar-21	3080	0.00571
14-Oct-21	2990	0.00328



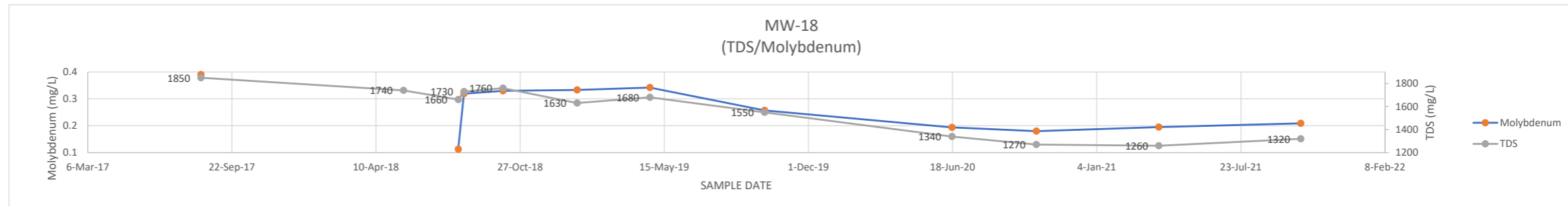
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

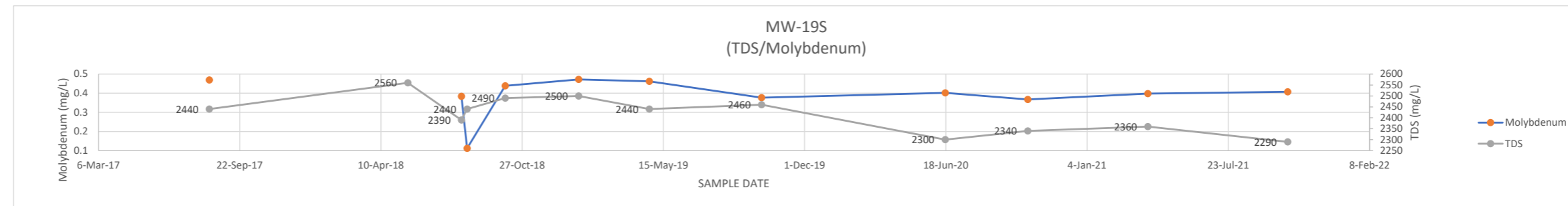
MW-16	TDS	MOLYBDENUM
DATE		
11-Aug-17	1710	0.181
22-May-18	1820	
1-Aug-18	1810	0.145
10-Aug-18	1930	0.154
2-Oct-18	1780	0.169
16-Jan-19	1740	0.18
23-Apr-19	1740	0.193
3-Oct-19	1810	0.149
18-Jun-20	1610	0.172
13-Oct-20	1610	0.149
1-Apr-21	1790	0.166
14-Oct-21	1590	0.163



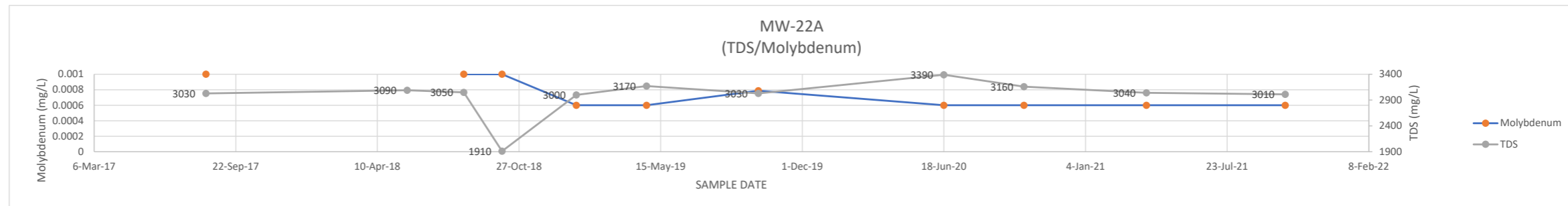
MW-18	TDS	MOLYBDENUM
DATE		
10-Aug-17	1850	0.39
18-May-18	1740	
2-Aug-18	1660	0.113
10-Aug-18	1730	0.319
3-Oct-18	1760	0.33
14-Jan-19	1630	0.333
25-Apr-19	1680	0.342
1-Oct-19	1550	0.257
17-Jun-20	1340	0.194
12-Oct-20	1270	0.18
31-Mar-21	1260	0.195
14-Oct-21	1320	0.209



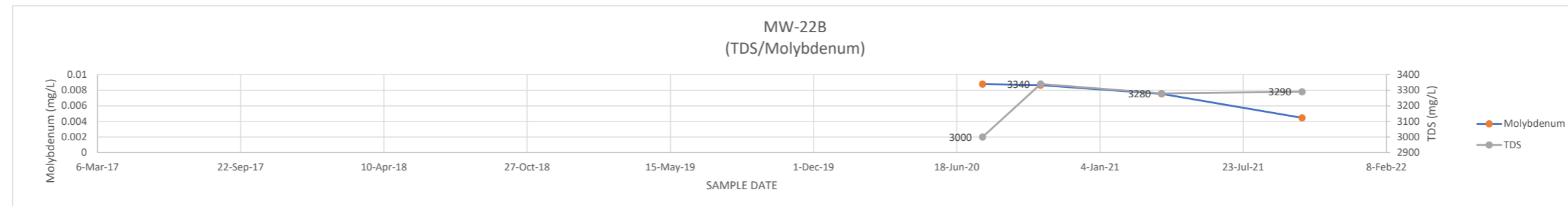
MW-19S	TDS	MOLYBDENUM
DATE		
10-Aug-17	2440	0.469
18-May-18	2560	
2-Aug-18	2390	0.384
10-Aug-18	2440	0.112
3-Oct-18	2490	0.439
15-Jan-19	2500	0.472
25-Apr-19	2440	0.462
1-Oct-19	2460	0.377
17-Jun-20	2300	0.402
12-Oct-20	2340	0.367
31-Mar-21	2360	0.398
15-Oct-21	2290	0.407



MW-22A	TDS	MOLYBDENUM
DATE		
11-Aug-17	3030	0.001
22-May-18	3090	
10-Aug-18	3050	0.001
3-Oct-18	1910	0.001
16-Jan-19	3000	0.0006
25-Apr-19	3170	0.0006
30-Sep-19	3030	0.000787
18-Jun-20	3390	0.0006
9-Oct-20	3160	0.0006
31-Mar-21	3040	0.0006
13-Oct-21	3010	0.0006



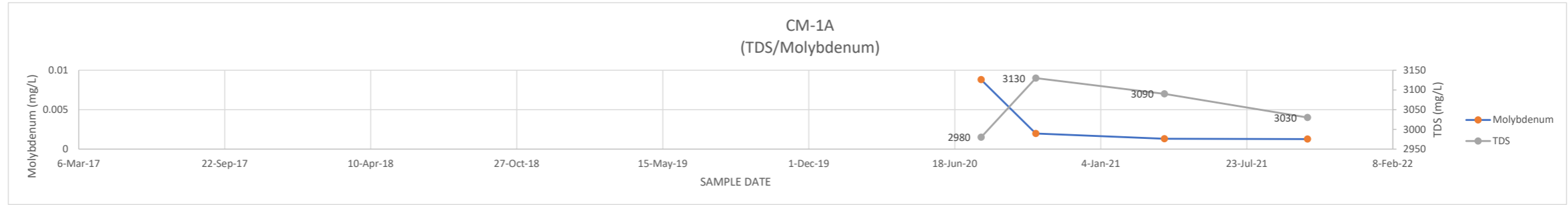
MW-22B	TDS	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3000	0.00878
13-Oct-20	3340	0.00866
31-Mar-21	3280	0.00753
13-Oct-21	3290	0.00446



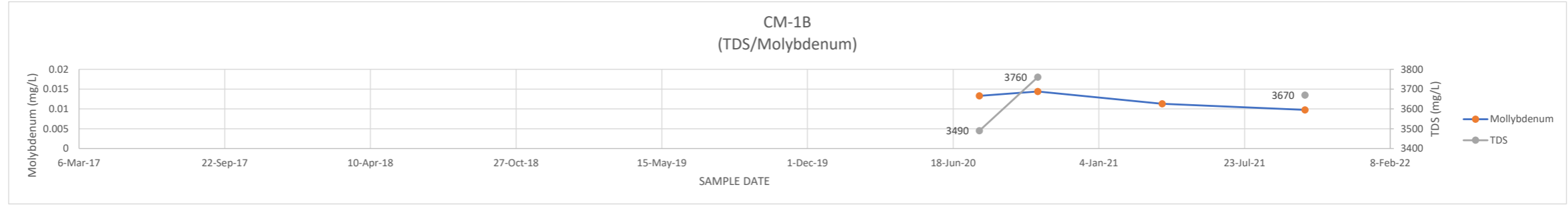
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

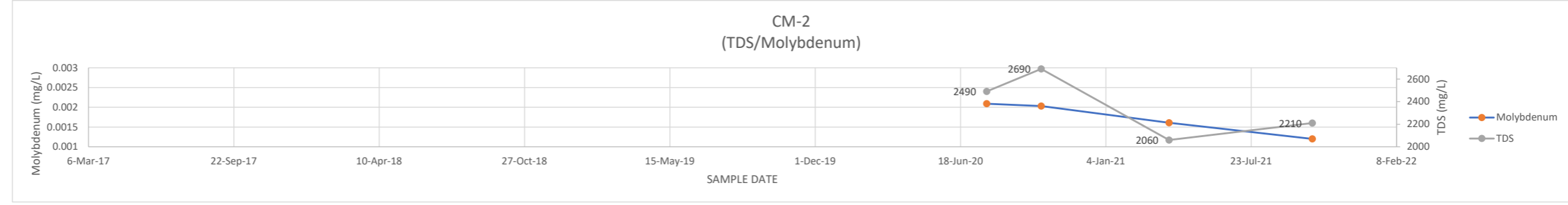
CM-1A DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2980	0.0088
7-Oct-20	3130	0.00198
1-Apr-21	3090	0.00132
14-Oct-21	3030	0.00127



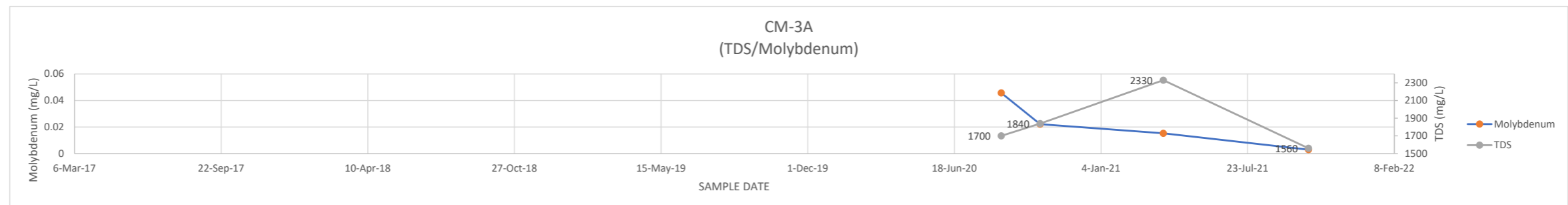
CM-1B DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3490	0.0133
12-Oct-20	3760	0.0144
1-Apr-21		0.0113
14-Oct-21	3670	0.00976



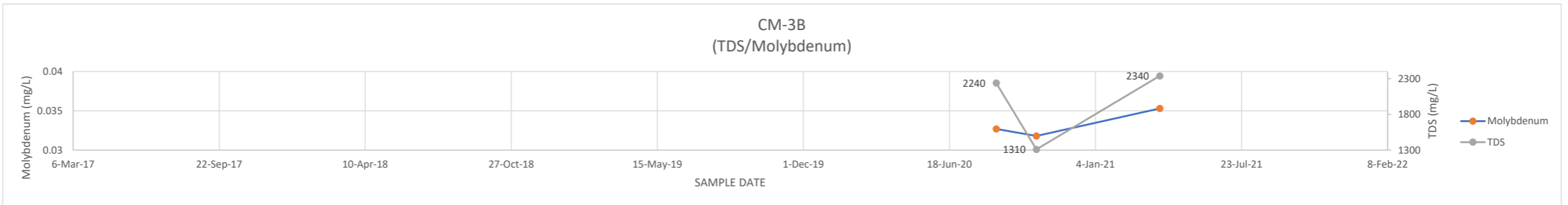
CM-2 DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2490	0.00209
7-Oct-20	2690	0.00203
1-Apr-21	2060	0.00161
15-Oct-21	2210	0.0012



CM-3A DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	1700	0.0457
13-Oct-20	1840	0.0222
30-Mar-21	2330	0.0153
14-Oct-21	1560	0.00297

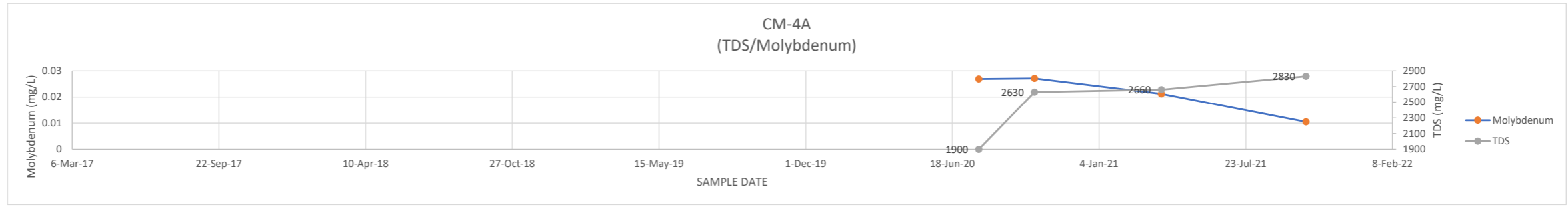


CM-3B DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	2240	0.0327
15-Oct-20	1310	0.0318
2-Apr-21	2340	0.0353
11-Oct-21		

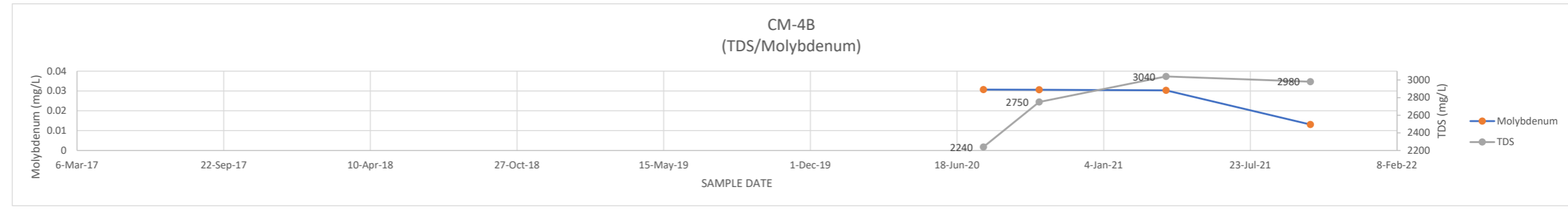


ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

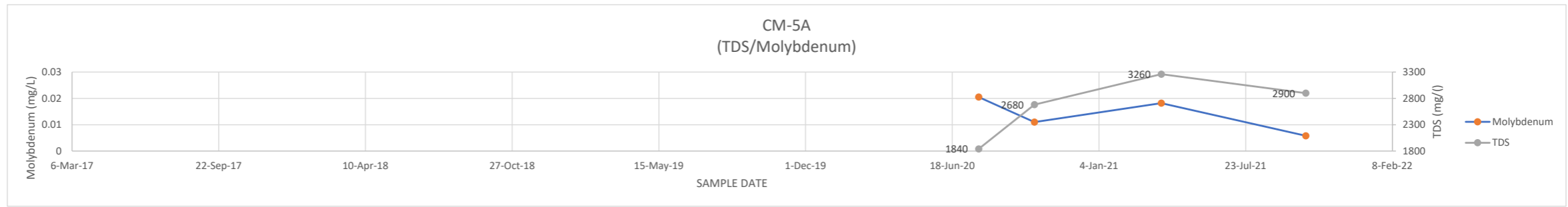
CM-4A	TDS	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1900	0.0269
8-Oct-20	2630	0.0271
30-Mar-21	2660	0.0212
13-Oct-21	2830	0.0105



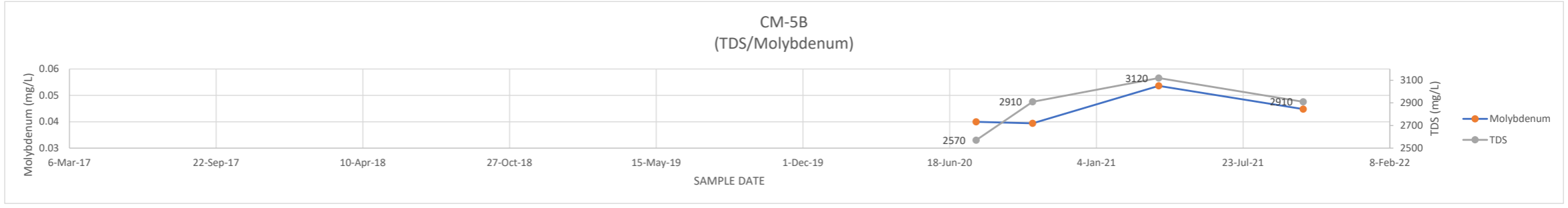
CM-4B	TDS	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2240	0.0307
8-Oct-20	2750	0.0306
30-Mar-21	3040	0.0303
13-Oct-21	2980	0.0131



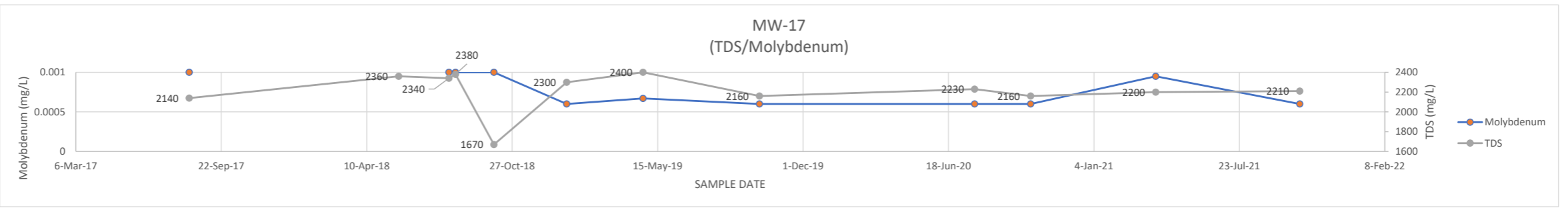
CM-5A	TDS	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1840	0.0205
8-Oct-20	2680	0.011
30-Mar-21	3260	0.0182
13-Oct-21	2900	0.0058



CM-5B	TDS	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2570	0.04
9-Oct-20	2910	0.0394
30-Mar-21	3120	0.0536
13-Oct-21	2910	0.0448



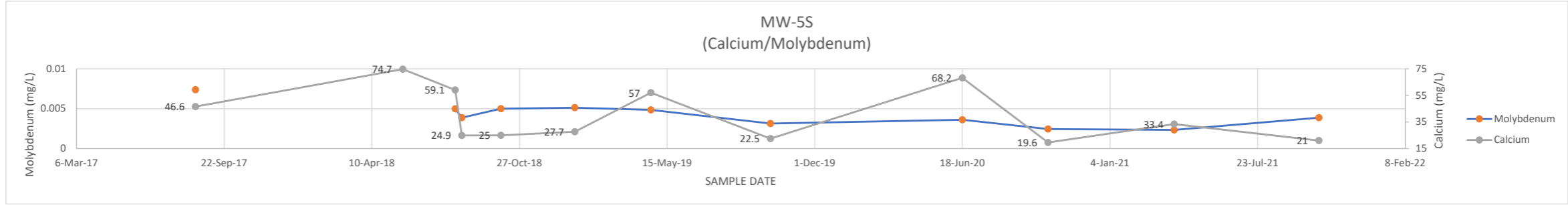
MW-17	TDS	MOLYBDENUM
DATE		
9-Aug-17	2140	0.001
24-May-18	2360	
1-Aug-18	2340	0.001
10-Aug-18	2380	0.001
2-Oct-18	1670	0.001
10-Jan-19	2300	0.0006
25-Apr-19	2400	0.000671
2-Oct-19	2160	0.0006
24-Jul-20	2230	0.0006
9-Oct-20	2160	0.0006
30-Mar-21	2200	0.00095
14-Oct-21	2210	0.0006



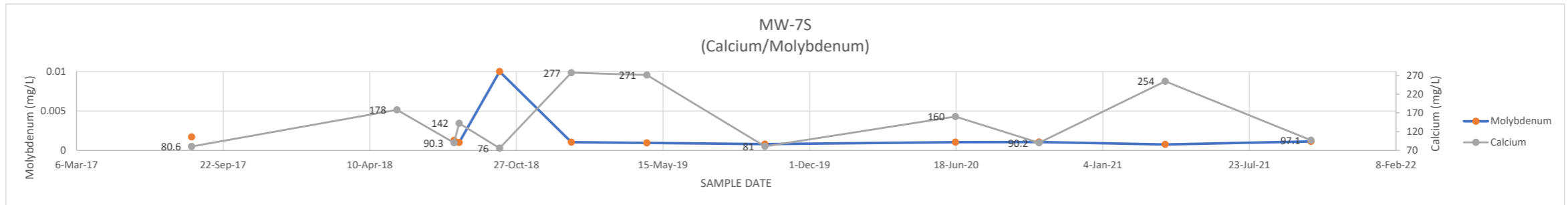
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

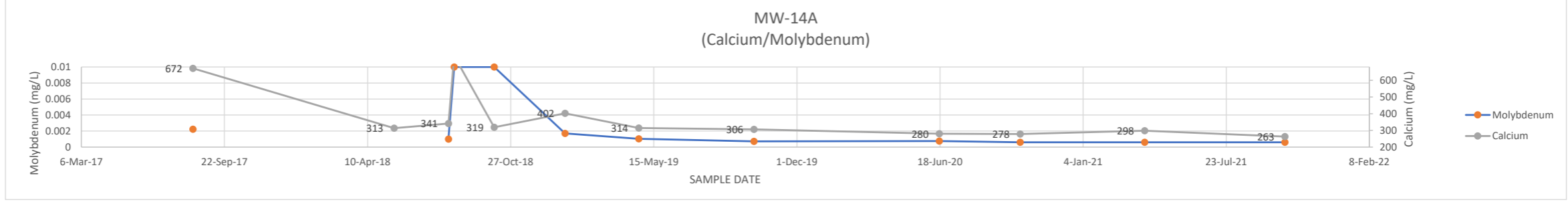
MW-5S	DATE	CALCIUM	MOLYBDENUM
14-Aug-17		46.6	0.00737
22-May-18		74.7	
1-Aug-18		59.1	0.00497
10-Aug-18		24.9	0.00387
2-Oct-18		25	0.005
10-Jan-19		27.7	0.00512
23-Apr-19		57	0.00485
2-Oct-19		22.5	0.00315
18-Jun-20		68.2	0.00361
12-Oct-20		19.6	0.00244
1-Apr-21		33.4	0.00234
14-Oct-21		21	0.00387



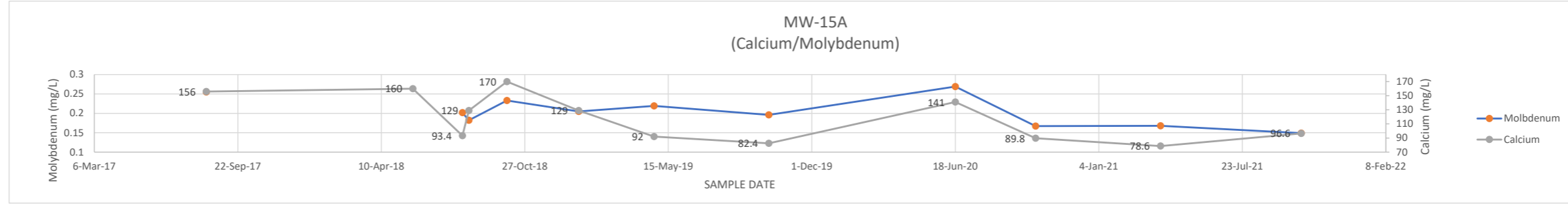
MW-7S	DATE	CALCIUM	MOLYBDENUM
10-Aug-17		80.6	0.00171
17-May-18		178	
3-Aug-18		90.3	0.00127
10-Aug-18		142	0.001
4-Oct-18		76	0.01
10-Jan-19		277	0.00105
23-Apr-19		271	0.000952
1-Oct-19		81	0.000798
17-Jun-20		160	0.00105
9-Oct-20		90.2	0.00106
30-Mar-21		254	0.000755
15-Oct-21		97.1	0.00115



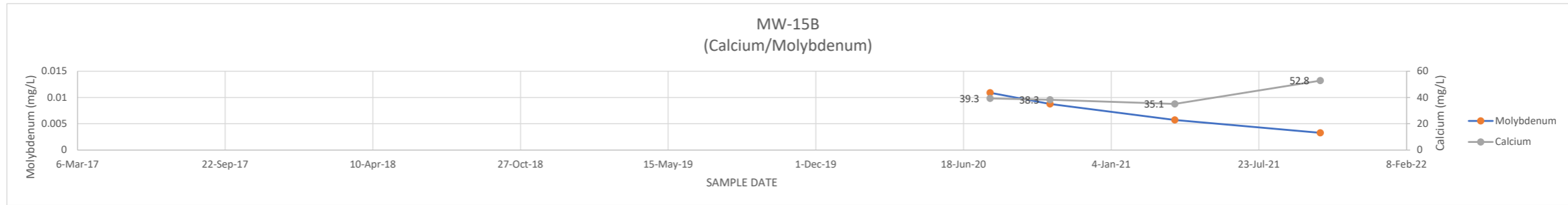
MW-14A	DATE	CALCIUM	MOLYBDENUM
9-Aug-17		672	0.00223
17-May-18		313	
1-Aug-18		341	0.001
9-Aug-18		746	0.01
4-Oct-18		319	0.01
11-Jan-19		402	0.0017
24-Apr-19		314	0.00104
2-Oct-19		306	0.000709
17-Jun-20		280	0.00076
8-Oct-20		278	0.0006
31-Mar-21		298	0.0006
13-Oct-21		263	0.0006



MW-15A	DATE	CALCIUM	MOLYBDENUM
9-Aug-17		156	0.255
24-May-18		160	
1-Aug-18		93.4	0.202
10-Aug-18		129	0.182
2-Oct-18		170	0.233
10-Jan-19		129	0.205
25-Apr-19		92	0.219
2-Oct-19		82.4	0.196
18-Jun-20		141	0.269
8-Oct-20		89.8	0.167
31-Mar-21		78.6	0.168
13-Oct-21		96.6	0.149



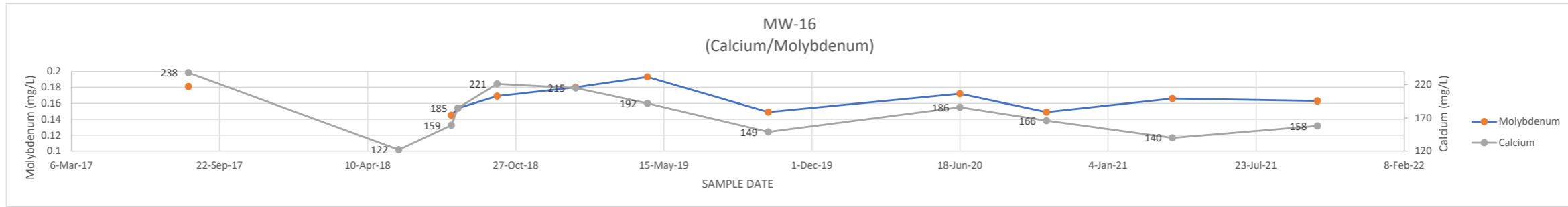
MW-15B	DATE	CALCIUM	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20		39.3	0.0109
13-Oct-20		38.3	0.00876
31-Mar-21		35.1	0.00571
14-Oct-21		52.8	0.00328



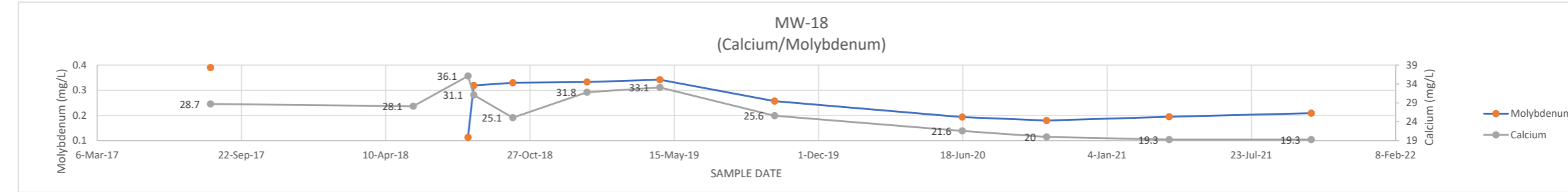
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

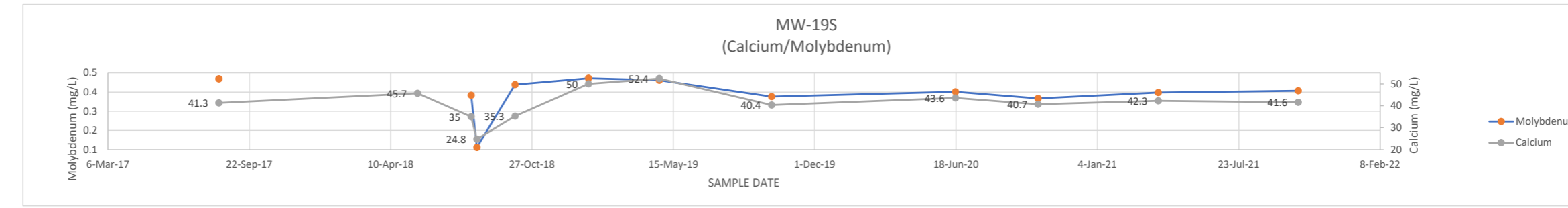
MW-16		
DATE	CALCIUM	MOLYBDENUM
11-Aug-17	238	0.181
22-May-18	122	
1-Aug-18	159	0.145
10-Aug-18	185	0.154
2-Oct-18	221	0.169
16-Jan-19	215	0.18
23-Apr-19	192	0.193
3-Oct-19	149	0.149
18-Jun-20	186	0.172
13-Oct-20	166	0.149
1-Apr-21	140	0.166
14-Oct-21	158	0.163



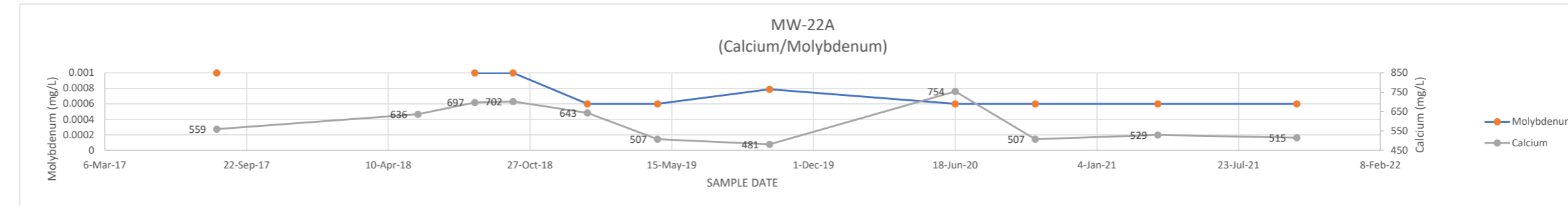
MW-18		
DATE	CALCIUM	MOLYBDENUM
10-Aug-17	28.7	0.39
18-May-18	28.1	
2-Aug-18	36.1	0.113
10-Aug-18	31.1	0.319
3-Oct-18	25.1	0.33
14-Jan-19	31.8	0.333
25-Apr-19	33.1	0.342
1-Oct-19	25.6	0.257
17-Jun-20	21.6	0.194
12-Oct-20	20	0.18
31-Mar-21	19.3	0.195
14-Oct-21	19.3	0.209



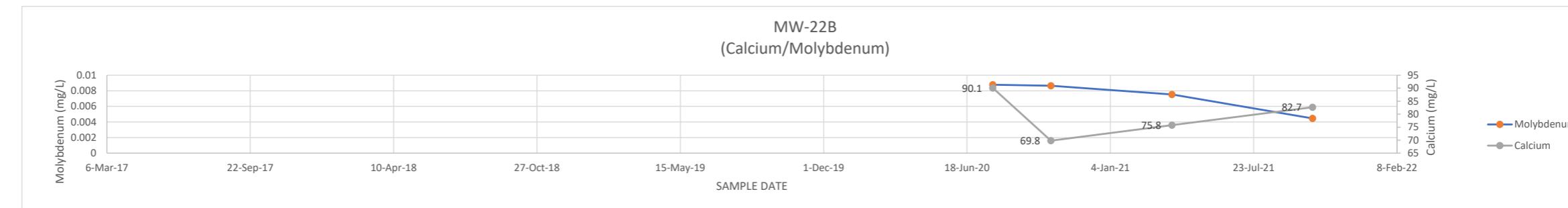
MW-19S		
DATE	CALCIUM	MOLYBDENUM
10-Aug-17	41.3	0.469
18-May-18	45.7	
2-Aug-18	35	0.384
10-Aug-18	24.8	0.112
3-Oct-18	35.3	0.439
15-Jan-19	50	0.472
25-Apr-19	52.4	0.462
1-Oct-19	40.4	0.377
17-Jun-20	43.6	0.402
12-Oct-20	40.7	0.367
31-Mar-21	42.3	0.398
15-Oct-21	41.6	0.407



MW-22A		
DATE	CALCIUM	MOLYBDENUM
11-Aug-17	559	0.001
22-May-18	636	
10-Aug-18	697	0.001
3-Oct-18	702	0.001
16-Jan-19	643	0.0006
25-Apr-19	507	0.0006
30-Sep-19	481	0.000787
18-Jun-20	754	0.0006
9-Oct-20	507	0.0006
31-Mar-21	529	0.0006
13-Oct-21	515	0.0006



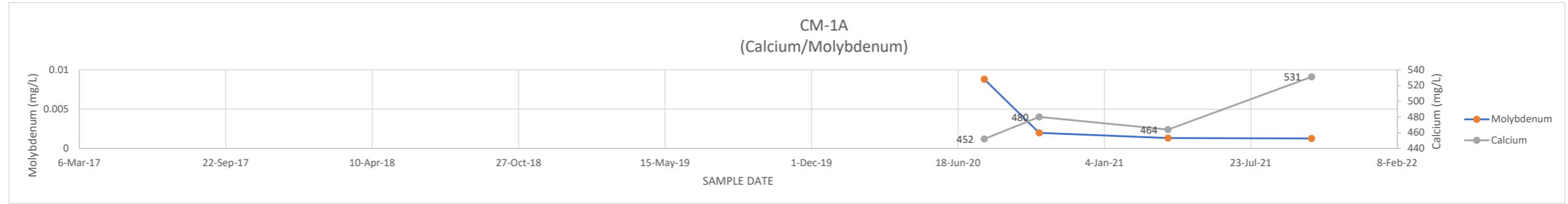
MW-22B		
DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	90.1	0.00878
13-Oct-20	69.8	0.00866
31-Mar-21	75.8	0.00753
13-Oct-21	82.7	0.00446



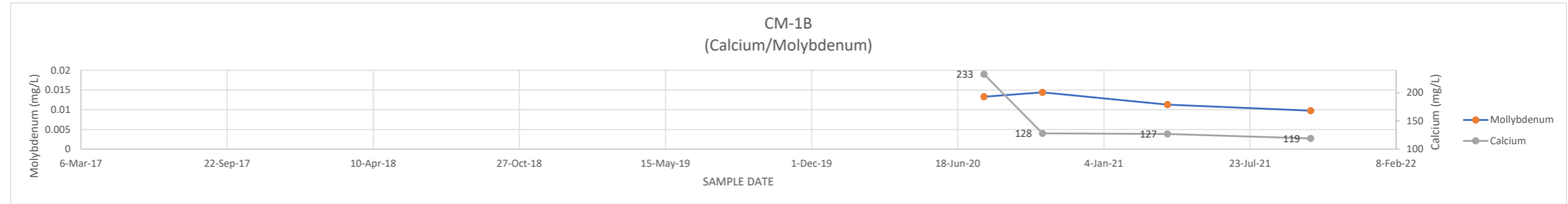
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

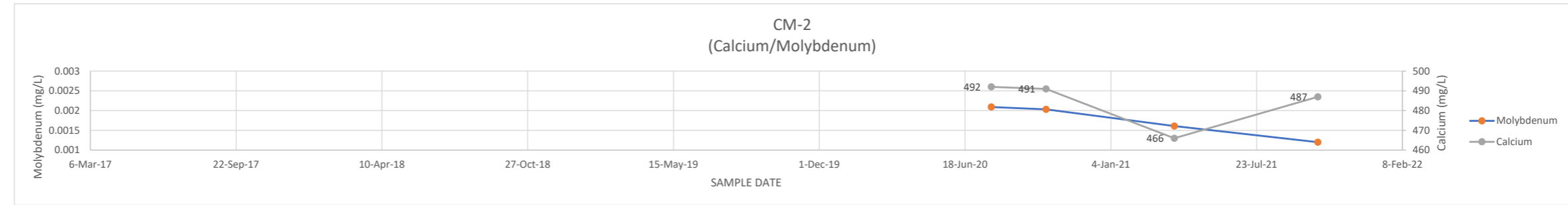
CM-1A DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	452	0.0088
7-Oct-20	480	0.00198
1-Apr-21	464	0.00132
14-Oct-21	531	0.00127



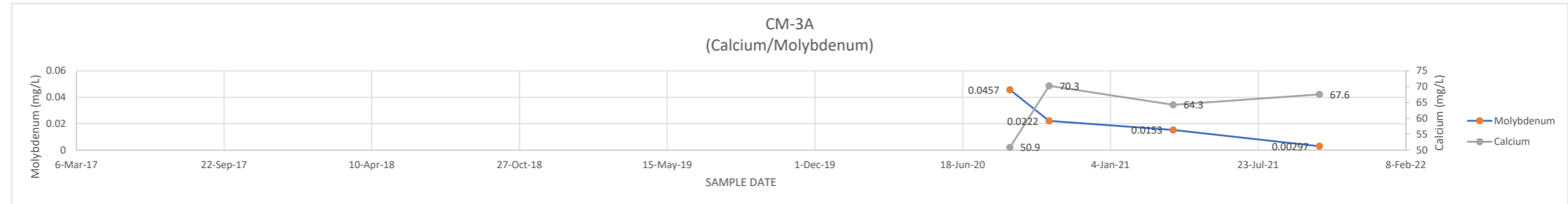
CM-1B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	233	0.0133
12-Oct-20	128	0.0144
1-Apr-21	127	0.0113
14-Oct-21	119	0.00976



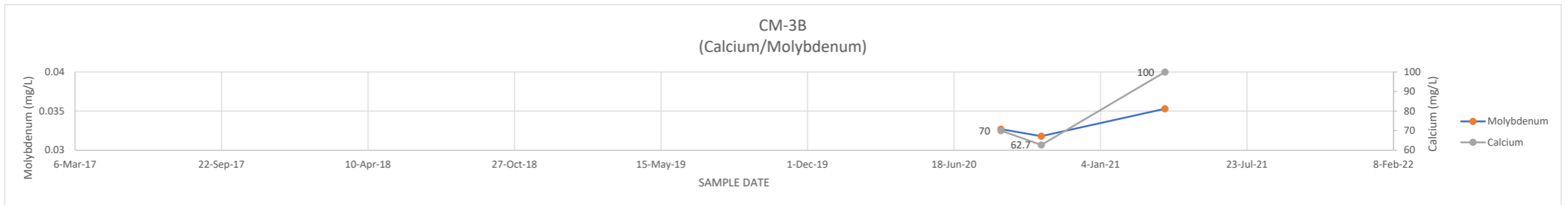
CM-2 DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	492	0.00209
7-Oct-20	491	0.00203
1-Apr-21	466	0.00161
15-Oct-21	487	0.0012



CM-3A DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	50.9	0.0457
13-Oct-20	70.3	0.0222
30-Mar-21	64.3	0.0153
14-Oct-21	67.6	0.00297

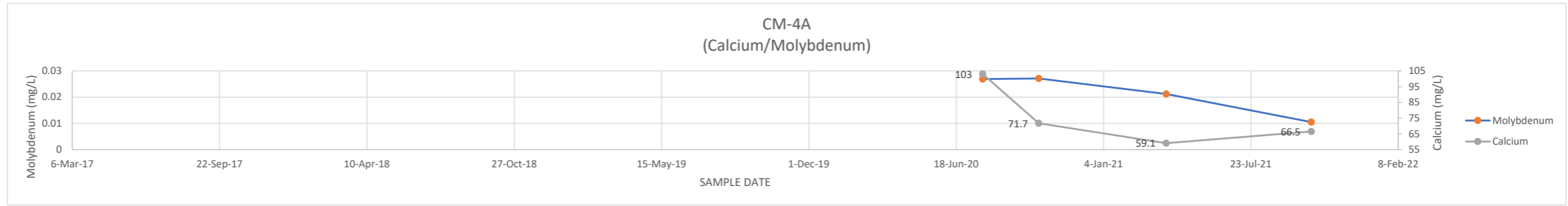


CM-3B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	70	0.0327
15-Oct-20	62.7	0.0318
2-Apr-21	100	0.0353
11-Oct-21		

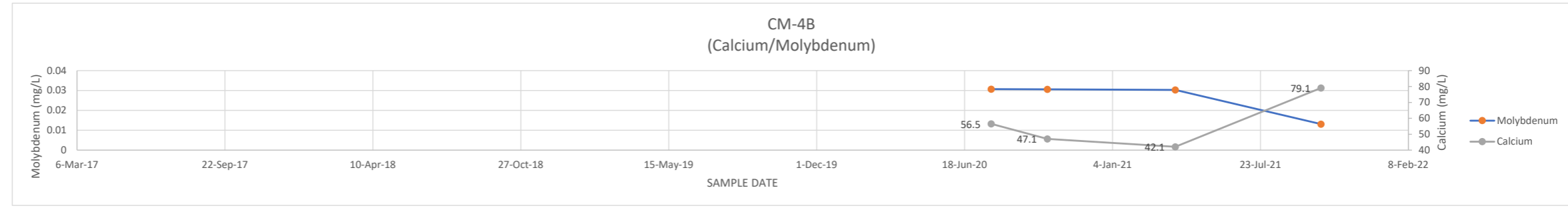


ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

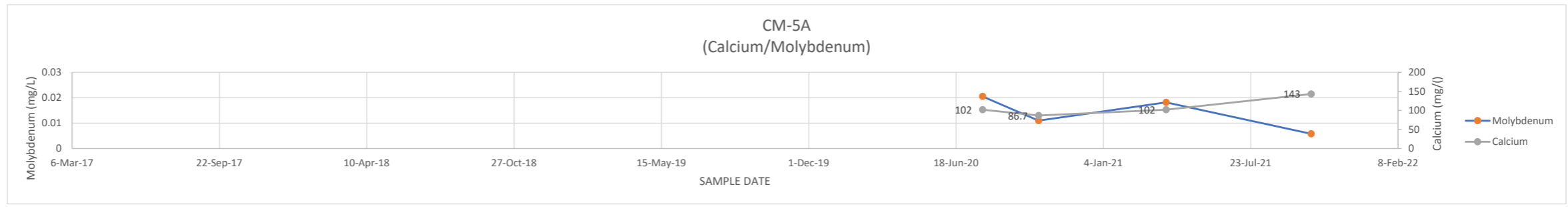
CM-4A DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	103	0.0269
8-Oct-20	71.7	0.0271
30-Mar-21	59.1	0.0212
13-Oct-21	66.5	0.0105



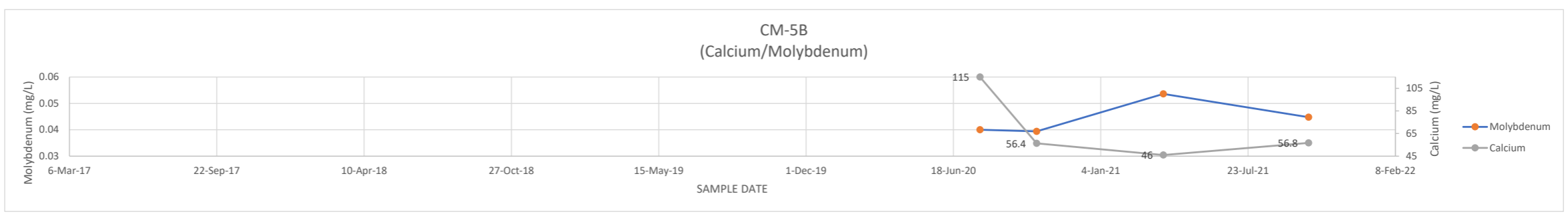
CM-4B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	56.5	0.0307
8-Oct-20	47.1	0.0306
30-Mar-21	42.1	0.0303
13-Oct-21	79.1	0.0131



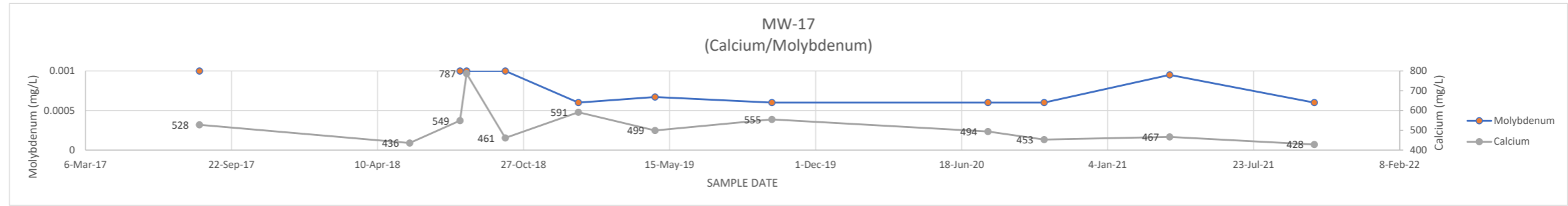
CM-5A DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	102	0.0205
8-Oct-20	86.7	0.011
30-Mar-21	102	0.0182
13-Oct-21	143	0.0058



CM-5B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	115	0.04
9-Oct-20	56.4	0.0394
30-Mar-21	46	0.0536
13-Oct-21	56.8	0.0448



