

August 16, 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: Third 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: Third 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 Landfill CCR Unit 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 first semi-annual report for the second year of monitoring (2022) and is the third semi-annual report to monitor progress of corrective measure assessment sampling at the Landfill CCR Unit.

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 August 2, 2022, records show that a total of 1,414.6 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 third semi-annual sampling of select monitoring wells as contained in the approved Assessment of Corrective Measures Report was conducted in March/April 2022. 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.

- 6) During QA/QC evaluation of the data, it was determined that at monitoring wells MW-5S, MW-16, MW-17, and MW-22A the samples for alkalinity, chloride, fluoride, iron (all species), nitrate, pH, specific conductance, sulfate, sulfide, and TDS were inadvertently placed into inappropriately preserved containers. Because of this the above referenced monitoring wells were resampled between June 6 and June 7, 2022 for the affected analytes. Where applicable, the affected data from March/April 2022 sampling for these well/parameter combinations are not used for the evaluations described herein. Instead, evaluations as contained herein are based on data from the June 2022 resampling where applicable.

EVALUATION OF DATA

Laboratory reports from the March/April 2022 sampling and from the June 2022 resample are included in **Attachment B**. A running and updated tabulation of data to include results from the March/April 2022 sampling (and the June 2022 resampling where applicable) 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 March/April 2022 sampling (or June 2022 resampling where applicable) were 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 these evaluations:

- 1) The March/April 2022 sampling was the twelfth 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 eleventh sampling event for molybdenum (dating to August 2017) at monitoring well MW-22A; the fifth 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; and the fourth sampling event for molybdenum at CM-3B (sufficient water was not available to sample CM-3B during the October 2021 sample event). From March/April 2022 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 0.445 mg/L at MW-19S (east of the southern cell of the Landfill CCR Unit), 0.206 mg/L at MW18 (east of the southern cell of the Landfill CCR Unit), 0.181 mg/L at MW-15A (north of the northern Landfill CCR Unit), and 0.146 mg/L at MW-16 (east 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 exception is at monitoring well MW-19S. At MW-19S, the reported molybdenum concentration for March/April 2022 sampling is slightly higher but similar to that from the previous sampling event and is within historical range for molybdenum concentration at this well. At MW-15B, MW-22B, CM-1A, CM-1B, CM-2, CM-3ACM-4A, CM-4B, CM-5A, and CM-5B interpretation of changes in molybdenum concentrations are based on only five sampling events conducted between July/August 2020 and March/April 2022 and at CM-3B interpretation of changes in molybdenum concentrations are based on only four sampling events conducted over this period (sufficient water was not available in October 2021 for sample collection).

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 and CM-5B, the mean of the four most recent sampling events for molybdenum is lower than the mean from the prior molybdenum data. At both MW-19S and CM-5B, 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 March/April 2022 sampling event (0.002577 mg/L) is lower than that reported from the previous sampling event and is on the low end of 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 (0.002805 mg/L) is approximately 41% lower than the mean molybdenum concentration reported from sampling at this well conducted between August 2017 and June/July 2020 (0.0047425 mg/L).
- MW-7S: Molybdenum concentration from March/April 2022 sampling (0.000973 mg/L) is lower than that reported from the previous sampling event and is on the low end of 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 (0.0009845 mg/L) is approximately 56% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and June/July 2020 (0.00222875 mg/L).
- MW-14A: This monitoring well is an up-gradient background well. Molybdenum was not observed from March/April 2022 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 (0.0006 mg/L) is approximately 82% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and June/July 2020 (0.003429875 mg/L).

- MW-15A: Molybdenum concentration from March/April 2022 sampling (0.181 mg/L) is higher than those reported from the previous few sampling events, but still lower than concentrations historically reported 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 (0.16625 mg/L) is approximately 24% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and June/July 2020 (0.220125 mg/L).
- MW-15B: To date, this well has been sampled five times for molybdenum. Molybdenum concentration from March/April 2022 sampling (0.0037 mg/L) is slightly higher than that reported from the previous sampling event, but is lower than concentrations previously reported at this well. Molybdenum concentrations through five sampling events have decreased at MW-15B from 0.0109 mg/L in July 2020 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 (0.0053625 mg/L) is approximately 51% lower than the molybdenum concentration reported from sampling conducted at this well in June/July 2020 (0.0109 mg/L).
- MW-16: Molybdenum concentration from March/April 2022 sampling (0.146 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 (0.156 mg/L) is approximately 7% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and June/July 2020 (0.167875 mg/L).

- MW-17: Molybdenum was not observed above the laboratory reporting level (<0.0060) during March/April 2022 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 (0.0006875 mg/L) is approximately 15% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and June/July 2020 (0.000808875 mg/L). These differences are due primarily to a decrease in the laboratory reporting level.
- MW-18: Molybdenum concentration from March/April 2022 sampling (0.206 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 (0.1975 mg/L) is approximately 31% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and June/July 2020 (0.28475 mg/L).
- MW-19S: Molybdenum concentration from March/April 2022 sampling (0.445 mg/L) is above those from the previous few sampling events and the mean molybdenum concentration over the past four sampling events at this well (0.40425 mg/L) is slightly above the mean molybdenum concentration from sampling conducted at this well between August 2017 and June/July 2020 (0.389625 mg/L). However, the current reported molybdenum concentration is lower than concentrations often observed at this well prior to October 2019.
- MW-22A: Molybdenum concentration from March/April 2022 sampling (0.00114 mg/L) is higher than those reported from the previous few sampling events. Molybdenum is not typically observed at concentrations above the laboratory reporting level at this well, but was reported at a similar concentration 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 (0.000735 mg/L) is

approximately 8% lower than the mean molybdenum concentration reported from sampling conducted at this well between August 2017 and June/July 2020 (0.000798143 mg/L). These differences are due primarily to a decrease in the laboratory reporting level.