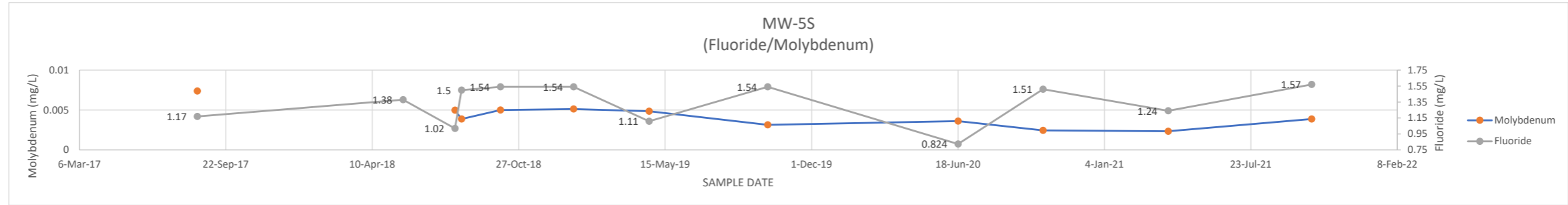
MW-17 DATE	CALCIUM	MOLYBDENUM
9-Aug-17	528	0.001
24-May-18	436	
1-Aug-18	549	0.001
10-Aug-18	787	0.001
2-Oct-18	461	0.001
10-Jan-19	591	0.0006
25-Apr-19	499	0.000671
2-Oct-19	555	0.0006
24-Jul-20	494	0.0006
9-Oct-20	453	0.0006
30-Mar-21	467	0.00095
14-Oct-21	428	0.0006



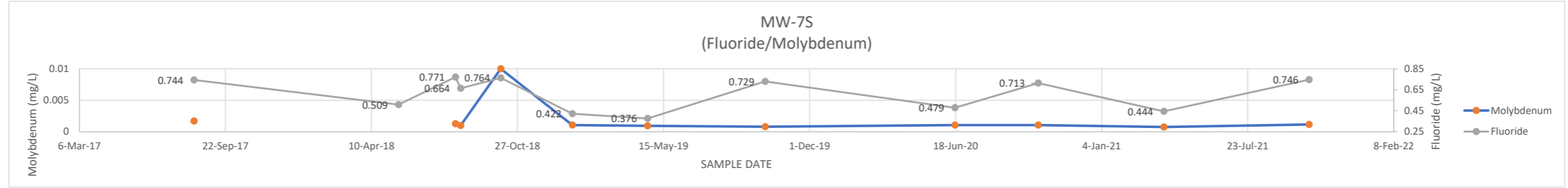
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

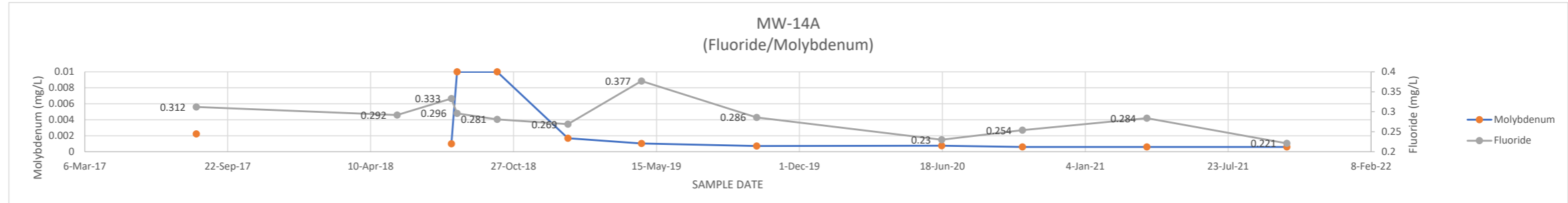
MW-5S	FLUORIDE	MOLYBDENUM
DATE		
14-Aug-17	1.17	0.00737
22-May-18	1.38	
1-Aug-18	1.02	0.00497
10-Aug-18	1.5	0.00387
2-Oct-18	1.54	0.005
10-Jan-19	1.54	0.00512
23-Apr-19	1.11	0.00485
2-Oct-19	1.54	0.00315
18-Jun-20	0.824	0.00361
12-Oct-20	1.51	0.00244
1-Apr-21	1.24	0.00234
14-Oct-21	1.57	0.00387



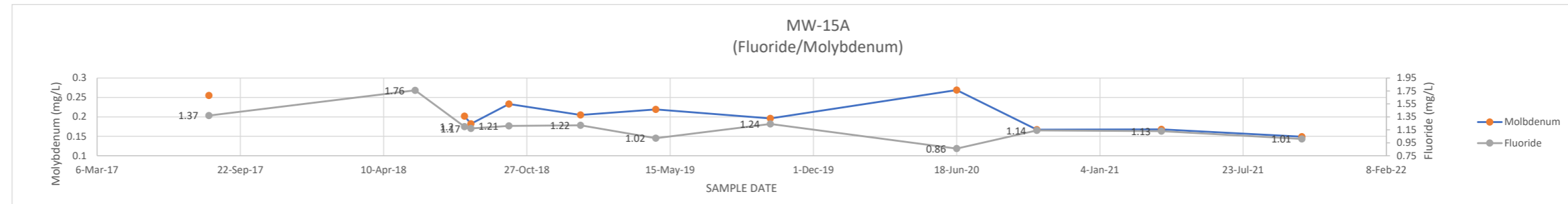
MW-7S	FLUORIDE	MOLYBDENUM
DATE		
10-Aug-17	0.744	0.00171
17-May-18	0.509	
3-Aug-18	0.771	0.00127
10-Aug-18	0.664	0.001
4-Oct-18	0.764	0.01
10-Jan-19	0.422	0.00105
23-Apr-19	0.376	0.000952
1-Oct-19	0.729	0.000798
17-Jun-20	0.479	0.00105
9-Oct-20	0.713	0.00106
30-Mar-21	0.444	0.000755
15-Oct-21	0.746	0.00115



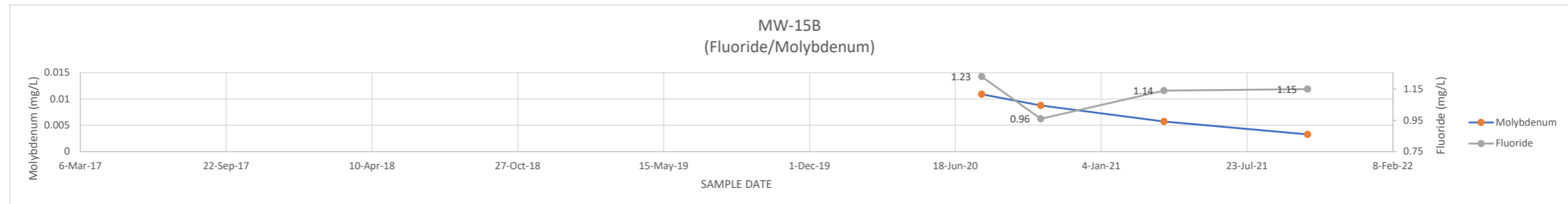
MW-14A	FLUORIDE	MOLYBDENUM
DATE		
9-Aug-17	0.312	0.00223
17-May-18	0.292	
1-Aug-18	0.333	0.001
9-Aug-18	0.296	0.01
4-Oct-18	0.281	0.01
11-Jan-19	0.269	0.0017
24-Apr-19	0.377	0.00104
2-Oct-19	0.286	0.000709
17-Jun-20	0.23	0.00076
8-Oct-20	0.254	0.0006
31-Mar-21	0.284	0.0006
13-Oct-21	0.221	0.0006



MW-15A	FLUORIDE	MOLYBDENUM
DATE		
9-Aug-17	1.37	0.255
24-May-18	1.76	
1-Aug-18	1.2	0.202
10-Aug-18	1.17	0.182
2-Oct-18	1.21	0.233
10-Jan-19	1.22	0.205
25-Apr-19	1.02	0.219
2-Oct-19	1.24	0.196
18-Jun-20	0.86	0.269
8-Oct-20	1.14	0.167
31-Mar-21	1.13	0.168
13-Oct-21	1.01	0.149



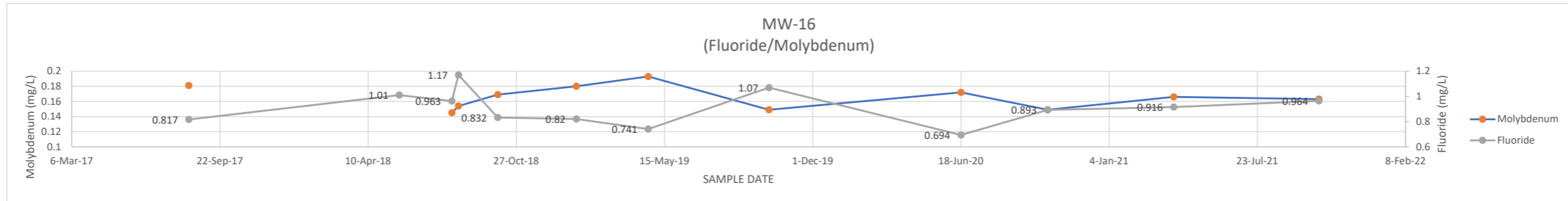
MW-15B	FLUORIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1.23	0.0109
13-Oct-20	0.96	0.00876
31-Mar-21	1.14	0.00571
14-Oct-21	1.15	0.00328



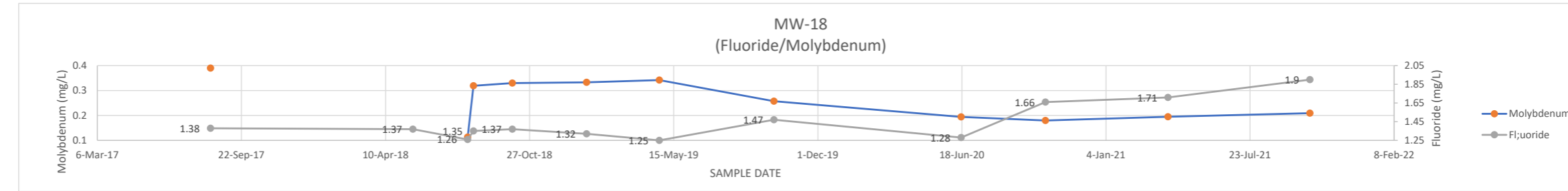
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

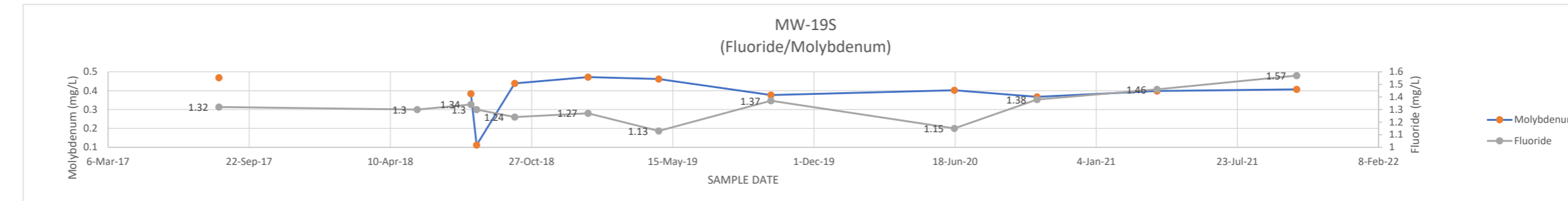
MW-16	DATE	FLUORIDE	MOLYBDENUM
11-Aug-17	0.817	0.181	
22-May-18	1.01		
1-Aug-18	0.963	0.145	
10-Aug-18	1.17	0.154	
2-Oct-18	0.832	0.169	
16-Jan-19	0.82	0.18	
23-Apr-19	0.741	0.193	
3-Oct-19	1.07	0.149	
18-Jun-20	0.694	0.172	
13-Oct-20	0.893	0.149	
1-Apr-21	0.916	0.166	
14-Oct-21	0.964	0.163	



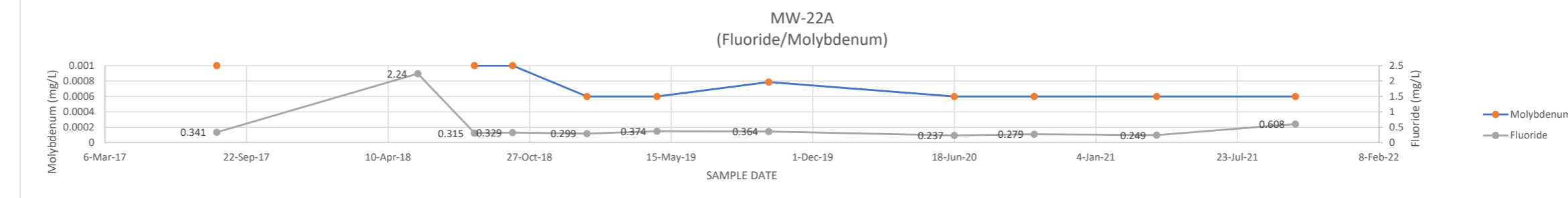
MW-18	DATE	FLUORIDE	MOLYBDENUM
10-Aug-17	1.38	0.39	
18-May-18	1.37		
2-Aug-18	1.26	0.113	
10-Aug-18	1.35	0.319	
3-Oct-18	1.37	0.33	
14-Jan-19	1.32	0.333	
25-Apr-19	1.25	0.342	
1-Oct-19	1.47	0.257	
17-Jun-20	1.28	0.194	
12-Oct-20	1.66	0.18	
31-Mar-21	1.71	0.195	
14-Oct-21	1.9	0.209	



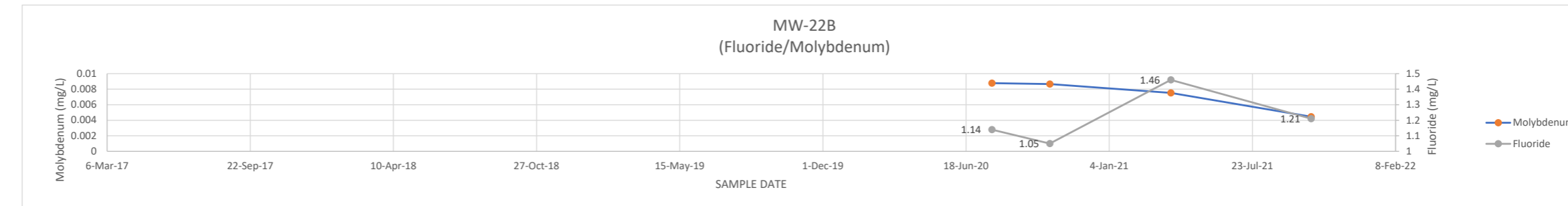
MW-19S	DATE	FLUORIDE	MOLYBDENUM
10-Aug-17	1.32	0.469	
18-May-18	1.3		
2-Aug-18	1.34	0.384	
10-Aug-18	1.3	0.112	
3-Oct-18	1.24	0.439	
15-Jan-19	1.27	0.472	
25-Apr-19	1.13	0.462	
1-Oct-19	1.37	0.377	
17-Jun-20	1.15	0.402	
12-Oct-20	1.38	0.367	
31-Mar-21	1.46	0.398	
15-Oct-21	1.57	0.407	



MW-22A	DATE	FLUORIDE	MOLYBDENUM
11-Aug-17	0.341	0.001	
22-May-18	2.24		
10-Aug-18	0.315	0.001	
3-Oct-18	0.329	0.001	
16-Jan-19	0.299	0.0006	
25-Apr-19	0.374	0.0006	
30-Sep-19	0.364	0.000787	
18-Jun-20	0.237	0.0006	
9-Oct-20	0.279	0.0006	
31-Mar-21	0.249	0.0006	
13-Oct-21	0.608	0.0006	



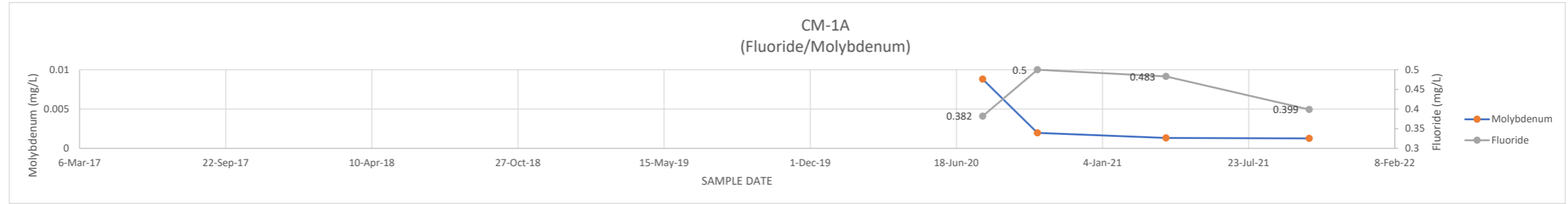
MW-22B	DATE	FLUORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	1.14	0.00878	
13-Oct-20	1.05	0.00866	
31-Mar-21	1.46	0.00753	
13-Oct-21	1.21	0.00446	



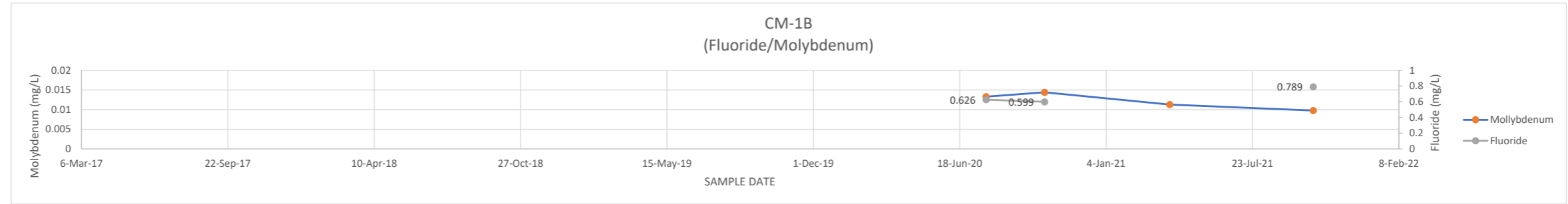
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

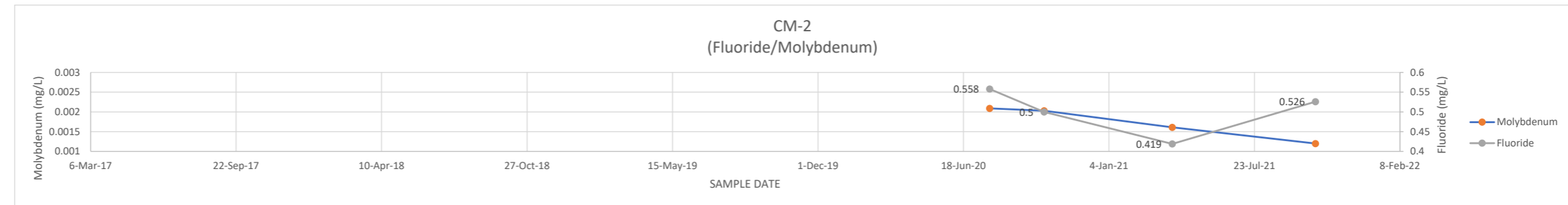
CM-1A DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.382	0.0088
7-Oct-20	0.5	0.00198
1-Apr-21	0.483	0.00132
14-Oct-21	0.399	0.00127



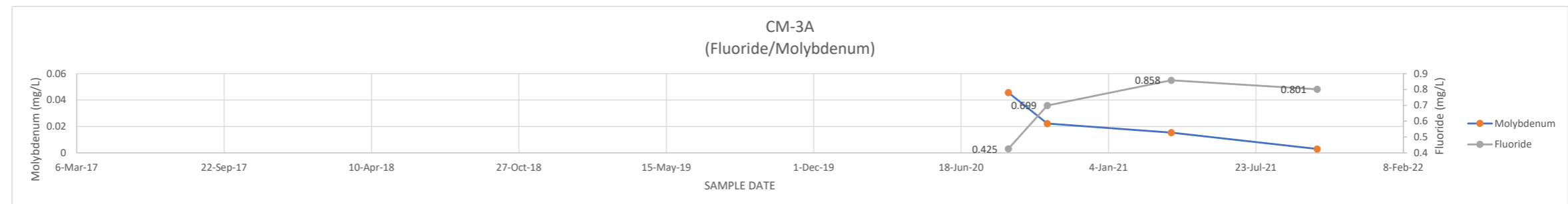
CM-1B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.626	0.0133
12-Oct-20	0.599	0.0144
1-Apr-21		0.0113
14-Oct-21	0.789	0.00976



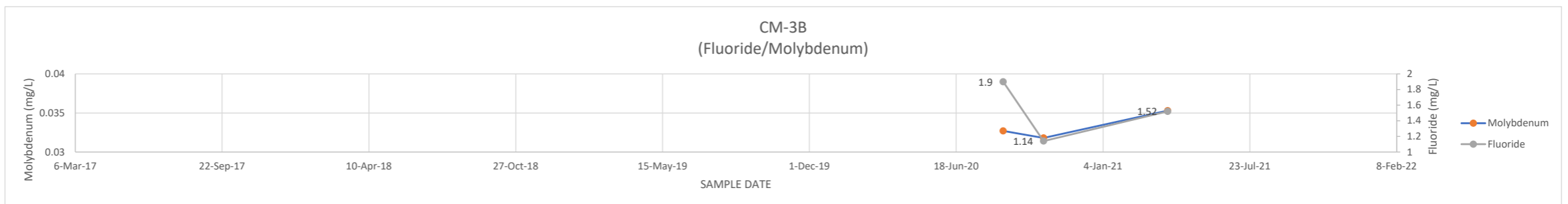
CM-2 DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.558	0.00209
7-Oct-20	0.5	0.00203
1-Apr-21	0.419	0.00161
15-Oct-21	0.526	0.0012



CM-3A DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	0.425	0.0457
13-Oct-20	0.699	0.0222
30-Mar-21	0.858	0.0153
14-Oct-21	0.801	0.00297



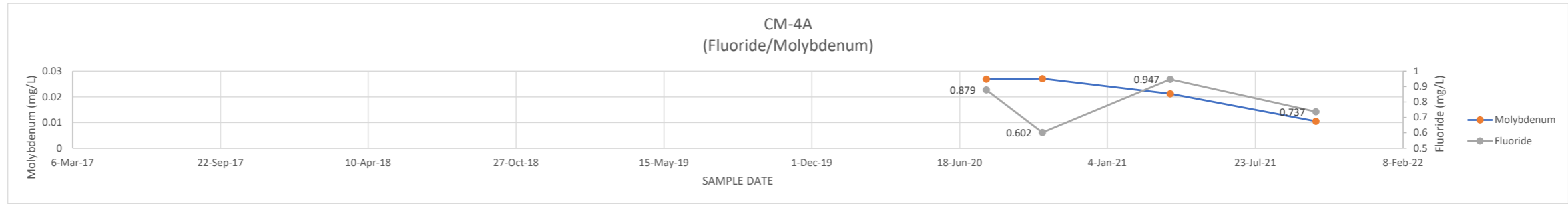
CM-3B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	1.9	0.0327
15-Oct-20	1.14	0.0318
2-Apr-21	1.52	0.0353
11-Oct-21		



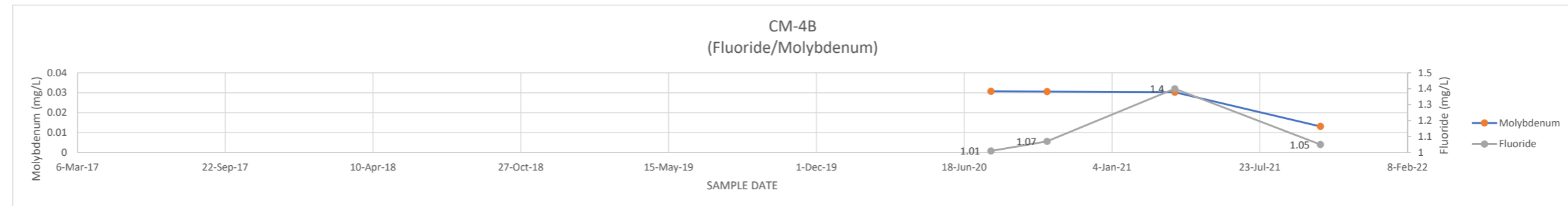
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

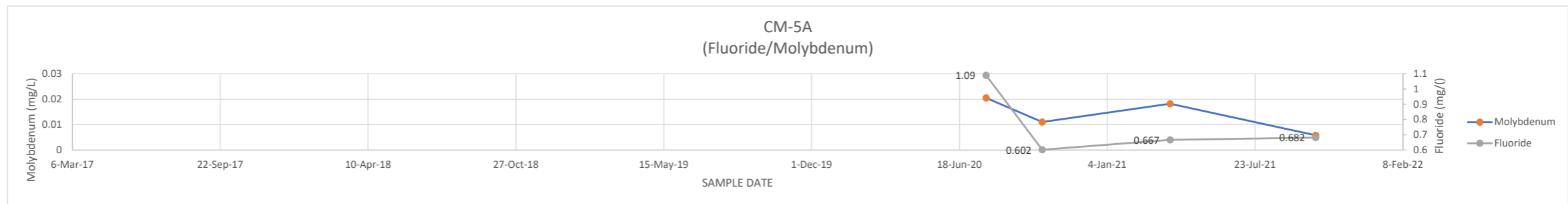
CM-4A DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.879	0.0269
8-Oct-20	0.602	0.0271
30-Mar-21	0.947	0.0212
13-Oct-21	0.737	0.0105



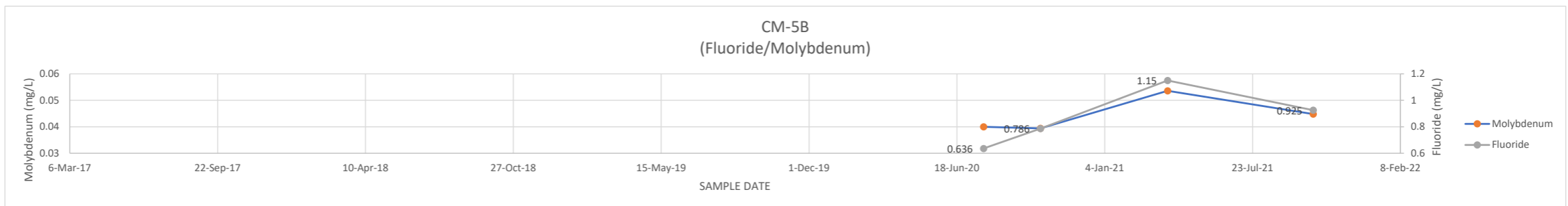
CM-4B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1.01	0.0307
8-Oct-20	1.07	0.0306
30-Mar-21	1.4	0.0303
13-Oct-21	1.05	0.0131



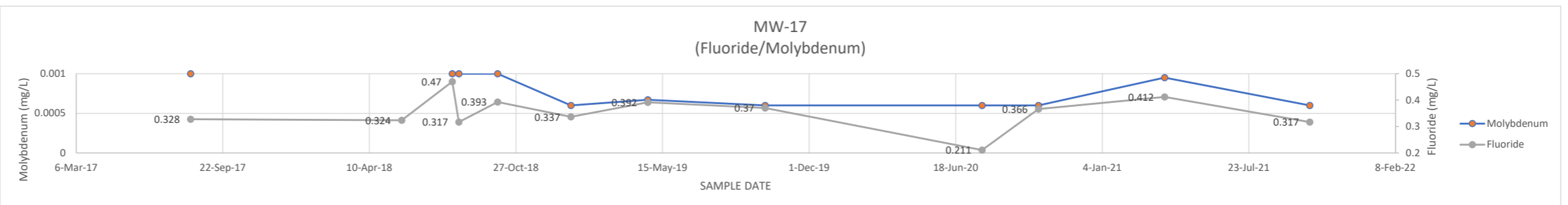
CM-5A DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1.09	0.0205
8-Oct-20	0.602	0.011
30-Mar-21	0.667	0.0182
13-Oct-21	0.682	0.0058



CM-5B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.636	0.04
9-Oct-20	0.786	0.0394
30-Mar-21	1.15	0.0536
13-Oct-21	0.925	0.0448



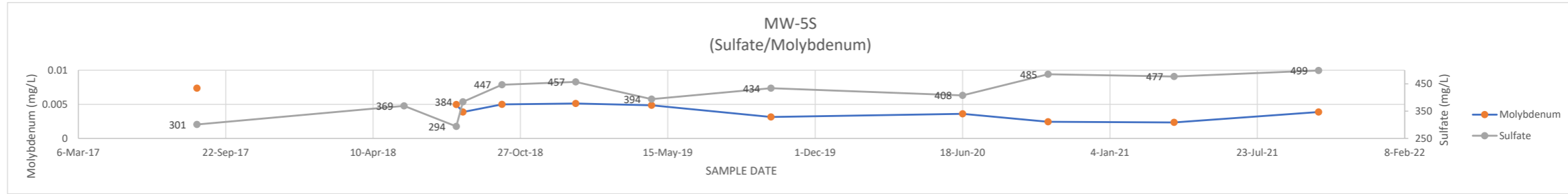
MW-17 DATE	FLUORIDE	MOLYBDENUM
9-Aug-17	0.328	0.001
24-May-18	0.324	0.001
1-Aug-18	0.47	0.001
10-Aug-18	0.317	0.001
2-Oct-18	0.393	0.001
10-Jan-19	0.337	0.0006
25-Apr-19	0.392	0.000671
2-Oct-19	0.37	0.0006
24-Jul-20	0.211	0.0006
9-Oct-20	0.366	0.0006
30-Mar-21	0.412	0.00095
14-Oct-21	0.317	0.0006



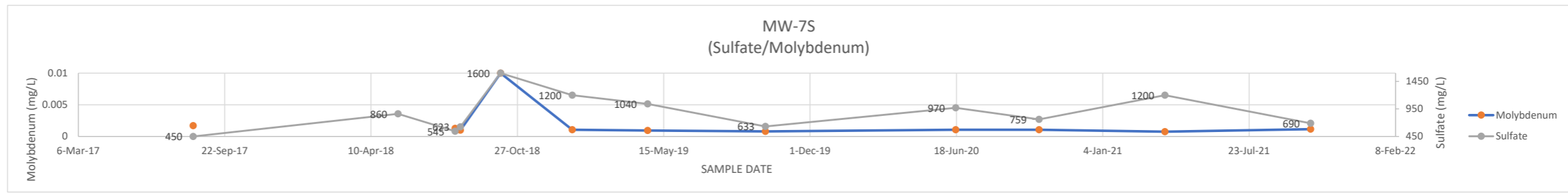
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

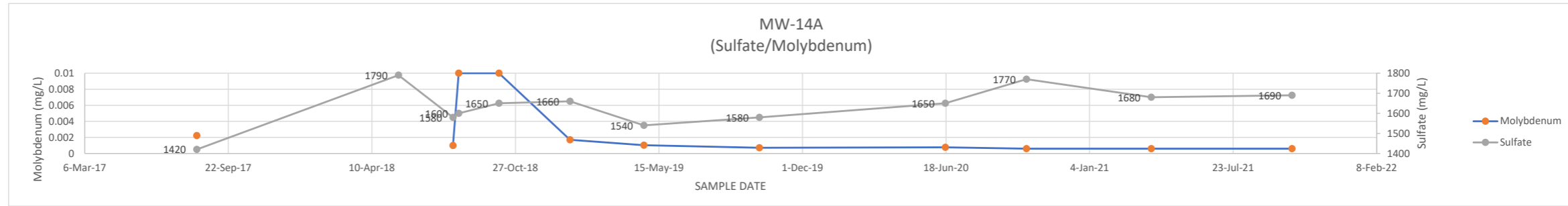
MW-5S DATE	SULFATE	MOLYBDENUM
14-Aug-17	301	0.00737
22-May-18	369	
1-Aug-18	294	0.00497
10-Aug-18	384	0.00387
2-Oct-18	447	0.005
10-Jan-19	457	0.00512
23-Apr-19	394	0.00485
2-Oct-19	434	0.00315
18-Jun-20	408	0.00361
12-Oct-20	485	0.00244
1-Apr-21	477	0.00234
14-Oct-21	499	0.00387



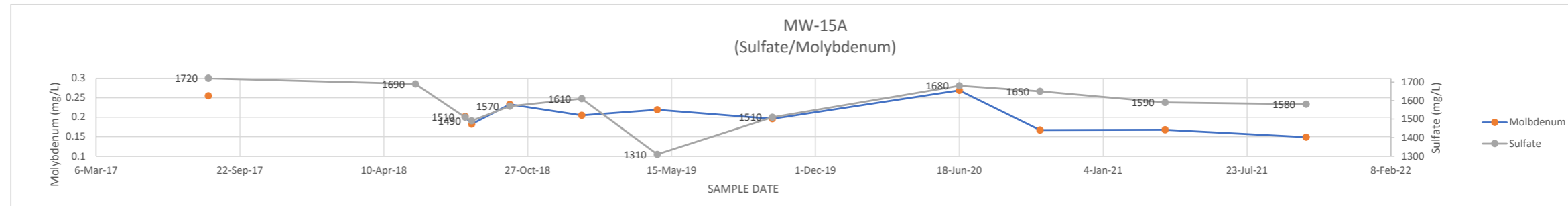
MW-7S DATE	SULFATE	MOLYBDENUM
10-Aug-17	450	0.00171
17-May-18	860	
3-Aug-18	545	0.00127
10-Aug-18	623	0.001
4-Oct-18	1600	0.01
10-Jan-19	1200	0.00105
23-Apr-19	1040	0.000952
1-Oct-19	633	0.000798
17-Jun-20	970	0.00105
9-Oct-20	759	0.00106
30-Mar-21	1200	0.000755
15-Oct-21	690	0.00115



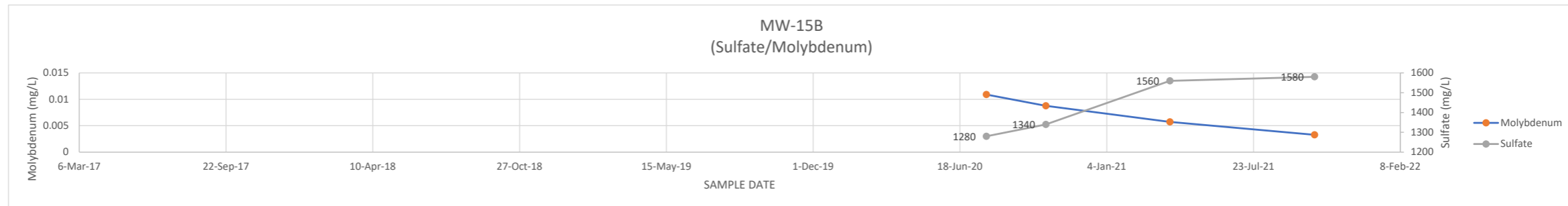
MW-14A DATE	SULFATE	MOLYBDENUM
9-Aug-17	1420	0.00223
17-May-18	1790	
1-Aug-18	1580	0.001
9-Aug-18	1600	0.01
4-Oct-18	1650	0.01
11-Jan-19	1660	0.0017
24-Apr-19	1540	0.00104
2-Oct-19	1580	0.000709
17-Jun-20	1650	0.00076
8-Oct-20	1770	0.0006
31-Mar-21	1680	0.0006
13-Oct-21	1690	0.0006



MW-15A DATE	SULFATE	MOLYBDENUM
9-Aug-17	1720	0.255
24-May-18	1690	
1-Aug-18	1510	0.202
10-Aug-18	1490	0.182
2-Oct-18	1570	0.233
10-Jan-19	1610	0.205
25-Apr-19	1310	0.219
2-Oct-19	1510	0.196
18-Jun-20	1680	0.269
8-Oct-20	1650	0.167
31-Mar-21	1590	0.168
13-Oct-21	1580	0.149



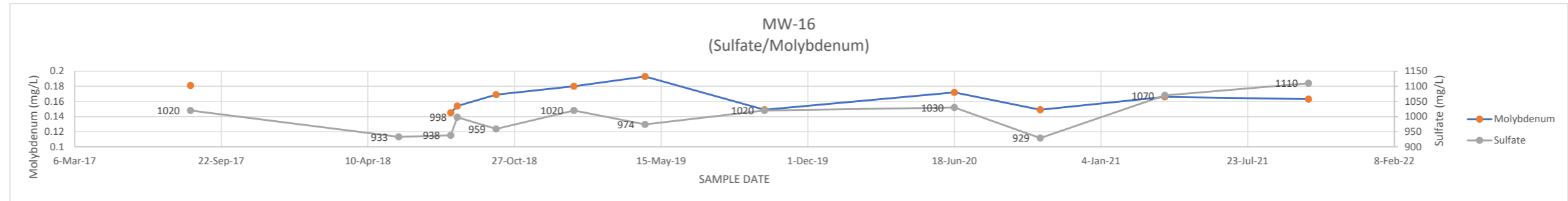
MW-15B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1280	0.0109
13-Oct-20	1340	0.00876
31-Mar-21	1560	0.00571
14-Oct-21	1580	0.00328



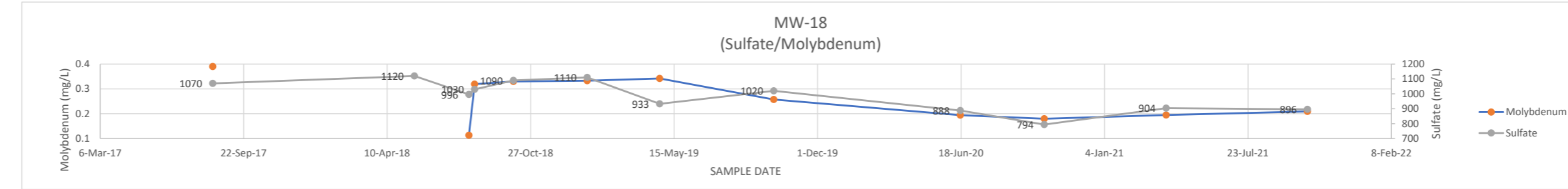
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

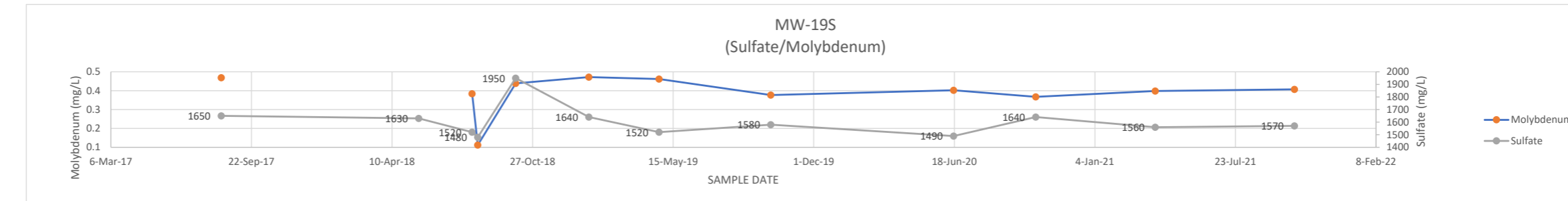
MW-16	SULFATE	MOLYBDENUM
DATE		
11-Aug-17	1020	0.181
22-May-18	933	
1-Aug-18	938	0.145
10-Aug-18	998	0.154
2-Oct-18	959	0.169
16-Jan-19	1020	0.18
23-Apr-19	974	0.193
3-Oct-19	1020	0.149
18-Jun-20	1030	0.172
13-Oct-20	929	0.149
1-Apr-21	1070	0.166
14-Oct-21	1110	0.163



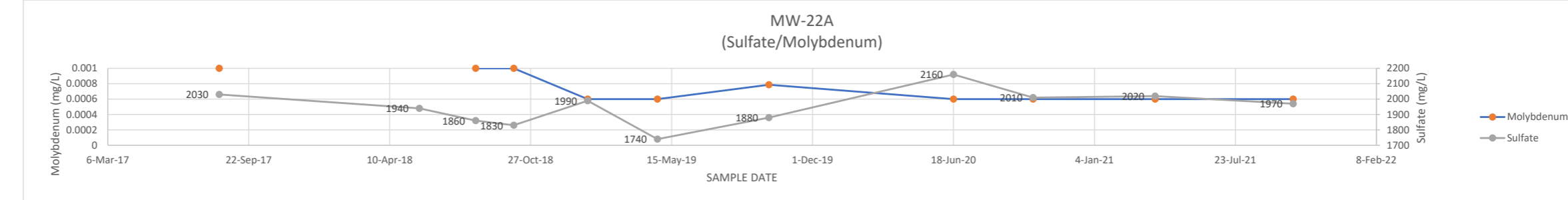
MW-18	SULFATE	MOLYBDENUM
DATE		
10-Aug-17	1070	0.39
18-May-18	1120	
2-Aug-18	996	0.113
10-Aug-18	1030	0.319
3-Oct-18	1090	0.33
14-Jan-19	1110	0.333
25-Apr-19	933	0.342
1-Oct-19	1020	0.257
17-Jun-20	888	0.194
12-Oct-20	794	0.18
31-Mar-21	904	0.195
14-Oct-21	896	0.209



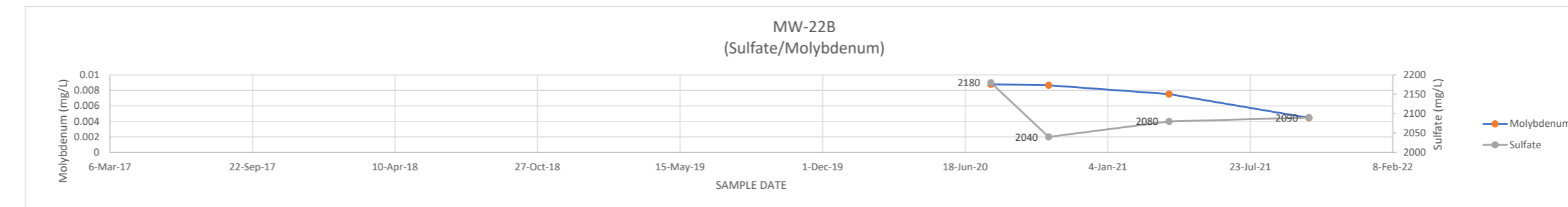
MW-19S	SULFATE	MOLYBDENUM
DATE		
10-Aug-17	1650	0.469
18-May-18	1630	
2-Aug-18	1520	0.384
10-Aug-18	1480	0.112
3-Oct-18	1950	0.439
15-Jan-19	1640	0.472
25-Apr-19	1520	0.462
1-Oct-19	1580	0.377
17-Jun-20	1490	0.402
12-Oct-20	1640	0.367
31-Mar-21	1560	0.398
15-Oct-21	1570	0.407



MW-22A	SULFATE	MOLYBDENUM
DATE		
11-Aug-17	2030	0.001
22-May-18	1940	
10-Aug-18	1860	0.001
3-Oct-18	1830	0.001
16-Jan-19	1990	0.0006
25-Apr-19	1740	0.0006
30-Sep-19	1880	0.000787
18-Jun-20	2160	0.0006
9-Oct-20	2010	0.0006
31-Mar-21	2020	0.0006
13-Oct-21	1970	0.0006



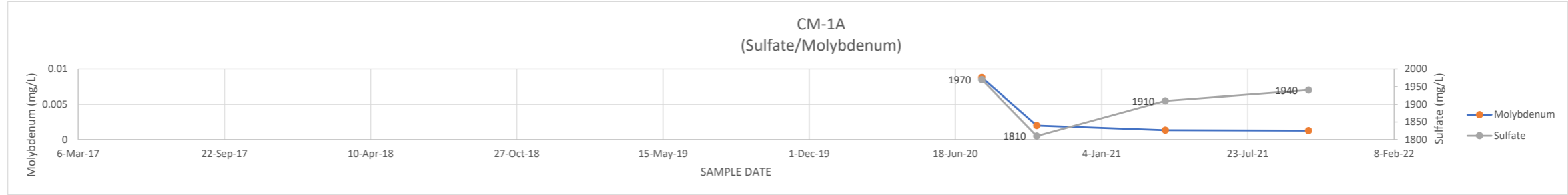
MW-22B	SULFATE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2180	0.00878
13-Oct-20	2040	0.00866
31-Mar-21	2080	0.00753
13-Oct-21	2090	0.00446



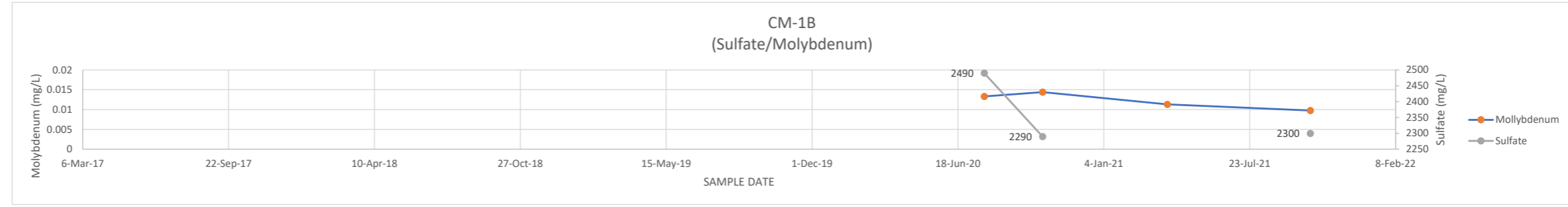
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

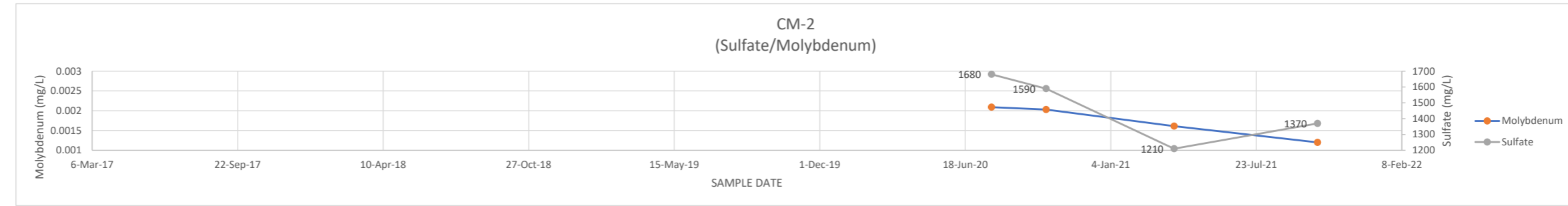
CM-1A DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1970	0.0088
7-Oct-20	1810	0.00198
1-Apr-21	1910	0.00132
14-Oct-21	1940	0.00127



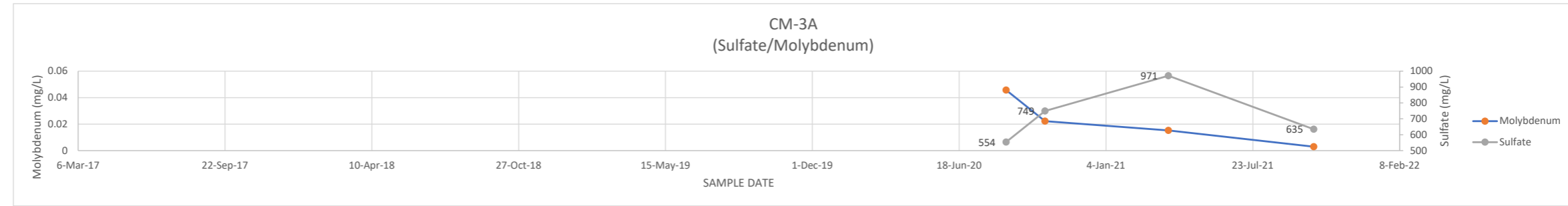
CM-1B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2490	0.0133
12-Oct-20	2290	0.0144
1-Apr-21	2300	0.0113
14-Oct-21	2300	0.00976



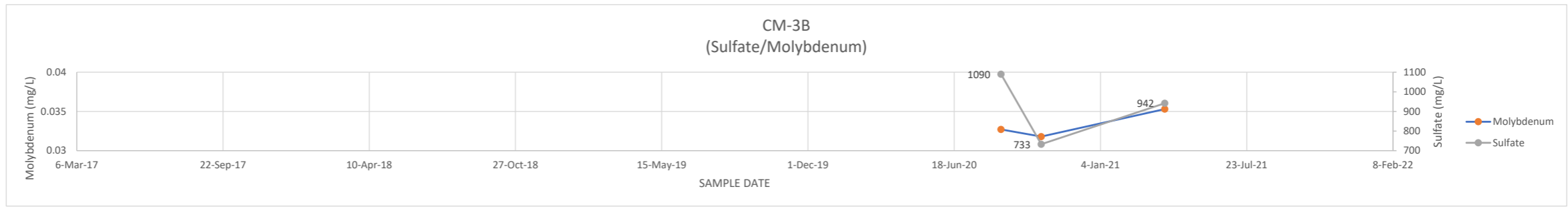
CM-2 DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1680	0.00209
7-Oct-20	1590	0.00203
1-Apr-21	1210	0.00161
15-Oct-21	1370	0.0012



CM-3A DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	554	0.0457
13-Oct-20	749	0.0222
30-Mar-21	971	0.0153
14-Oct-21	635	0.00297

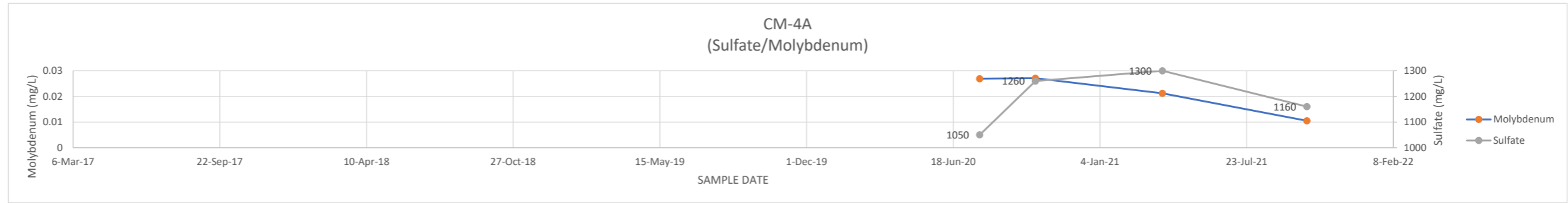


CM-3B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	1090	0.0327
15-Oct-20	733	0.0318
2-Apr-21	942	0.0353
11-Oct-21		

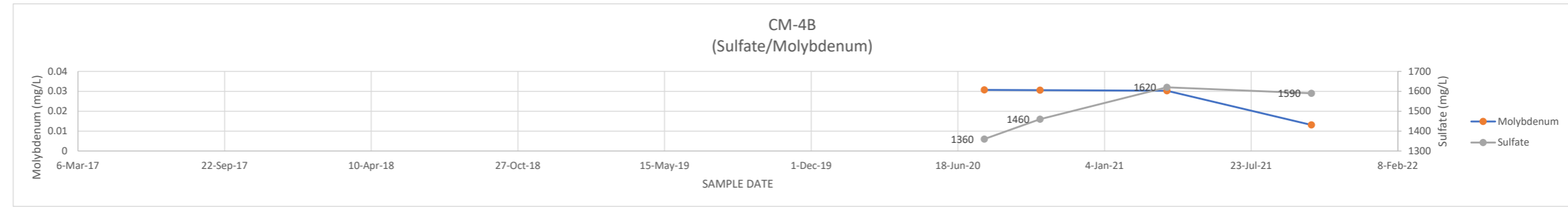


ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

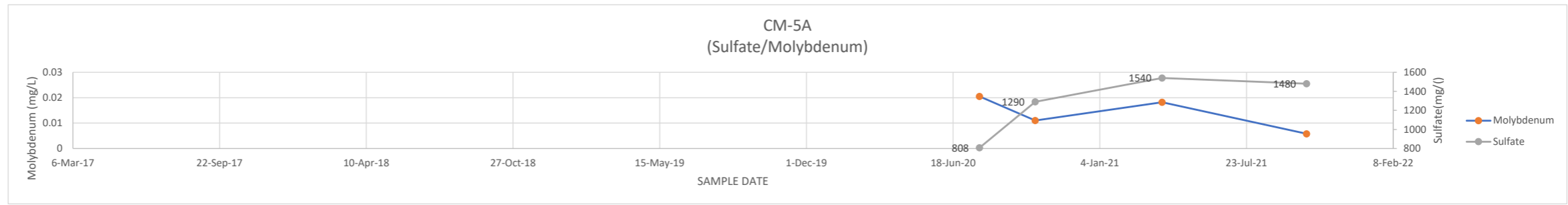
CM-4A DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1050	0.0269
8-Oct-20	1260	0.0271
30-Mar-21	1300	0.0212
13-Oct-21	1160	0.0105



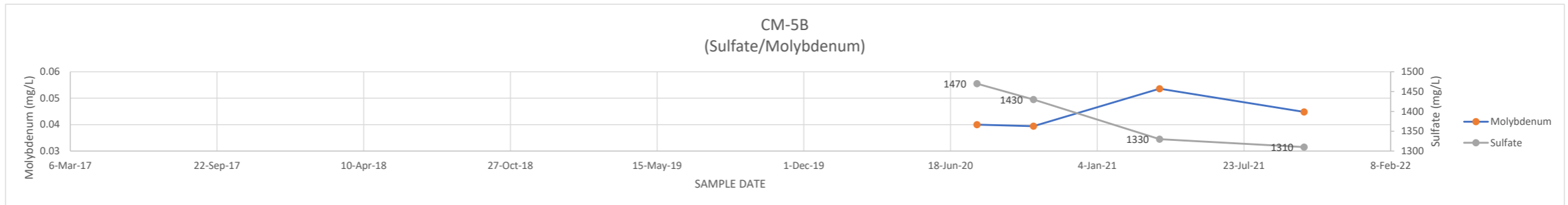
CM-4B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1360	0.0307
8-Oct-20	1460	0.0306
30-Mar-21	1620	0.0303
13-Oct-21	1590	0.0131



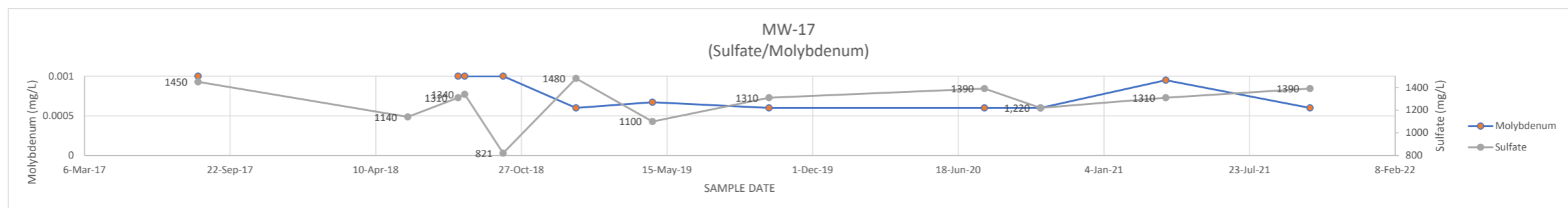
CM-5A DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	808	0.0205
8-Oct-20	1290	0.011
30-Mar-21	1540	0.0182
13-Oct-21	1480	0.0058



CM-5B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1470	0.04
9-Oct-20	1430	0.0394
30-Mar-21	1330	0.0536
13-Oct-21	1310	0.0448



MW-17 DATE	SULFATE	MOLYBDENUM
9-Aug-17	1450	0.001
24-May-18	1140	
1-Aug-18	1310	0.001
10-Aug-18	1340	0.001
2-Oct-18	821	0.001
10-Jan-19	1480	0.0006
25-Apr-19	1100	0.000671
2-Oct-19	1310	0.0006
24-Jul-20	1390	0.0006
9-Oct-20	1,220	0.0006
30-Mar-21	1310	0.00095
14-Oct-21	1390	0.0006



Yellow Indicates Reported Below shown value (MDL)

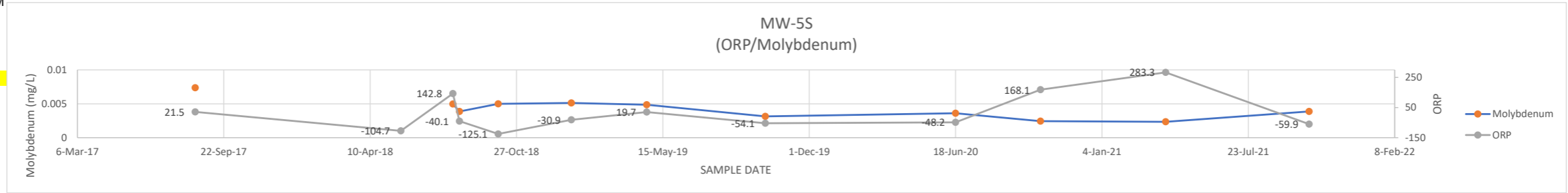
ATTACHMENT G

CHANGES IN CONCENTRATION OF INDICATOR PARAMETERS FOR MNA COMPARED TO CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

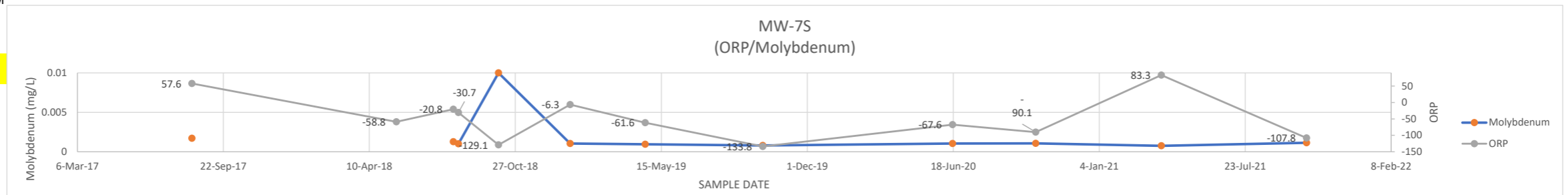
- G-1: CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS
- G-2: CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS
- G-3: CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS
- G-4: CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS
- G-5: CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS
- G-6: CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

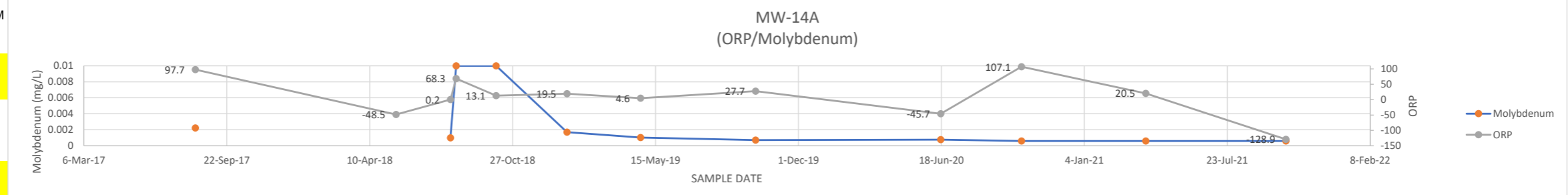
MW-5S	ORP	MOLYBDENUM
DATE		
14-Aug-17	21.5	0.00737
22-May-18	-104.7	
1-Aug-18	142.8	0.00497
10-Aug-18	-40.1	0.00387
2-Oct-18	-125.1	0.005
10-Jan-19	-30.9	0.00512
23-Apr-19	19.7	0.00485
2-Oct-19	-54.1	0.00315
18-Jun-20	-48.2	0.00361
12-Oct-20	168.1	0.00244
1-Apr-21	283.3	0.00234
14-Oct-21	-59.9	0.00387



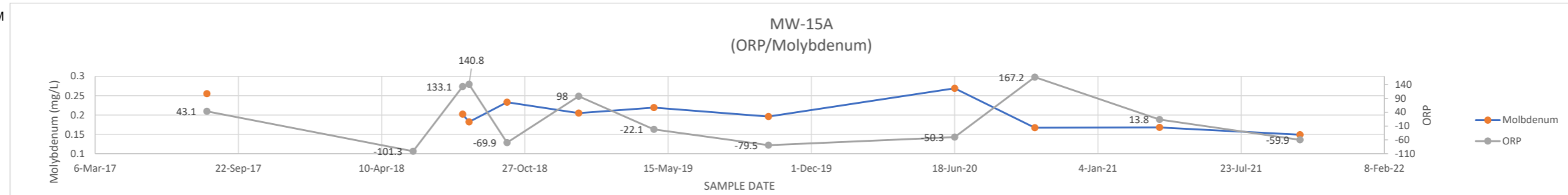
MW-7S	ORP	MOLYBDENUM
DATE		
10-Aug-17	57.6	0.00171
17-May-18	-58.8	
3-Aug-18	-20.8	0.00127
10-Aug-18	-30.7	0.001
4-Oct-18	-129.1	0.01
10-Jan-19	-6.3	0.00105
23-Apr-19	-61.6	0.000952
1-Oct-19	-133.8	0.000798
17-Jun-20	-67.6	0.00105
9-Oct-20	-90.1	0.00106
30-Mar-21	83.3	0.000755
15-Oct-21	-107.8	0.00115



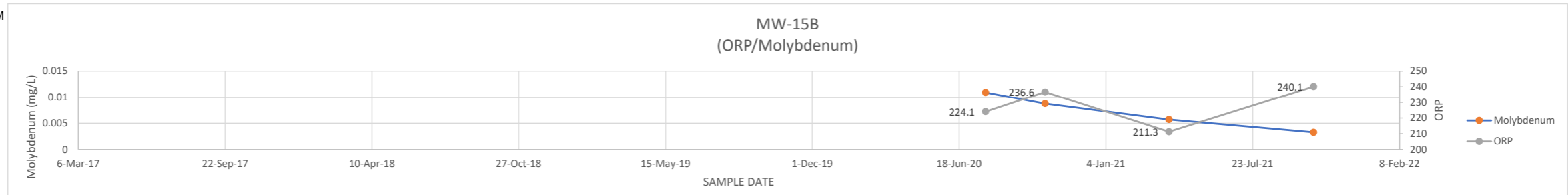
MW-14A	ORP	MOLYBDENUM
DATE		
9-Aug-17	97.7	0.00223
17-May-18	-48.5	
1-Aug-18	0.2	0.001
9-Aug-18	68.3	0.01
4-Oct-18	13.1	0.01
11-Jan-19	19.5	0.0017
24-Apr-19	4.6	0.00104
2-Oct-19	27.7	0.000709
17-Jun-20	-45.7	0.00076
8-Oct-20	107.1	0.0006
31-Mar-21	20.5	0.0006
13-Oct-21	-128.9	0.0006



MW-15A	ORP	MOLYBDENUM
DATE		
9-Aug-17	43.1	0.255
24-May-18	-101.3	
1-Aug-18	133.1	0.202
10-Aug-18	140.8	0.182
2-Oct-18	-69.9	0.233
10-Jan-19	98	0.205
25-Apr-19	-22.1	0.219
2-Oct-19	-79.5	0.196
18-Jun-20	-50.3	0.269
8-Oct-20	167.2	0.167
31-Mar-21	13.8	0.168
13-Oct-21	-59.9	0.149



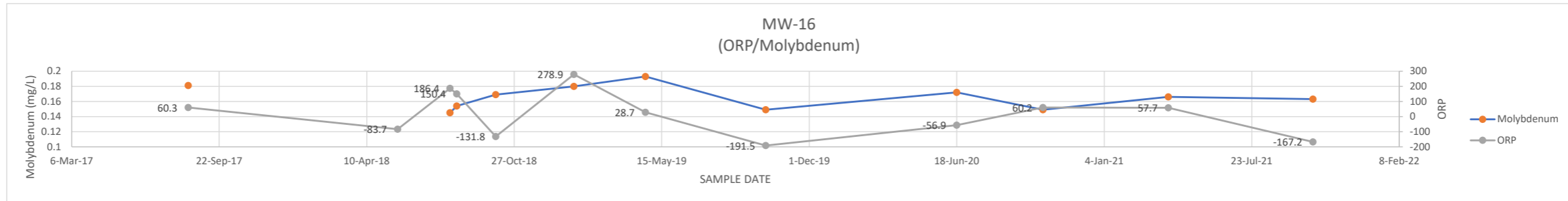
MW-15B	ORP	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	224.1	0.0109
13-Oct-20	236.6	0.00876
31-Mar-21	211.3	0.00571
14-Oct-21	240.1	0.00328



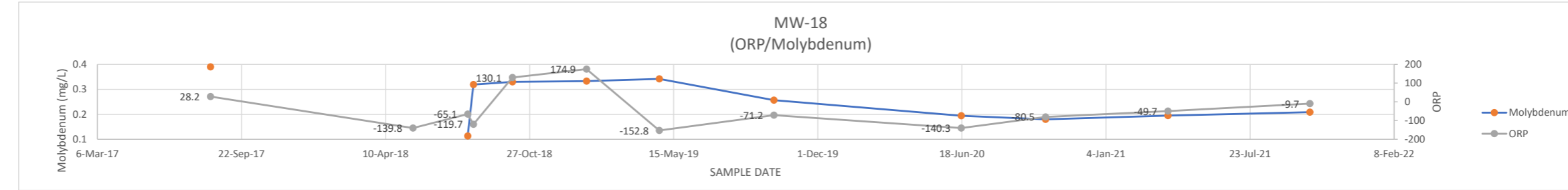
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

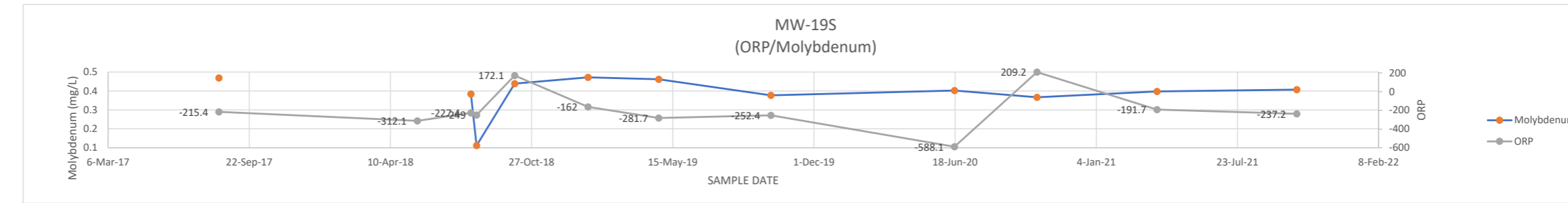
MW-16	ORP	MOLYBDENUM
DATE		
11-Aug-17	60.3	0.181
22-May-18	-83.7	
1-Aug-18	186.4	0.145
10-Aug-18	150.4	0.154
2-Oct-18	-131.8	0.169
16-Jan-19	278.9	0.18
23-Apr-19	28.7	0.193
3-Oct-19	-191.5	0.149
18-Jun-20	-56.9	0.172
13-Oct-20	60.2	0.149
1-Apr-21	57.7	0.166
14-Oct-21	-167.2	0.163



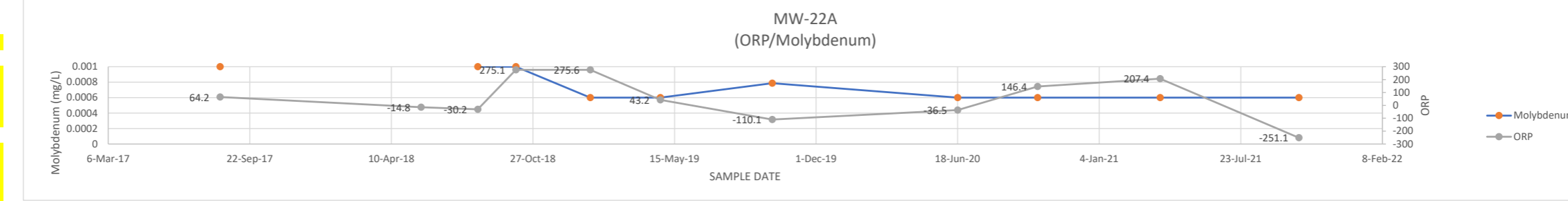
MW-18	ORP	MOLYBDENUM
DATE		
10-Aug-17	28.2	0.39
18-May-18	-139.8	
2-Aug-18	-65.1	0.113
10-Aug-18	-119.7	0.319
3-Oct-18	130.1	0.33
14-Jan-19	174.9	0.333
25-Apr-19	-152.8	0.342
1-Oct-19	-71.2	0.257
17-Jun-20	-140.3	0.194
12-Oct-20	-80.5	0.18
31-Mar-21	-49.7	0.195
14-Oct-21	-9.7	0.209



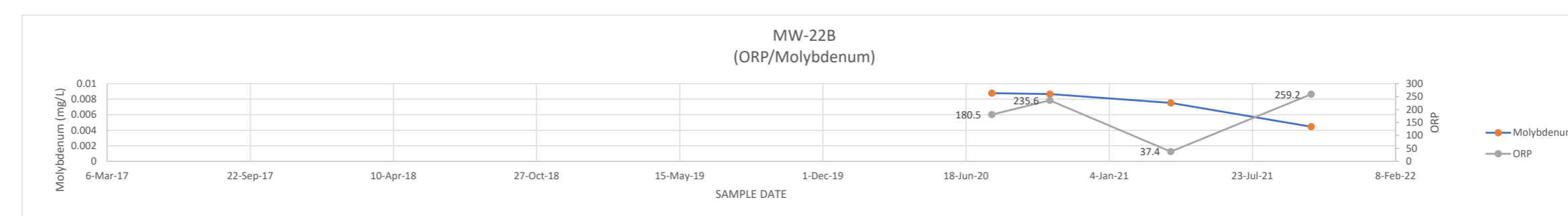
MW-19S	ORP	MOLYBDENUM
DATE		
10-Aug-17	-215.4	0.469
18-May-18	-312.1	
2-Aug-18	-227.4	0.384
10-Aug-18	-249	0.112
3-Oct-18	172.1	0.439
15-Jan-19	-162	0.472
25-Apr-19	-281.7	0.462
1-Oct-19	-252.4	0.377
17-Jun-20	-588.1	0.402
12-Oct-20	209.2	0.367
31-Mar-21	-191.7	0.398
15-Oct-21	-237.2	0.407



MW-22A	ORP	MOLYBDENUM
DATE		
11-Aug-17	64.2	0.001
22-May-18	-14.8	
10-Aug-18	-30.2	0.001
3-Oct-18	275.1	0.001
16-Jan-19	275.6	0.0006
25-Apr-19	43.2	0.0006
30-Sep-19	-110.1	0.000787
18-Jun-20	-36.5	0.0006
9-Oct-20	146.4	0.0006
31-Mar-21	207.4	0.0006
13-Oct-21	-251.1	0.0006



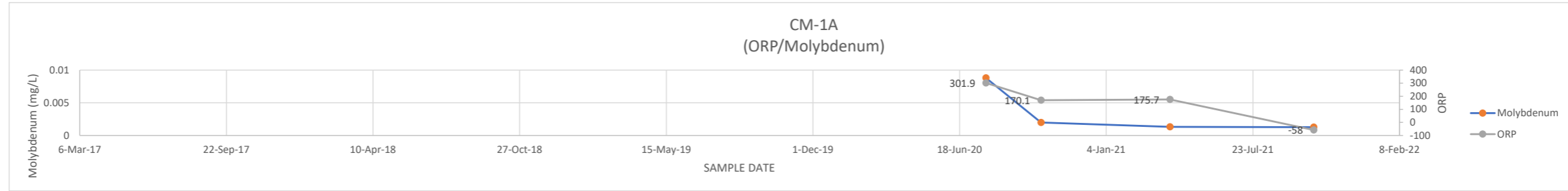
MW-22B	ORP	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	180.5	0.00878
13-Oct-20	235.6	0.00866
31-Mar-21	37.4	0.00753
13-Oct-21	259.2	0.00446



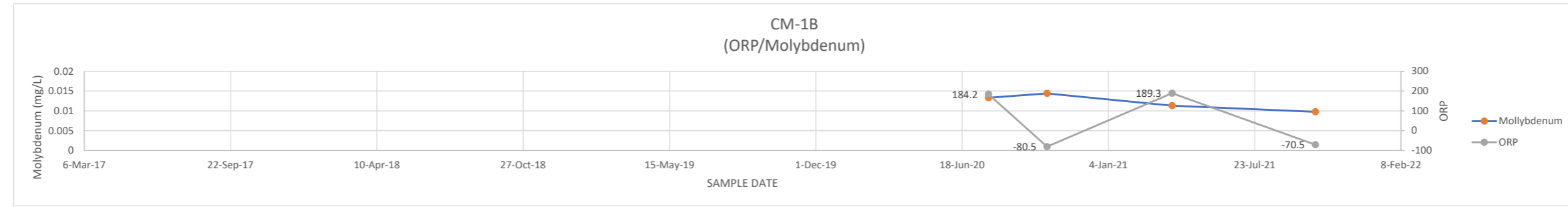
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

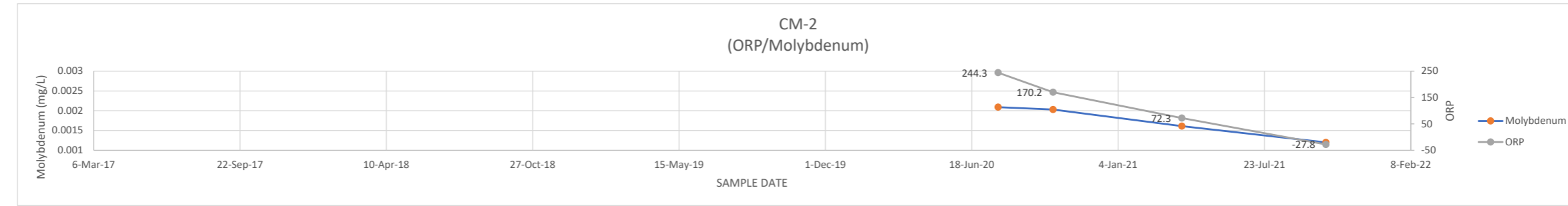
CM-1A DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	301.9	0.0088
7-Oct-20	170.1	0.00198
1-Apr-21	175.7	0.00132
14-Oct-21	-58	0.00127



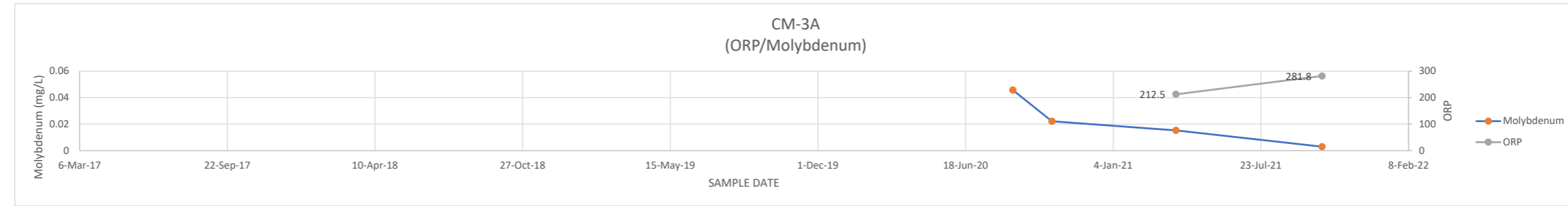
CM-1B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	184.2	0.0133
12-Oct-20	-80.5	0.0144
1-Apr-21	189.3	0.0113
14-Oct-21	-70.5	0.00976



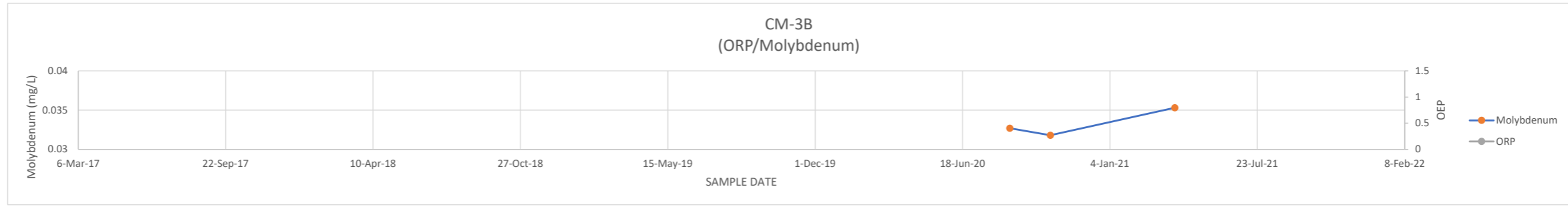
CM-2 DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	244.3	0.00209
7-Oct-20	170.2	0.00203
1-Apr-21	72.3	0.00161
15-Oct-21	-27.8	0.0012



CM-3A DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20		0.0222
30-Mar-21	212.5	0.0153
14-Oct-21	281.8	0.00297

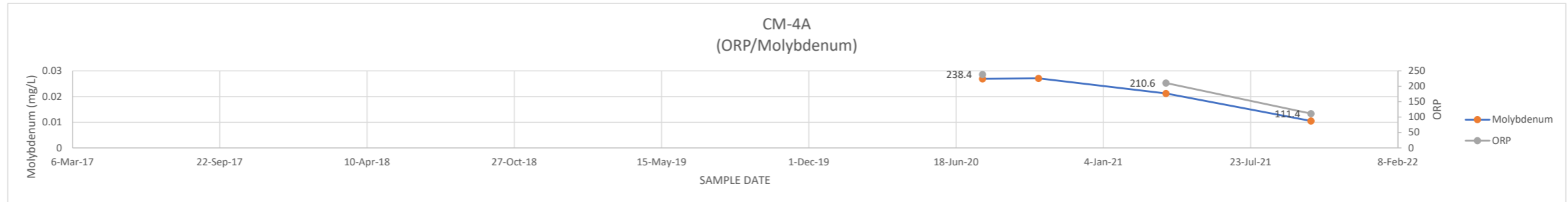


CM-3B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		

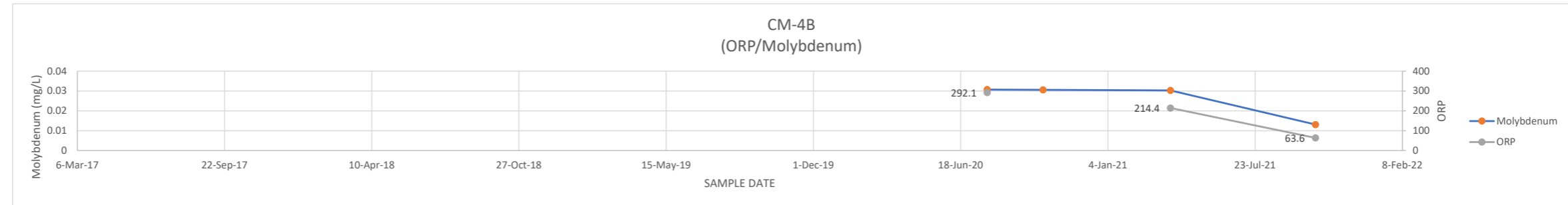


ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

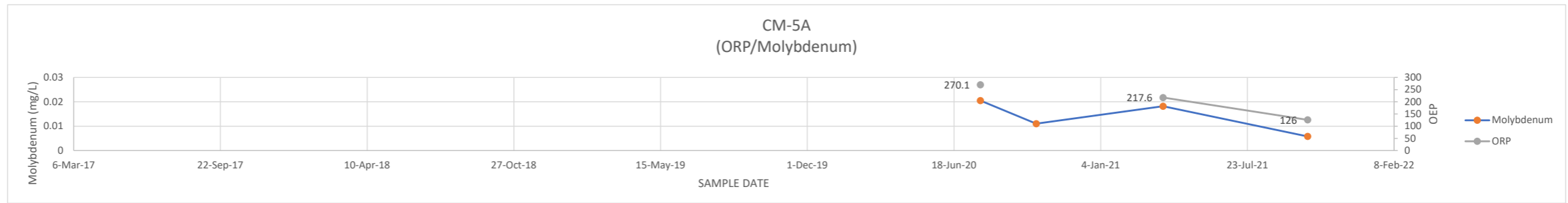
CM-4A DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	238.4	0.0269
8-Oct-20		0.0271
30-Mar-21	210.6	0.0212
13-Oct-21	111.4	0.0105



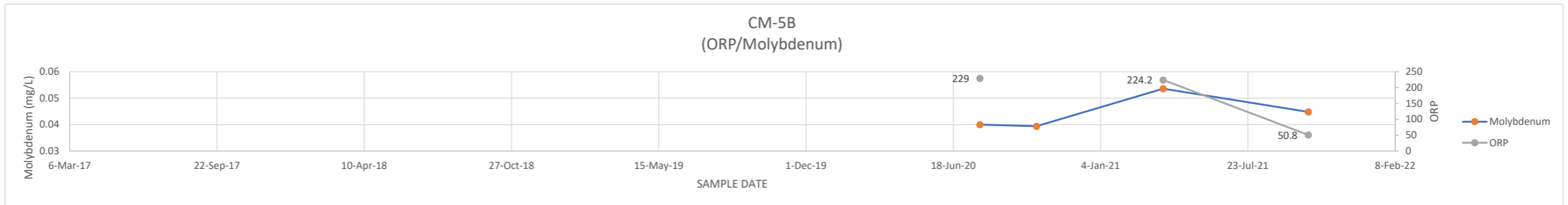
CM-4B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	292.1	0.0307
8-Oct-20		0.0306
30-Mar-21	214.4	0.0303
13-Oct-21	63.6	0.0131



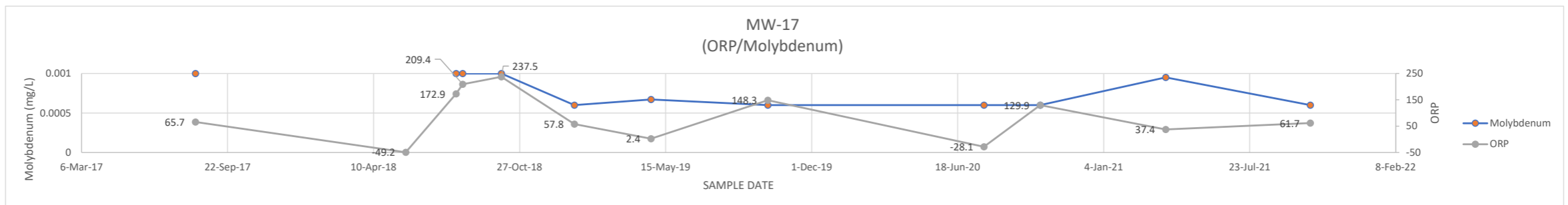
CM-5A DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	270.1	0.0205
8-Oct-20		0.011
30-Mar-21	217.6	0.0182
13-Oct-21	126	0.0058



CM-5B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	229	0.04
9-Oct-20		0.0394
30-Mar-21	224.2	0.0536
13-Oct-21	50.8	0.0448



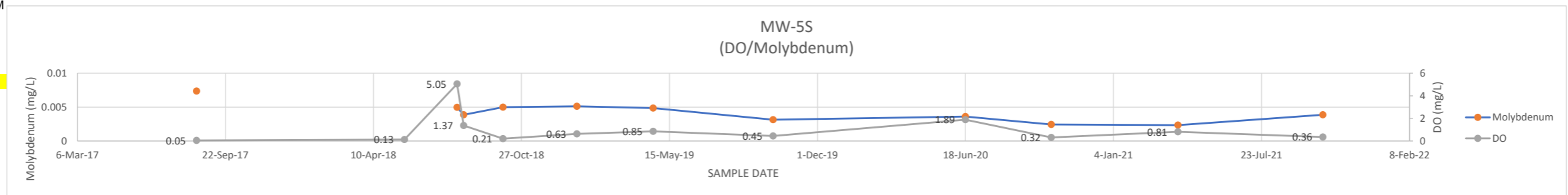
MW-17 DATE	ORP	MOLYBDENUM
9-Aug-17	65.7	0.001
24-May-18	-49.2	
1-Aug-18	172.9	0.001
10-Aug-18	209.4	0.001
2-Oct-18	237.5	0.001
10-Jan-19	57.8	0.0006
25-Apr-19	2.4	0.000671
2-Oct-19	148.3	0.0006
24-Jul-20	-28.1	0.0006
9-Oct-20	129.9	0.0006
30-Mar-21	37.4	0.00095
14-Oct-21	61.7	0.0006



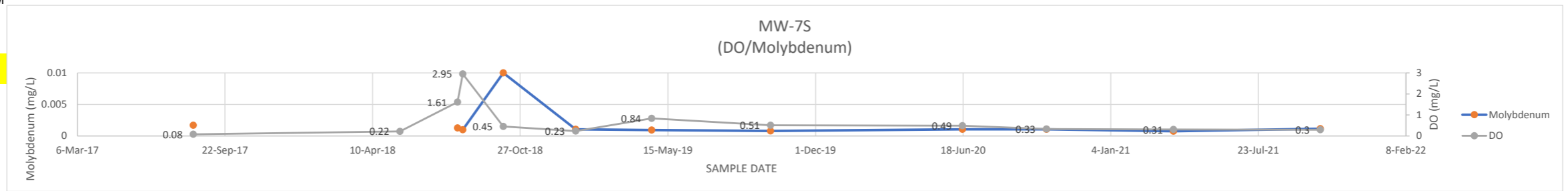
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

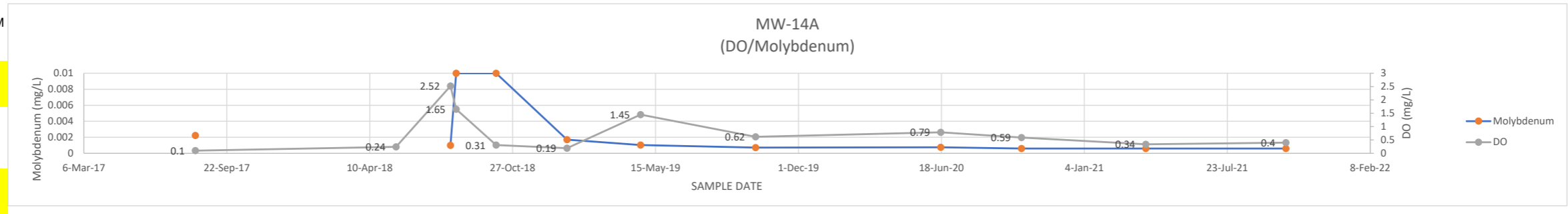
MW-5S	DO	MOLYBDENUM
DATE		
14-Aug-17	0.05	0.00737
22-May-18	0.13	
1-Aug-18	5.05	0.00497
10-Aug-18	1.37	0.00387
2-Oct-18	0.21	0.005
10-Jan-19	0.63	0.00512
23-Apr-19	0.85	0.00485
2-Oct-19	0.45	0.00315
18-Jun-20	1.89	0.00361
12-Oct-20	0.32	0.00244
1-Apr-21	0.81	0.00234
14-Oct-21	0.36	0.00387



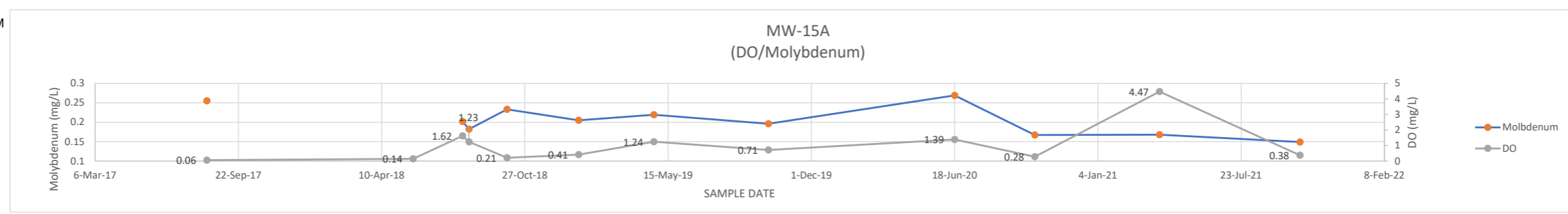
MW-7S	DO	MOLYBDENUM
DATE		
10-Aug-17	0.08	0.00171
17-May-18	0.22	
3-Aug-18	1.61	0.00127
10-Aug-18	2.95	0.001
4-Oct-18	0.45	0.01
10-Jan-19	0.23	0.00105
23-Apr-19	0.84	0.000952
1-Oct-19	0.51	0.000798
17-Jun-20	0.49	0.00105
9-Oct-20	0.33	0.00106
30-Mar-21	0.31	0.000755
15-Oct-21	0.3	0.00115



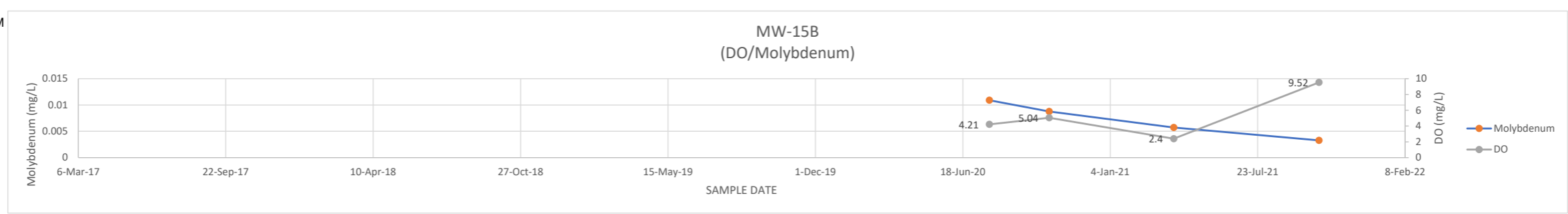
MW-14A	DO	MOLYBDENUM
DATE		
9-Aug-17	0.1	0.00223
17-May-18	0.24	
1-Aug-18	2.52	0.001
9-Aug-18	1.65	0.01
4-Oct-18	0.31	0.01
11-Jan-19	0.19	0.0017
24-Apr-19	1.45	0.00104
2-Oct-19	0.62	0.000709
17-Jun-20	0.79	0.00076
8-Oct-20	0.59	0.0006
31-Mar-21	0.34	0.0006
13-Oct-21	0.4	0.0006



MW-15A	DO	MOLYBDENUM
DATE		
9-Aug-17	0.06	0.255
24-May-18	0.14	
1-Aug-18	1.62	0.202
10-Aug-18	1.23	0.182
2-Oct-18	0.21	0.233
10-Jan-19	0.41	0.205
25-Apr-19	1.24	0.219
2-Oct-19	0.71	0.196
18-Jun-20	1.39	0.269
8-Oct-20	0.28	0.167
31-Mar-21	4.47	0.168
13-Oct-21	0.38	0.149



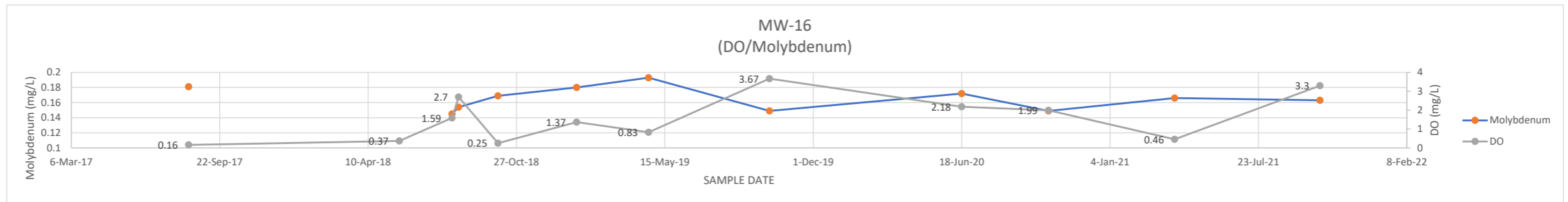
MW-15B	DO	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4.21	0.0109
13-Oct-20	5.04	0.00876
31-Mar-21	2.4	0.00571
14-Oct-21	9.52	0.00328



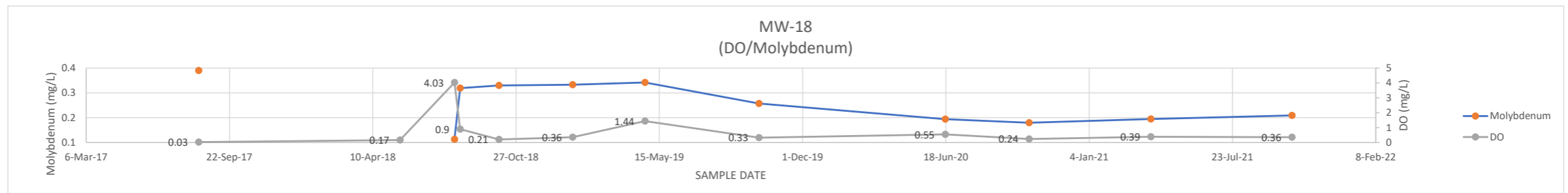
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

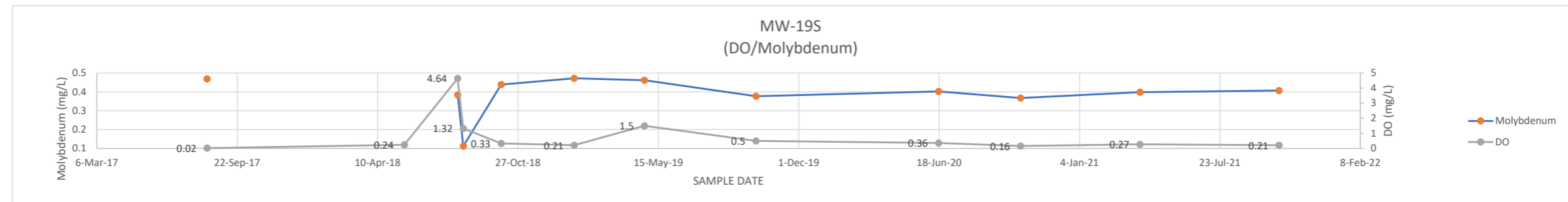
MW-16	DO	MOLYBDENUM
DATE	DO	MOLYBDENUM
11-Aug-17	0.16	0.181
22-May-18	0.37	
1-Aug-18	1.59	0.145
10-Aug-18	2.7	0.154
2-Oct-18	0.25	0.169
16-Jan-19	1.37	0.18
23-Apr-19	0.83	0.193
3-Oct-19	3.67	0.149
18-Jun-20	2.18	0.172
13-Oct-20	1.99	0.149
1-Apr-21	0.46	0.166
14-Oct-21	3.3	0.163