- MW-22B: To date, this well has been sampled five times for molybdenum. Molybdenum concentrations through five 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, 0.00446 mg/L in October 2021, and 0.00357 mg/L in March/April 2022). 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 (0.006055 mg/L) is approximately 31% lower than the molybdenum concentration reported from sampling conducted at this well in June/July 2020 (0.00878 mg/L).
- CM-1A: To date, this well has been sampled five times for molybdenum. Molybdenum concentrations through five sampling events have continually decreased at CM-1A (0.0088 mg/L in July 2020, 0.00198 mg/L in October 2020, 0.00132 mg/L in March/April 2021, 0.00127 mg/L in October 2021, and less than 0.0006 mg/L in March/April 2022). 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 (0.0012925 mg/L) is approximately 85% lower than the molybdenum concentration reported from sampling conducted at this well in June/July 2020 (0.0088 mg/L).
- CM-1B: To date, this well has been sampled five times for molybdenum. Molybdenum concentrations appear to be decreasing. Reported molybdenum concentrations through five 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, 0.00976 mg/L in October 2021, and 0.00696 mg/L in March/April 2022. 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 (0.01065 mg/L) is approximately 20% lower than the molybdenum concentration reported from sampling conducted at this well in June/July 2020 (0.0133 mg/L).
- CM-2: To date, this well has been sampled five times for molybdenum. Molybdenum concentrations through five 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, 0.0012 mg/L in October 2021, and 0.00082 mg/L in March/April 2022). 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 (0.001415 mg/L) is approximately 32% lower than the molybdenum concentration reported from sampling conducted at this well in June/July 2020 (0.00209 mg/L).

- CM-3A: To date, this well has been sampled five times for molybdenum. Although the reported molybdenum concentration from March/April 2022 sampling is higher than that from the previous sampling event, the overall molybdenum concentrations through five sampling events have 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, 0.00297 mg/L in October 2021, and 0.00656 mg/L in March/April 2022). 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 (0.00117575 mg/L) is approximately 74% lower than the molybdenum concentration reported from sampling conducted at this well in June/July 2020 (0.0457 mg/L).
- CM-3B: To date, this well has only been sampled four times for molybdenum. Molybdenum concentration from the March/April 2022 sampling event (0.0174 mg/L) is the lowest concentration reported to date. The highest molybdenum concentration (0.0353 mg/L) was reported from sampling conducted in April 2021. Molybdenum concentrations through four sampling events are 0.0327 mg/L in August 2020, 0.0318 mg/L in October 2020, 0.0353 mg/L in March/April 2021, and 0.0174 mg/L in March/April 2022.
- CM-4A: To date, this well has been sampled five times for molybdenum. Molybdenum concentrations appear to be decreasing. Molybdenum concentrations through five sampling events are 0.0269 mg/L in July 2020, 0.0271 mg/L in October 2020, 0.0212 mg/L in March/April 2021, 0.0105 mg/L in October 2021, and 0.00455 mg/L in March/April 2022. 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 (0.0158375 mg/L) is approximately 41% lower than the molybdenum concentration reported from sampling conducted at this well in June/July 2020 (0.0269 mg/L).

- CM-4B: To date, this well has been sampled five times for molybdenum. Although the reported molybdenum concentration from March/April 2022 sampling is higher than that from the previous sampling event, the overall molybdenum concentrations through five sampling events have decreased at CM-4B (0.0307 mg/L in July 2020, 0.0306 mg/L in October 2020, 0.0303 mg/L in March/April 2021, 0.0131 mg/L in October 2021, and 0.0184 mg/L in March/April 2022). 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 (0.0231 mg/L) is approximately 25% lower than the molybdenum concentration reported from sampling conducted at this well in June/July 2020 (0.0307 mg/L).
 - CM-5A: To date, this well has been sampled five times for molybdenum. Molybdenum concentrations appear to be decreasing. Molybdenum concentrations through five 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, 0.0058 mg/L in October 2021, and 0.00351 mg/L in March/April 2022. 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 (0.0096275 mg/L) is approximately 53% lower than the molybdenum concentration reported from sampling conducted at this well in June/July 2020 (0.0205 mg/L).
 - CM-5B: To date, this well has only been sampled five times for molybdenum. Molybdenum concentration from the March/April 2022 sampling event (0.0361 mg/L) is the lowest concentration reported to date. Molybdenum concentrations through five 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, 0.0448 mg/L in October 2021, and 0.0361 mg/L in March/April 2022. A line of best fit over the sampling period indicates a negative slope (apparent downward trend). However, the mean molybdenum concentration over the past four sampling events at this well (0.043475 mg/L) is approximately 9% higher than the molybdenum concentration reported from sampling conducted at this well in June/July 2020 (0.04 mg/L). This is due to a comparatively high reported molybdenum concentration in March 2021.
- 3) The monitoring wells were sampled for CCR Appendix III parameters (boron, chloride, pH, TDS, calcium, fluoride, and sulfate). The March/April 2022 sampling (and June 2022 resampling where applicable) was the twelfth 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 eleventh sampling event for these compounds when sampled concurrently with molybdenum (dating to August 2017) at monitoring well MW-22A; the fifth 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, and the fourth sampling event for these compounds when sampled concurrently with molybdenum (dating to July 2020) at CM-3B (sufficient water was not available to sample CM-3B during the October 2021 sample 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. The highest boron concentrations consistently occur at wells MW-15A, MW-15B, MW-18, MW-19S, MW-22B, CM-1B, CM-3A, CM-3B, CM-4A, CM-4B, CM-5A, and CM-5B. Data to date suggests possible correlations between changes in molybdenum and boron concentrations at several of the monitoring wells. Over the sampling history boron concentrations appear to have decreased at MW-7S, MW-14A, MW-15A, MW-16, MW-18, CM-2, and CM-3A and appear to have possibly increased at MW-15B, MW-22B, CM-4A, CM-4B, CM-5A, and CM-5B. 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 at MW-18. Data to date does suggest possible correlations between changes in chloride and molybdenum concentrations at some of the wells.

Over the sampling history, chloride concentrations appear to have possibly decreased at MW-16, MW-18, MW-22A, CM-1A, CM-2, and CM-3A and appear to have possibly increased at CM-4B, CM-5A, and CM-5B.