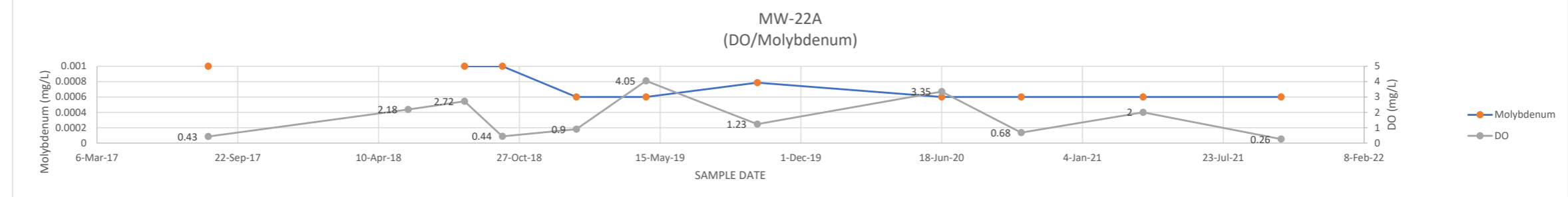
MW-18	ORP	MOLYBDENUM
DATE	ORP	MOLYBDENUM
10-Aug-17	0.03	0.39
18-May-18	0.17	
2-Aug-18	4.03	0.113
10-Aug-18	0.9	0.319
3-Oct-18	0.21	0.33
14-Jan-19	0.36	0.333
25-Apr-19	1.44	0.342
1-Oct-19	0.33	0.257
17-Jun-20	0.55	0.194
12-Oct-20	0.24	0.18
31-Mar-21	0.39	0.195
14-Oct-21	0.36	0.209



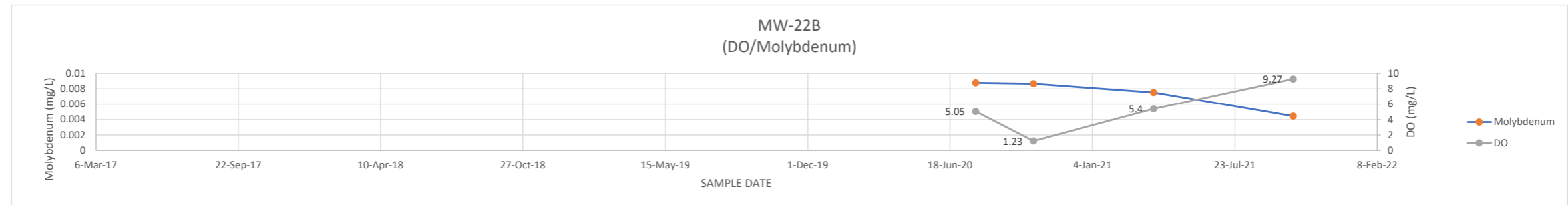
MW-19S	DO	MOLYBDENUM
DATE	DO	MOLYBDENUM
10-Aug-17	0.02	0.469
18-May-18	0.24	
2-Aug-18	4.64	0.384
10-Aug-18	1.32	0.112
3-Oct-18	0.33	0.439
15-Jan-19	0.21	0.472
25-Apr-19	1.5	0.462
1-Oct-19	0.5	0.377
17-Jun-20	0.36	0.402
12-Oct-20	0.16	0.367
31-Mar-21	0.27	0.398
15-Oct-21	0.21	0.407



MW-22A	DO	MOLYBDENUM
DATE	DO	MOLYBDENUM
11-Aug-17	0.43	0.001
22-May-18	2.18	
10-Aug-18	2.72	0.001
3-Oct-18	0.44	0.001
16-Jan-19	0.9	0.0006
25-Apr-19	4.05	0.0006
30-Sep-19	1.23	0.000787
18-Jun-20	3.35	0.0006
9-Oct-20	0.68	0.0006
31-Mar-21	2	0.0006
13-Oct-21	0.26	0.0006



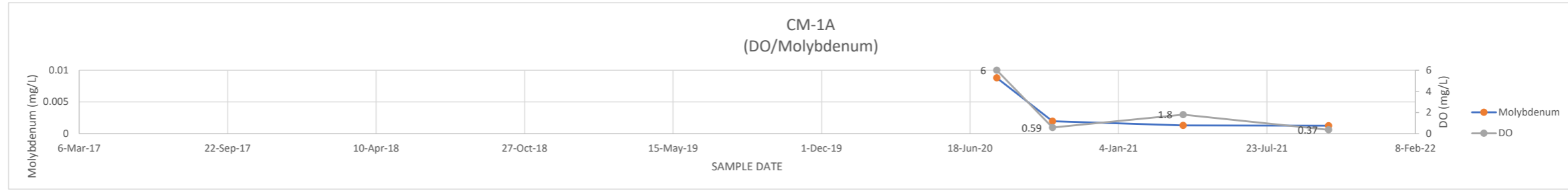
MW-22B	DO	MOLYBDENUM
DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	5.05	0.00878
13-Oct-20	1.23	0.00866
31-Mar-21	5.4	0.00753
13-Oct-21	9.27	0.00446



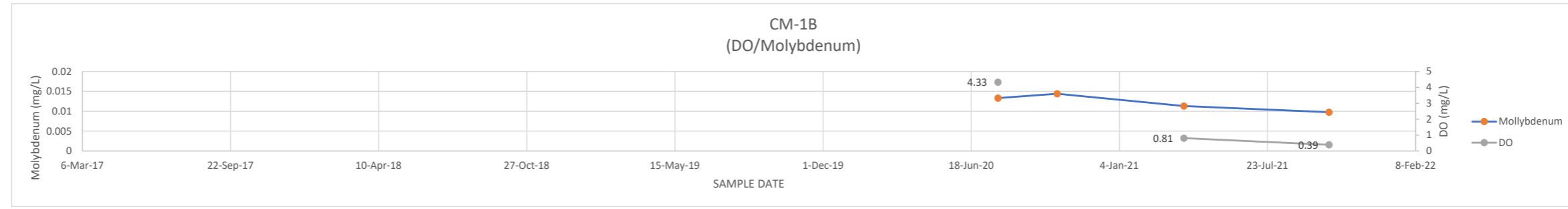
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

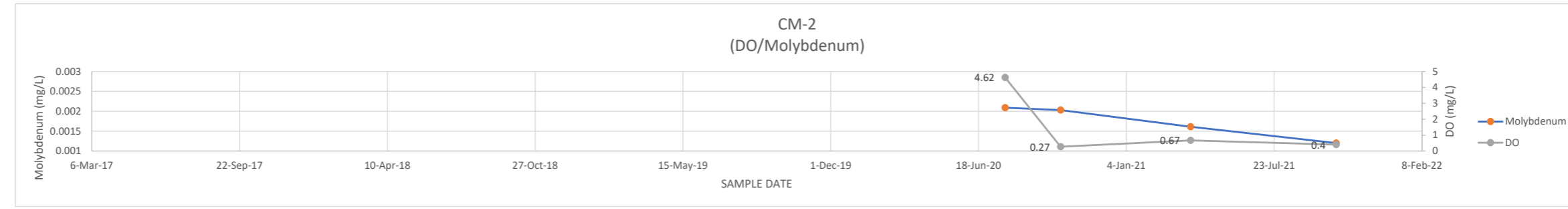
CM-1A
DATE DO MOLYBDENUM
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
24-Jul-20 6 0.0088
7-Oct-20 0.59 0.00198
1-Apr-21 1.8 0.00132
14-Oct-21 0.37 0.00127



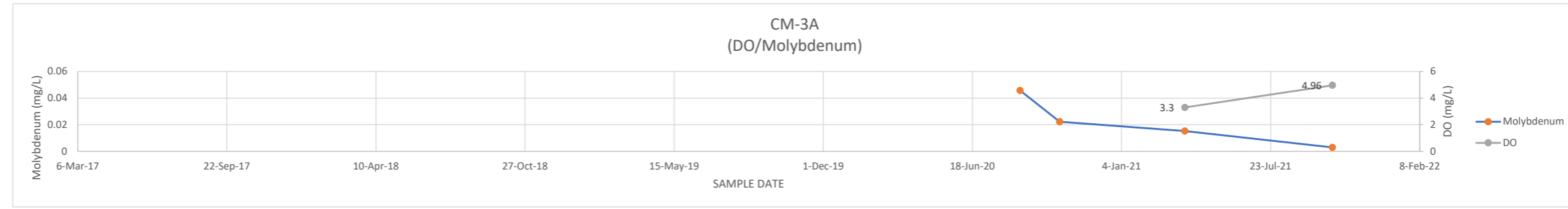
CM-1B
DATE DO MOLYBDENUM
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
24-Jul-20 4.33 0.0133
12-Oct-20 0.144
1-Apr-21 0.81 0.0113
14-Oct-21 0.39 0.00976



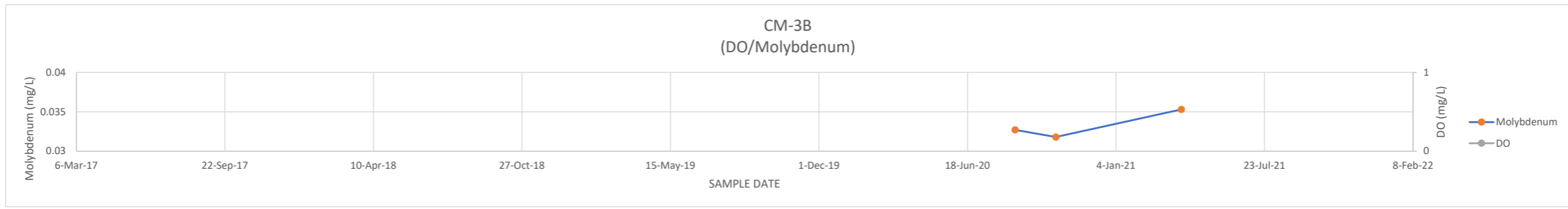
CM-2
DATE DO MOLYBDENUM
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
24-Jul-20 4.62 0.00209
7-Oct-20 0.27 0.00203
1-Apr-21 0.67 0.00161
15-Oct-21 0.4 0.0012



CM-3A
DATE DO MOLYBDENUM
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
21-Aug-20 0.0457
13-Oct-20 0.0222
30-Mar-21 3.3 0.0153
14-Oct-21 4.96 0.00297

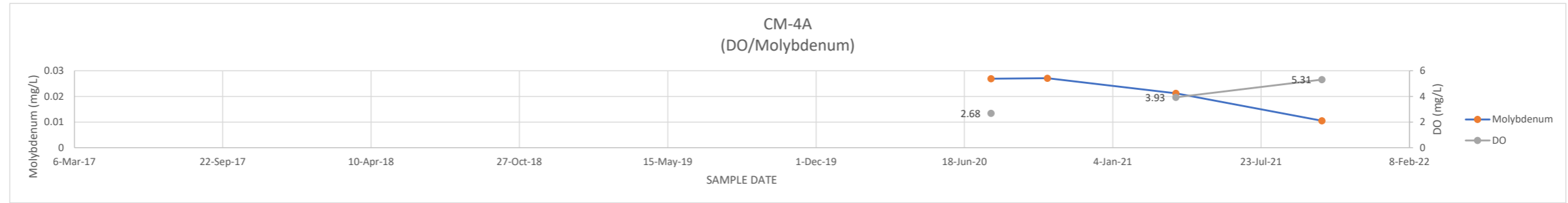


CM-3B
DATE DO MOLYBDENUM
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
21-Aug-20 0.0327
15-Oct-20 0.0318
2-Apr-21 0.0353
11-Oct-21

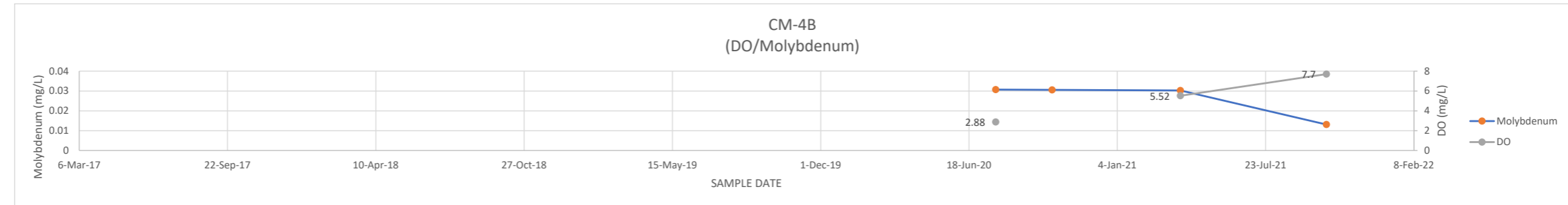


ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

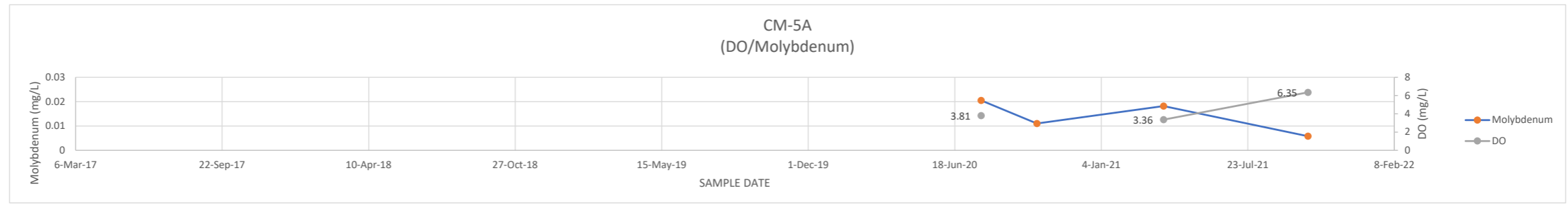
CM-4A DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2.68	0.0269
8-Oct-20		0.0271
30-Mar-21	3.93	0.0212
13-Oct-21	5.31	0.0105



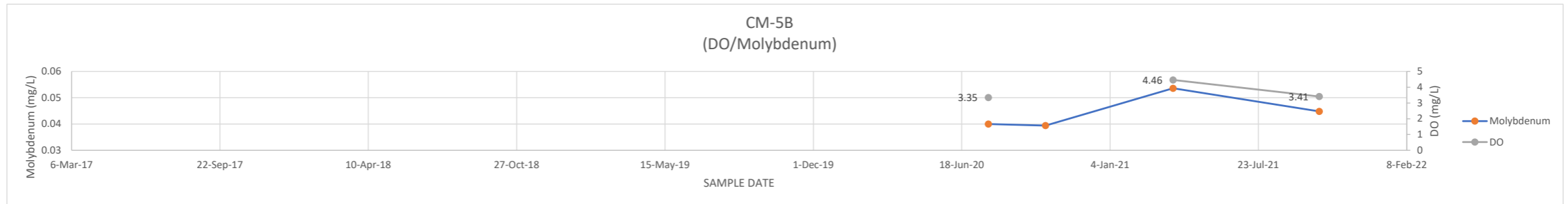
CM-4B DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2.88	0.0307
8-Oct-20		0.0306
30-Mar-21	5.52	0.0303
13-Oct-21	7.7	0.0131



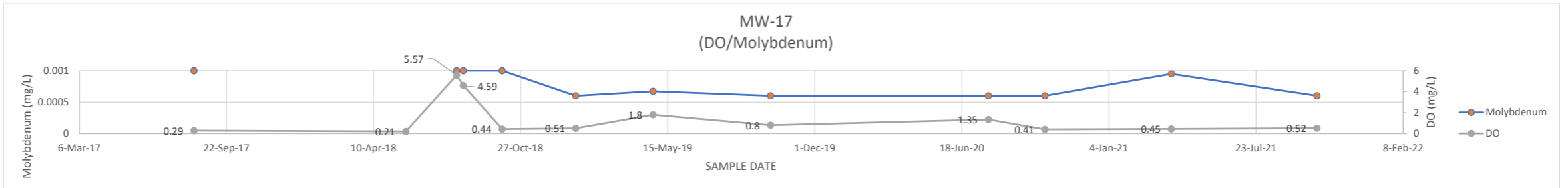
CM-5A DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.81	0.0205
8-Oct-20		0.011
30-Mar-21	3.36	0.0182
13-Oct-21	6.35	0.0058



CM-5B DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.35	0.04
9-Oct-20		0.0394
30-Mar-21	4.46	0.0536
13-Oct-21	3.41	0.0448



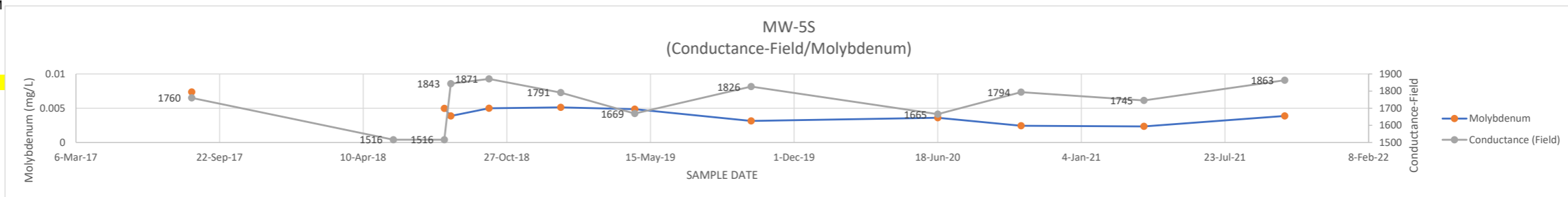
MW-17 DATE	DO	MOLYBDENUM
9-Aug-17	0.29	0.001
24-May-18	0.21	
1-Aug-18	5.57	0.001
10-Aug-18	4.59	0.001
2-Oct-18	0.44	0.001
10-Jan-19	0.51	0.0006
25-Apr-19	1.8	0.000671
2-Oct-19	0.8	0.0006
24-Jul-20	1.35	0.0006
9-Oct-20	0.41	0.0006
30-Mar-21	0.45	0.00095
14-Oct-21	0.52	0.0006



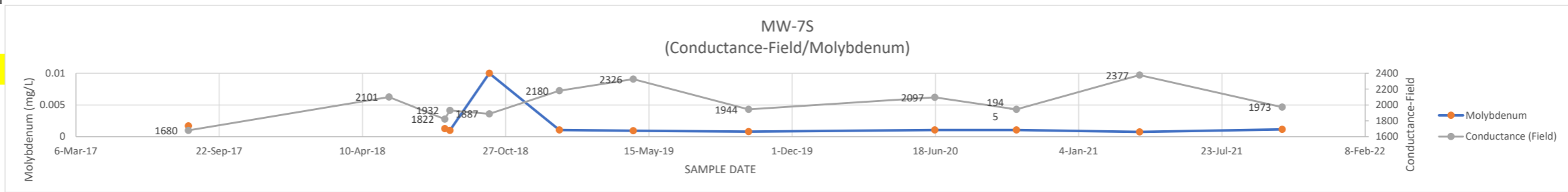
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-3
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

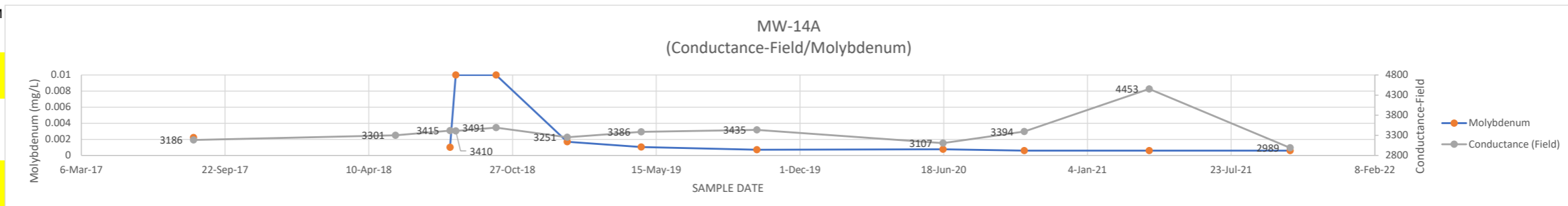
MW-5S	COND-Field	MOLYBDENUM
DATE		
14-Aug-17	1760	0.00737
22-May-18	1516	
1-Aug-18	1516	0.00497
10-Aug-18	1843	0.00387
2-Oct-18	1871	0.005
10-Jan-19	1791	0.00512
23-Apr-19	1669	0.00485
2-Oct-19	1826	0.00315
18-Jun-20	1665	0.00361
12-Oct-20	1794	0.00244
1-Apr-21	1745	0.00234
14-Oct-21	1863	0.00387



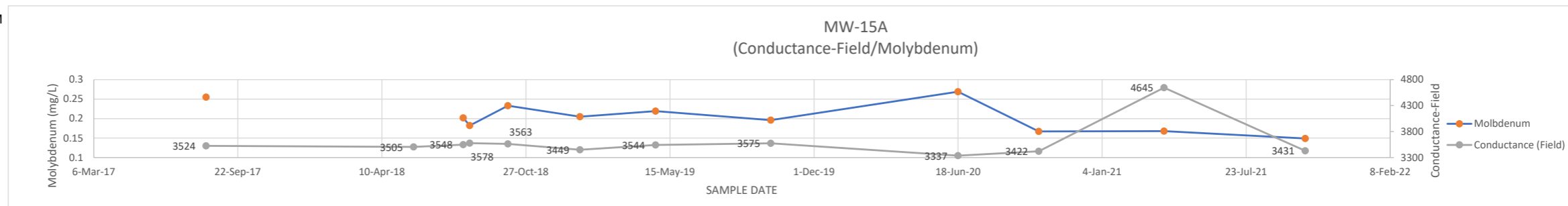
MW-7S	COND-Field	MOLYBDENUM
DATE		
10-Aug-17	1680	0.00171
17-May-18	2101	
3-Aug-18	1822	0.00127
10-Aug-18	1932	0.001
4-Oct-18	1887	0.01
10-Jan-19	2180	0.00105
23-Apr-19	2326	0.000952
1-Oct-19	1944	0.000798
17-Jun-20	2097	0.00105
9-Oct-20	1945	0.00106
30-Mar-21	2377	0.000755
15-Oct-21	1973	0.00115



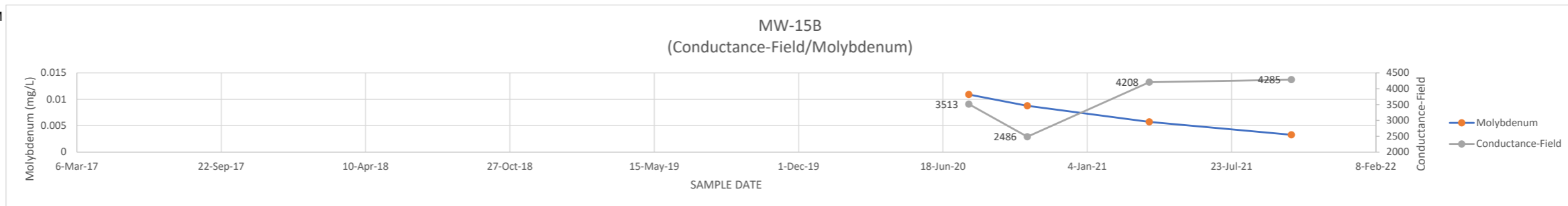
MW-14A	COND-Field	MOLYBDENUM
DATE		
9-Aug-17	3186	0.00223
17-May-18	3301	
1-Aug-18	3415	0.001
9-Aug-18	3410	0.01
4-Oct-18	3491	0.01
11-Jan-19	3251	0.0017
24-Apr-19	3386	0.00104
2-Oct-19	3435	0.000709
17-Jun-20	3107	0.00076
8-Oct-20	3394	0.0006
31-Mar-21	4453	0.0006
13-Oct-21	2989	0.0006



MW-15A	COND-Field	MOLYBDENUM
DATE		
9-Aug-17	3524	0.255
24-May-18	3505	
1-Aug-18	3548	0.202
10-Aug-18	3578	0.182
2-Oct-18	3563	0.233
10-Jan-19	3449	0.205
25-Apr-19	3544	0.219
2-Oct-19	3575	0.196
18-Jun-20	3337	0.269
8-Oct-20	3422	0.167
31-Mar-21	4645	0.168
13-Oct-21	3431	0.149



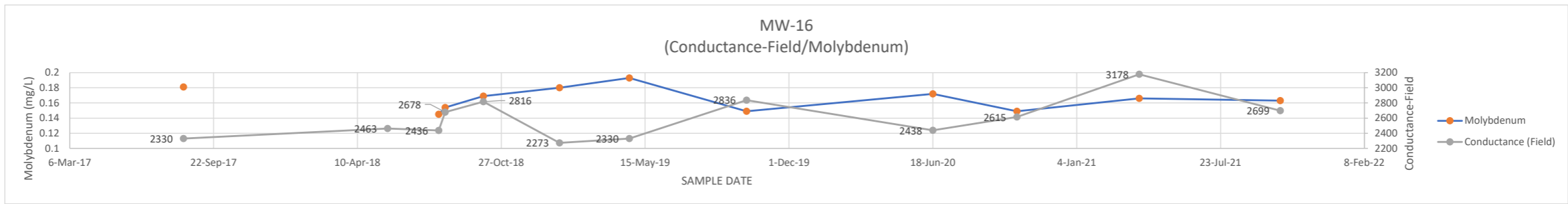
MW-15B	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3513	0.0109
13-Oct-20	2486	0.00876
31-Mar-21	4208	0.00571
14-Oct-21	4285	0.00328



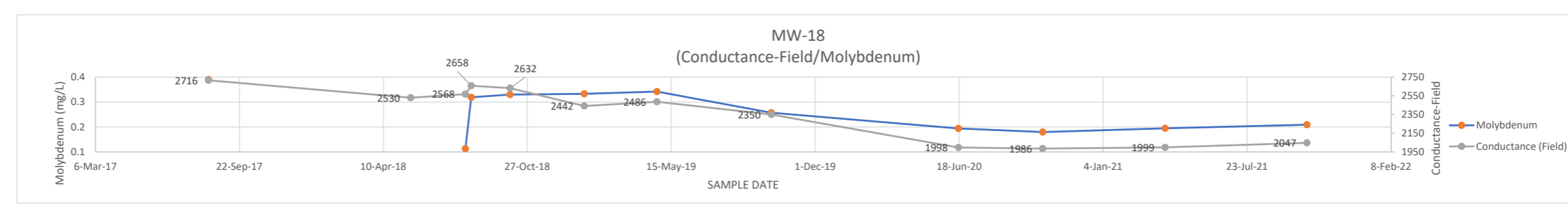
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-3
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

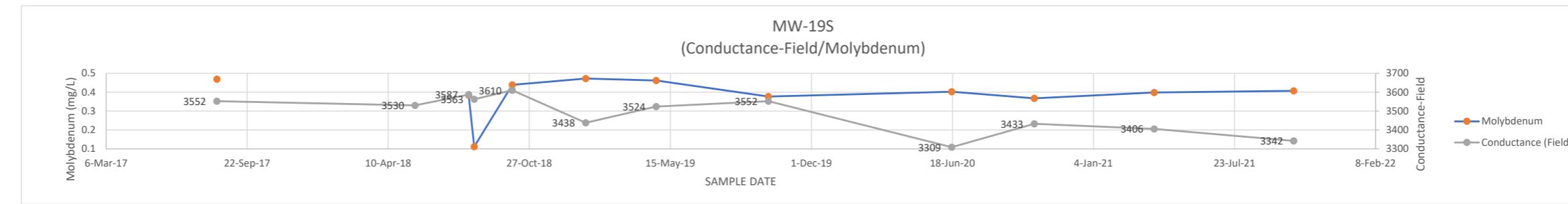
MW-16	COND-Field	MOLYBDENUM
DATE		
11-Aug-17	2330	0.181
22-May-18	2463	
1-Aug-18	2436	0.145
10-Aug-18	2678	0.154
2-Oct-18	2816	0.169
16-Jan-19	2273	0.18
23-Apr-19	2330	0.193
3-Oct-19	2836	0.149
18-Jun-20	2438	0.172
13-Oct-20	2615	0.149
1-Apr-21	3178	0.166
14-Oct-21	2699	0.163



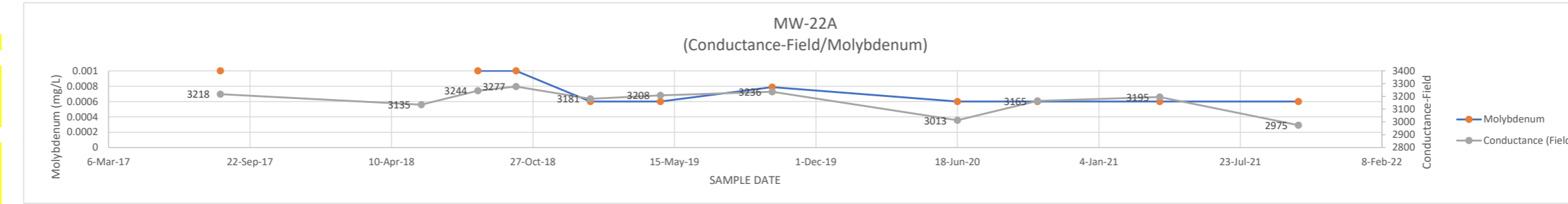
MW-18	COND-Field	MOLYBDENUM
DATE		
10-Aug-17	2716	0.39
18-May-18	2530	
2-Aug-18	2568	0.113
10-Aug-18	2658	0.319
3-Oct-18	2632	0.33
14-Jan-19	2442	0.333
25-Apr-19	2486	0.342
1-Oct-19	2350	0.257
17-Jun-20	1998	0.194
12-Oct-20	1986	0.18
31-Mar-21	1999	0.195
14-Oct-21	2047	0.209



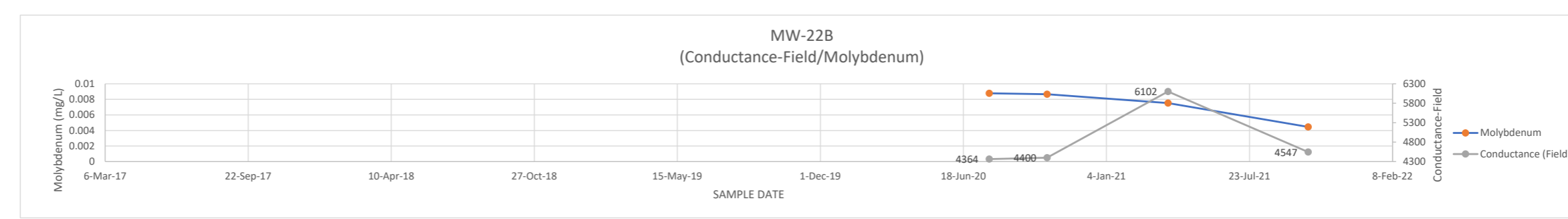
MW-19S	COND-Field	MOLYBDENUM
DATE		
10-Aug-17	3552	0.469
18-May-18	3530	
2-Aug-18	3587	0.384
10-Aug-18	3563	0.112
3-Oct-18	3610	0.439
15-Jan-19	3438	0.472
25-Apr-19	3524	0.462
1-Oct-19	3552	0.377
17-Jun-20	3309	0.402
12-Oct-20	3433	0.367
31-Mar-21	3406	0.398
15-Oct-21	3342	0.407



MW-22A	COND-Field	MOLYBDENUM
DATE		
11-Aug-17	3218	0.001
22-May-18	3135	
10-Aug-18	3244	0.001
3-Oct-18	3277	0.001
16-Jan-19	3181	0.0006
25-Apr-19	3208	0.0006
30-Sep-19	3236	0.000787
18-Jun-20	3013	0.0006
9-Oct-20	3165	0.0006
31-Mar-21	3195	0.0006
13-Oct-21	2975	0.0006



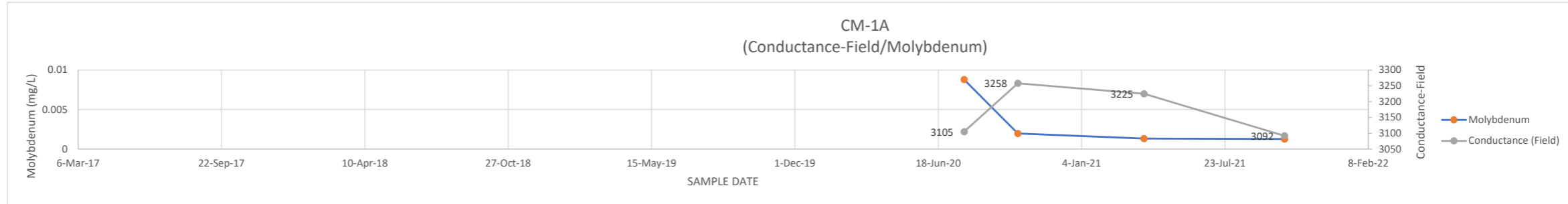
MW-22B	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4364	0.00878
13-Oct-20	4400	0.00866
31-Mar-21	6102	0.00753
13-Oct-21	4547	0.00446



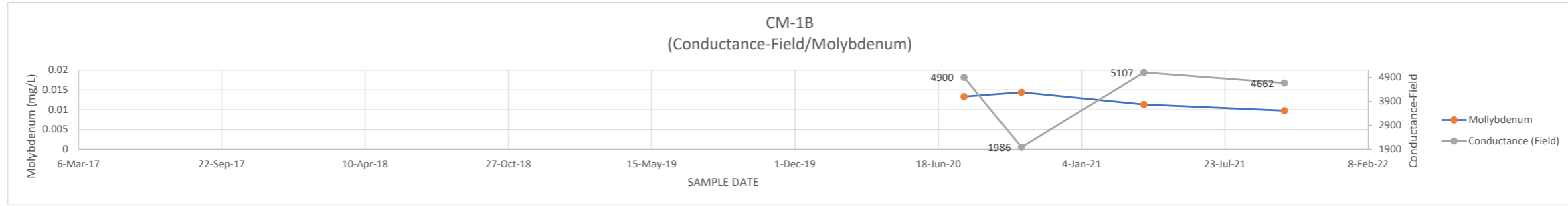
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-3
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

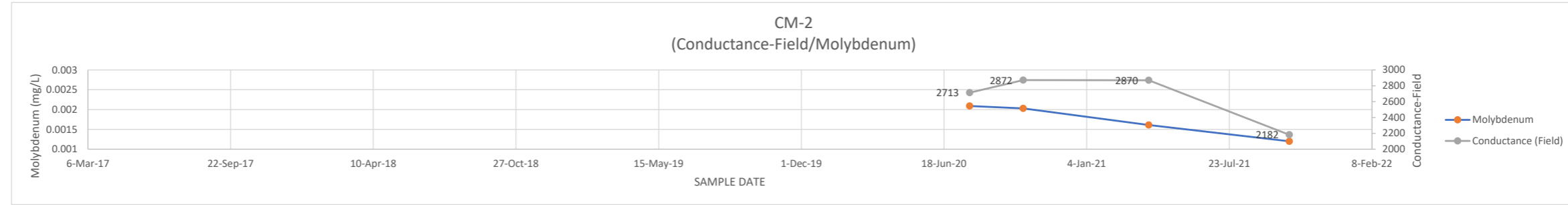
CM-1A	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3105	0.0088
7-Oct-20	3258	0.00198
1-Apr-21	3225	0.00132
14-Oct-21	3092	0.00127



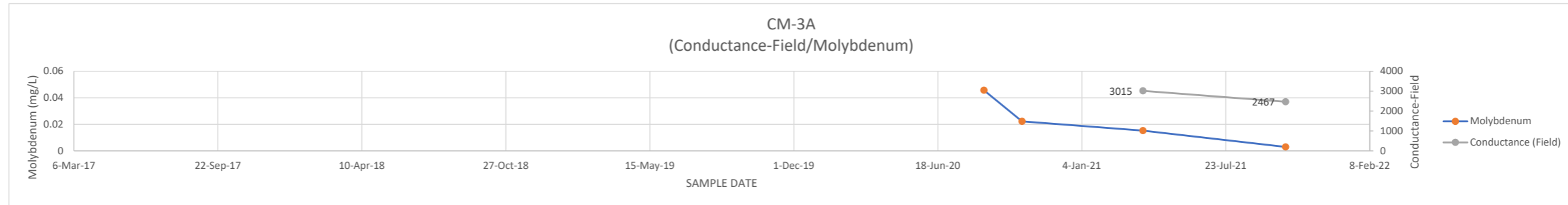
CM-1B	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4900	0.0133
12-Oct-20	1986	0.0144
1-Apr-21	5107	0.0113
14-Oct-21	4662	0.00976



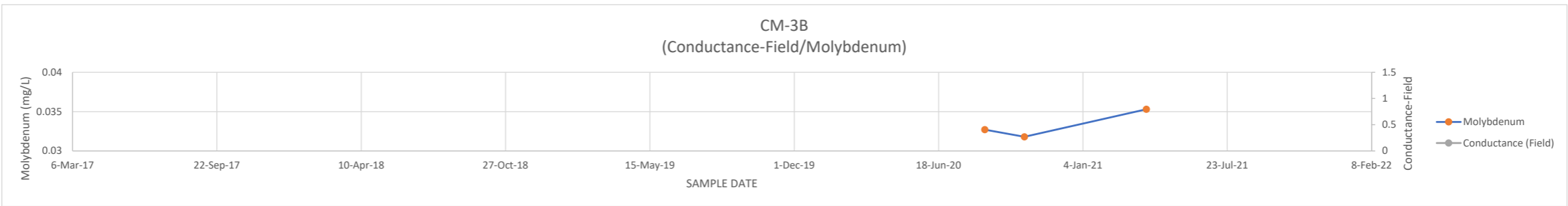
CM-2	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2713	0.00209
7-Oct-20	2872	0.00203
1-Apr-21	2870	0.00161
15-Oct-21	2182	0.0012



CM-3A	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20		0.0222
30-Mar-21	3015	0.0153
14-Oct-21	2467	0.00297

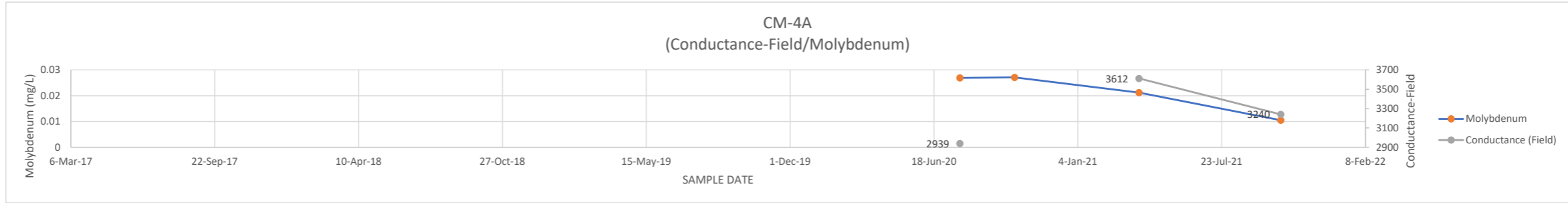


CM-3B	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		

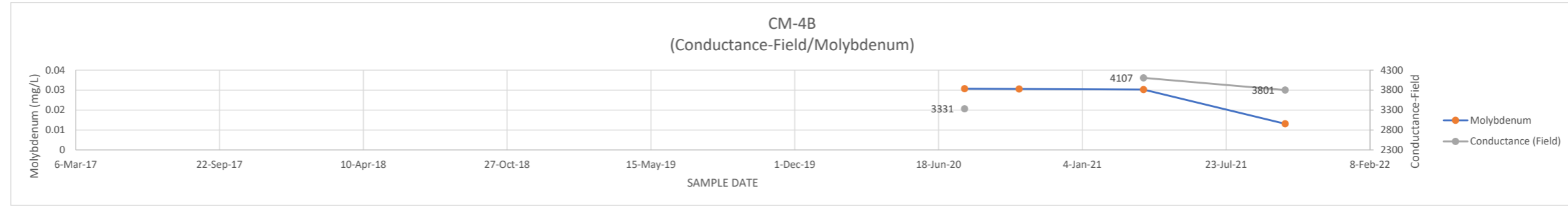


ATTACHMENT G-3
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

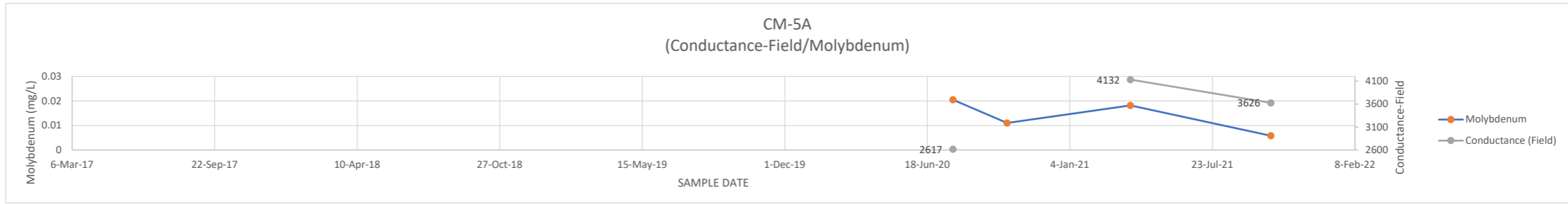
CM-4A DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2939	0.0269
8-Oct-20		0.0271
30-Mar-21	3612	0.0212
13-Oct-21	3240	0.0105



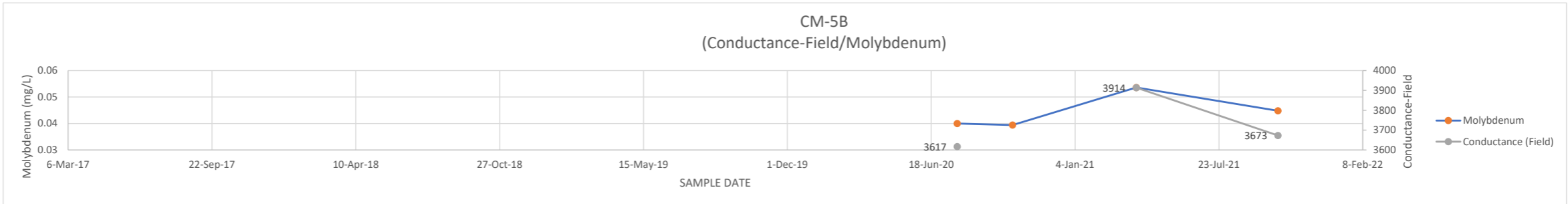
CM-4B DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3331	0.0307
8-Oct-20		0.0306
30-Mar-21	4107	0.0303
13-Oct-21	3801	0.0131



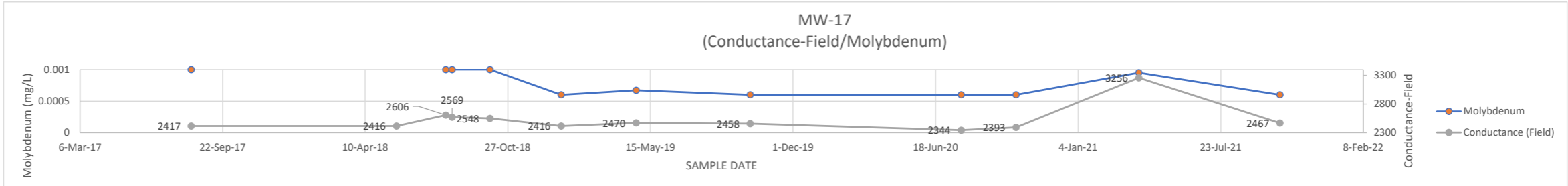
CM-5A DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2617	0.0205
8-Oct-20		0.011
30-Mar-21	4132	0.0182
13-Oct-21	3626	0.0058



CM-5B DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3617	0.04
9-Oct-20		0.0394
30-Mar-21	3914	0.0536
13-Oct-21	3673	0.0448



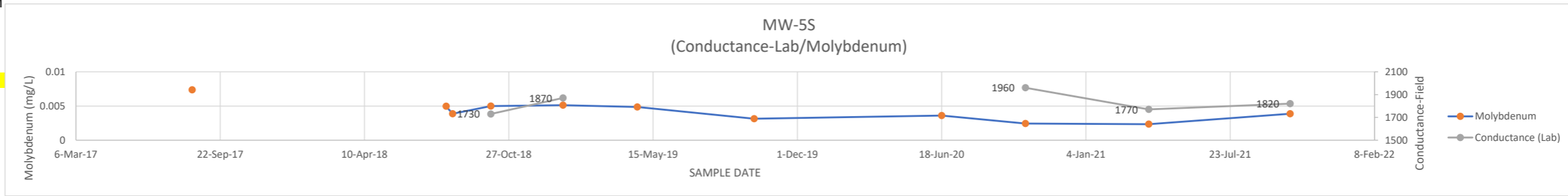
MW-17 DATE	COND-Field	MOLYBDENUM
9-Aug-17	2417	0.001
24-May-18	2416	
1-Aug-18	2606	0.001
10-Aug-18	2569	0.001
2-Oct-18	2548	0.001
10-Jan-19	2416	0.0006
25-Apr-19	2470	0.000671
2-Oct-19	2458	0.0006
24-Jul-20	2344	0.0006
9-Oct-20	2393	0.0006
30-Mar-21	3256	0.00095
14-Oct-21	2467	0.0006



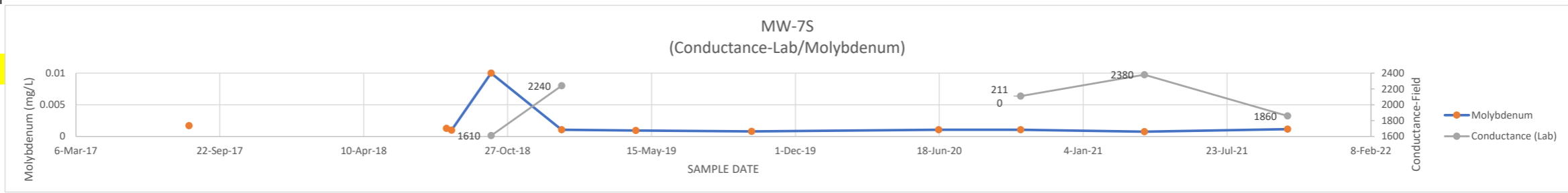
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-3
CHANGES IN CONDUCTANCE (LAB) AND MOLYBDENUM CONCENTRATIONS