- The monitoring wells exhibiting the highest concentrations for molybdenum also exhibit the highest pH (both as measured in the field and reported by the laboratory). 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 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. Over the sampling history TDS concentrations appear to have decreased at MW-18 and CM-2 and appear to have possibly increased at MW-7S, MW-15B, MW-22B, CM-4A, CM-4B, CM-5A, and CM-5B.
- 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 at some of the monitoring wells. 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. Over the sampling history calcium concentrations appear to have decreased at MW-5S, MW-14A, MW-15A, MW-16, MW-17, MW-18, MW-22A, CM-1B, CM-4A, and CM-5B and appear to have possibly increased at MW-7S, MW-15B, CM-1A, and CM-5A.
- 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 generally appear to suggest an overall correlation between changes in fluoride and molybdenum concentrations, but possible correlations may exist at some of the monitoring wells. Over the sampling history, fluoride concentrations appear to have increased at MW-5S, MW-18, MW-19S, CM-1A, CM-3A, CM-4B, and CM-5B and decreased at MW-22A, CM-2, CM-4A, and CM-5A. 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, but possible correlations may exist at some of the monitoring wells. Over the sampling history, sulfate concentrations appear to have decreased at MW-18, CM-2, and CM-5B and increased at MW-5S, MW-15B, CM-3A, CM-4A, CM-4B, and CM-5A.
- 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 March/April 2022 sampling was the twelfth 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 March/April 2022 sampling (and June 2022 resampling where applicable) was the ninth 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 March/April 2022 sampling (and June 2022 resampling where applicable) was either the sixth or seventh 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-3B, CM-4A, CM-4B, CM-5A, and CM-5B, the March/April 2021 sampling event was the fifth sampling concurrent with sampling for molybdenum (dating to July 2020). 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, but possible correlations may exist at some of the monitoring wells. 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.
- Data to date appears to suggest possible correlation at some wells between changes in specific conductance and changes in molybdenum concentration. 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).
- Data to date does not appear to suggest an overall correlation between changes in nitrate and changes in 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 well MW-15B (north of the Landfill CCR Unit) and at 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 is typically observed at MW-15B (north of the Landfill CCR Unit). From the March/April 2022 sampling, anomalously high sulfide concentrations were reported at MW-15B, MW-22B, CM-3A, and CM-3B. 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 March/April 2022 sampling (and June 2022 resampling where applicable) was the fifth sampling event for total iron, dissolved iron, and total ferrous iron (dating to July 2020). The March/April 2021 sampling (and June 2022 resampling where applicable) was the third sampling event for dissolved ferrous iron and total and dissolved ferric iron. 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 March/April 2022 sampling (and June 2022 resampling where applicable) of iron are as follows:

- Reported iron concentrations (total and dissolved forms) are low or below laboratory reporting levels in samples collected from MW-7S, MW-17, and MW-18 (a well with higher molybdenum concentrations).
- Less than 10% of iron reported in samples collected from MW-15B, MW-16, MW-22B, CM-4A, CM-4B, and CM-5A 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-5S, MW-14A, MW-15A, MW-16, MW-19S, MW-22A, CM-1A, CM-1B and CM-2 more than 10% of the iron identified was in dissolved form, indicating that iron is partly soluble at these locations. A large portion of the dissolved iron was ferrous iron at MW-14A, MW-15, MW-19S, MW-22A, CM-1B, and CM-2, indicative of possible reducing conditions at these locations. Ferrous iron was not identified in dissolved form at any of the monitoring wells from the previous sampling event.
- Reported iron and dissolved iron values were anomalous at CM-3A, CM-3B, and CM-5B and these wells could not be evaluated.

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 and only at MW-18 did the reported fluoride concentration exceed the Secondary MCL. At MW-18, the reported fluoride concentration (2.10 mg/L) was slightly above the Secondary MCL. The reported fluoride concentration in a duplicate sample collected from this well (1.92 mg/L) was below the 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. Measured pH was above the range of the Secondary MCLs at CM-3B (lab reported, but not field measured), and at MW-18 and MW-19S (both lab reported and field measured). Reported dissolved iron was at concentrations above the Secondary MCL at CM-3A, CM-3B, CM-5A, and CM-5B. However, the reported values appear to be anomalous. 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 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 August 2, 2022, a total of 1,414.6 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 third semi-annual sampling of select monitoring wells as contained in the approved Assessment of Corrective Measures Report was conducted in March/April 2022. 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. 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. It was determined that at monitoring wells MW-5S, MW-16, MW-17, and MW-22A the samples for some of these parameters were inadvertently placed into inappropriately preserved containers and these wells were resampled for the affected analytes in June 2022.

Conclusions from the March/April 2022 sampling (and June 2022 sampling where applicable) are summarized below:

- 1) Molybdenum was identified at SSLs above GWPSs at four wells proximal to the Landfill CCR Unit (GW-15A, MW-16, MW-18, and MW-19S). This is consistent with previous sampling.
- 2) A comparison of March/April 2022 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 March/April 2022 data (and June 2022 data where applicable) 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 is 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 fourth semi-annual sampling event is scheduled to occur in October 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 Fletcher and John McCreight / Western Farmers Electric Cooperation
Chris Schaefer and Bert Smith / Altamira-US, LLC

ATTACHMENT A

MONITORING WELL LOCATION MAP

ATTACHMENT B

ANALYTICAL REPORTS (MARCH/APRIL 2022 SAMPLING & JUNE 2022 RESAMPLE)