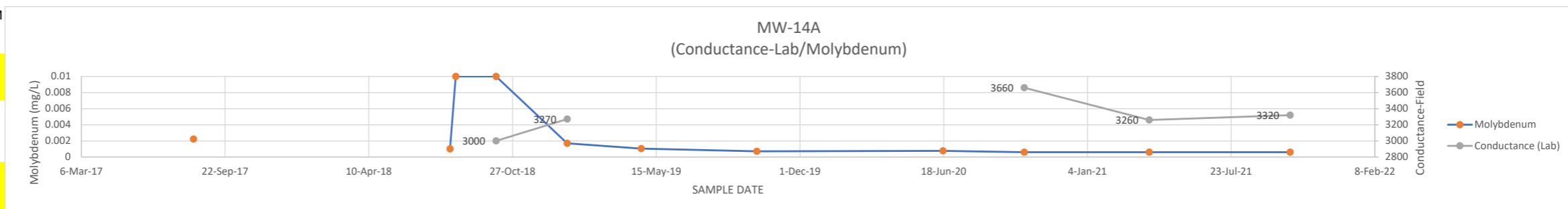
MW-5S DATE	COND-Lab	MOLYBDENUM
14-Aug-17		0.00737
22-May-18		
1-Aug-18		0.00497
10-Aug-18		0.00387
2-Oct-18	1730	0.005
10-Jan-19	1870	0.00512
23-Apr-19		0.00485
2-Oct-19		0.00315
18-Jun-20		0.00361
12-Oct-20	1960	0.00244
1-Apr-21	1770	0.00234
14-Oct-21	1820	0.00387



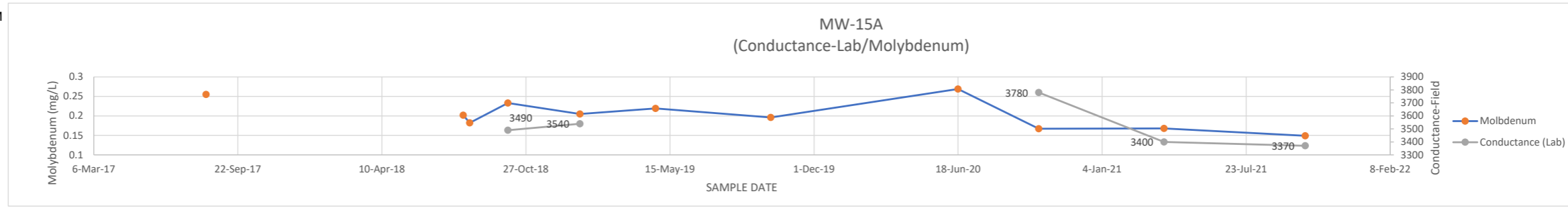
MW-7S DATE	COND-Lab	MOLYBDENUM
10-Aug-17		0.00171
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18	1610	0.01
10-Jan-19	2240	0.00105
23-Apr-19		0.000952
1-Oct-19		0.000798
17-Jun-20		0.00105
9-Oct-20	2110	0.00106
30-Mar-21	2380	0.000755
15-Oct-21	1860	0.00115



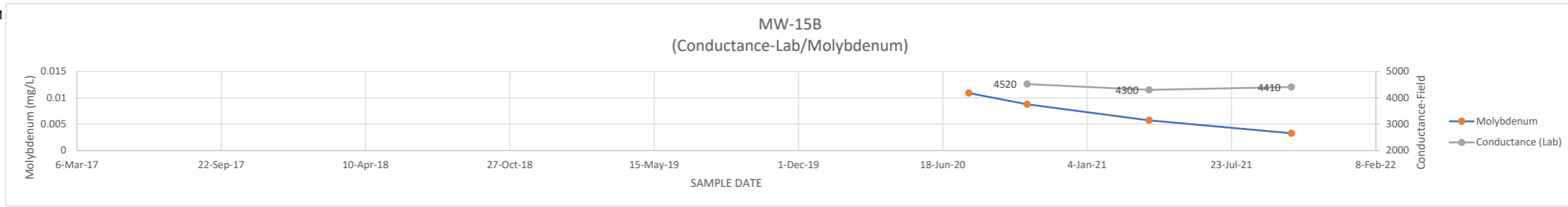
MW-14A DATE	COND-Lab	MOLYBDENUM
9-Aug-17		0.00223
17-May-18		
1-Aug-18		0.001
9-Aug-18		0.01
4-Oct-18	3000	0.01
11-Jan-19	3270	0.0017
24-Apr-19		0.00104
2-Oct-19		0.000709
17-Jun-20		0.00076
8-Oct-20	3660	0.0006
31-Mar-21	3260	0.0006
13-Oct-21	3320	0.0006



MW-15A DATE	COND-Lab	MOLYBDENUM
9-Aug-17		0.255
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18	3490	0.233
10-Jan-19	3540	0.205
25-Apr-19		0.219
2-Oct-19		0.196
18-Jun-20		0.269
8-Oct-20	3780	0.167
31-Mar-21	3400	0.168
13-Oct-21	3370	0.149



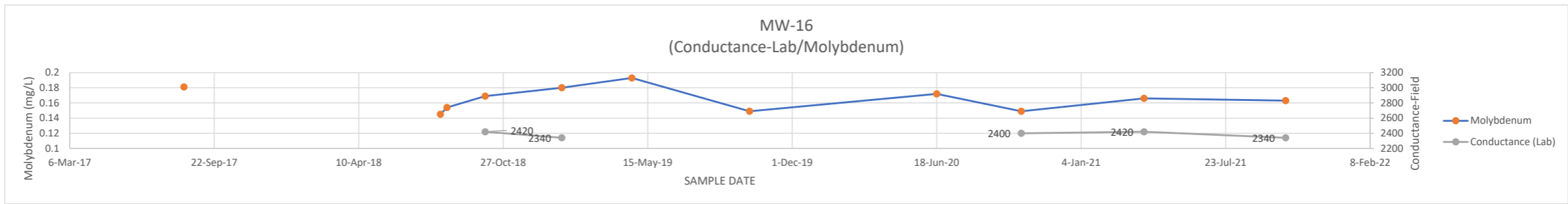
MW-15B DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0109
13-Oct-20	4520	0.00876
31-Mar-21	4300	0.00571
14-Oct-21	4410	0.00328



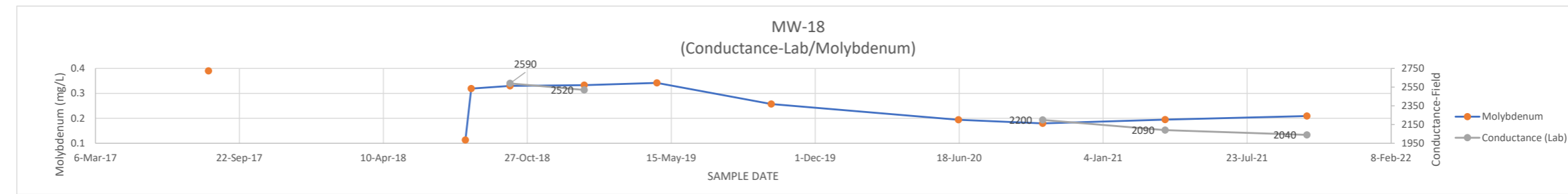
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-3
CHANGES IN CONDUCTANCE (LAB) AND MOLYBDENUM CONCENTRATIONS

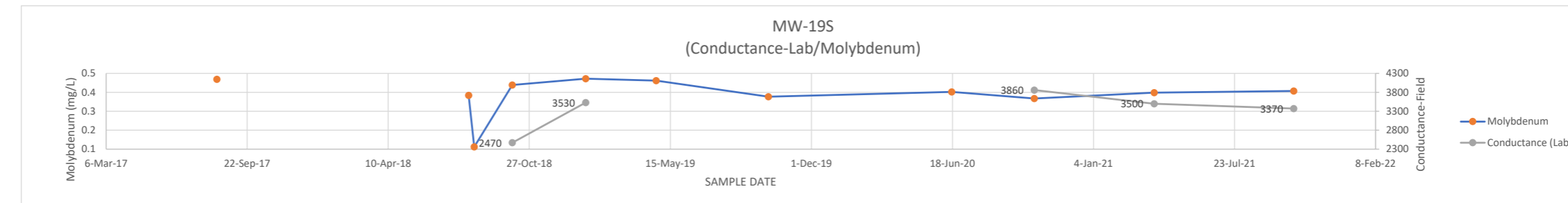
MW-16	COND-Lab	MOLYBDENUM
DATE		
11-Aug-17		0.181
22-May-18		
1-Aug-18		0.145
10-Aug-18		0.154
2-Oct-18	2420	0.169
16-Jan-19	2340	0.18
23-Apr-19		0.193
3-Oct-19		0.149
18-Jun-20		0.172
13-Oct-20	2400	0.149
1-Apr-21	2420	0.166
14-Oct-21	2340	0.163



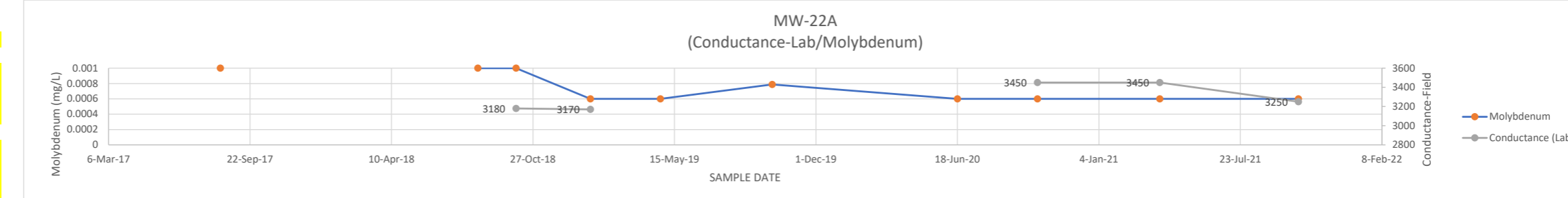
MW-18	COND-Lab	MOLYBDENUM
DATE		
10-Aug-17		0.39
18-May-18		
2-Aug-18		0.113
10-Aug-18		0.319
3-Oct-18	2590	0.33
14-Jan-19	2520	0.333
25-Apr-19		0.342
1-Oct-19		0.257
17-Jun-20		0.194
12-Oct-20	2200	0.18
31-Mar-21	2090	0.195
14-Oct-21	2040	0.209



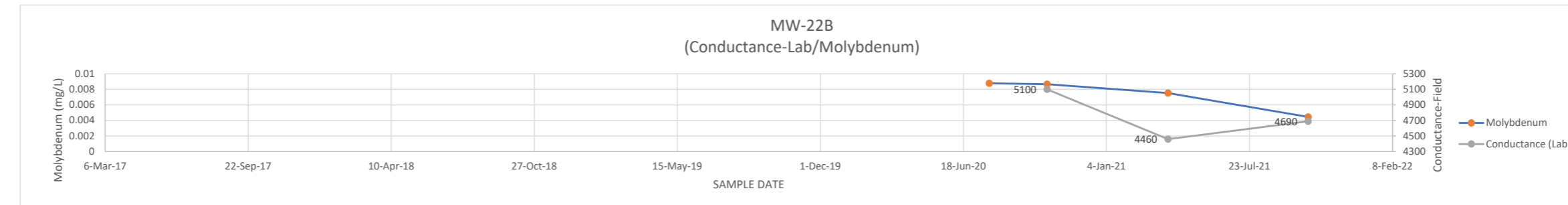
MW-19S	COND-Lab	MOLYBDENUM
DATE		
10-Aug-17		0.469
18-May-18		
2-Aug-18		0.384
10-Aug-18		0.112
3-Oct-18	2470	0.439
15-Jan-19	3530	0.472
25-Apr-19		0.462
1-Oct-19		0.377
17-Jun-20		0.402
12-Oct-20	3860	0.367
31-Mar-21	3500	0.398
15-Oct-21	3370	0.407



MW-22A	COND-Lab	MOLYBDENUM
DATE		
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18	3180	0.001
16-Jan-19	3170	0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20		0.0006
9-Oct-20	3450	0.0006
31-Mar-21	3450	0.0006
13-Oct-21	3250	0.0006



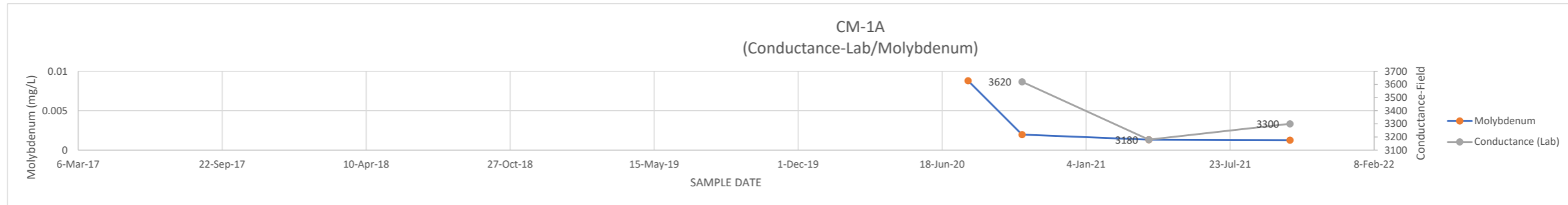
MW-22B	COND-Lab	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00878
13-Oct-20	5100	0.00866
31-Mar-21	4460	0.00753
13-Oct-21	4690	0.00446



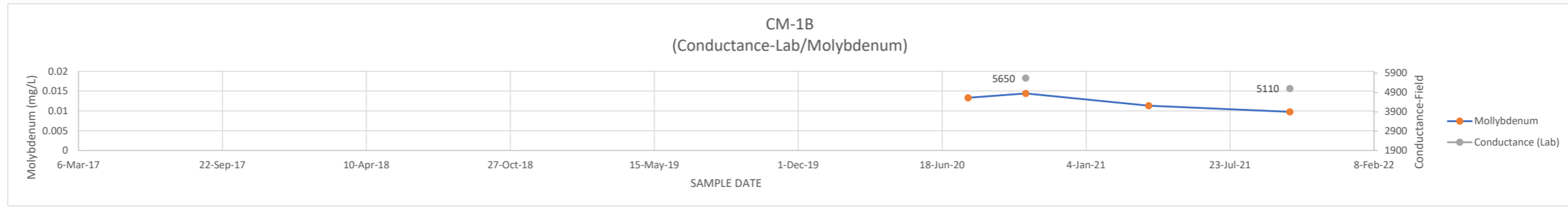
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-3
CHANGES IN CONDUCTANCE (LAB) AND MOLYBDENUM CONCENTRATIONS

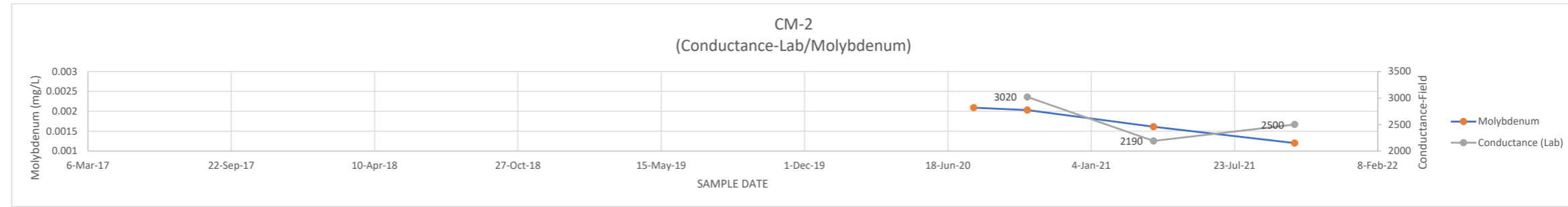
CM-1A DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0088
7-Oct-20	3620	0.00198
1-Apr-21	3180	0.00132
14-Oct-21	3300	0.00127



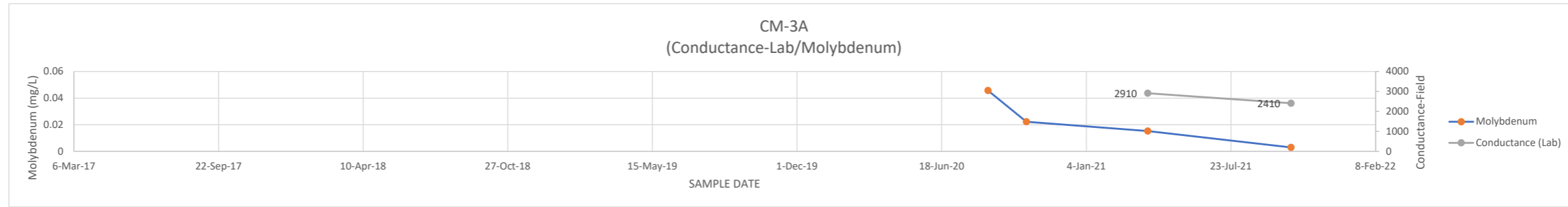
CM-1B DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0133
12-Oct-20	5650	0.0144
1-Apr-21		0.0113
14-Oct-21	5110	0.00976



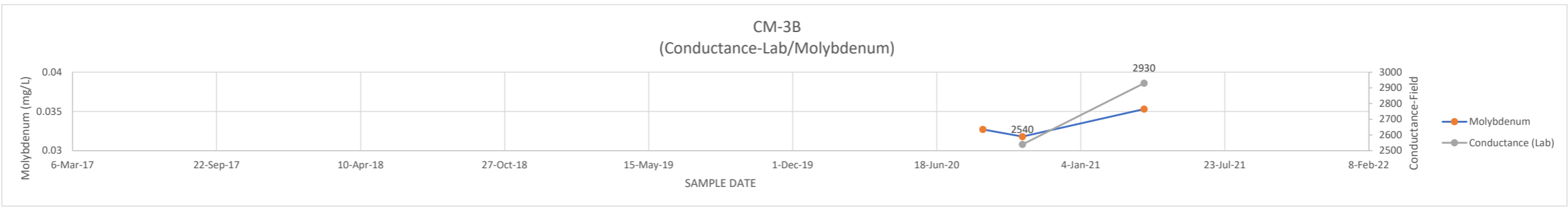
CM-2 DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00209
7-Oct-20	3020	0.00203
1-Apr-21	2190	0.00161
15-Oct-21	2500	0.0012



CM-3A DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20		0.0222
30-Mar-21	2910	0.0153
14-Oct-21	2410	0.00297

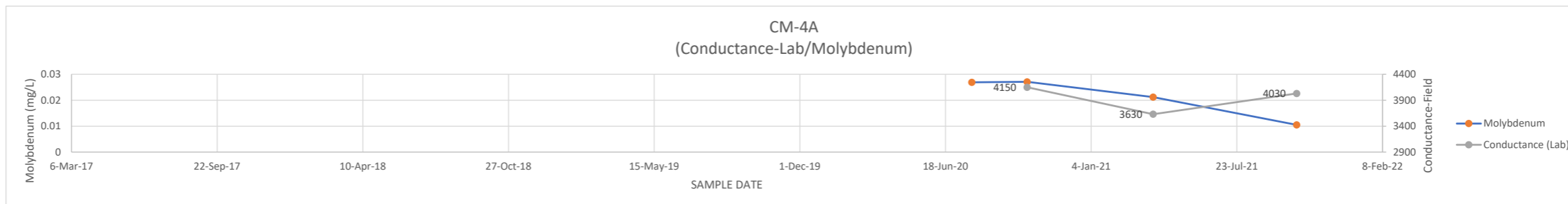


CM-3B DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20	2540	0.0318
2-Apr-21	2930	0.0353
11-Oct-21		

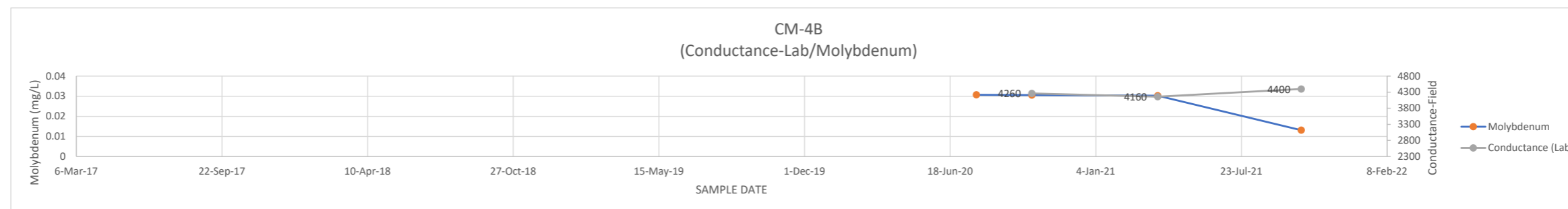


ATTACHMENT G-3
CHANGES IN CONDUCTANCE (LAB) AND MOLYBDENUM CONCENTRATIONS

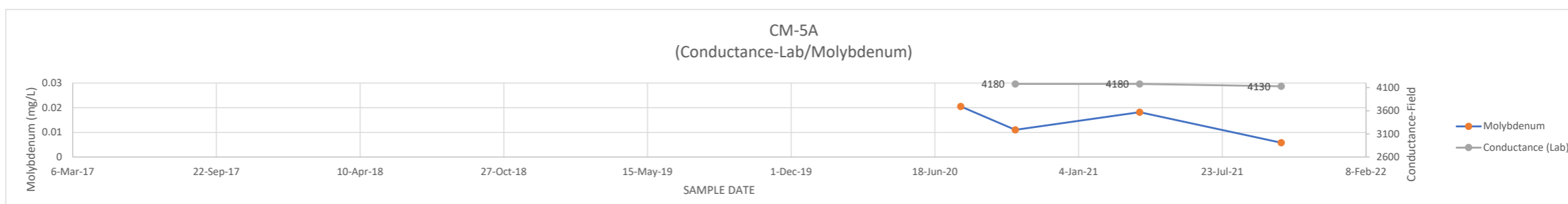
CM-4A DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0269
8-Oct-20	4150	0.0271
30-Mar-21	3630	0.0212
13-Oct-21	4030	0.0105



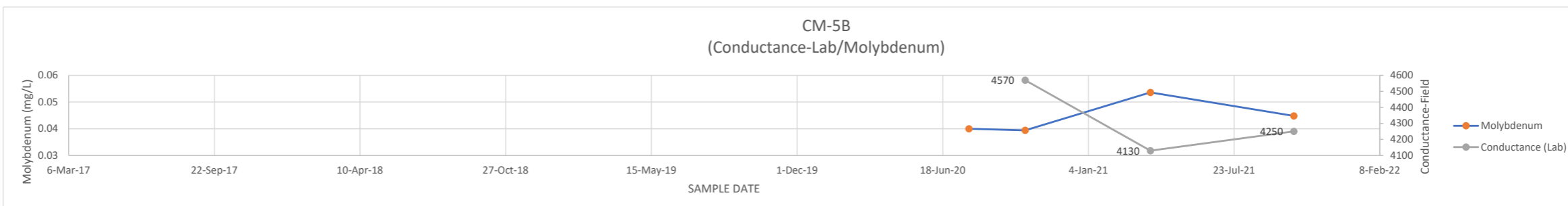
CM-4B DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0307
8-Oct-20	4260	0.0306
30-Mar-21	4160	0.0303
13-Oct-21	4400	0.0131



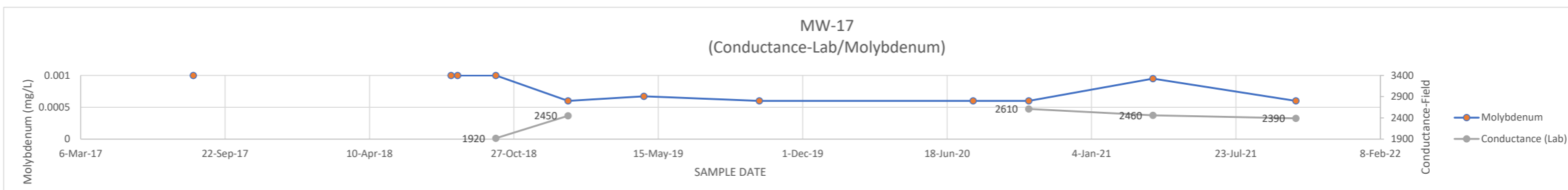
CM-5A DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0205
8-Oct-20	4180	0.011
30-Mar-21	4180	0.0182
13-Oct-21	4130	0.0058



CM-5B DATE	COND-Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.04
9-Oct-20	4570	0.0394
30-Mar-21	4130	0.0536
13-Oct-21	4250	0.0448



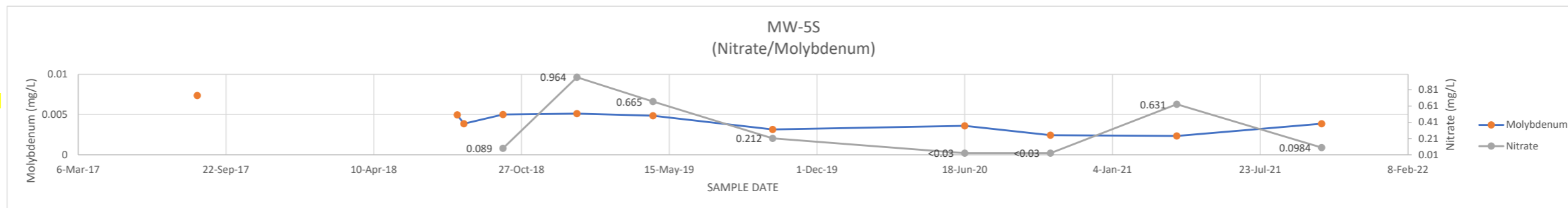
MW-17 DATE	COND-Lab	MOLYBDENUM
9-Aug-17		0.001
24-May-18		
1-Aug-18		0.001
10-Aug-18		0.001
2-Oct-18	1920	0.001
10-Jan-19	2450	0.0006
25-Apr-19		0.000671
2-Oct-19		0.0006
24-Jul-20		0.0006
9-Oct-20	2610	0.0006
30-Mar-21	2460	0.00095
14-Oct-21	2390	0.0006



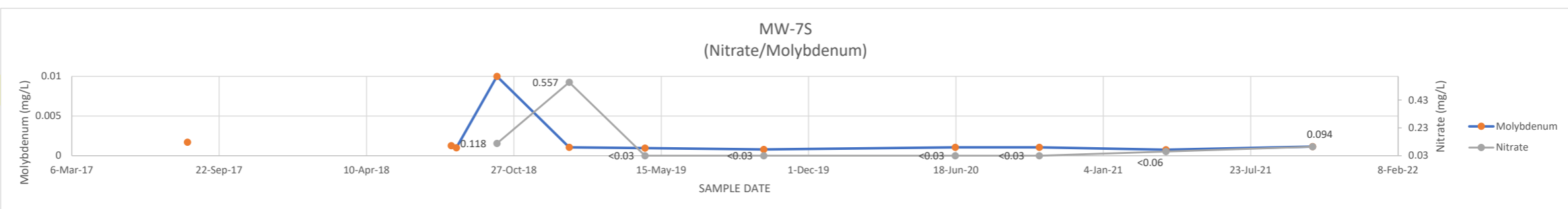
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

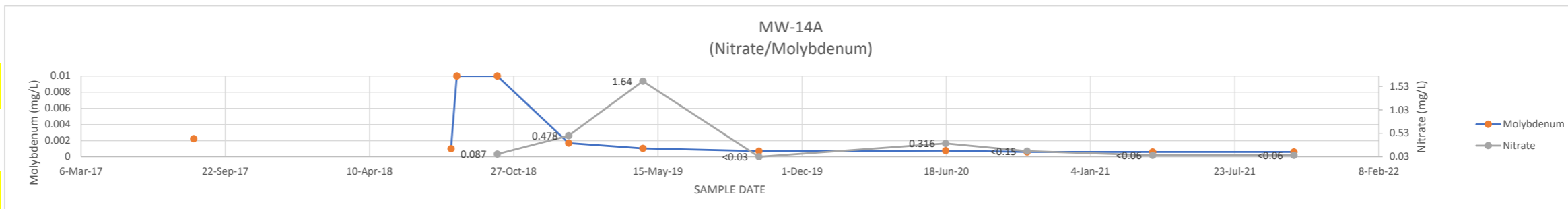
MW-5S	NITRATE	MOLYBDENUM
DATE		
14-Aug-17		0.00737
22-May-18		
1-Aug-18		0.00497
10-Aug-18		0.00387
2-Oct-18	0.089	0.005
10-Jan-19	0.964	0.00512
23-Apr-19	0.665	0.00485
2-Oct-19	0.212	0.00315
18-Jun-20	0.03	0.00361
12-Oct-20	0.03	0.00244
1-Apr-21	0.631	0.00234
14-Oct-21	0.0984	0.00387



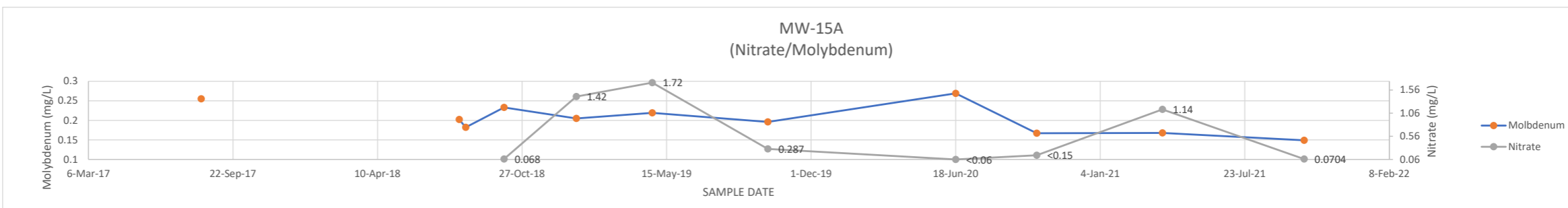
MW-7S	NITRATE	MOLYBDENUM
DATE		
10-Aug-17		0.00171
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18	0.118	0.01
10-Jan-19	0.557	0.00105
23-Apr-19	0.03	0.000952
1-Oct-19	0.03	0.000798
17-Jun-20	0.03	0.00105
9-Oct-20	0.03	0.00106
30-Mar-21	0.06	0.000755
15-Oct-21	0.094	0.00115



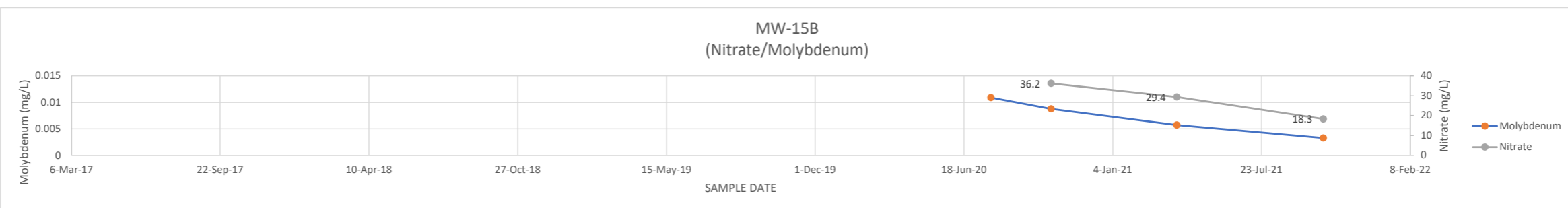
MW-14A	NITRATE	MOLYBDENUM
DATE		
9-Aug-17		0.00223
17-May-18		
1-Aug-18		0.001
9-Aug-18		0.01
4-Oct-18	0.087	0.01
11-Jan-19	0.478	0.0017
24-Apr-19	1.64	0.00104
2-Oct-19	0.03	0.000709
17-Jun-20	0.316	0.00076
8-Oct-20	0.15	0.0006
31-Mar-21	0.06	0.0006
13-Oct-21	0.06	0.0006



MW-15A	NITRATE	MOLYBDENUM
DATE		
9-Aug-17		0.255
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18	0.068	0.233
10-Jan-19	1.42	0.205
25-Apr-19	1.72	0.219
2-Oct-19	0.287	0.196
18-Jun-20	0.06	0.269
8-Oct-20	0.15	0.167
31-Mar-21	1.14	0.168
13-Oct-21	0.0704	0.149



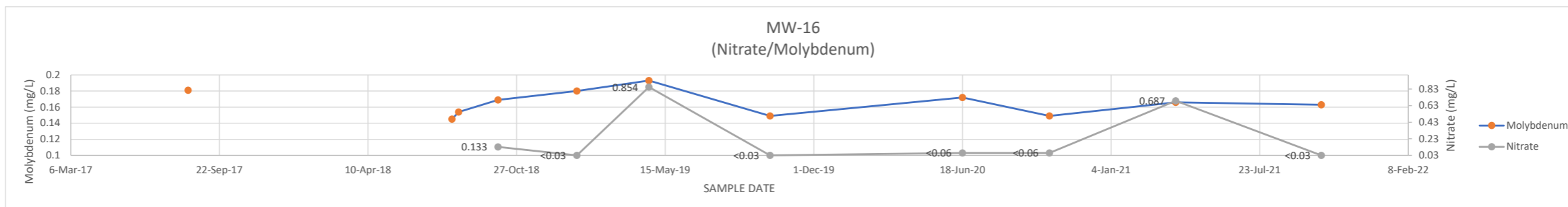
MW-15B	NITRATE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0109
13-Oct-20	36.2	0.00876
31-Mar-21	29.4	0.00571
14-Oct-21	18.3	0.00328



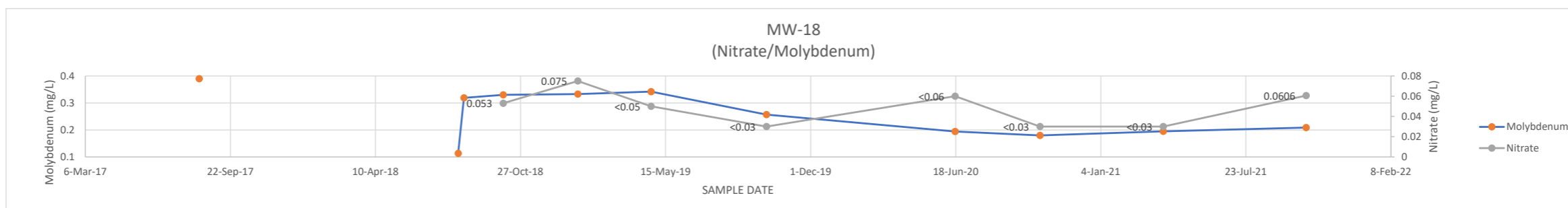
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

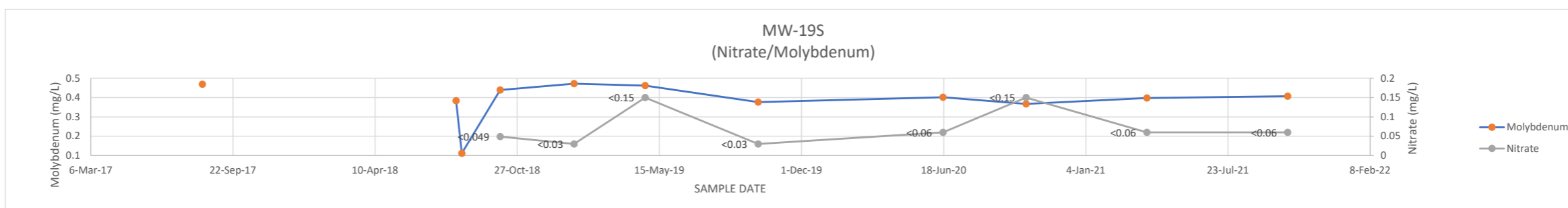
MW-16	NITRATE	MOLYBDENUM
DATE		
11-Aug-17		0.181
22-May-18		
1-Aug-18		0.145
10-Aug-18		0.154
2-Oct-18	0.133	0.169
16-Jan-19	0.03	0.18
23-Apr-19	0.854	0.193
3-Oct-19	0.03	0.149
18-Jun-20	0.06	0.172
13-Oct-20	0.06	0.149
1-Apr-21	0.687	0.166
14-Oct-21	0.03	0.163



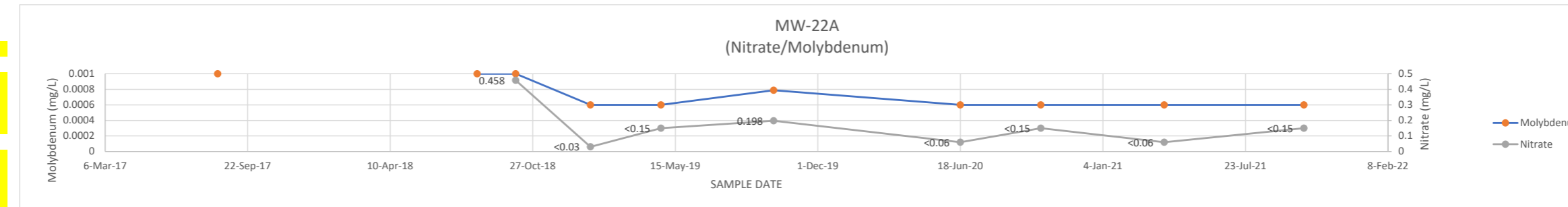
MW-18	NITRATE	MOLYBDENUM
DATE		
10-Aug-17		0.39
18-May-18		
2-Aug-18		0.113
10-Aug-18		0.319
3-Oct-18	0.053	0.33
14-Jan-19	0.075	0.333
25-Apr-19	0.05	0.342
1-Oct-19	0.03	0.257
17-Jun-20	0.06	0.194
12-Oct-20	0.03	0.18
31-Mar-21	0.03	0.195
14-Oct-21	0.0606	0.209



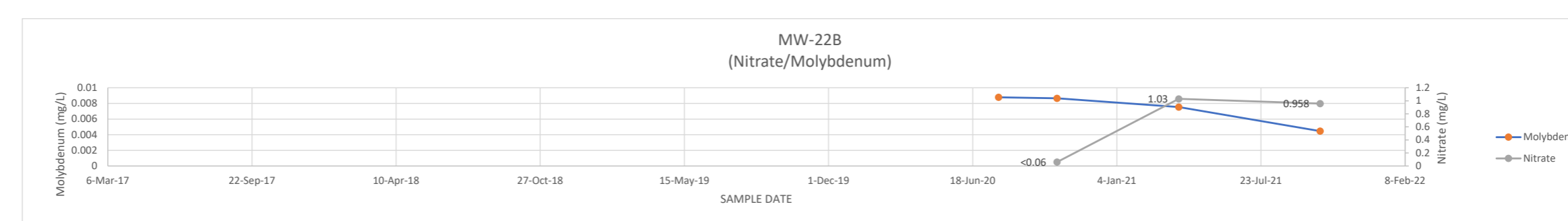
MW-19S	NITRATE	MOLYBDENUM
DATE		
10-Aug-17		0.469
18-May-18		
2-Aug-18		0.384
10-Aug-18		0.112
3-Oct-18	0.049	0.439
15-Jan-19	0.03	0.472
25-Apr-19	0.15	0.462
1-Oct-19	0.03	0.377
17-Jun-20	0.06	0.402
12-Oct-20	0.15	0.367
31-Mar-21	0.06	0.398
15-Oct-21	0.06	0.407



MW-22A	NITRATE	MOLYBDENUM
DATE		
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18	0.458	0.001
16-Jan-19	0.03	0.0006
25-Apr-19	0.15	0.0006
30-Sep-19	0.198	0.000787
18-Jun-20	0.06	0.0006
9-Oct-20	0.15	0.0006
31-Mar-21	0.06	0.0006
13-Oct-21	0.15	0.0006



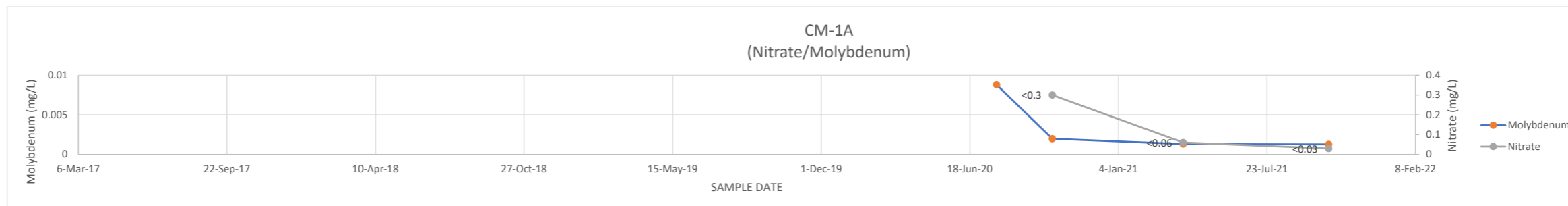
MW-22B	NITRATE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00878
13-Oct-20	0.06	0.00866
31-Mar-21	1.03	0.00753
13-Oct-21	0.958	0.00446



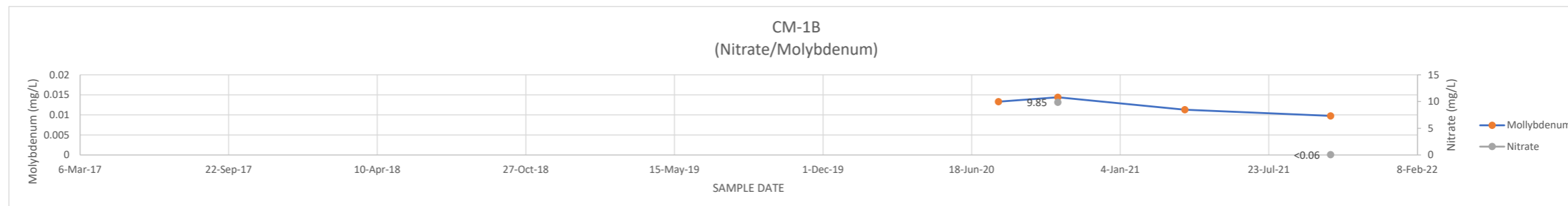
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

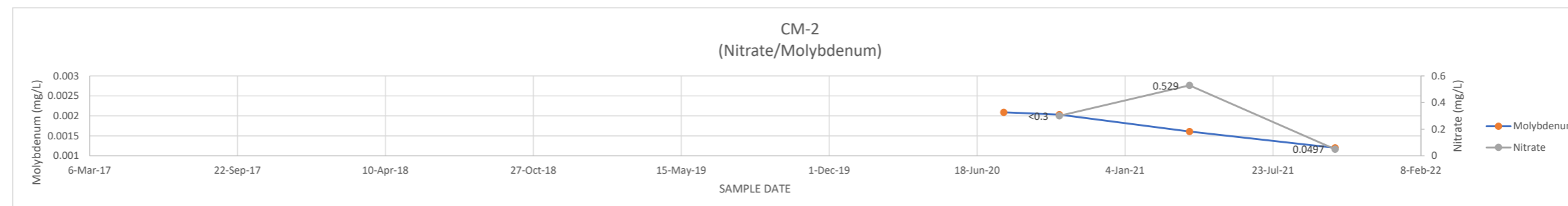
CM-1A DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0088
7-Oct-20	0.3	0.00198
1-Apr-21	0.06	0.00132
14-Oct-21	0.03	0.00127



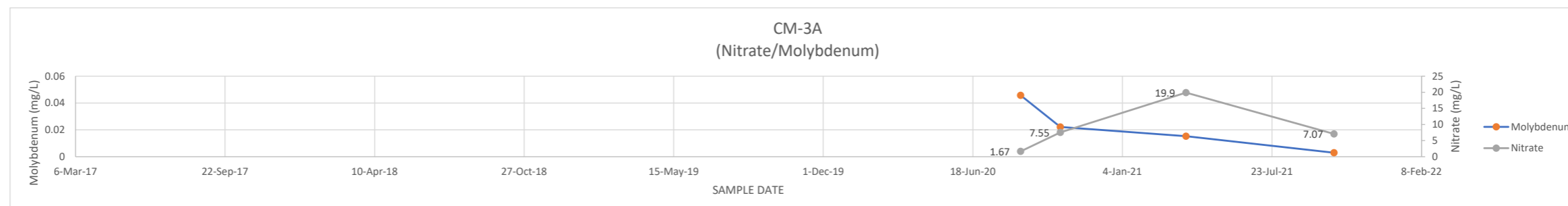
CM-1B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0133
12-Oct-20	9.85	0.0144
1-Apr-21		0.0113
14-Oct-21	0.06	0.00976



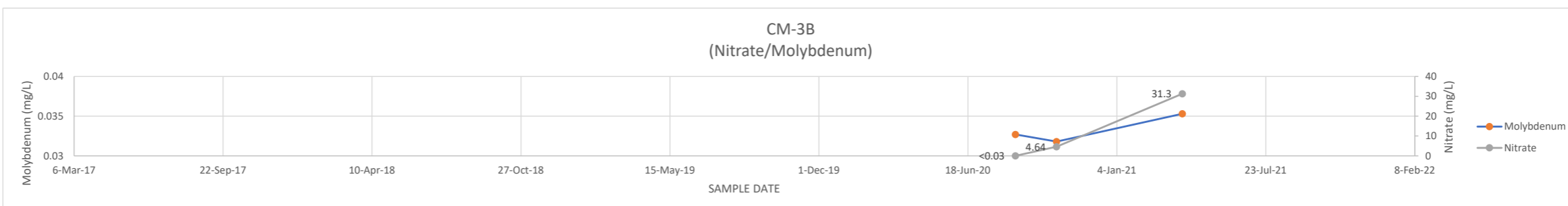
CM-2 DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00209
7-Oct-20	0.3	0.00203
1-Apr-21	0.529	0.00161
15-Oct-21	0.0497	0.0012



CM-3A DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	1.67	0.0457
13-Oct-20	7.55	0.0222
30-Mar-21	19.9	0.0153
14-Oct-21	7.07	0.00297



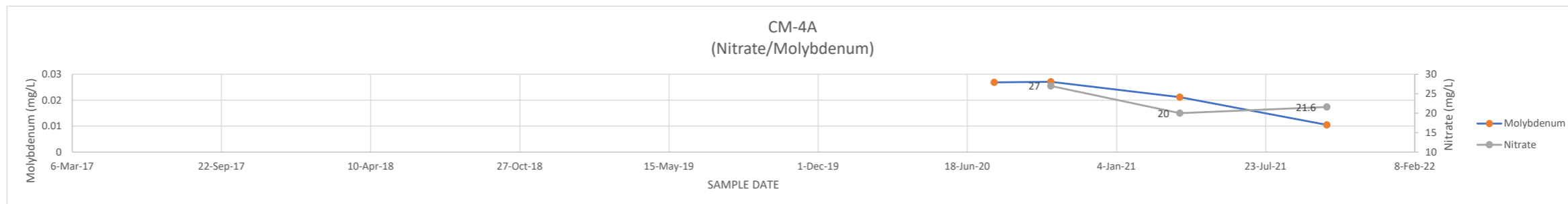
CM-3B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	0.03	0.0327
15-Oct-20	4.64	0.0318
2-Apr-21	31.3	0.0353
11-Oct-21		