- 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. This condensed report includes findings from the original sampling in March/April 2022 and from applicable resampling at MW-5S, MW-16, MW-17, and MW-22A which was conducted in June 2022. 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 (Notification of Apparent Exceedances from First 2022 Assessment Monitoring, June 28, 2022)
- 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 Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-5S	Lab ID: HS22040016-05
Sample Date:	3/31/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	15,600	umhos/cm @ 25.0 °C	10	Method: M2540C MDL	50.0	50.0
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	1.68 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	24.4 H	pH Units	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	1,540	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	23.0	mg/L	10	Method: E300 MDL	2.00	5.00
Fluoride	3.24	mg/L	10	MDL	0.500	1.00
Nitrogen, Nitrate (As N)	705	mg/L	100	MDL	3.00	10.0
Sulfate	1,540	mg/L	100	MDL	20.0	50.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	<5.00	mg/L	1	Method: SM2320B 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)	<5.00	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Ferric Iron	0.0435 J	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Ferric Iron, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Boron	1.64	mg/L	5	Method: SW6020 MDL	0.0550	0.100
Sodium	341	mg/L	5	MDL	0.0700	1.00
Potassium	3.74	mg/L	1	MDL	0.0180	0.200
Magnesium	5.79	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.00257 J	mg/L	1	MDL	0.000600	0.00500
Iron	0.0435 J	mg/L	1	MDL	0.0120	0.200
Calcium	53.8	mg/L	1	MDL	0.0340	0.500
Analysis : DISSOLVED METALS by SW6020A						
Molybdenum, Dissolved	0.00248 J	mg/L	1	Method: SW6020 (dissolved) 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 Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-5S	Lab ID: HS22060384-02
Sample Date:	6/7/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	2,280	umhos/cm @ 25.0 °C	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	8.19	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	20.4	pH Units	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	1,170	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	24.1	mg/L	1	Method: E300 MDL	0.200	0.500
Fluoride	1.41	mg/L	1	MDL	0.0500	0.100
Nitrogen, Nitrate (As N)	0.0996 JH	mg/L	1	MDL	0.0300	0.100
Sulfate	503	mg/L	10	MDL	2.00	5.00
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	419	mg/L	1	Method: SM2320B 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)	419	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	<0.0200 H	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Ferric Iron	0.0311 J	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Ferric Iron, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Iron	0.0311 J	mg/L	1	Method: SW6020 MDL	0.0120	0.200
Analysis : DISSOLVED METALS by SW6020A						
Iron, Dissolved	0.0138 J	mg/L	1	Method: SW6020 (dissolved) MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	DUP 2	Lab ID: HS22060384-07
Sample Date:	6/7/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	2,260	umhos/cm @ 25.0 °C	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	8.40	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	21.6	pH Units	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	1,180	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	24.1	mg/L	1	Method: E300 MDL	0.200	0.500
Fluoride	1.41	mg/L	1	MDL	0.0500	0.100
Nitrogen, Nitrate (As N)	0.0952 J	mg/L	1	MDL	0.0300	0.100
Sulfate	485	mg/L	10	MDL	2.00	5.00
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	415	mg/L	1	Method: SM2320B MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	5.19	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)	421	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Ferric Iron	0.0223 J	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Ferric Iron, Dissolved	0.0285 J	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Iron	0.0223 J	mg/L	1	Method: SW6020 MDL	0.0120	0.200
Analysis : DISSOLVED METALS by SW6020A						
Iron, Dissolved	0.0285 J	mg/L	1	Method: SW6020 (dissolved) MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-7S	Lab ID: HS22040016-06
Sample Date:	4/1/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	2,530	umhos/cm @ 25.0 °C	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	7.88 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	21.3 H	pH Units	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	1,920	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	19.9	mg/L	1	Method: E300 MDL	0.200	0.500
Fluoride	0.515	mg/L	1	MDL	0.0500	0.100
Nitrogen, Nitrate (As N)	0.0613 J	mg/L	1	MDL	0.0300	0.100
Sulfate	1,190	mg/L	50	MDL	10.0	25.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	205	mg/L	1	Method: SM2320B 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)	205	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Ferric Iron	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Ferric Iron, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Boron	0.646	mg/L	1	Method: SW6020 MDL	0.0110	0.0200
Sodium	272	mg/L	10	MDL	0.140	2.00
Potassium	4.56	mg/L	1	MDL	0.0180	0.200
Magnesium	20.0	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.000973 J	mg/L	1	MDL	0.000600	0.00500
Iron	<0.0120	mg/L	1	MDL	0.0120	0.200
Calcium	302	mg/L	10	MDL	0.340	5.00
Analysis : DISSOLVED METALS by SW6020A						
Molybdenum, Dissolved	0.000830 J	mg/L	1	Method: SW6020 (dissolved) 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 Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-14A	Lab ID: HS22040016-01
Sample Date:	3/30/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	3,490	mg/L	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	7.99 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	21.1 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	2,690	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	13.8	mg/L	5	Method: E300 MDL	1.00	2.50
Fluoride	0.406 J	mg/L	5	MDL	0.250	0.500
Nitrogen, Nitrate (As N)	0.484 J	mg/L	5	MDL	0.150	0.500
Sulfate	1,610	mg/L	50	MDL	10.0	25.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	330	mg/L	1	Method: SM2320B 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)	330	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	0.130	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	0.142	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric	0.119	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric, Dissolved	0.0470 J	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Boron	0.918	mg/L	10	Method: SW6020 MDL	0.110	0.200
Sodium	503	mg/L	10	MDL	0.140	2.00
Potassium	8.73	mg/L	1	MDL	0.0180	0.200
Magnesium	29.2	mg/L	1	MDL	0.0100	0.200
Molybdenum	<0.000600	mg/L	1	MDL	0.000600	0.00500
Iron	0.249	mg/L	1	MDL	0.0120	0.200
Calcium	330	mg/L	10	MDL	0.340	5.00
Analysis : DISSOLVED METALS by SW6020A						
Molybdenum, Dissolved	<0.000600	mg/L	1	Method: SW6020 (dissolved) MDL	0.000600	0.00500
Iron, Dissolved	0.189 J	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-15A	Lab ID: HS22040016-02
Sample Date:	3/30/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	3,620	mg/L	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	8.08 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	21.2 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	2,450	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	27.0	mg/L	5	Method: E300 MDL	1.00	2.50
Fluoride	1.31	mg/L	5	MDL	0.250	0.500
Nitrogen, Nitrate (As N)	0.894	mg/L	5	MDL	0.150	0.500
Sulfate	1,540	mg/L	50	MDL	10.0	25.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	193	mg/L	1	Method: SM2320B 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)	193	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	0.200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	0.243	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric	0.0360 J	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Boron	3.35	mg/L	10	Method: SW6020 MDL	0.110	0.200
Sodium	680	mg/L	10	MDL	0.140	2.00
Potassium	5.91	mg/L	1	MDL	0.0180	0.200
Magnesium	12.3	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.181	mg/L	1	MDL	0.000600	0.00500
Iron	0.236	mg/L	1	MDL	0.0120	0.200
Calcium	119	mg/L	1	MDL	0.0340	0.500
Analysis : DISSOLVED METALS by SW6020A						
Molybdenum, Dissolved	0.159	mg/L	1	Method: SW6020 (dissolved) MDL	0.000600	0.00500
Iron, Dissolved	0.234	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-16	Lab ID: HS22040016-08
Sample Date:	4/1/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	2,500	mg/L	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	7.42 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	21.2 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	1,670	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	16.6	mg/L	5	Method: E300 MDL	1.00	2.50
Fluoride	1.30	mg/L	5	MDL	0.250	0.500
Nitrogen, Nitrate (As N)	50.4	mg/L	50	MDL	1.50	5.00
Sulfate	1,100	mg/L	50	MDL	10.0	25.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	94.0	mg/L	1	Method: SM2320B 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)	94.0	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Boron	1.85	mg/L	5	Method: SW6020 MDL	0.0550	0.100
Sodium	389	mg/L	5	MDL	0.0700	1.00
Potassium	3.58	mg/L	1	MDL	0.0180	0.200
Magnesium	8.40	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.146	mg/L	1	MDL	0.000600	0.00500
Iron	0.0158 J	mg/L	1	MDL	0.0120	0.200
Calcium	153	mg/L	1	MDL	0.0340	0.500
Analysis : DISSOLVED METALS by SW6020A						
Molybdenum, Dissolved	0.131	mg/L	1	Method: SW6020 (dissolved) 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 Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-16	Lab ID: HS22060384-03
Sample Date:	6/7/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	2,910	mg/L	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	7.92 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	20.1 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	1,700	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	15.0	mg/L	1	Method: E300 MDL	0.200	0.500
Fluoride	1.01	mg/L	1	MDL	0.0500	0.100
Nitrogen, Nitrate (As N)	0.0630 JH	mg/L	1	MDL	0.0300	0.100
Sulfate	1,090	mg/L	20	MDL	4.00	10.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	258	mg/L	1	Method: SM2320B 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)	258	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	<0.0200 H	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Iron	0.0145 J	mg/L	1	Method: SW6020 MDL	0.0120	0.200
Analysis : DISSOLVED METALS by SW6020A						
Iron, Dissolved	<0.0120	mg/L	1	Method: SW6020 (dissolved) MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-17	Lab ID: HS22040016-09
Sample Date:	3/31/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	11,900	mg/L	5	MDL	25.0	25.0
Method: M2540C						
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	MDL	1.00	1.00
Method: SM4500 S2-F						
Analysis : pH by SM4500h+ B						
pH	1.87 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	21.3 H	°C	1	MDL	0	0
Method: SM4500H+ B						
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	2,340	mg/L	1	MDL	5.00	10.0
Method: M2540C						
Analysis : ANIONS by E300.0						
Chloride	5.24	mg/L	5	MDL	1.00	2.50
Fluoride	<0.250	mg/L	5	MDL	0.250	0.500
Nitrogen, Nitrate (As N)	420 H	mg/L	50	MDL	1.50	5.00
Sulfate	1,970	mg/L	50	MDL	10.0	25.0
Method: E300						
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	<5.00	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)	<5.00	mg/L	1	MDL	5.00	5.00
Method: SM2320B						
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	<0.0200	mg/L	1	MDL	0.0200	0.0500
Method: SM3500FED						
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	<0.0200	mg/L	1	MDL	0.0200	0.0500
Method: SM3500FED (dissolved)						
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric	0.0325 J	mg/L	1	MDL	0.0200	0.0500
Method: SM3500FED						
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric, Dissolved	<0.0200	mg/L	1	MDL	0.0200	0.0500
Method: SM3500FED (dissolved)						
Analysis : ICP-MS METALS by SW6020A						
Boron	0.593	mg/L	1	MDL	0.0110	0.0200
Sodium	35.2	mg/L	1	MDL	0.0140	0.200
Potassium	4.50	mg/L	1	MDL	0.0180	0.200
Magnesium	30.9	mg/L	1	MDL	0.0100	0.200
Molybdenum	<0.000600	mg/L	1	MDL	0.000600	0.00500
Iron	0.0325 J	mg/L	1	MDL	0.0120	0.200
Calcium	435	mg/L	50	MDL	1.70	25.0
Method: SW6020						
Analysis : DISSOLVED METALS by SW6020A						
Molybdenum, Dissolved	<0.000600	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	<0.0120	mg/L	1	MDL	0.0120	0.200
Method: SW6020 (dissolved)						