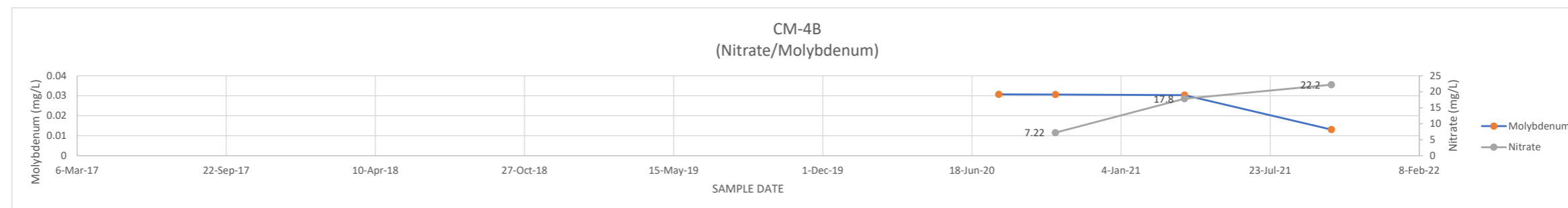
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

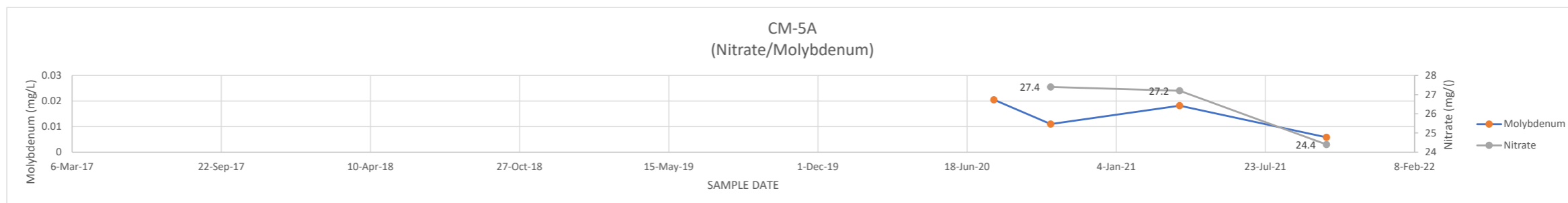
CM-4A DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0269
8-Oct-20	27	0.0271
30-Mar-21	20	0.0212
13-Oct-21	21.6	0.0105



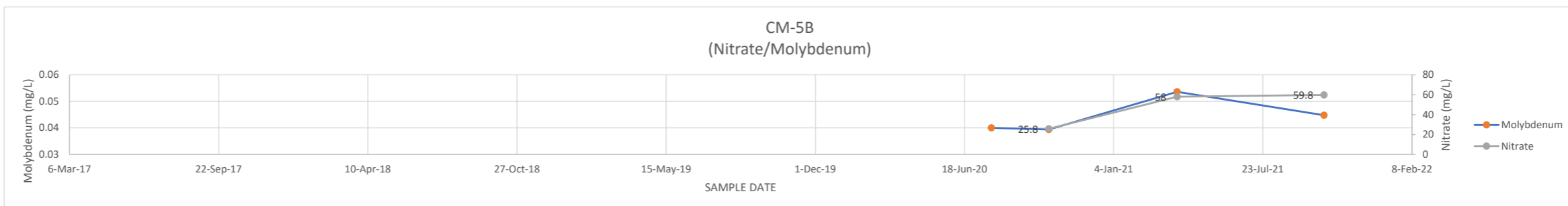
CM-4B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0307
8-Oct-20	7.22	0.0306
30-Mar-21	17.8	0.0303
13-Oct-21	22.2	0.0131



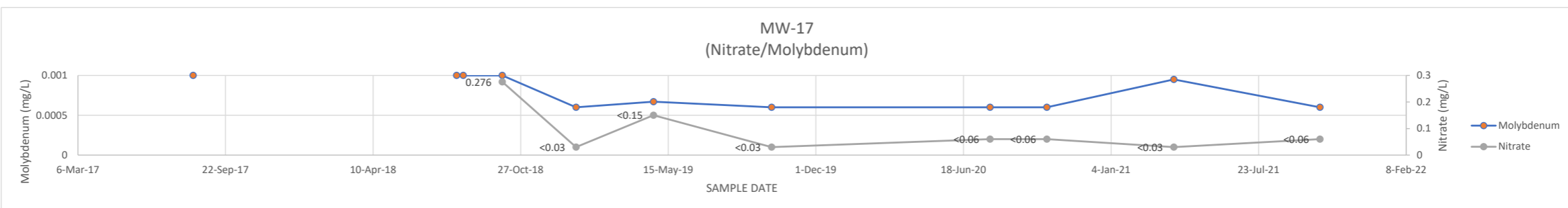
CM-5A DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0205
8-Oct-20	27.4	0.011
30-Mar-21	27.2	0.0182
13-Oct-21	24.4	0.0058



CM-5B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.04
9-Oct-20	25.8	0.0394
30-Mar-21	58	0.0536
13-Oct-21	59.8	0.0448



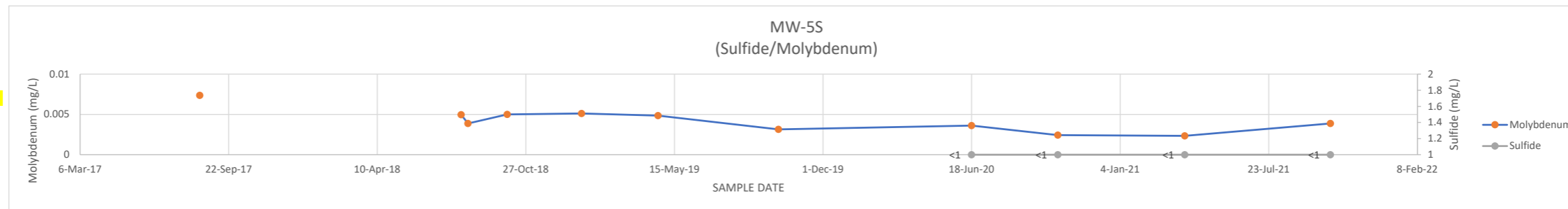
MW-17 DATE	NITRATE	MOLYBDENUM
9-Aug-17		0.001
24-May-18		
1-Aug-18		0.001
10-Aug-18		0.001
2-Oct-18	0.276	0.001
10-Jan-19	0.03	0.0006
25-Apr-19	0.15	0.000671
2-Oct-19	0.03	0.0006
24-Jul-20	0.06	0.0006
9-Oct-20	0.06	0.0006
30-Mar-21	0.03	0.00095
14-Oct-21	0.06	0.0006



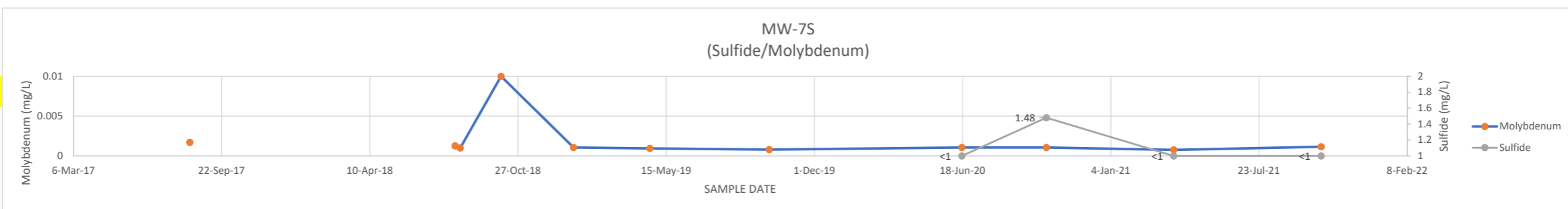
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

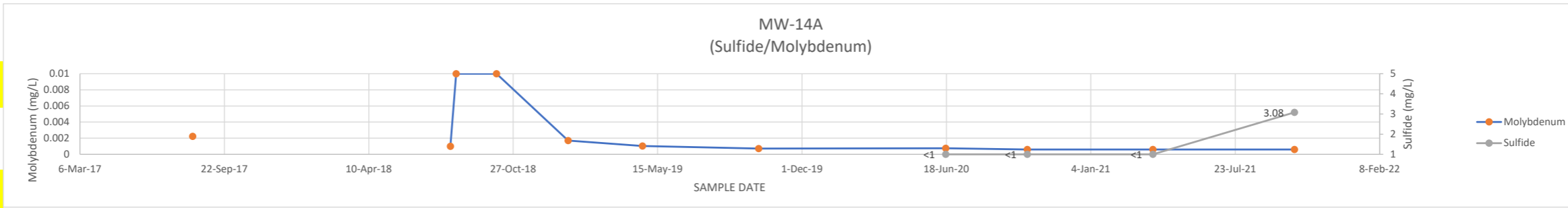
MW-5S	SULFIDE	MOLYBDENUM
DATE		
14-Aug-17		0.00737
22-May-18		
1-Aug-18		0.00497
10-Aug-18		0.00387
2-Oct-18		0.005
10-Jan-19		0.00512
23-Apr-19		0.00485
2-Oct-19		0.00315
18-Jun-20	1	0.00361
12-Oct-20	1	0.00244
1-Apr-21	1	0.00234
14-Oct-21	1	0.00387



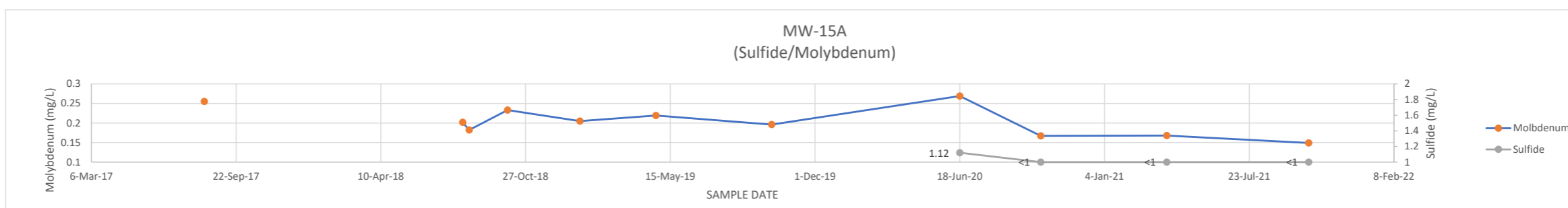
MW-7S	SULFIDE	MOLYBDENUM
DATE		
10-Aug-17		0.00171
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18		0.01
10-Jan-19		0.00105
23-Apr-19		0.000952
1-Oct-19		0.000798
17-Jun-20	1	0.00105
9-Oct-20	1.48	0.00106
30-Mar-21	1	0.000755
15-Oct-21	1	0.00115



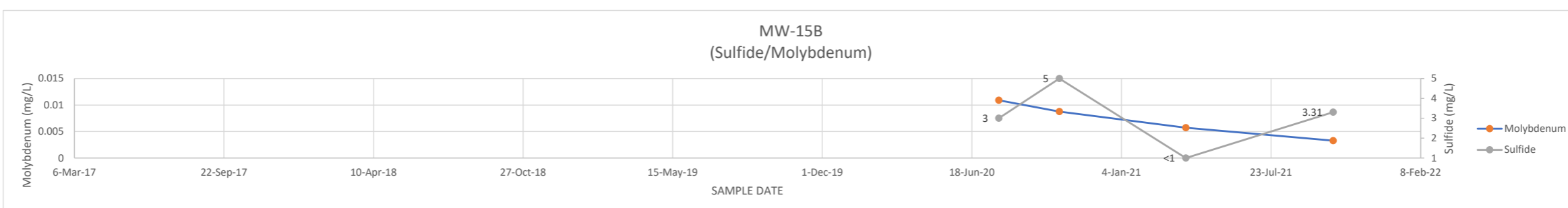
MW-14A	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		0.00223
17-May-18		
1-Aug-18		0.001
9-Aug-18		0.01
4-Oct-18		0.01
11-Jan-19		0.0017
24-Apr-19		0.00104
2-Oct-19		0.000709
17-Jun-20	1	0.00076
8-Oct-20	1	0.0006
31-Mar-21	1	0.0006
13-Oct-21	3.08	0.0006



MW-15A	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		0.255
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18		0.233
10-Jan-19		0.205
25-Apr-19		0.219
2-Oct-19		0.196
18-Jun-20	1.12	0.269
8-Oct-20	1	0.167
31-Mar-21	1	0.168
13-Oct-21	1	0.149



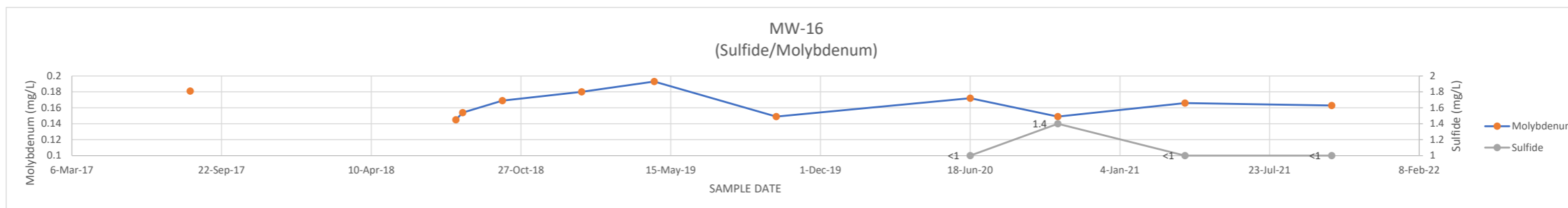
MW-15B	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3	0.0109
13-Oct-20	5	0.00876
31-Mar-21	1	0.00571
14-Oct-21	3.31	0.00328



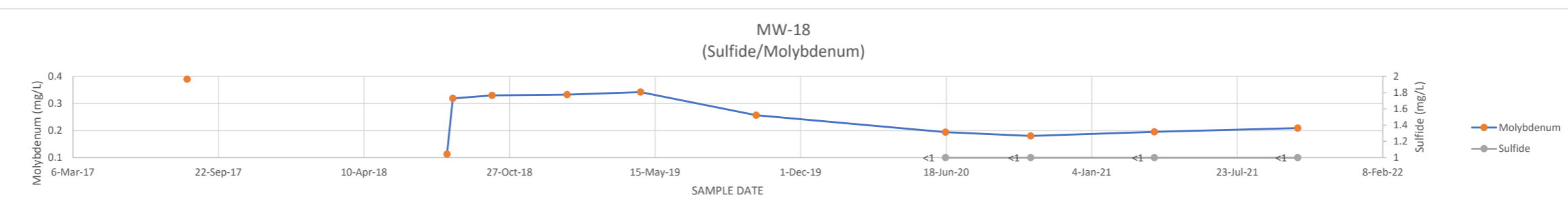
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

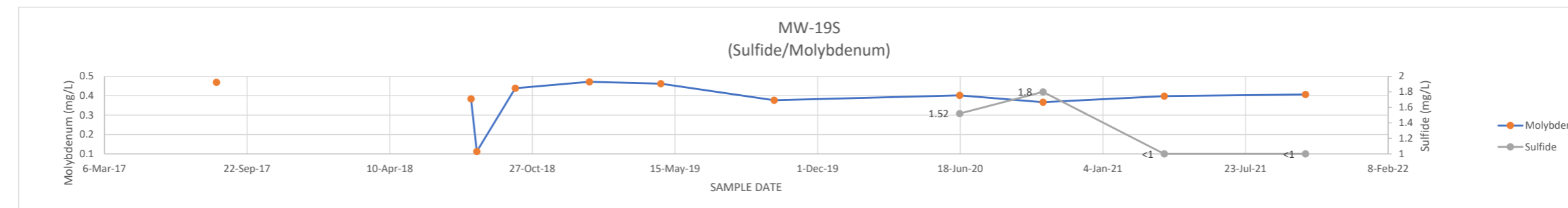
MW-16	SULFIDE	MOLYBDENUM
DATE		
11-Aug-17		0.181
22-May-18		
1-Aug-18		0.145
10-Aug-18		0.154
2-Oct-18		0.169
16-Jan-19		0.18
23-Apr-19		0.193
3-Oct-19		0.149
18-Jun-20	1	0.172
13-Oct-20	1.4	0.149
1-Apr-21	1	0.166
14-Oct-21	1	0.163



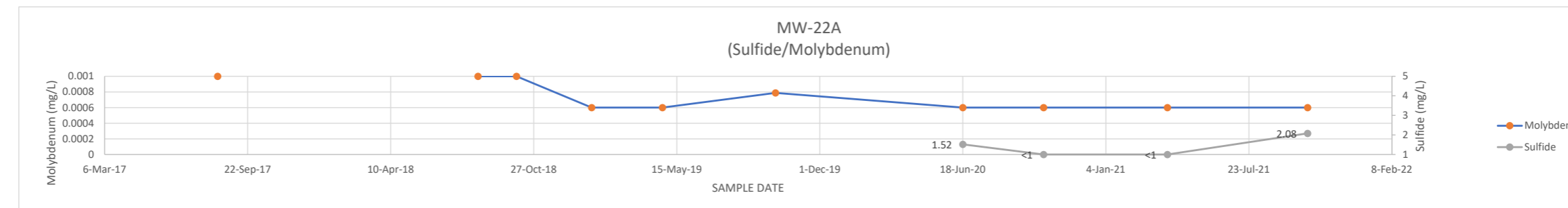
MW-18	SULFIDE	MOLYBDENUM
DATE		
10-Aug-17		0.39
18-May-18		
2-Aug-18		0.113
10-Aug-18		0.319
3-Oct-18		0.33
14-Jan-19		0.333
25-Apr-19		0.342
1-Oct-19		0.257
17-Jun-20	1	0.194
12-Oct-20	1	0.18
31-Mar-21	1	0.195
14-Oct-21	1	0.209



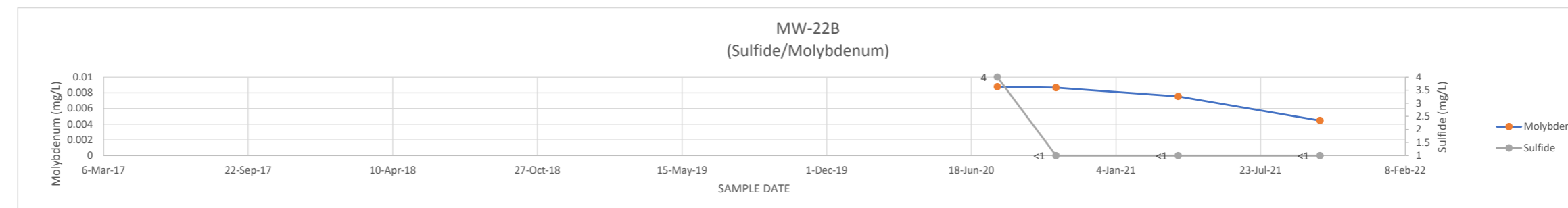
MW-19S	SULFIDE	MOLYBDENUM
DATE		
10-Aug-17		0.469
18-May-18		
2-Aug-18		0.384
10-Aug-18		0.112
3-Oct-18		0.439
15-Jan-19		0.472
25-Apr-19		0.462
1-Oct-19		0.377
17-Jun-20	1.52	0.402
12-Oct-20	1.8	0.367
31-Mar-21	1	0.398
15-Oct-21	1	0.407



MW-22A	SULFIDE	MOLYBDENUM
DATE		
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18		0.001
16-Jan-19		0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20	1.52	0.0006
9-Oct-20	1	0.0006
31-Mar-21	1	0.0006
13-Oct-21	2.08	0.0006



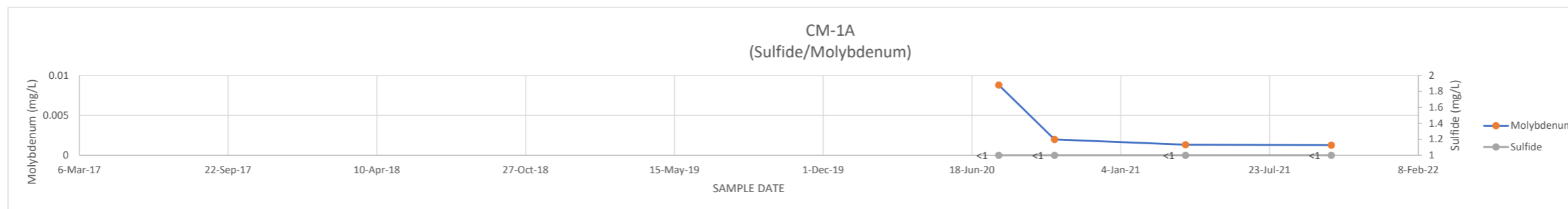
MW-22B	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4	0.00878
13-Oct-20	1	0.00866
31-Mar-21	1	0.00753
13-Oct-21	1	0.00446



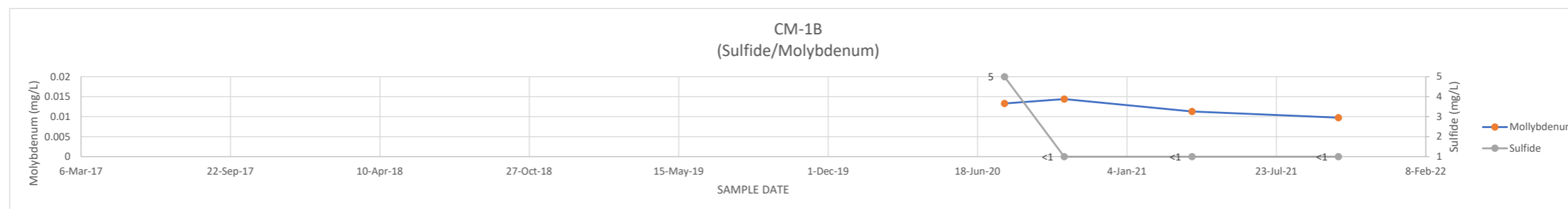
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

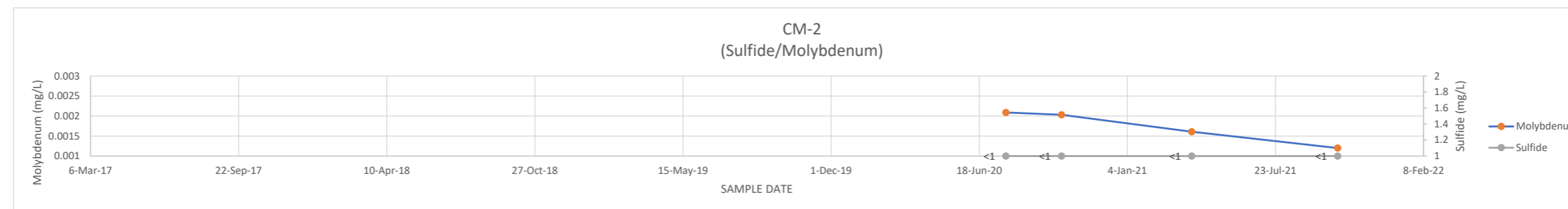
CM-1A	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1	0.0088
7-Oct-20	1	0.00198
1-Apr-21	1	0.00132
14-Oct-21	1	0.00127



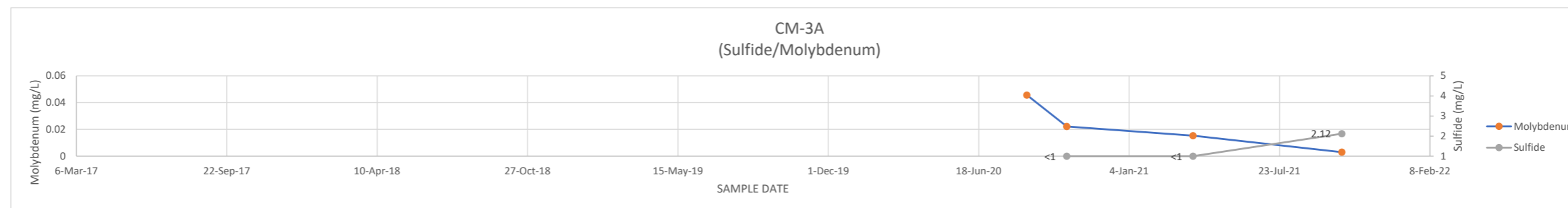
CM-1B	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	5	0.0133
12-Oct-20	1	0.0144
1-Apr-21	1	0.0113
14-Oct-21	1	0.00976



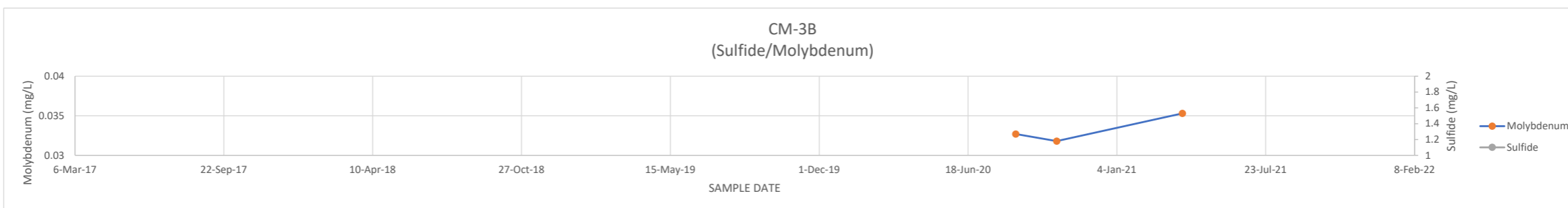
CM-2	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1	0.00209
7-Oct-20	1	0.00203
1-Apr-21	1	0.00161
15-Oct-21	1	0.0012



CM-3A	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20	1	0.0222
30-Mar-21	1	0.0153
14-Oct-21	2.12	0.00297



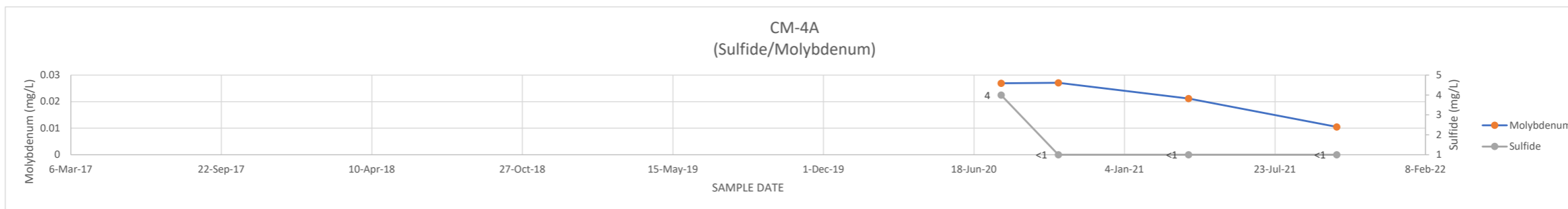
CM-3B	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		



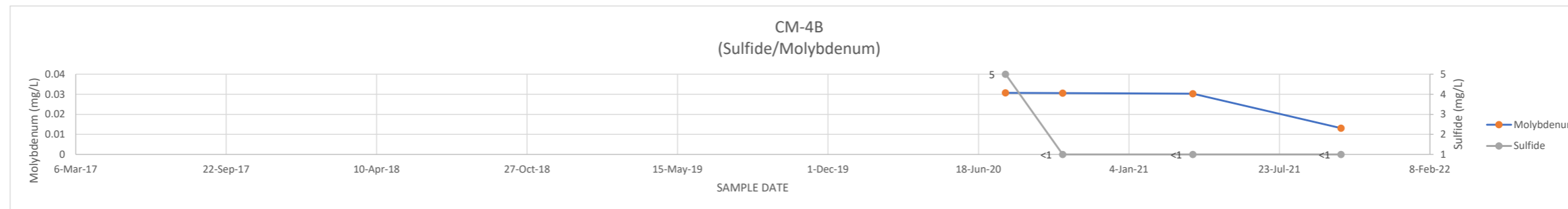
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

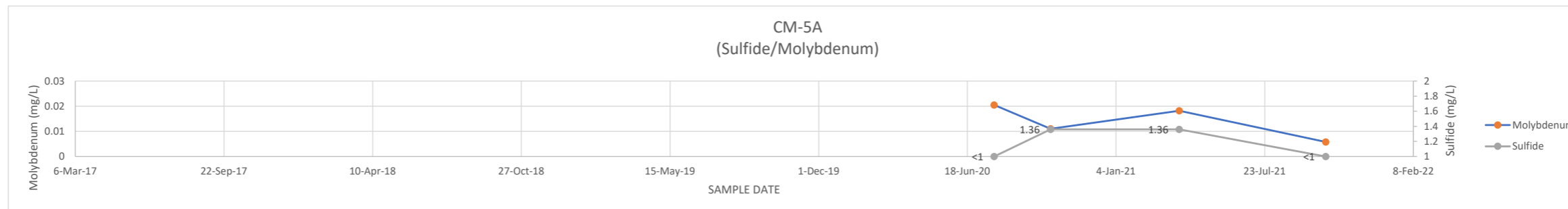
CM-4A	DATE	SULFLIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	4	0.0269	
8-Oct-20	1	0.0271	
30-Mar-21	1	0.0212	
13-Oct-21	1	0.0105	



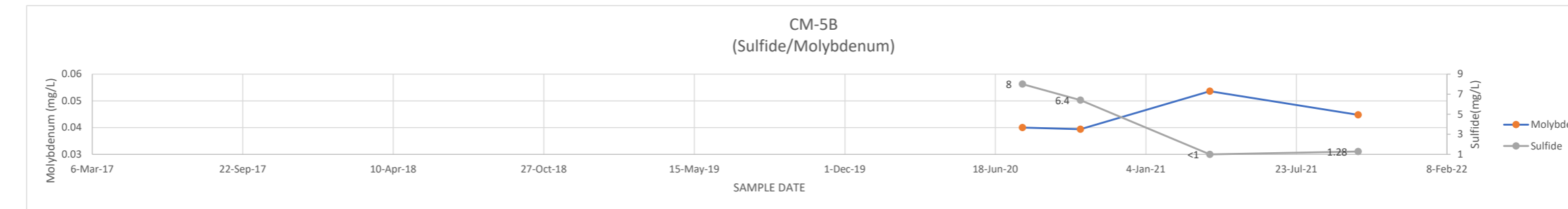
CM-4B	DATE	SULFLIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	5	0.0307	
8-Oct-20	1	0.0306	
30-Mar-21	1	0.0303	
13-Oct-21	1	0.0131	



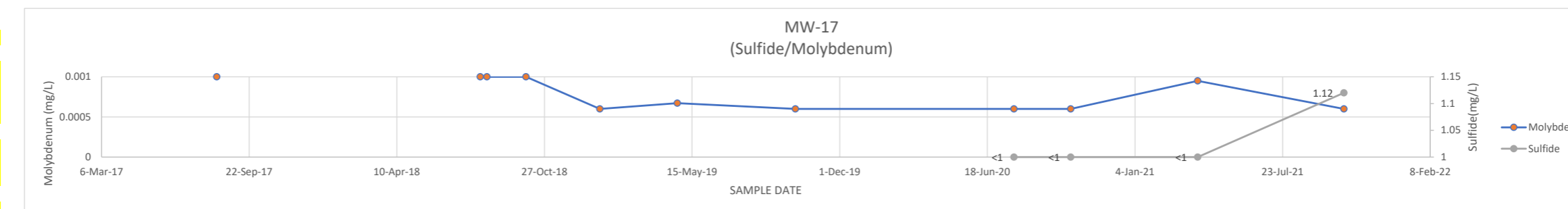
CM-5A	DATE	SULFIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	1	0.0205	
8-Oct-20	1.36	0.011	
30-Mar-21	1.36	0.0182	
13-Oct-21	1	0.0058	



CM-5B	DATE	SULFIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	8	0.04	
9-Oct-20	6.4	0.0394	
30-Mar-21	1	0.0536	
13-Oct-21	1.28	0.0448	



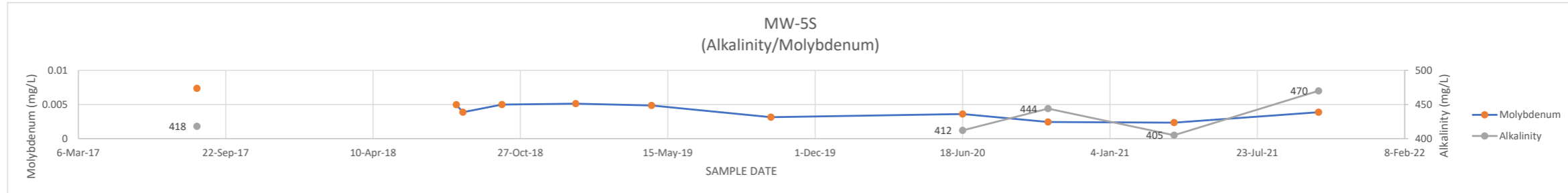
MW-17	DATE	SULFIDE	MOLYBDENUM
9-Aug-17			0.001
24-May-18			
1-Aug-18			0.001
10-Aug-18			0.001
2-Oct-18			0.001
10-Jan-19			0.0006
25-Apr-19			0.000671
2-Oct-19			0.0006
24-Jul-20	1	0.0006	
9-Oct-20	1	0.0006	
30-Mar-21	1	0.00095	
14-Oct-21	1.12	0.0006	



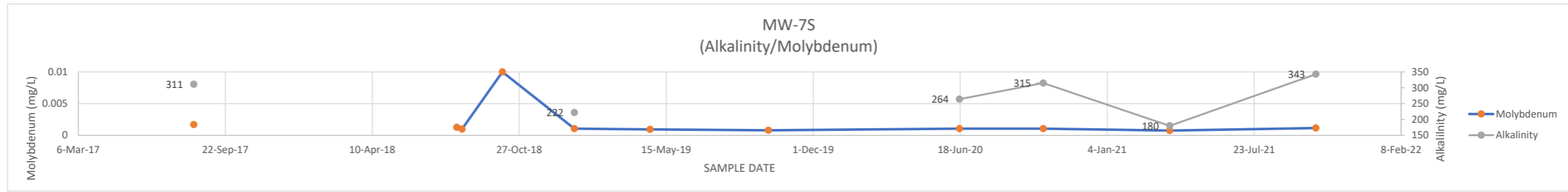
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

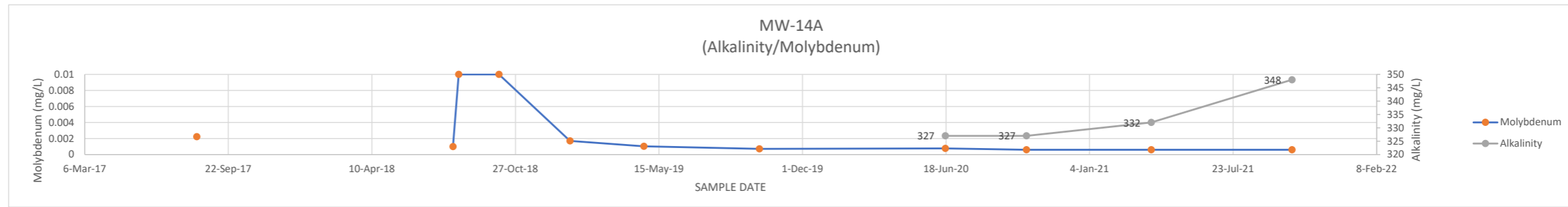
MW-5S DATE	ALKALINITY	MOLYBDENUM
14-Aug-17	418	0.00737
22-May-18		
1-Aug-18		0.00497
10-Aug-18		0.00387
2-Oct-18		0.005
10-Jan-19		0.00512
23-Apr-19		0.00485
2-Oct-19		0.00315
18-Jun-20	412	0.00361
12-Oct-20	444	0.00244
1-Apr-21	405	0.00234
14-Oct-21	470	0.00387



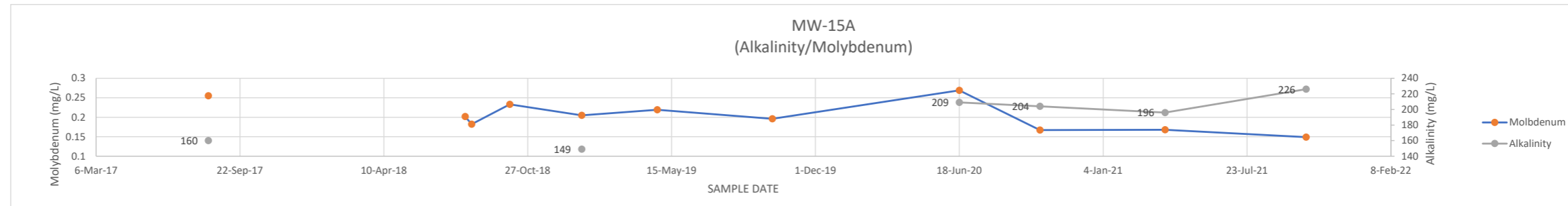
MW-7S DATE	ALKALINITY	MOLYBDENUM
10-Aug-17	311	0.00171
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18		0.01
10-Jan-19	222	0.00105
23-Apr-19		0.000952
1-Oct-19		0.000798
17-Jun-20	264	0.00105
9-Oct-20	315	0.00106
30-Mar-21	180	0.000755
15-Oct-21	343	0.00115



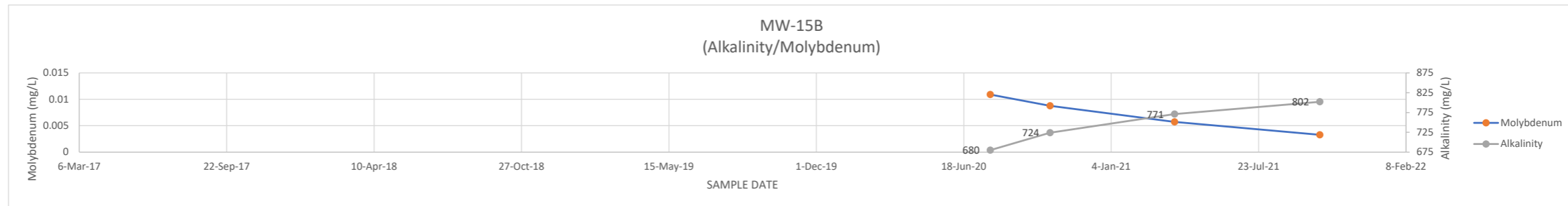
MW-14A DATE	ALKALINITY	MOLYBDENUM
9-Aug-17	280	0.00223
17-May-18		
1-Aug-18		0.001
9-Aug-18		0.01
4-Oct-18		0.01
11-Jan-19		0.0017
24-Apr-19		0.00104
2-Oct-19		0.000709
17-Jun-20	327	0.00076
8-Oct-20	327	0.0006
31-Mar-21	332	0.0006
13-Oct-21	348	0.0006



MW-15A DATE	ALKALINITY	MOLYBDENUM
9-Aug-17	160	0.255
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18		0.233
10-Jan-19	149	0.205
25-Apr-19		0.219
2-Oct-19		0.196
18-Jun-20	209	0.269
8-Oct-20	204	0.167
31-Mar-21	196	0.168
13-Oct-21	226	0.149



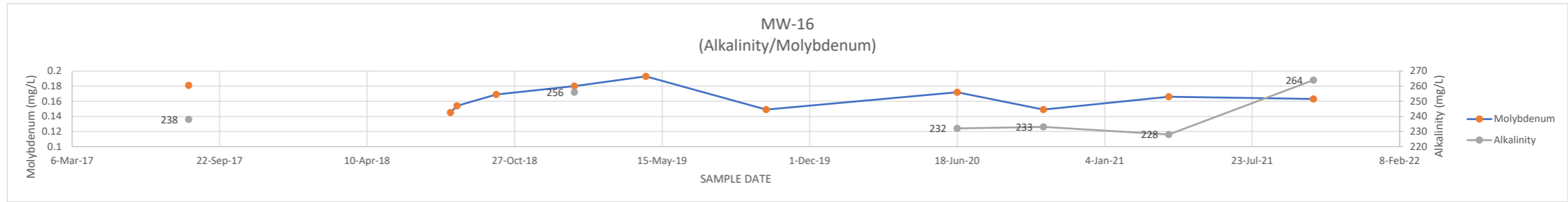
MW-15B DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	680	0.0109
13-Oct-20	724	0.00876
31-Mar-21	771	0.00571
14-Oct-21	802	0.00328



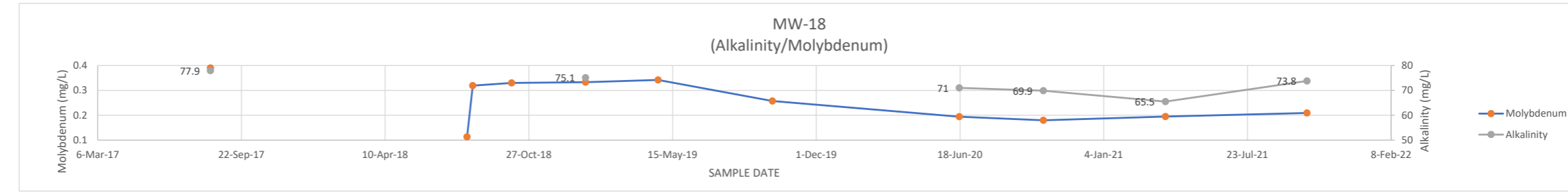
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

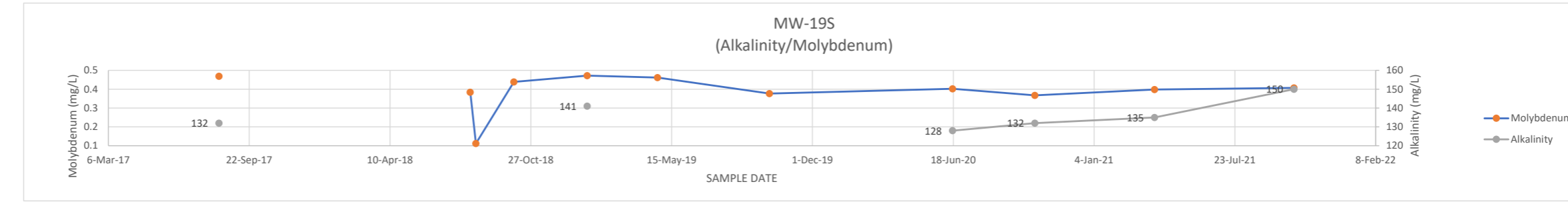
MW-16	ALKALINITY	MOLYBDENUM
DATE		
11-Aug-17	238	0.181
22-May-18		
1-Aug-18		0.145
10-Aug-18		0.154
2-Oct-18		0.169
16-Jan-19	256	0.18
23-Apr-19		0.193
3-Oct-19		0.149
18-Jun-20	232	0.172
13-Oct-20	233	0.149
1-Apr-21	228	0.166
14-Oct-21	264	0.163



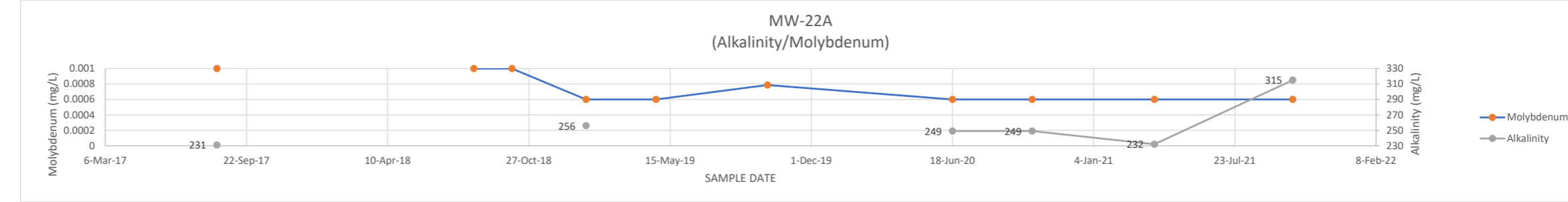
MW-18	ALKALINITY	MOLYBDENUM
DATE		
10-Aug-17	77.9	0.39
18-May-18		
2-Aug-18		0.113
10-Aug-18		0.319
3-Oct-18		0.33
14-Jan-19	75.1	0.333
25-Apr-19		0.342
1-Oct-19		0.257
17-Jun-20	71	0.194
12-Oct-20	69.9	0.18
31-Mar-21	65.5	0.195
14-Oct-21	73.8	0.209



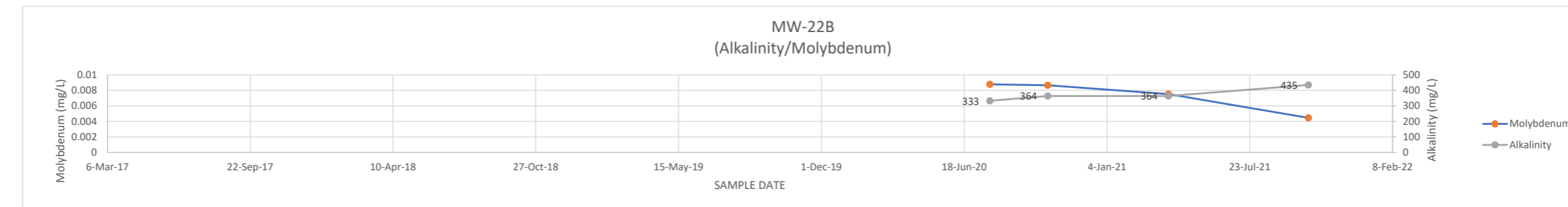
MW-19S	ALKALINITY	MOLYBDENUM
DATE		
10-Aug-17	132	0.469
18-May-18		
2-Aug-18		0.384
10-Aug-18		0.112
3-Oct-18		0.439
15-Jan-19	141	0.472
25-Apr-19		0.462
1-Oct-19		0.377
17-Jun-20	128	0.402
12-Oct-20	132	0.367
31-Mar-21	135	0.398
15-Oct-21	150	0.407



MW-22A	ALKALINITY	MOLYBDENUM
DATE		
11-Aug-17	231	0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18		0.001
16-Jan-19	256	0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20	249	0.0006
9-Oct-20	249	0.0006
31-Mar-21	232	0.0006
13-Oct-21	315	0.0006



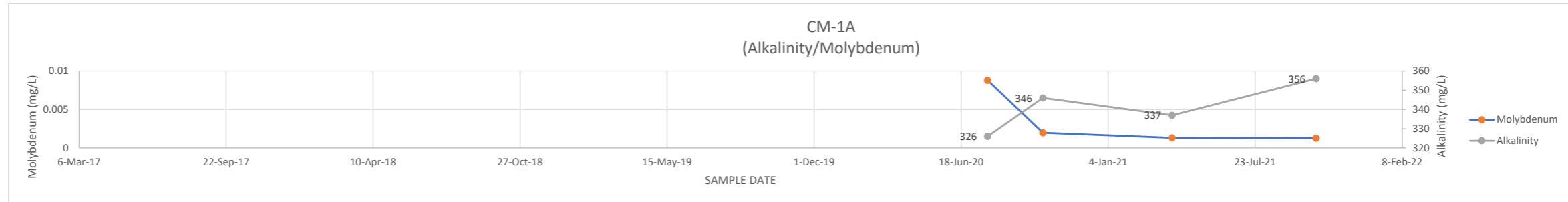
MW-22B	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	333	0.00878
13-Oct-20	364	0.00866
31-Mar-21	364	0.00753
13-Oct-21	435	0.00446