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-17	Lab ID: HS22060384-04
Sample Date:	6/7/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	2,920	mg/L	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	7.67 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	20.1 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	2,220	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	4.16	mg/L	1	Method: E300 MDL	0.200	0.500
Fluoride	0.371	mg/L	1	MDL	0.0500	0.100
Nitrogen, Nitrate (As N)	0.0834 JH	mg/L	1	MDL	0.0300	0.100
Sulfate	1,460	mg/L	20	MDL	4.00	10.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	269	mg/L	1	Method: SM2320B 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)	269	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	0.0220 JH	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	<0.0200 H	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Iron	<0.0120	mg/L	1	Method: SW6020 MDL	0.0120	0.200
Analysis : DISSOLVED METALS by SW6020A						
Iron, Dissolved	<0.0120	mg/L	1	Method: SW6020 (dissolved) MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-18	Lab ID: HS22040016-10
Sample Date:	3/31/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	2,070	mg/L	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	9.69 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	22.4 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	1,300	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	4.86	mg/L	5	Method: E300 MDL	1.00	2.50
Fluoride	2.10	mg/L	5	MDL	0.250	0.500
Nitrogen, Nitrate (As N)	0.712	mg/L	5	MDL	0.150	0.500
Sulfate	837	mg/L	50	MDL	10.0	25.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	<5.00	mg/L	1	Method: SM2320B MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	58.6	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)	63.6	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Boron	4.65	mg/L	10	Method: SW6020 MDL	0.110	0.200
Sodium	391	mg/L	10	MDL	0.140	2.00
Potassium	14.6	mg/L	1	MDL	0.0180	0.200
Magnesium	0.559	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.206	mg/L	1	MDL	0.000600	0.00500
Iron	<0.0120	mg/L	1	MDL	0.0120	0.200
Calcium	23.9	mg/L	1	MDL	0.0340	0.500
Analysis : DISSOLVED METALS by SW6020A						
Molybdenum, Dissolved	0.199	mg/L	1	Method: SW6020 (dissolved) 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 Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	DUP 3	Lab ID: HS22040016-103
Sample Date:	3/31/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	2,080	mg/L	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	9.30 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	22.3 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	1,310	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	4.60	mg/L	2	Method: E300 MDL	0.400	1.00
Fluoride	1.92	mg/L	2	MDL	0.100	0.200
Nitrogen, Nitrate (As N)	0.146 J	mg/L	2	MDL	0.0600	0.200
Sulfate	842	mg/L	20	MDL	4.00	10.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	24.4	mg/L	1	Method: SM2320B MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	64.7	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)	89.1	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric	<0.0200	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Boron	5.06	mg/L	10	Method: SW6020 MDL	0.110	0.200
Sodium	406	mg/L	10	MDL	0.140	2.00
Potassium	15.3	mg/L	1	MDL	0.0180	0.200
Magnesium	0.587	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.222	mg/L	1	MDL	0.000600	0.00500
Iron	<0.0120	mg/L	1	MDL	0.0120	0.200
Calcium	25.3	mg/L	1	MDL	0.0340	0.500
Analysis : DISSOLVED METALS by SW6020A						
Molybdenum, Dissolved	0.203	mg/L	1	Method: SW6020 (dissolved) 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 Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-19S	Lab ID: HS22040016-11
Sample Date:	4/1/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	3,570	mg/L	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	10.8 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	21.2 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	2,180	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	14.6	mg/L	2	Method: E300 MDL	0.400	1.00
Fluoride	1.66	mg/L	2	MDL	0.100	0.200
Nitrogen, Nitrate (As N)	0.102 J	mg/L	2	MDL	0.0600	0.200
Sulfate	1,420	mg/L	20	MDL	4.00	10.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	<5.00	mg/L	1	Method: SM2320B MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	53.6	mg/L	1	MDL	5.00	5.00
Alkalinity, Hydroxide (As CaCO3)	82.4	mg/L	1	MDL	5.00	5.00
Alkalinity, Total (As CaCO3)	136	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	0.0300 J	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	0.0290 J	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric	0.0254 J	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric, Dissolved	<0.0200	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Boron	9.73	mg/L	50	Method: SW6020 MDL	0.550	1.00
Sodium	723	mg/L	20	MDL	0.280	4.00
Potassium	37.0	mg/L	1	MDL	0.0180	0.200
Magnesium	0.0836 J	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.445	mg/L	1	MDL	0.000600	0.00500
Iron	0.0554 J	mg/L	1	MDL	0.0120	0.200
Calcium	44.2	mg/L	1	MDL	0.0340	0.500
Analysis : DISSOLVED METALS by SW6020A						
Molybdenum, Dissolved	0.406	mg/L	1	Method: SW6020 (dissolved) 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 Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-22A	Lab ID: HS22031619-09
Sample Date:	4/1/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Method: M2540C						
Specific Conductivity	21,000	mg/L	10	MDL	50.0	50.0
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	1.62 H	pH Units	1	MDL	0.100	0.100
Temp Deg C @pH	21.8 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Method: M2540C						
Total Dissolved Solids (Residue, Filterable)	2,520	mg/L	1	MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Method: E300						
Chloride	2.94 J	mg/L	10	MDL	2.00	5.00
Fluoride	<0.500	mg/L	10	MDL	0.500	1.00
Nitrogen, Nitrate (As N)	773	mg/L	100	MDL	3.00	10.0
Sulfate	3,760	mg/L	100	MDL	20.0	50.0
Analysis : ALKALINITY by SM2320B						
Method: SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	<5.00	mg/L	1	MDL	5.00	5.00
Alkalinity, Carbonate (As CaCO3)	<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)	<5.00	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Method: SM3500FED						
Ferrous Iron	0.0510	mg/L	1	MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Method: SM3500FED (dissolved)						
Ferrous Iron, Dissolved	0.253	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Method: SM3500FED						
Iron, Ferric	0.699	mg/L	1	MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Method: SM3500FED (dissolved)						
Iron, Ferric, Dissolved	0.118	mg/L	1	MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Method: SW6020						
Boron	2.16	mg/L	5	MDL	0.0550	0.100
Sodium	153	mg/L	1	MDL	0.0140	0.200
Potassium	16.1	mg/L	1	MDL	0.0180	0.200
Magnesium	97.5	mg/L	1	MDL	0.0100	0.200
Molybdenum	0.0014 J	mg/L	1	MDL	0.000600	0.00500
Iron	0.750	mg/L	1	MDL	0.0120	0.200
Calcium	581	mg/L	50	MDL	1.70	25.0
Analysis : DISSOLVED METALS by SW6020A						
Method: SW6020 (dissolved)						
Molybdenum, Dissolved	0.000982 J	mg/L	1	MDL	0.000600	0.00500
Iron, Dissolved	0.371	mg/L	1	MDL	0.0120	0.200