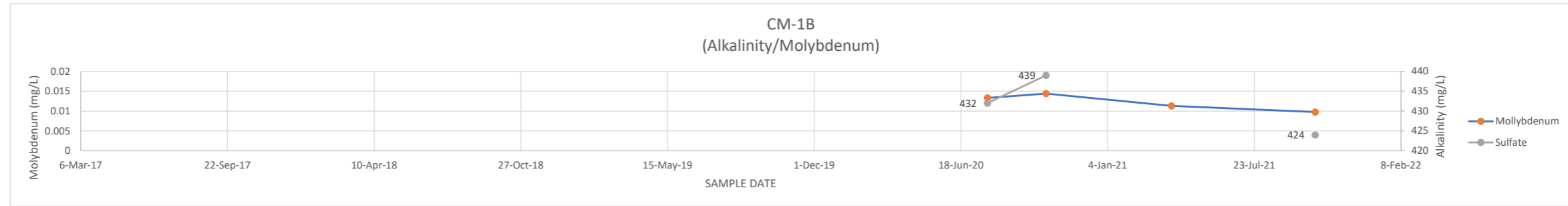
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

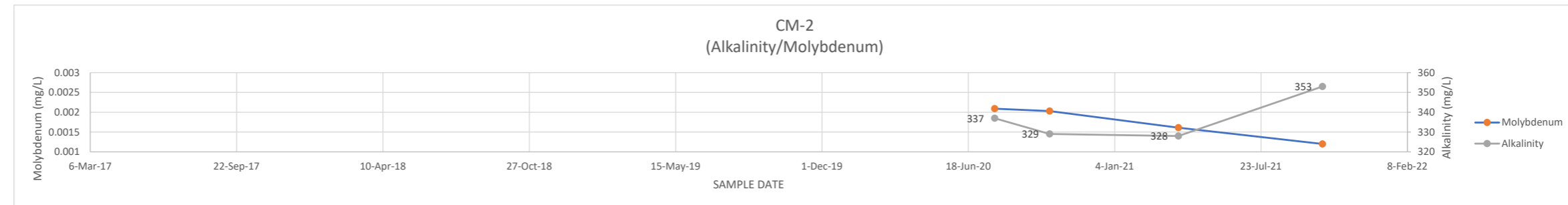
CM-1A DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	326	0.0088
7-Oct-20	346	0.00198
1-Apr-21	337	0.00132
14-Oct-21	356	0.00127



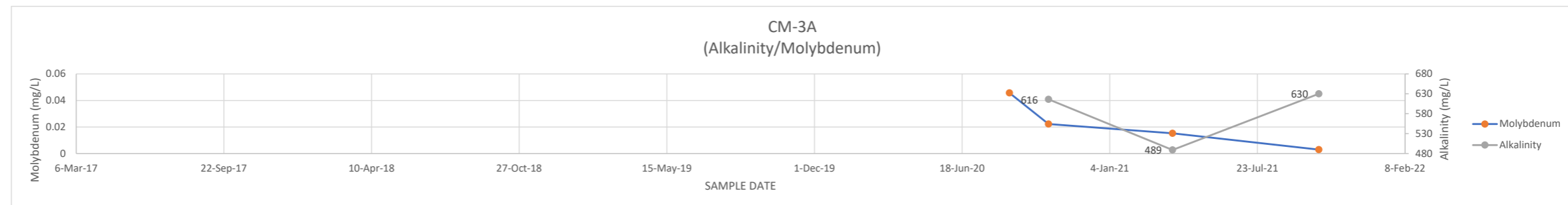
CM-1B DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	432	0.0133
12-Oct-20	439	0.0144
1-Apr-21	424	0.0113
14-Oct-21	424	0.00976



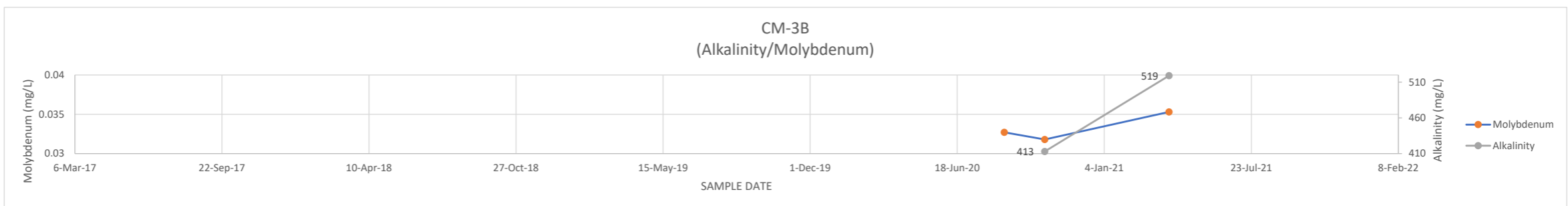
CM-2 DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	337	0.00209
7-Oct-20	329	0.00203
1-Apr-21	328	0.00161
15-Oct-21	353	0.0012



CM-3A DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0457
13-Oct-20	616	0.0222
30-Mar-21	489	0.0153
14-Oct-21	630	0.00297

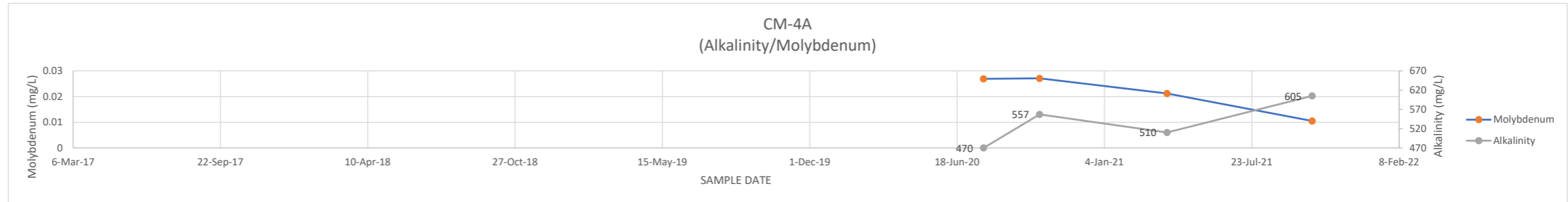


CM-3B DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20	413	0.0318
2-Apr-21	519	0.0353
11-Oct-21		

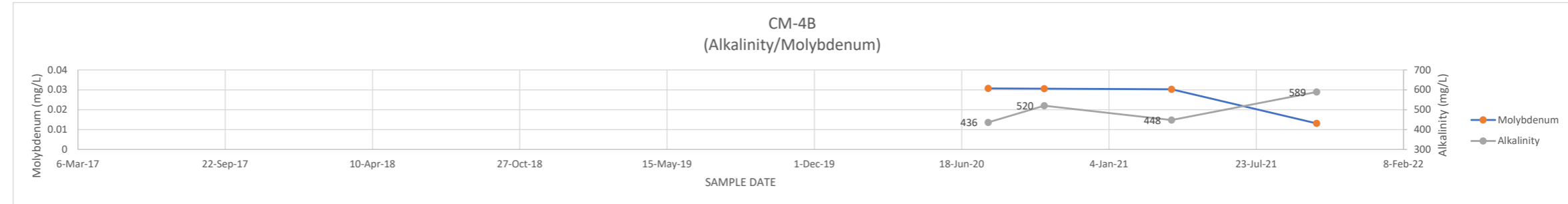


ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

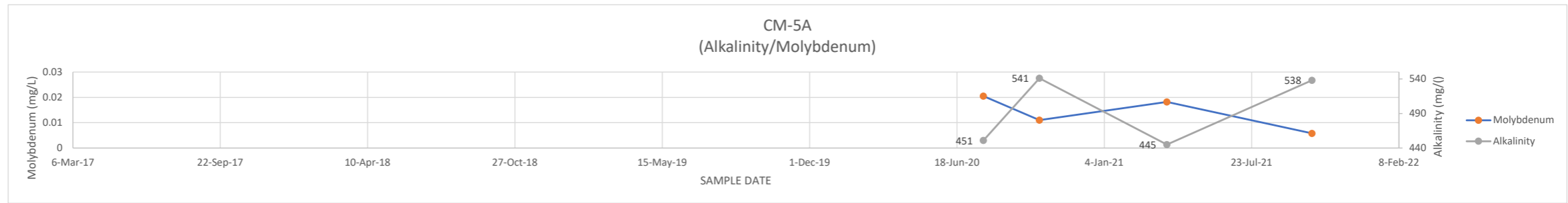
CM-4A DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	470	0.0269
8-Oct-20	557	0.0271
30-Mar-21	510	0.0212
13-Oct-21	605	0.0105



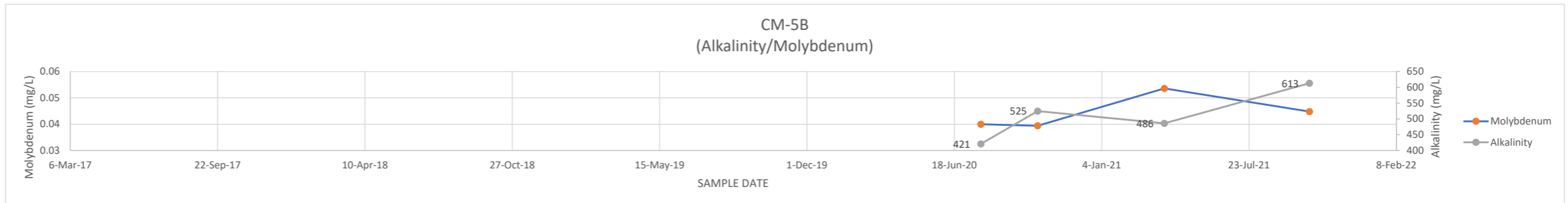
CM-4B DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	436	0.0307
8-Oct-20	520	0.0306
30-Mar-21	448	0.0303
13-Oct-21	589	0.0131



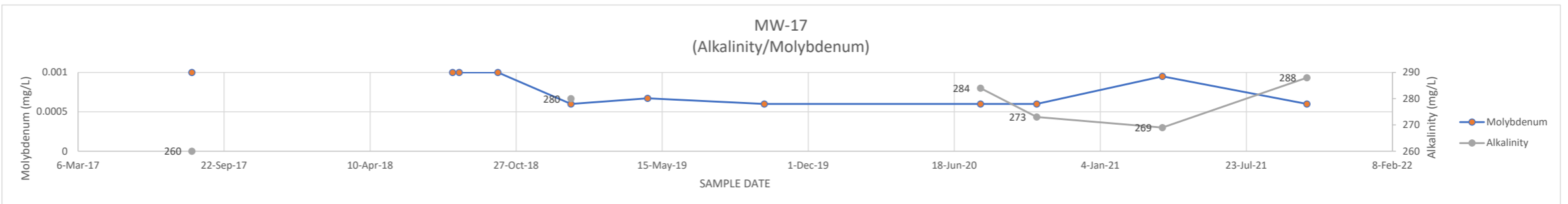
CM-5A DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	451	0.0205
8-Oct-20	541	0.011
30-Mar-21	445	0.0182
13-Oct-21	538	0.0058



CM-5B DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	421	0.04
9-Oct-20	525	0.0394
30-Mar-21	486	0.0536
13-Oct-21	613	0.0448



MW-17 DATE	ALKALINITY	MOLYBDENUM
9-Aug-17	260	0.001
24-May-18		0.001
1-Aug-18		0.001
10-Aug-18		0.001
2-Oct-18		0.001
10-Jan-19	280	0.0006
25-Apr-19		0.000671
2-Oct-19		0.0006
24-Jul-20	284	0.0006
9-Oct-20	273	0.0006
30-Mar-21	269	0.00095
14-Oct-21	288	0.0006



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H

CHANGES IN IRON CONCENTRATION COMPARED TO CHANGES IN MONLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

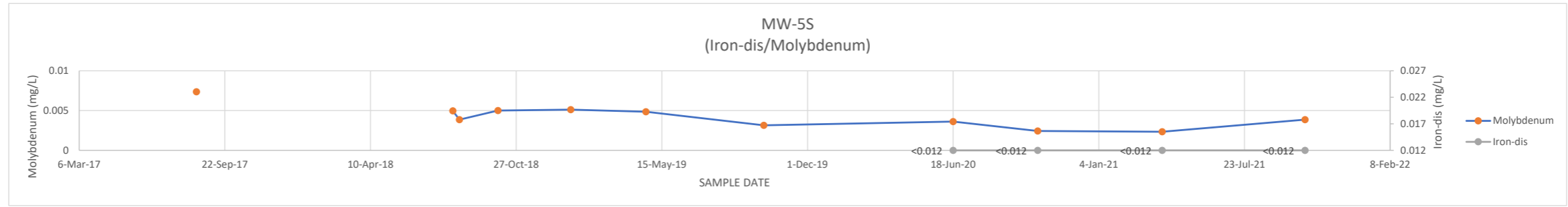
H-1: CHANGES IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

H-2: CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM
CONCENTRATIONS

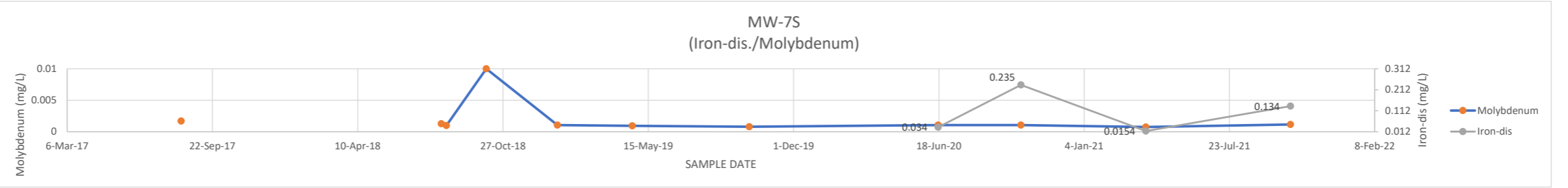
H-3: CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM
CONCENTRATIONS

ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

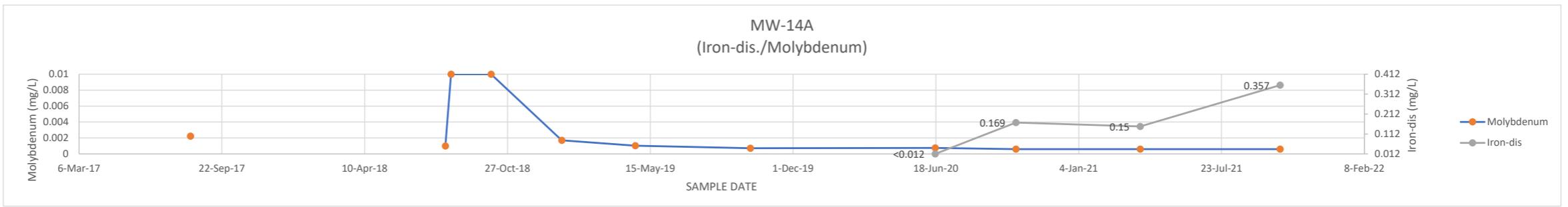
MW-5S	DIS	FE	MOLYBDENUM
DATE			
14-Aug-17			0.00737
22-May-18			
1-Aug-18			0.00497
10-Aug-18			0.00387
2-Oct-18			0.005
10-Jan-19			0.00512
23-Apr-19			0.00485
2-Oct-19			0.00315
18-Jun-20	0.012		0.00361
12-Oct-20	0.012		0.00244
1-Apr-21	0.012		0.00234
14-Oct-21	0.012		0.00387



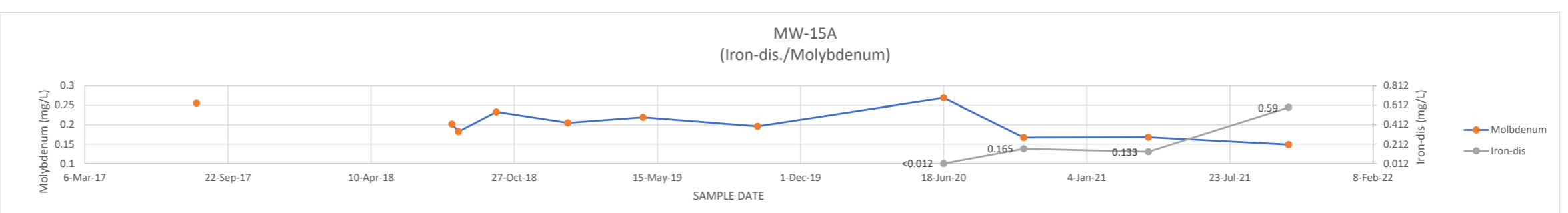
MW-7S	DIS	FE	MOLYBDENUM
DATE			
10-Aug-17			0.00171
17-May-18			
3-Aug-18			0.00127
10-Aug-18			0.001
4-Oct-18			0.01
10-Jan-19			0.00105
23-Apr-19			0.000952
1-Oct-19			0.000798
17-Jun-20	0.034		0.00105
9-Oct-20	0.235		0.00106
30-Mar-21	0.0154		0.000755
15-Oct-21	0.134		0.00115



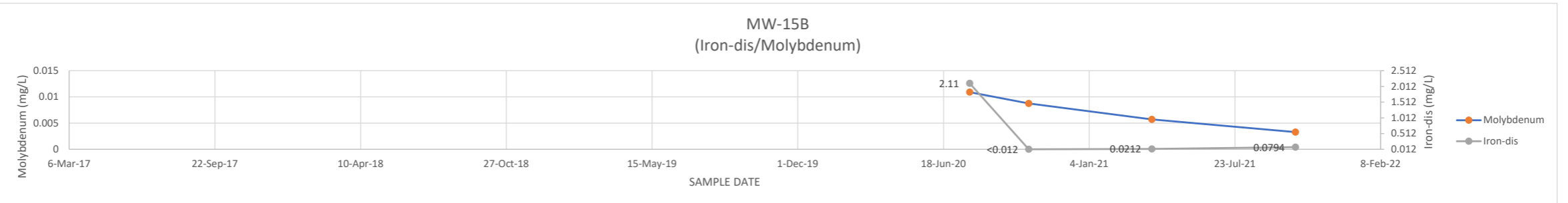
MW-14A	DIS	FE	MOLYBDENUM
DATE			
9-Aug-17			0.00223
17-May-18			
1-Aug-18			0.001
9-Aug-18			0.01
4-Oct-18			0.01
11-Jan-19			0.0017
24-Apr-19			0.00104
2-Oct-19			0.000709
17-Jun-20	0.012		0.00076
8-Oct-20	0.169		0.0006
31-Mar-21	0.15		0.0006
13-Oct-21	0.357		0.0006



MW-15A	DIS	FE	MOLYBDENUM
DATE			
9-Aug-17			0.255
24-May-18			
1-Aug-18			0.202
10-Aug-18			0.182
2-Oct-18			0.233
10-Jan-19			0.205
25-Apr-19			0.219
2-Oct-19			0.196
18-Jun-20	0.012		0.269
8-Oct-20	0.165		0.167
31-Mar-21	0.133		0.168
13-Oct-21	0.59		0.149



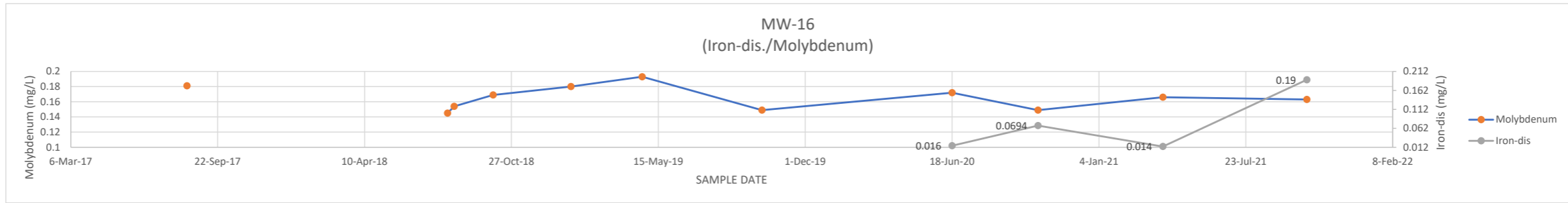
MW-15B	DIS	FE	MOLYBDENUM
DATE			
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	2.11		0.0109
13-Oct-20	0.012		0.00876
31-Mar-21	0.0212		0.00571
14-Oct-21	0.0794		0.00328



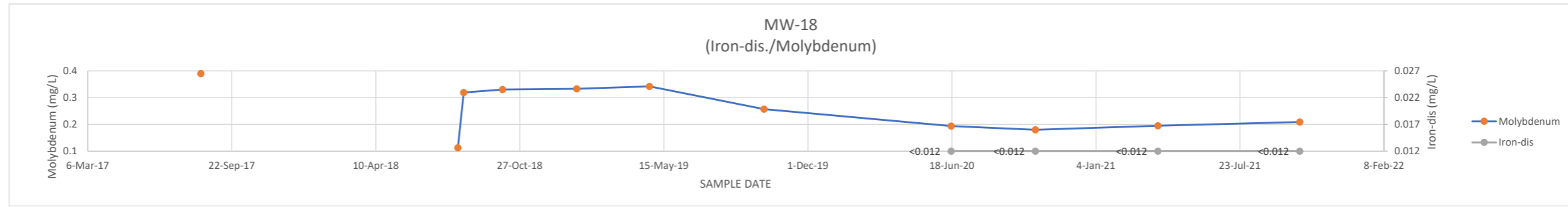
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

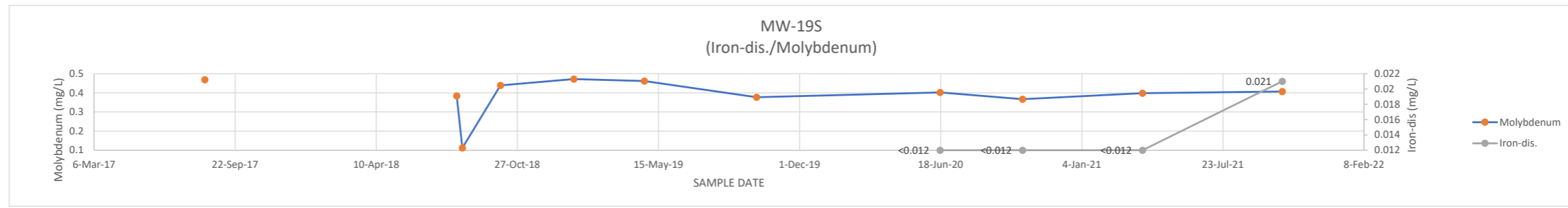
MW-16	DIS FE	MOLYBDENUM
DATE		
11-Aug-17		0.181
22-May-18		
1-Aug-18		0.145
10-Aug-18		0.154
2-Oct-18		0.169
16-Jan-19		0.18
23-Apr-19		0.193
3-Oct-19		0.149
18-Jun-20	0.016	0.172
13-Oct-20	0.0694	0.149
1-Apr-21	0.014	0.166
14-Oct-21	0.19	0.163



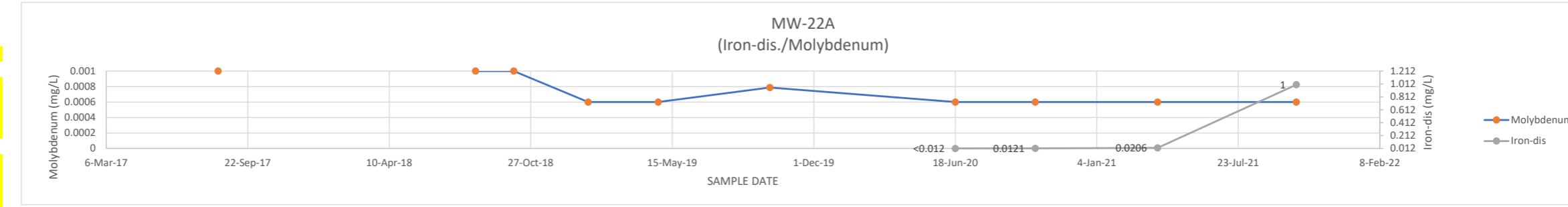
MW-18	DIS FE	MOLYBDENUM
DATE		
10-Aug-17		0.39
18-May-18		
2-Aug-18		0.113
10-Aug-18		0.319
3-Oct-18		0.33
14-Jan-19		0.333
25-Apr-19		0.342
1-Oct-19		0.257
17-Jun-20	0.012	0.194
12-Oct-20	0.012	0.18
31-Mar-21	0.012	0.195
14-Oct-21	0.012	0.209



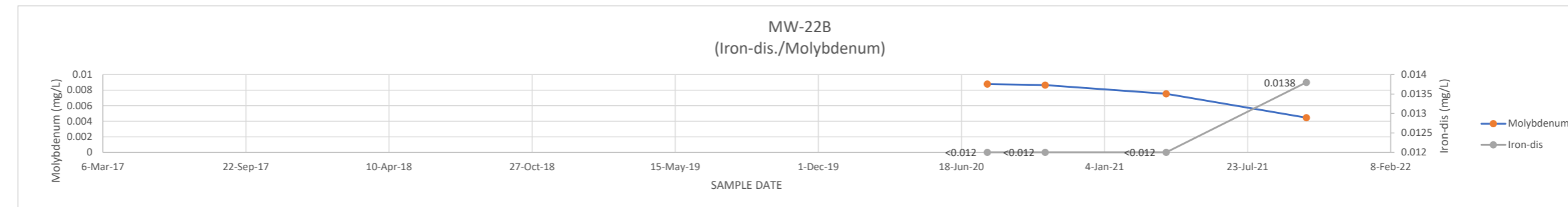
MW-19S	DIS FE	MOLYBDENUM
DATE		
10-Aug-17		0.469
18-May-18		
2-Aug-18		0.384
10-Aug-18		0.112
3-Oct-18		0.439
15-Jan-19		0.472
25-Apr-19		0.462
1-Oct-19		0.377
17-Jun-20	0.012	0.402
12-Oct-20	0.012	0.367
31-Mar-21	0.012	0.398
15-Oct-21	0.021	0.407



MW-22A	DIS FE	MOLYBDENUM
DATE		
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18		0.001
16-Jan-19		0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20	0.012	0.0006
9-Oct-20	0.0121	0.0006
31-Mar-21	0.0206	0.0006
13-Oct-21	1	0.0006



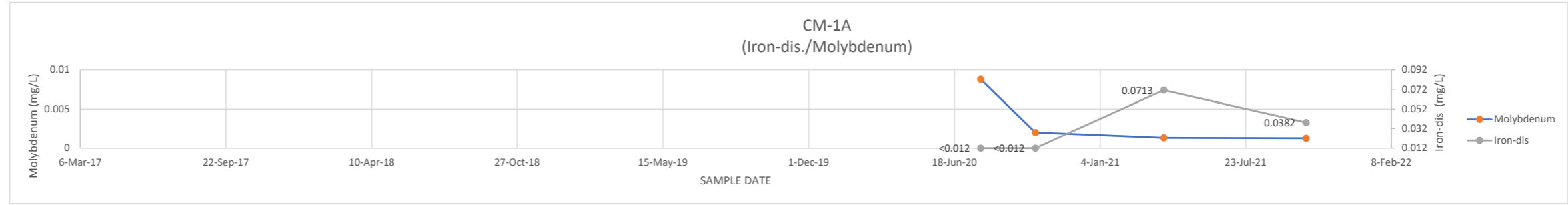
MW-22B	DIS FE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.012	0.00878
13-Oct-20	0.012	0.00866
31-Mar-21	0.012	0.00753
13-Oct-21	0.0138	0.00446



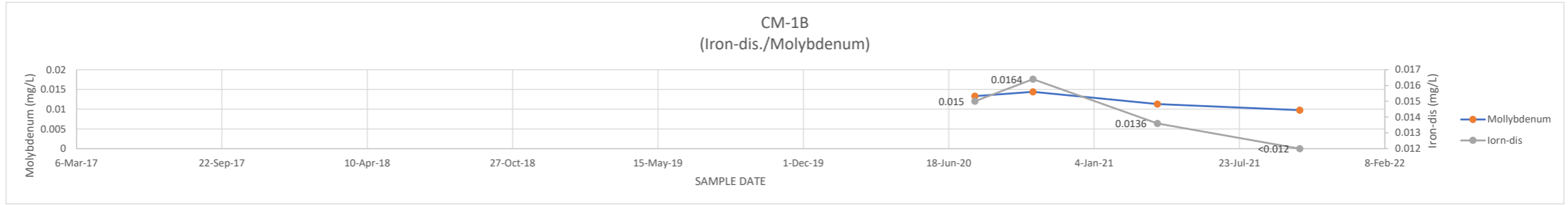
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

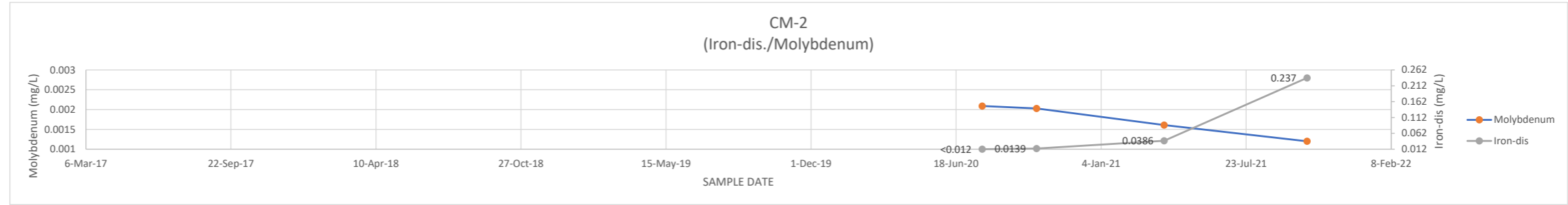
CM-1A DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.012	0.0088
7-Oct-20	0.012	0.00198
1-Apr-21	0.0713	0.00132
14-Oct-21	0.0382	0.00127



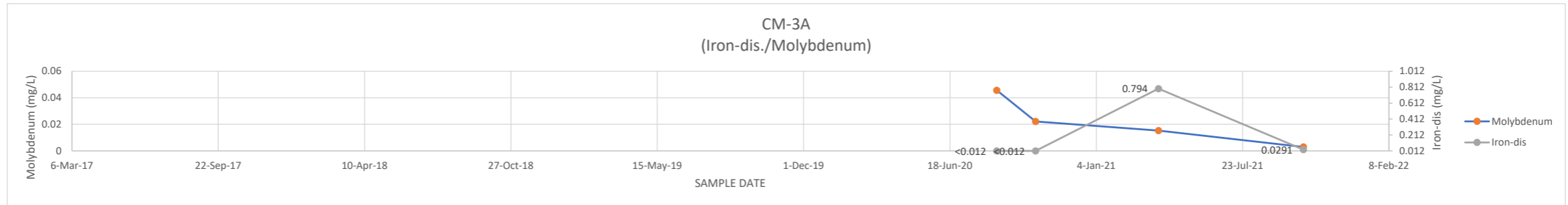
CM-1B DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.015	0.0133
12-Oct-20	0.0164	0.0144
1-Apr-21	0.0136	0.0113
14-Oct-21	0.012	0.00976



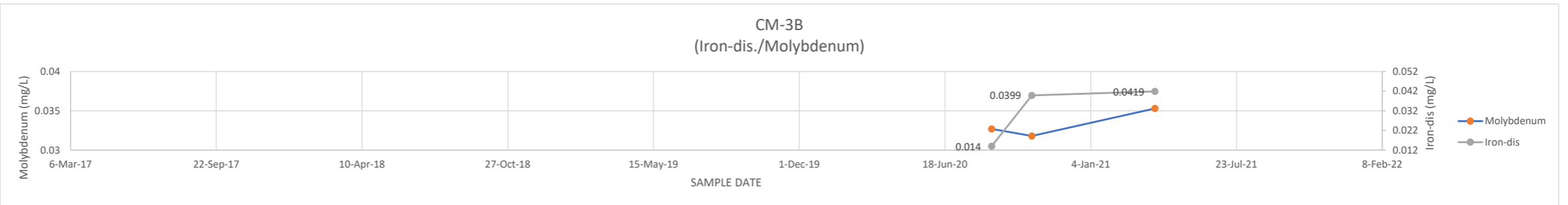
CM-2 DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.012	0.00209
7-Oct-20	0.0139	0.00203
1-Apr-21	0.0386	0.00161
15-Oct-21	0.237	0.0012



CM-3A DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	0.012	0.0457
13-Oct-20	0.012	0.0222
30-Mar-21	0.794	0.0153
14-Oct-21	0.0291	0.00297



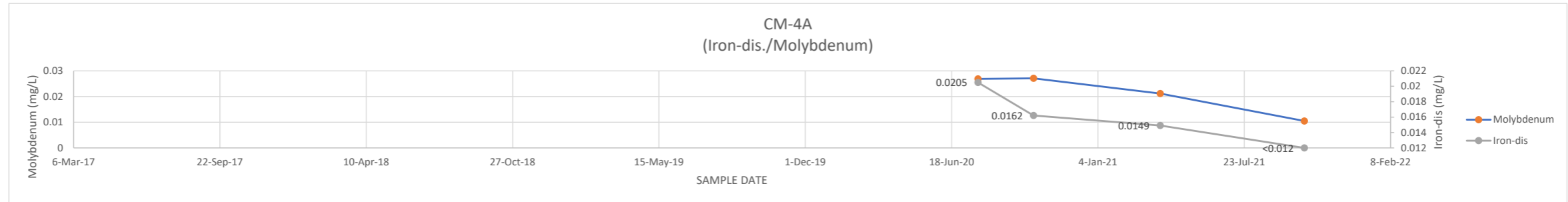
CM-3B DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	0.014	0.0327
15-Oct-20	0.0399	0.0318
2-Apr-21	0.0419	0.0353
11-Oct-21		



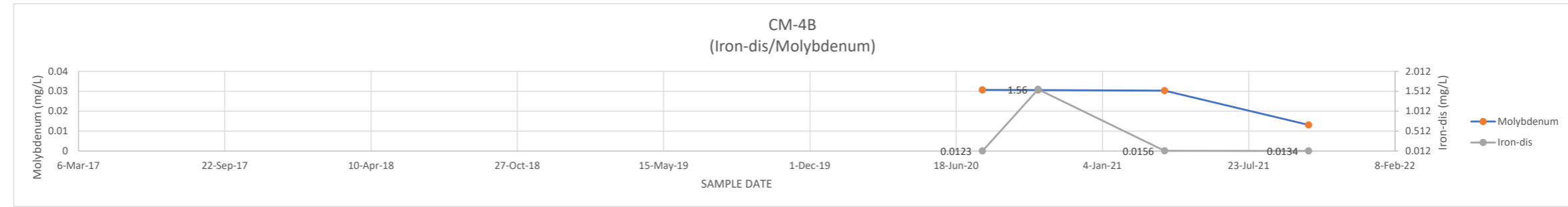
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

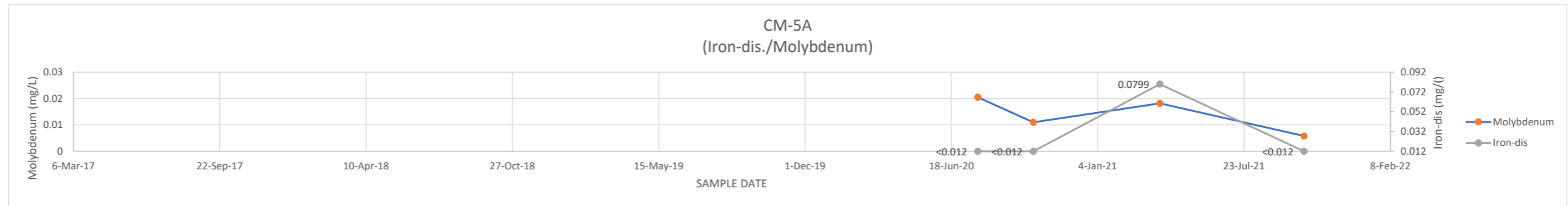
CM-4A DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.0205	0.0269
8-Oct-20	0.0162	0.0271
30-Mar-21	0.0149	0.0212
13-Oct-21	0.012	0.0105



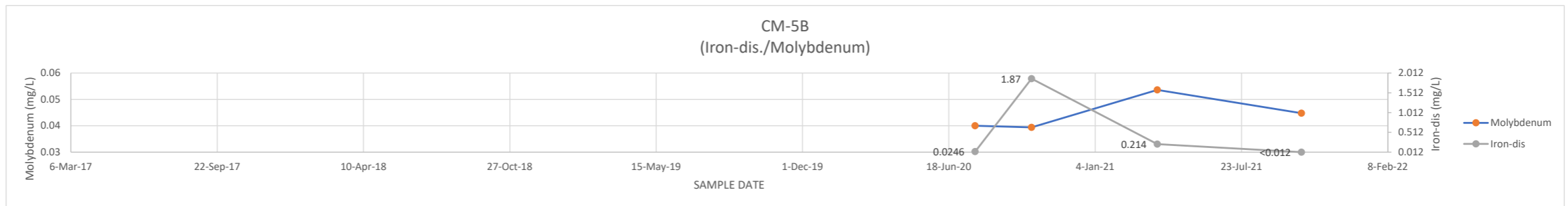
CM-4B DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.0123	0.0307
8-Oct-20	1.56	0.0306
30-Mar-21	0.0156	0.0303
13-Oct-21	0.0134	0.0131



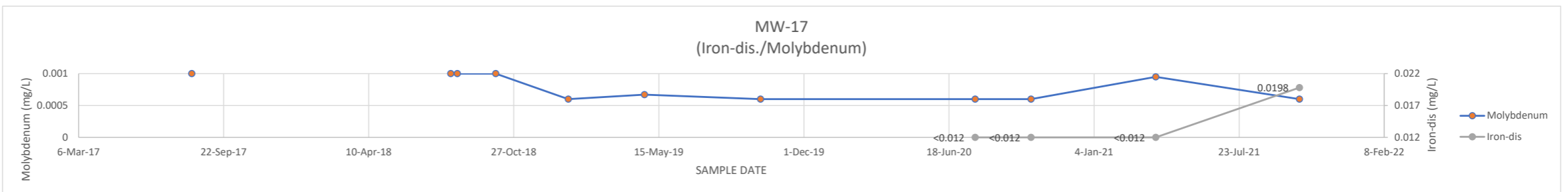
CM-5A DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.012	0.0205
8-Oct-20	0.012	0.011
30-Mar-21	0.0799	0.0182
13-Oct-21	0.012	0.0058



CM-5B DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.0246	0.04
9-Oct-20	1.87	0.0394
30-Mar-21	0.214	0.0536
13-Oct-21	0.012	0.0448



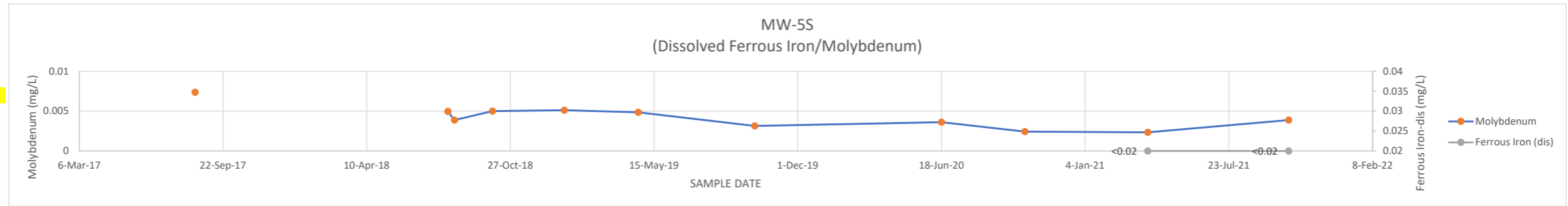
MW-17 DATE	DIS FE	MOLYBDENUM
9-Aug-17		0.001
24-May-18		0.001
1-Aug-18		0.001
10-Aug-18		0.001
2-Oct-18		0.001
10-Jan-19		0.0006
25-Apr-19		0.000671
2-Oct-19		0.0006
24-Jul-20	0.012	0.0006
9-Oct-20	0.012	0.0006
30-Mar-21	0.012	0.00095
14-Oct-21	0.0198	0.0006



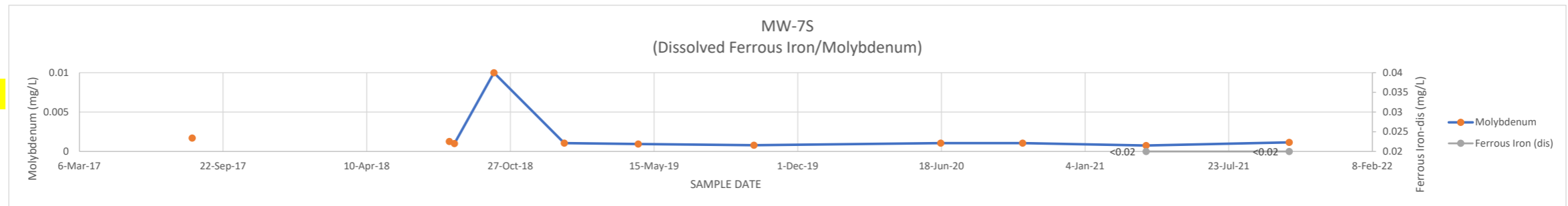
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

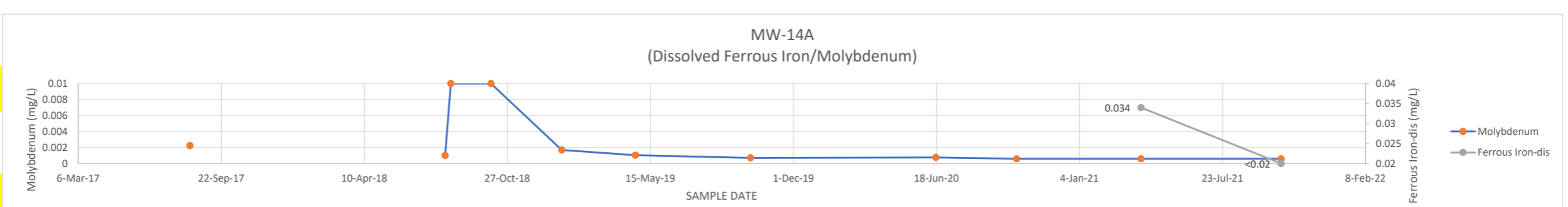
MW-5S	DATE	DIS FE(II)	MOLYBDENUM
14-Aug-17			0.00737
22-May-18			
1-Aug-18			0.00497
10-Aug-18			0.00387
2-Oct-18			0.005
10-Jan-19			0.00512
23-Apr-19			0.00485
2-Oct-19			0.00315
18-Jun-20			0.00361
12-Oct-20			0.00244
1-Apr-21		0.02	0.00234
14-Oct-21		0.02	0.00387



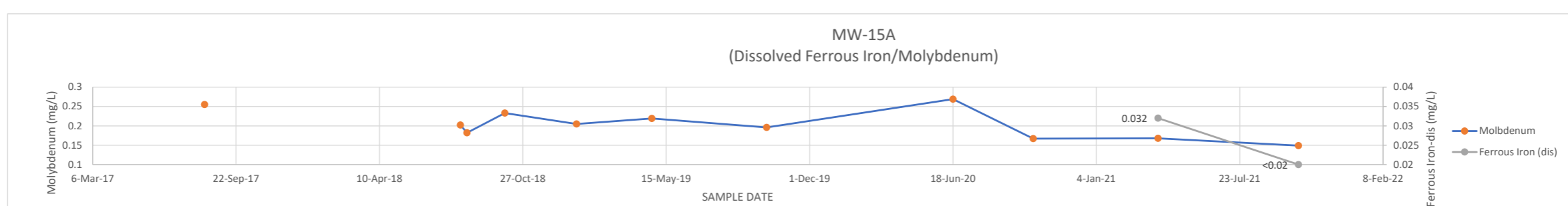
MW-7S	DATE	DIS FE(II)	MOLYBDENUM
10-Aug-17			0.00171
17-May-18			
3-Aug-18			0.00127
10-Aug-18			0.001
4-Oct-18			0.01
10-Jan-19			0.00105
23-Apr-19			0.000952
1-Oct-19			0.000798
17-Jun-20			0.00105
9-Oct-20			0.00106
30-Mar-21		0.02	0.000755
15-Oct-21		0.02	0.00115



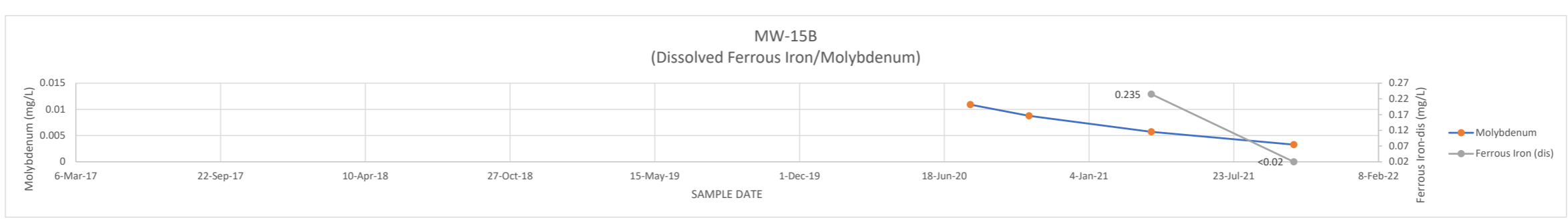
MW-14A	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			0.00223
17-May-18			
1-Aug-18			0.001
9-Aug-18			0.01
4-Oct-18			0.01
11-Jan-19			0.0017
24-Apr-19			0.00104
2-Oct-19			0.000709
17-Jun-20			0.00076
8-Oct-20			0.0006
31-Mar-21		0.034	0.0006
13-Oct-21		0.02	0.0006



MW-15A	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			0.255
24-May-18			
1-Aug-18			0.202
10-Aug-18			0.182
2-Oct-18			0.233
10-Jan-19			0.205
25-Apr-19			0.219
2-Oct-19			0.196
18-Jun-20			0.269
8-Oct-20			0.167
31-Mar-21		0.032	0.168
13-Oct-21		0.02	0.149