Client:	Altamira	ANALYTICAL REPORT
Project:	WFEC / MNA Program	Work Orders: HS22040016, HS22031619, HS22060384, HS22060381

Sample ID:	MW-22A	Lab ID: HS22060381-03
Sample Date:	6/7/2022	Matrix: Water

ANALYTE	RESULT	UNITS	DILUTION	RESULT REPORTED TO	MDL	RL
Analysis : SPECIFIC CONDUCTIVITY by SM2540C						
Specific Conductivity	4,010	mg/L	1	Method: M2540C MDL	5.00	5.00
Analysis : SULFIDE by SM500 S2-F						
Sulfide	<1.00	mg/L	1	Method: SM4500 S2-F MDL	1.00	1.00
Analysis : pH by SM4500h+ B						
pH	7.41 H	pH Units	1	Method: SM4500H+ B MDL	0.100	0.100
Temp Deg C @pH	21.0 H	°C	1	MDL	0	0
Analysis : DISSOLVED SOLIDS by SM2540C						
Total Dissolved Solids (Residue, Filterable)	3,090	mg/L	1	Method: M2540C MDL	5.00	10.0
Analysis : ANIONS by E300.0						
Chloride	2.38	mg/L	1	Method: E300 MDL	0.200	0.500
Fluoride	0.329	mg/L	1	MDL	0.0500	0.100
Nitrogen, Nitrate (As N)	0.0307 J	mg/L	1	MDL	0.0300	0.100
Sulfate	1,950	mg/L	20	MDL	4.00	10.0
Analysis : ALKALINITY by SM2320B						
Alkalinity, Bicarbonate (As CaCO3)	242	mg/L	1	Method: SM2320B 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)	242	mg/L	1	MDL	5.00	5.00
Analysis : FERROUS IRON by SM3500 FE B						
Ferrous Iron	0.118	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERROUS IRON by SM3500 FE D						
Ferrous Iron, Dissolved	0.127	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric	0.785	mg/L	1	Method: SM3500FED MDL	0.0200	0.0500
Analysis : FERRIC IRON-BY CALCULATION by SM3500FED						
Iron, Ferric, Dissolved	0.108	mg/L	1	Method: SM3500FED (dissolved) MDL	0.0200	0.0500
Analysis : ICP-MS METALS by SW6020A						
Iron	1.02	mg/L	1	Method: SW6020 MDL	0.0120	0.200
Analysis : DISSOLVED METALS by SW6020A						
Iron, Dissolved	0.235	mg/L	1	Method: SW6020 (dissolved) 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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June 22, 2022

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

Work Order: **HS22031669**

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

Dear Bert Smith,

ALS Environmental received 11 sample(s) on Mar 31, 2022 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: HS22031669

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS22031669-01	CM-3A	Water		29-Mar-2022 18:53	31-Mar-2022 10:15	<input type="checkbox"/>
HS22031669-02	MW-22B	Water		29-Mar-2022 18:19	31-Mar-2022 10:15	<input type="checkbox"/>
HS22031669-03	CM-1A	Water		31-Mar-2022 12:38	01-Apr-2022 09:40	<input type="checkbox"/>
HS22031669-04	CM-1B	Water		31-Mar-2022 10:39	01-Apr-2022 09:40	<input type="checkbox"/>
HS22031669-05	CM-4A	Water		30-Mar-2022 18:50	01-Apr-2022 09:40	<input type="checkbox"/>
HS22031669-06	CM-4B	Water		30-Mar-2022 18:30	01-Apr-2022 09:40	<input type="checkbox"/>
HS22031669-07	CM-5A	Water		30-Mar-2022 17:50	01-Apr-2022 09:40	<input type="checkbox"/>
HS22031669-08	CM-5B	Water		30-Mar-2022 17:33	01-Apr-2022 09:40	<input type="checkbox"/>
HS22031669-09	MW-15B	Water		30-Mar-2022 14:10	01-Apr-2022 09:40	<input type="checkbox"/>
HS22031669-10	CM-2	Water		31-Mar-2022 15:55	02-Apr-2022 09:45	<input type="checkbox"/>
HS22031669-11	CM-3B	Water		01-Apr-2022 15:30	02-Apr-2022 09:45	<input type="checkbox"/>

Client: Altamira
Project: WFEC / MNA Program
Work Order: HS22031669

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.

Work Order Comments

- CM-3B No sulfide container received , Limited sample volume For other Tests, Dissolved Ferrous Iron container (Filtered) sample contains sediment .

Metals by Method SW6020A**Batch ID: 177457****Sample ID: CM-1B (HS22031669-04)**

- Molybdenum and Iron ran at a 2X dilution due to high concentration of Sodium.

Sample ID: CM-5B (HS22031669-08)

- Iron ran at a 2X dilution due to high concentration of Sodium.

Sample ID: MW-15B (HS22031669-09)

- Molybdenum ran at a 2X dilution due to high concentration of Sodium.

Sample ID: MW-22B (HS22031669-02)

- Molybdenum ran at a 2X dilution due to high concentration of Sodium.

Sample ID: HS22031652-01MS

- MS and MSD are for an unrelated sample

Sample ID: HS22031652-01PDS

- PDS is for an unrelated sample

Batch ID: 177507

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

Batch ID: 177513**Sample ID: HS22031676-01MS**

- MS and MSD are for an unrelated sample

Wet Chemistry by Method E300**Batch ID: R405613****Sample ID: HS22031336-03MS**

- MS and MSD are for an unrelated sample

Client: Altamira
Project: WFEC / MNA Program
Work Order: HS22031669

CASE NARRATIVE

Wet Chemistry by Method E300

Batch ID: R406349

Sample ID: HS22040016-03MS

- MS and MSD are for an unrelated sample

Batch ID: R406352

Sample ID: HS22031619-09MS

- MS and MSD are for an unrelated sample

Batch ID: R406347

Sample ID: HS22040585-02MS

- MS and MSD are for an unrelated sample

Batch ID: R405597

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

Batch ID: R405587

Sample ID: HS22031619-07MS

- MS and MSD are for an unrelated sample

WetChemistry by Method SM4500 S2-F

Batch ID: R405479,R406135

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

WetChemistry by Method SM4500H+ B

Batch ID: R405806,R406522,R406523

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

WetChemistry by Method M2540C

Batch ID: R405721,R405818,R406177

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

Client: Altamira
Project: WFEC / MNA Program
Work Order: HS22031669

CASE NARRATIVE

WetChemistry by Method E300**Batch ID: R405476****Sample ID: CM-3A (HS22031669-01MS)**