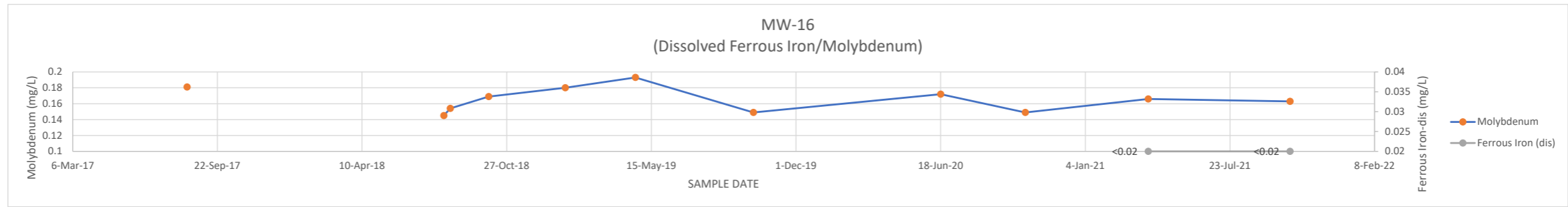
MW-15B	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0109
13-Oct-20			0.00876
31-Mar-21		0.235	0.00571
14-Oct-21		0.02	0.00328



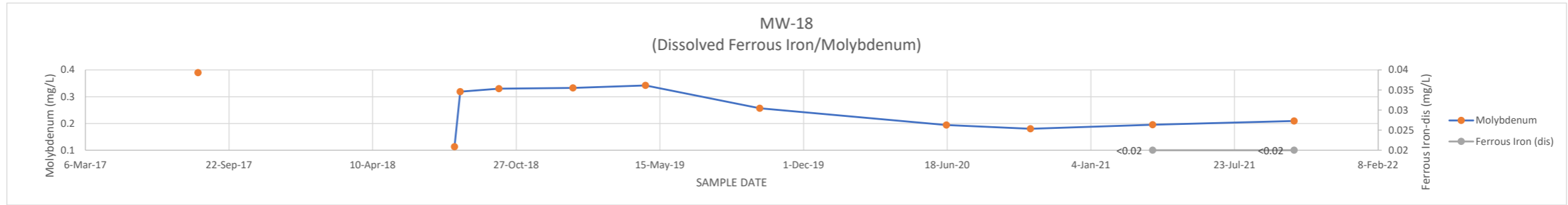
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

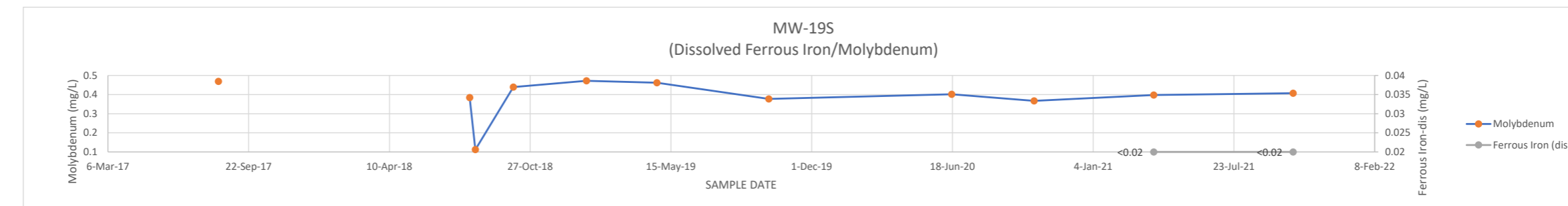
MW-16	DATE	DIS FE(II)	MOLYBDENUM
	11-Aug-17		0.181
	22-May-18		
	1-Aug-18		0.145
	10-Aug-18		0.154
	2-Oct-18		0.169
	16-Jan-19		0.18
	23-Apr-19		0.193
	3-Oct-19		0.149
	18-Jun-20		0.172
	13-Oct-20		0.149
	1-Apr-21	0.02	0.166
	14-Oct-21	0.02	0.163



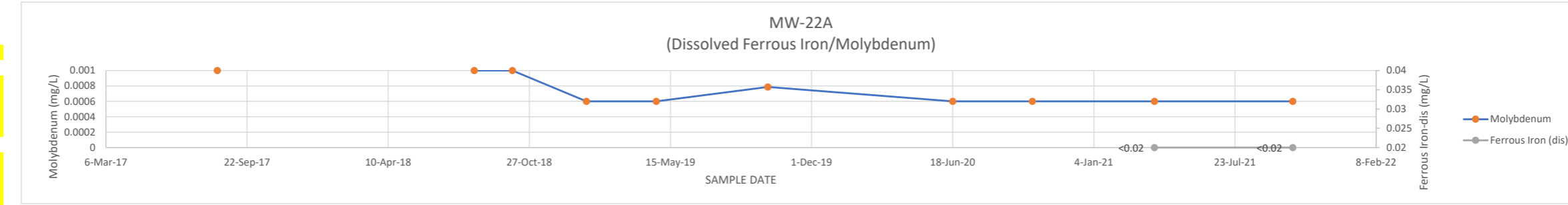
MW-18	DATE	DIS FE(II)	MOLYBDENUM
	10-Aug-17		0.39
	18-May-18		
	2-Aug-18		0.113
	10-Aug-18		0.319
	3-Oct-18		0.33
	14-Jan-19		0.333
	25-Apr-19		0.342
	1-Oct-19		0.257
	17-Jun-20		0.194
	12-Oct-20		0.18
	31-Mar-21	0.02	0.195
	14-Oct-21	0.02	0.209



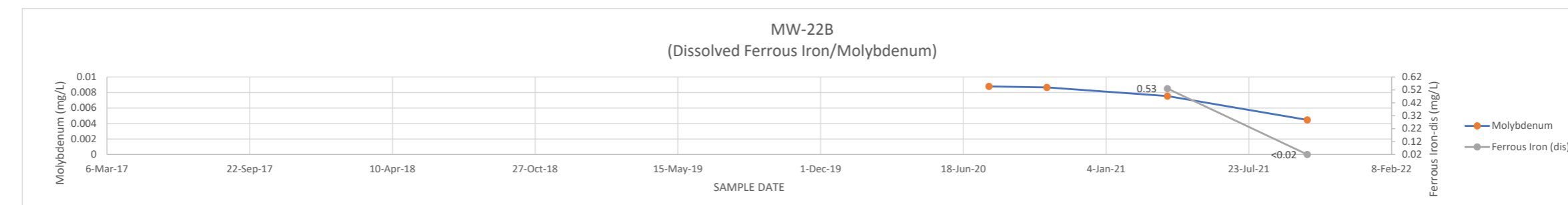
MW-19S	DATE	DIS FE(II)	MOLYBDENUM
	10-Aug-17		0.469
	18-May-18		
	2-Aug-18		0.384
	10-Aug-18		0.112
	3-Oct-18		0.439
	15-Jan-19		0.472
	25-Apr-19		0.462
	1-Oct-19		0.377
	17-Jun-20		0.402
	12-Oct-20		0.367
	31-Mar-21	0.02	0.398
	15-Oct-21	0.02	0.407



MW-22A	DATE	DIS FE(II)	MOLYBDENUM
	11-Aug-17		0.001
	22-May-18		
	10-Aug-18		0.001
	3-Oct-18		0.001
	16-Jan-19		0.0006
	25-Apr-19		0.0006
	30-Sep-19		0.000787
	18-Jun-20		0.0006
	9-Oct-20		0.0006
	31-Mar-21	0.02	0.0006
	13-Oct-21	0.02	0.0006



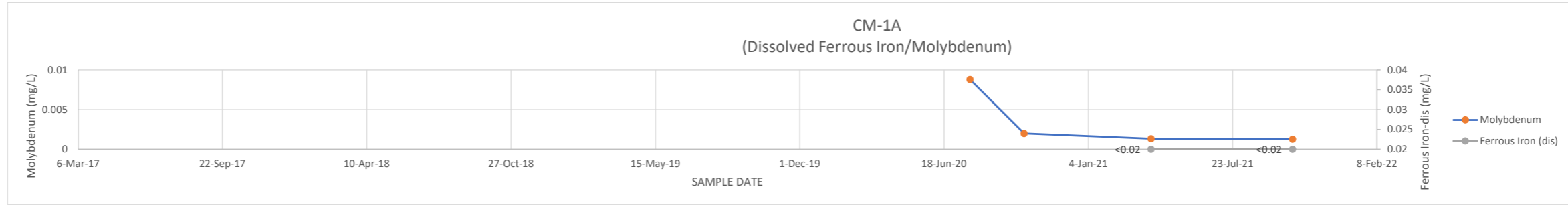
MW-22B	DATE	DIS FE(II)	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20		0.00878
	13-Oct-20		0.00866
	31-Mar-21	0.53	0.00753
	13-Oct-21	0.02	0.00446



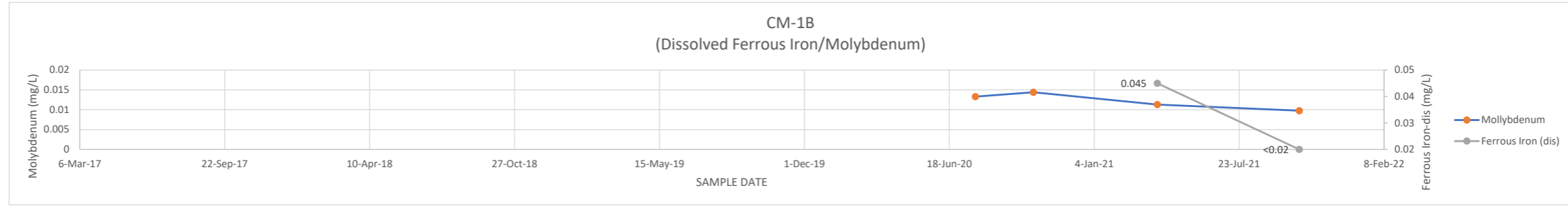
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

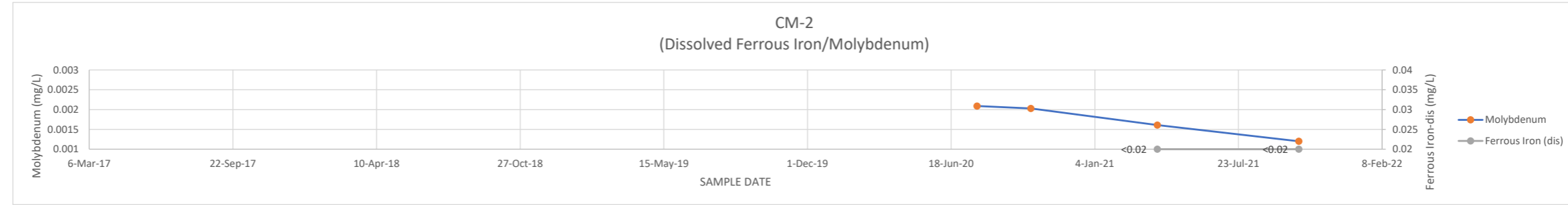
CM-1A	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0088
7-Oct-20			0.00198
1-Apr-21	0.02		0.00132
14-Oct-21	0.02		0.00127



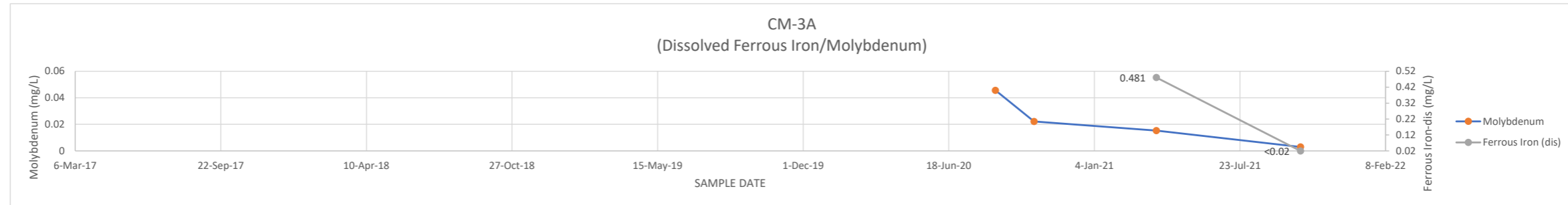
CM-1B	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0133
12-Oct-20			0.0144
1-Apr-21	0.045		0.0113
14-Oct-21	0.02		0.00976



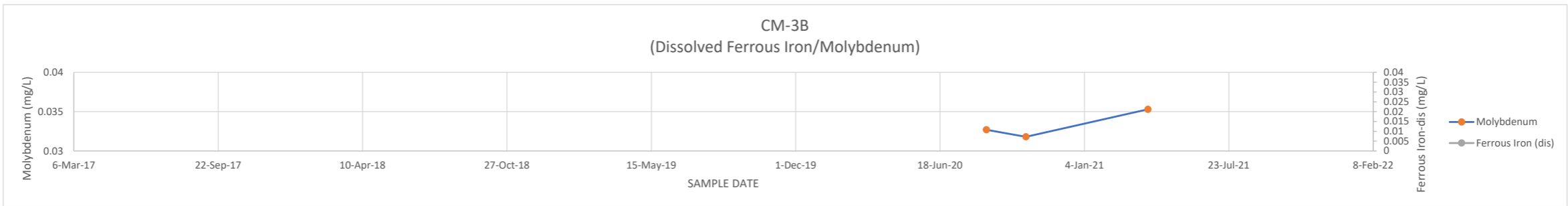
CM-2	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.00209
7-Oct-20			0.00203
1-Apr-21	0.02		0.00161
15-Oct-21	0.02		0.0012



CM-3A	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
21-Aug-20			0.0457
13-Oct-20			0.0222
30-Mar-21	0.481		0.0153
14-Oct-21	0.02		0.00297



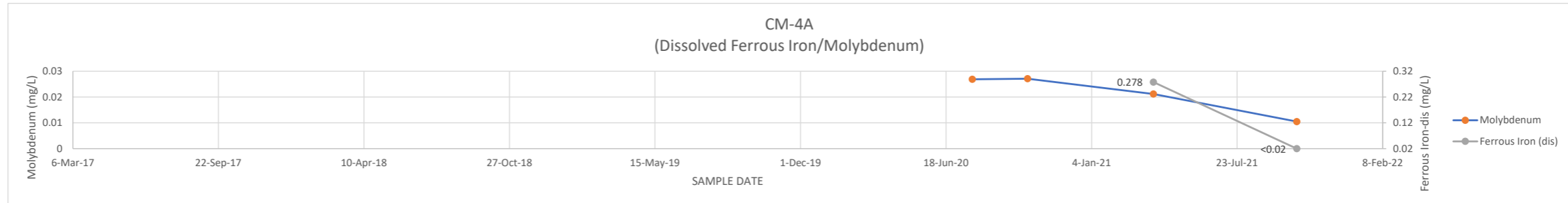
CM-3B	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
21-Aug-20			0.0327
15-Oct-20			0.0318
2-Apr-21			0.0353
11-Oct-21			



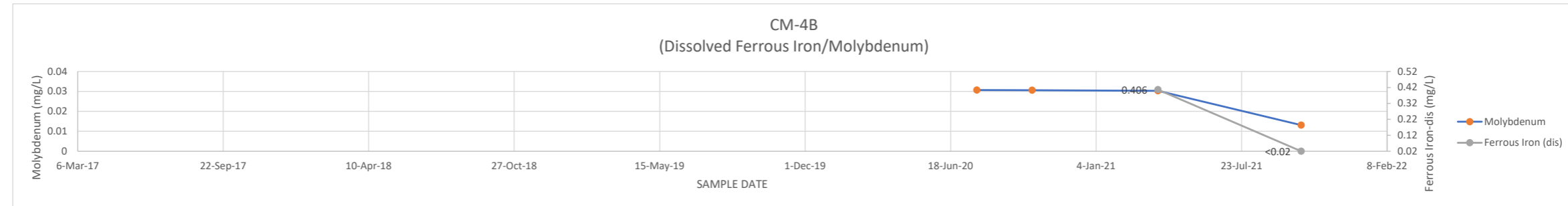
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

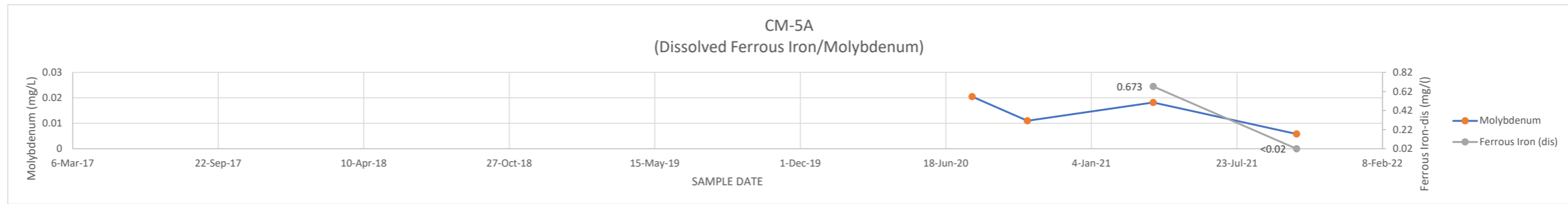
CM-4A	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0269
8-Oct-20			0.0271
30-Mar-21		0.278	0.0212
13-Oct-21		0.02	0.0105



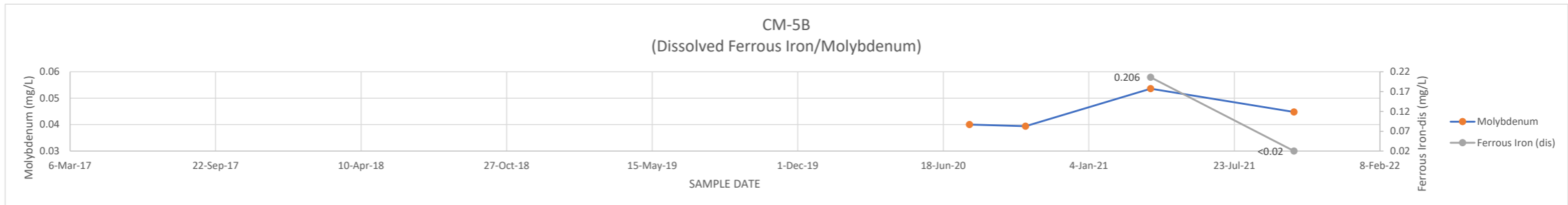
CM-4B	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0307
8-Oct-20			0.0306
30-Mar-21		0.406	0.0303
13-Oct-21		0.02	0.0131



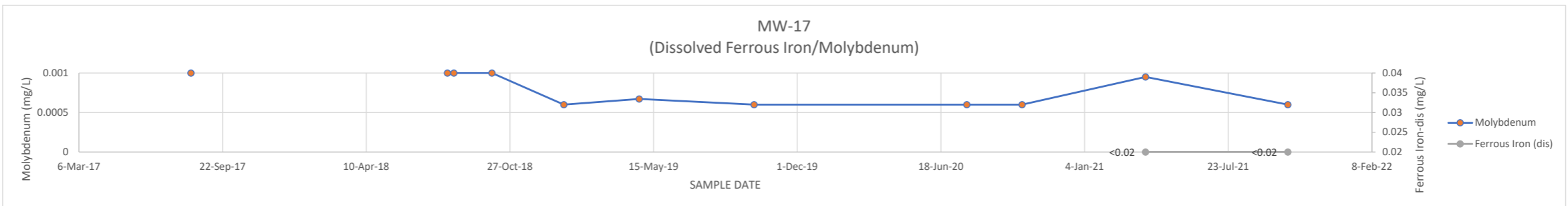
CM-5A	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0205
8-Oct-20			0.011
30-Mar-21		0.673	0.0182
13-Oct-21		0.02	0.0058



CM-5B	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.04
9-Oct-20			0.0394
30-Mar-21		0.206	0.0536
13-Oct-21		0.02	0.0448



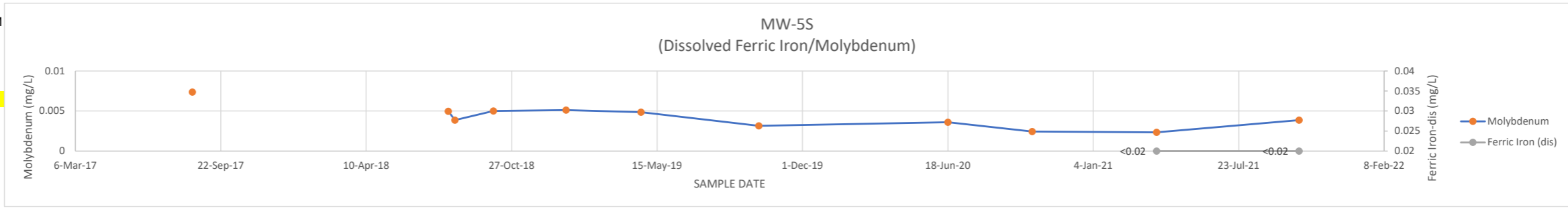
MW-17	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			0.001
24-May-18			
1-Aug-18			0.001
10-Aug-18			0.001
2-Oct-18			0.001
10-Jan-19			0.0006
25-Apr-19			0.000671
2-Oct-19			0.0006
24-Jul-20			0.0006
9-Oct-20			0.0006
30-Mar-21		0.02	0.00095
14-Oct-21		0.02	0.0006



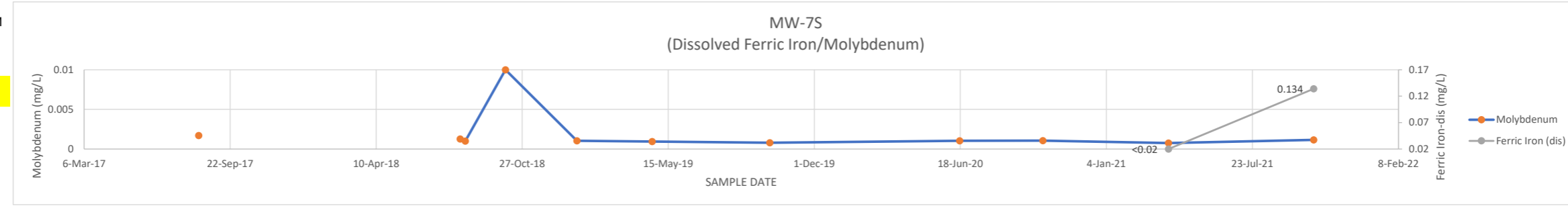
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

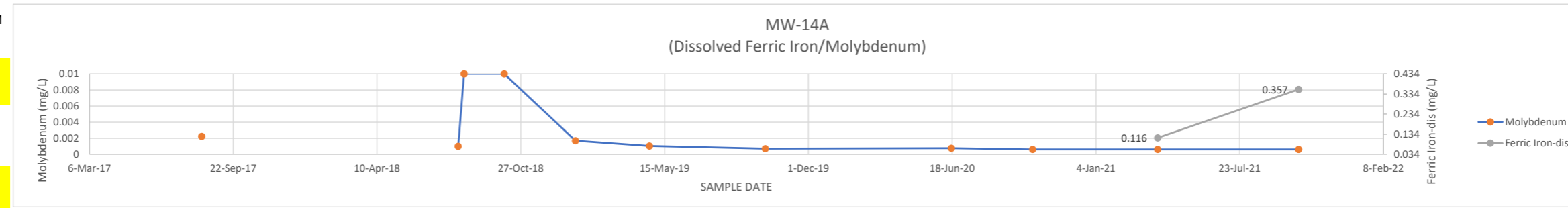
MW-5S	DATE	DIS (III)	MOLYBDENUM
14-Aug-17			0.00737
22-May-18			
1-Aug-18			0.00497
10-Aug-18			0.00387
2-Oct-18			0.005
10-Jan-19			0.00512
23-Apr-19			0.00485
2-Oct-19			0.00315
18-Jun-20			0.00361
12-Oct-20			0.00244
1-Apr-21		0.02	0.00234
14-Oct-21		0.02	0.00387



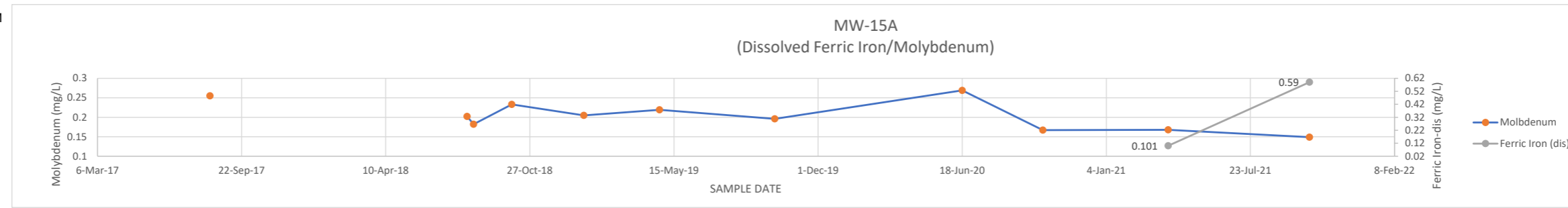
MW-7S	DATE	DIS (III)	MOLYBDENUM
10-Aug-17			0.00171
17-May-18			
3-Aug-18			0.00127
10-Aug-18			0.001
4-Oct-18			0.01
10-Jan-19			0.00105
23-Apr-19			0.000952
1-Oct-19			0.000798
17-Jun-20			0.00105
9-Oct-20			0.00106
30-Mar-21		0.02	0.000755
15-Oct-21	0.134		0.00115



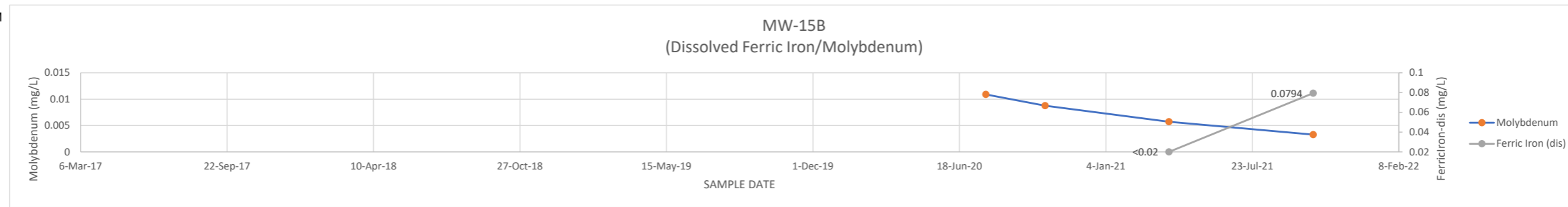
MW-14A	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			0.00223
17-May-18			
1-Aug-18			0.001
9-Aug-18			0.01
4-Oct-18			0.01
11-Jan-19			0.0017
24-Apr-19			0.00104
2-Oct-19			0.000709
17-Jun-20			0.00076
8-Oct-20			0.0006
31-Mar-21	0.116		0.0006
13-Oct-21	0.357		0.0006



MW-15A	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			0.255
24-May-18			
1-Aug-18			0.202
10-Aug-18			0.182
2-Oct-18			0.233
10-Jan-19			0.205
25-Apr-19			0.219
2-Oct-19			0.196
18-Jun-20			0.269
8-Oct-20			0.167
31-Mar-21	0.101		0.168
13-Oct-21	0.59		0.149



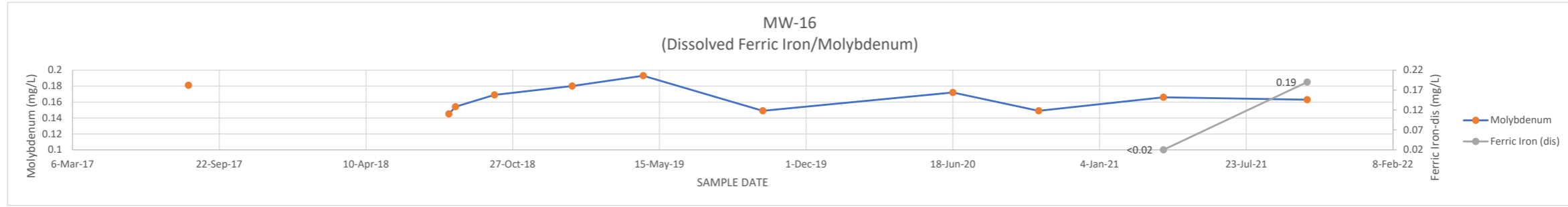
MW-15B	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0109
13-Oct-20			0.00876
31-Mar-21	0.02		0.00571
14-Oct-21	0.0794		0.00328



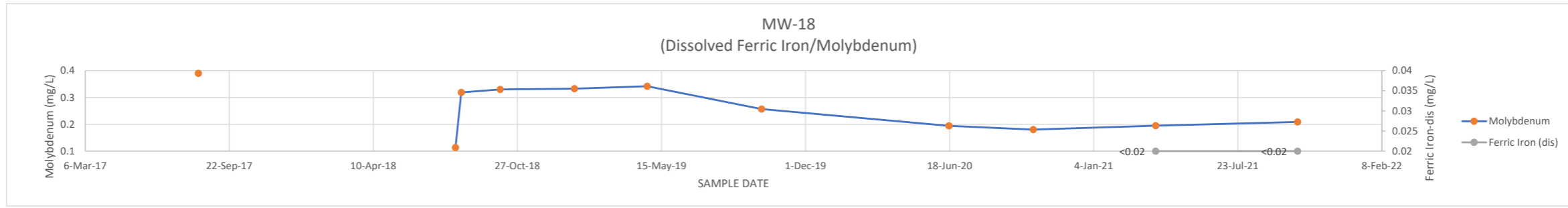
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

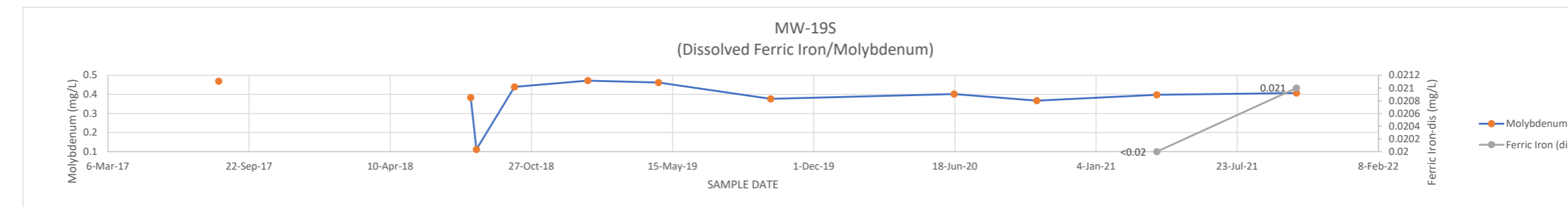
MW-16	DATE	DIS (III)	MOLYBDENUM
	11-Aug-17		0.181
	22-May-18		
	1-Aug-18		0.145
	10-Aug-18		0.154
	2-Oct-18		0.169
	16-Jan-19		0.18
	23-Apr-19		0.193
	3-Oct-19		0.149
	18-Jun-20		0.172
	13-Oct-20		0.149
	1-Apr-21	0.02	0.166
	14-Oct-21	0.19	0.163



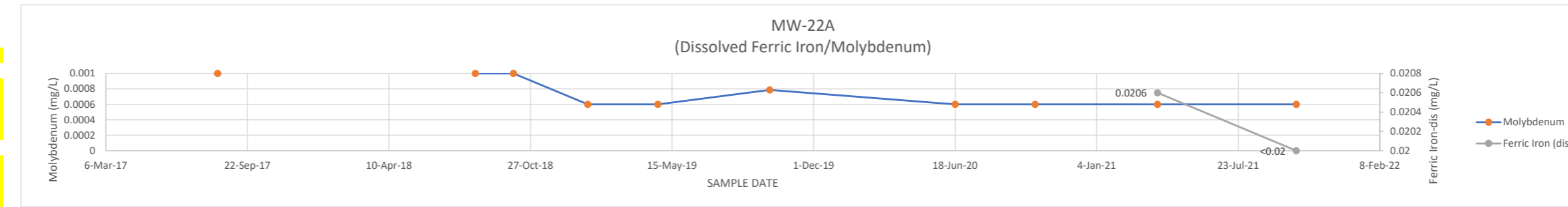
MW-18	DATE	DIS (III)	MOLYBDENUM
	10-Aug-17		0.39
	18-May-18		
	2-Aug-18		0.113
	10-Aug-18		0.319
	3-Oct-18		0.33
	14-Jan-19		0.333
	25-Apr-19		0.342
	1-Oct-19		0.257
	17-Jun-20		0.194
	12-Oct-20		0.18
	31-Mar-21	0.02	0.195
	14-Oct-21	0.02	0.209



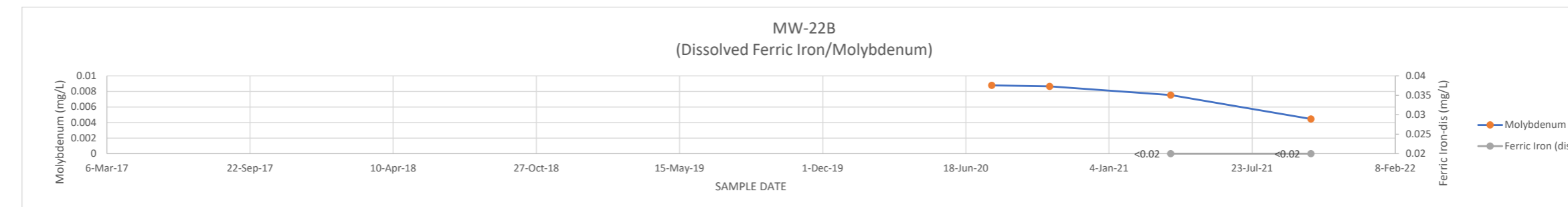
MW-19S	DATE	DIS (III)	MOLYBDENUM
	10-Aug-17		0.469
	18-May-18		
	2-Aug-18		0.384
	10-Aug-18		0.112
	3-Oct-18		0.439
	15-Jan-19		0.472
	25-Apr-19		0.462
	1-Oct-19		0.377
	17-Jun-20		0.402
	12-Oct-20		0.367
	31-Mar-21	0.02	0.398
	15-Oct-21	0.021	0.407



MW-22A	DATE	DIS (III)	MOLYBDENUM
	11-Aug-17		0.001
	22-May-18		
	10-Aug-18		0.001
	3-Oct-18		0.001
	16-Jan-19		0.0006
	25-Apr-19		0.0006
	30-Sep-19		0.000787
	18-Jun-20		0.0006
	9-Oct-20		0.0006
	31-Mar-21	0.0206	0.0006
	13-Oct-21	0.02	0.0006



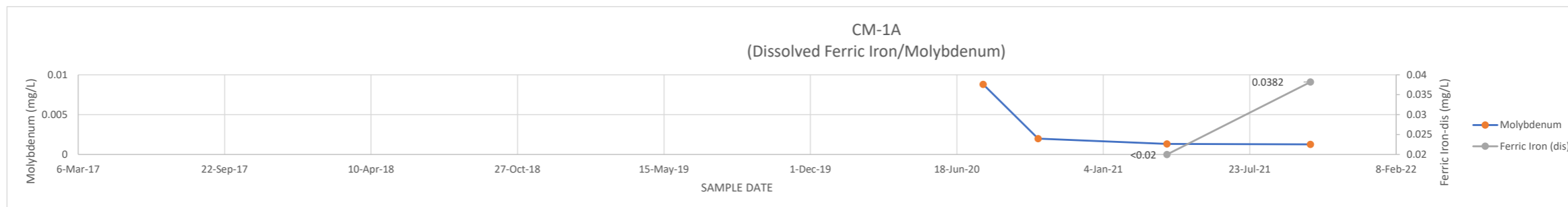
MW-22B	DATE	DIS (III)	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20		0.00878
	13-Oct-20		0.00866
	31-Mar-21	0.02	0.00753
	13-Oct-21	0.02	0.00446



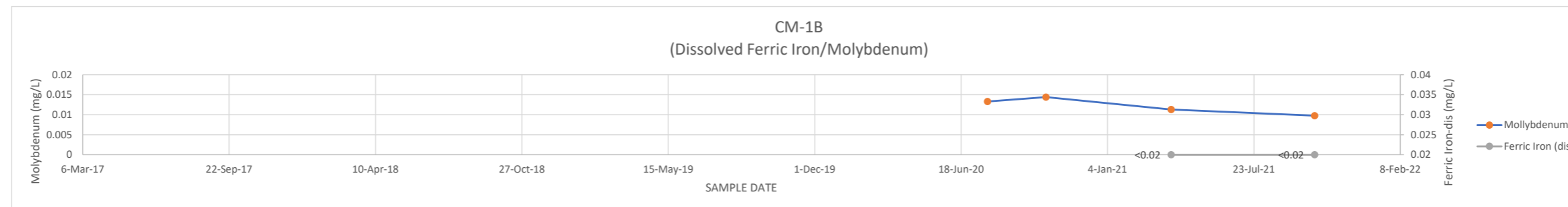
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

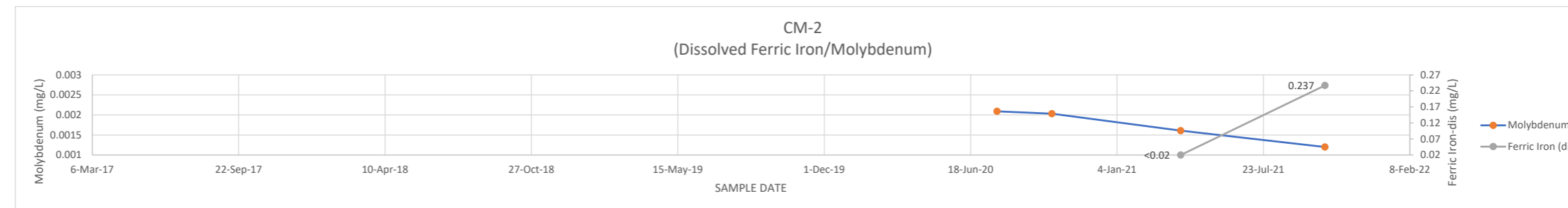
CM-1A	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0088
7-Oct-20			0.00198
1-Apr-21		0.02	0.00132
14-Oct-21		0.0382	0.00127



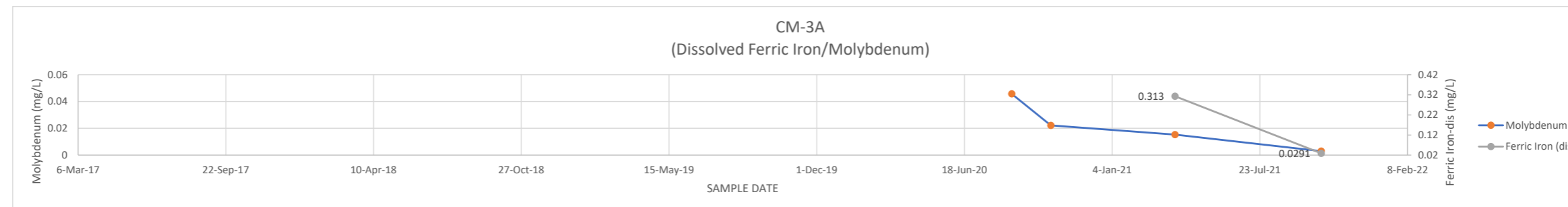
CM-1B	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0133
12-Oct-20			0.0144
1-Apr-21		0.02	0.0113
14-Oct-21		0.02	0.00976



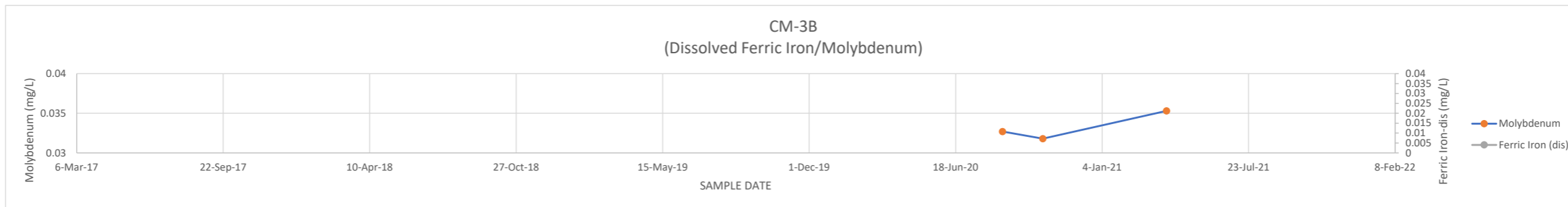
CM-2	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.00209
7-Oct-20			0.00203
1-Apr-21		0.02	0.00161
15-Oct-21		0.237	0.0012



CM-3A	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
21-Aug-20			0.0457
13-Oct-20			0.0222
30-Mar-21		0.313	0.0153
14-Oct-21		0.0291	0.00297



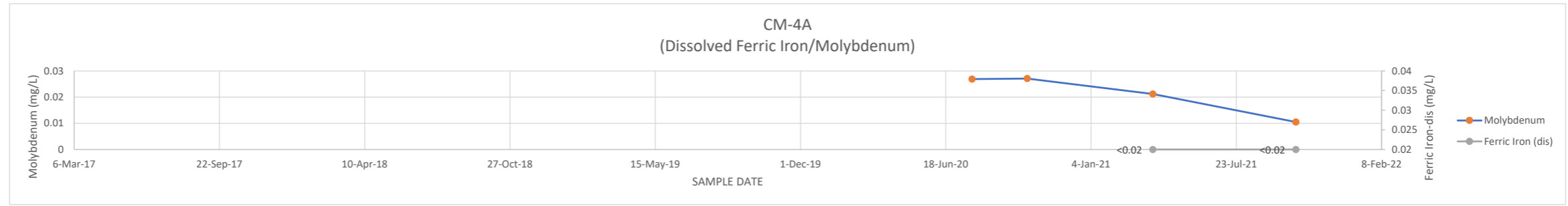
CM-3B	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
21-Aug-20			0.0327
15-Oct-20			0.0318
2-Apr-21			0.0353
11-Oct-21			



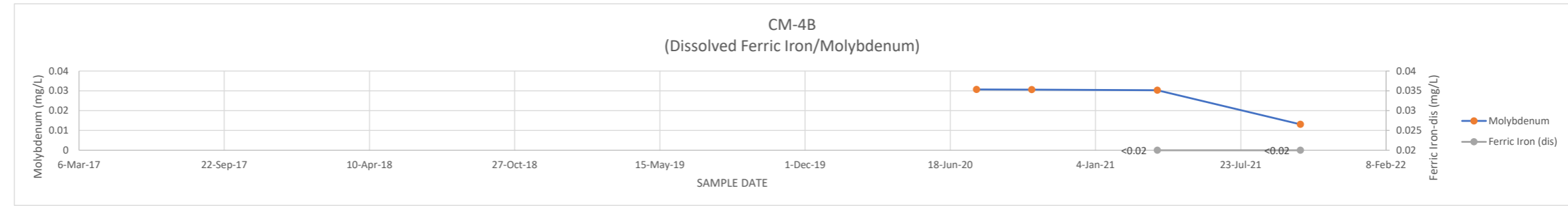
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

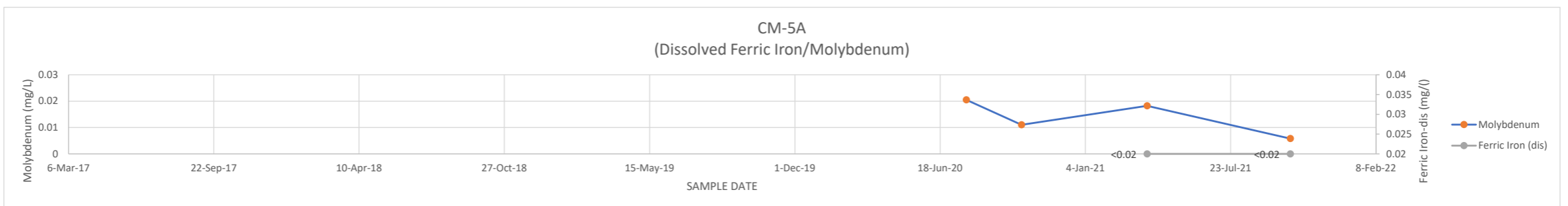
CM-4A DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0269
8-Oct-20		0.0271
30-Mar-21	0.02	0.0212
13-Oct-21	0.02	0.0105



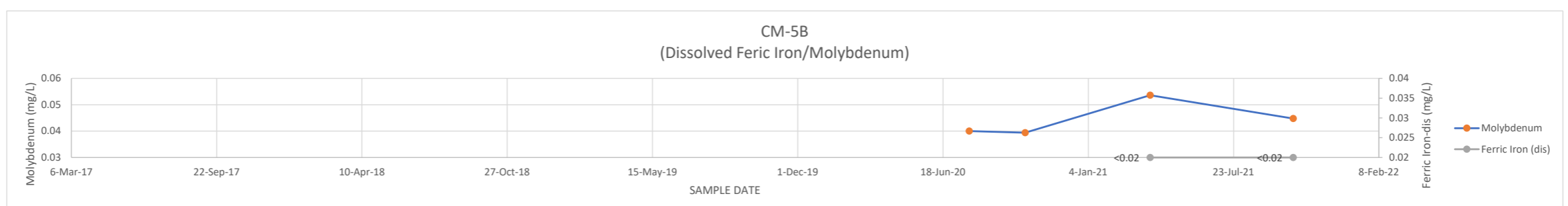
CM-4B DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0307
8-Oct-20		0.0306
30-Mar-21	0.02	0.0303
13-Oct-21	0.02	0.0131



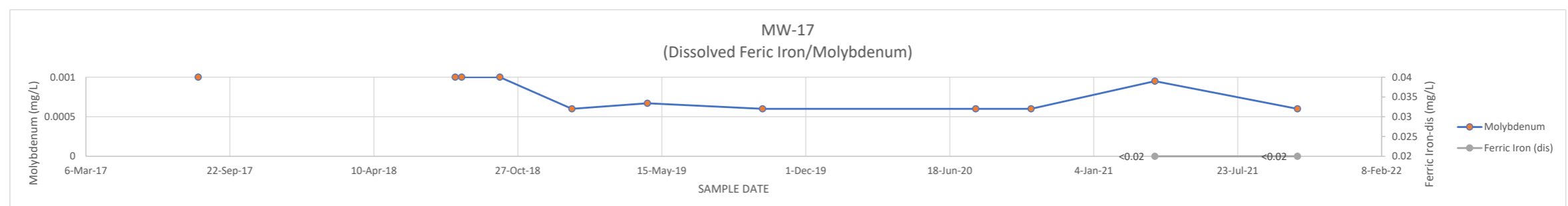
CM-5A DATE	DIS(III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0205
8-Oct-20		0.011
30-Mar-21	0.02	0.0182
13-Oct-21	0.02	0.0058



CM-5B DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.04
9-Oct-20		0.0394
30-Mar-21	0.02	0.0536
13-Oct-21	0.02	0.0448



MW-17 DATE	DIS (III)	MOLYBDENUM
9-Aug-17		0.001
24-May-18		
1-Aug-18		0.001
10-Aug-18		0.001
2-Oct-18		0.001
10-Jan-19		0.0006
25-Apr-19		0.000671
2-Oct-19		0.0006
24-Jul-20		0.0006
9-Oct-20		0.0006
30-Mar-21	0.02	0.00095
14-Oct-21	0.02	0.0006



Yellow Indicates Reported Below shown value (MDL)