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Nitrogen, Nitrate)

Sample ID: HS22031619-02MS

- MS and MSD are for an unrelated sample

Sample ID: MW-22B (HS22031669-02)

- The reporting limit(s) is/are elevated due to dilution for high concentrations of SO4

Batch ID: R405587**Sample ID: CM-1A (HS22031669-03)**

- The reporting limit(s) is/are elevated due to dilution for high concentrations of SO4

Sample ID: CM-1B (HS22031669-04)

- The reporting limit(s) is/are elevated due to dilution for high concentrations of SO4

Sample ID: CM-4A (HS22031669-05)

- The reporting limit(s) is/are elevated due to dilution for high concentrations of SO4

Sample ID: CM-4B (HS22031669-06)

- The reporting limit(s) is/are elevated due to dilution for high concentrations of SO4

Sample ID: CM-5A (HS22031669-07)

- The reporting limit(s) is/are elevated due to dilution for high concentrations of SO4

Sample ID: CM-5B (HS22031669-08)

- The reporting limit(s) is/are elevated due to dilution for high concentrations of SO4

Sample ID: MW-15B (HS22031669-09)

- The reporting limit(s) is/are elevated due to dilution for high concentrations of SO4

WetChemistry by Method M2510 B**Batch ID: R405459,R405864**

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

WetChemistry by Method SM2320B**Batch ID: R405406,R406334**

- 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-3A
 Collection Date: 29-Mar-2022 18:53

ANALYTICAL REPORT
 WorkOrder:HS22031669
 Lab ID:HS22031669-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: RPM
Ferric Iron	0.209		0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: RPM
Ferric Iron, Dissolved	3.28		0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 11-Apr-2022	Analyst: JC
Boron	3.26		0.0550	0.100	mg/L	5	13-Apr-2022 22:44
Calcium	49.9		0.170	2.50	mg/L	5	13-Apr-2022 22:44
Iron	0.971		0.0120	0.200	mg/L	1	14-Apr-2022 12:32
Magnesium	10.4		0.0500	1.00	mg/L	5	13-Apr-2022 22:44
Molybdenum	0.00656		0.000600	0.00500	mg/L	1	14-Apr-2022 12:32
Potassium	5.96		0.0900	1.00	mg/L	5	13-Apr-2022 22:44
Sodium	525		0.0700	1.00	mg/L	5	13-Apr-2022 22:44
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Iron	3.34		0.0120	0.200	mg/L	1	13-Apr-2022 18:23
Molybdenum	0.00844		0.000600	0.00500	mg/L	1	13-Apr-2022 18:23
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	37.0		0.200	0.500	mg/L	1	31-Mar-2022 16:17
Fluoride	0.870		0.0500	0.100	mg/L	1	31-Mar-2022 16:17
Nitrogen, Nitrate (As N)	17.1		0.0300	0.100	mg/L	1	31-Mar-2022 16:17
Sulfate	677		4.00	10.0	mg/L	20	12-Apr-2022 19:28
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	2,790		5.00	5.00	umhos/cm @ 25.0 °C	1	01-Apr-2022 12:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: CWG
Total Dissolved Solids (Residue, Filterable)	1,710		5.00	10.0	mg/L	1	04-Apr-2022 15:46
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	602		5.00	5.00	mg/L	1	31-Mar-2022 18:06
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	31-Mar-2022 18:06
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	31-Mar-2022 18:06
Alkalinity, Total (As CaCO3)	602		5.00	5.00	mg/L	1	31-Mar-2022 18:06
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: MZD
Ferrous Iron	0.762		0.0200	0.0500	mg/L	1	31-Mar-2022 16:52
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: MZD
Ferrous Iron, Dissolved	0.0570		0.0200	0.0500	mg/L	1	31-Mar-2022 16:57
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide	34.2		1.00	1.00	mg/L	1	01-Apr-2022 12:34

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-3A
 Collection Date: 29-Mar-2022 18:53

ANALYTICAL REPORT

WorkOrder:HS22031669
 Lab ID:HS22031669-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: JAC		
pH	7.82	H	0.100	0.100	pH Units	1	06-Apr-2022 14:00
Temp Deg C @pH	22.9	H	0	0	°C	1	06-Apr-2022 14:00

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: MW-22B
 Collection Date: 29-Mar-2022 18:19

ANALYTICAL REPORT
 WorkOrder:HS22031669
 Lab ID:HS22031669-02
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: RPM
Ferric Iron	5.61		0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: RPM
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 11-Apr-2022	Analyst: JC
Boron	4.02		0.0550	0.100	mg/L	5	13-Apr-2022 22:46
Calcium	103		0.170	2.50	mg/L	5	13-Apr-2022 22:46
Iron	7.27		0.0240	0.400	mg/L	2	14-Apr-2022 12:34
Magnesium	28.4		0.0500	1.00	mg/L	5	13-Apr-2022 22:46
Molybdenum	0.00357	J	0.00120	0.0100	mg/L	2	14-Apr-2022 12:34
Potassium	10.7		0.0900	1.00	mg/L	5	13-Apr-2022 22:46
Sodium	1,110		1.40	20.0	mg/L	100	14-Apr-2022 12:38
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Iron	0.0136	J	0.0120	0.200	mg/L	1	13-Apr-2022 18:25
Molybdenum	0.00554		0.000600	0.00500	mg/L	1	13-Apr-2022 18:25
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	57.8		1.00	2.50	mg/L	5	31-Mar-2022 16:33
Fluoride	1.08		0.250	0.500	mg/L	5	31-Mar-2022 16:33
Nitrogen, Nitrate (As N)	1.38		0.150	0.500	mg/L	5	31-Mar-2022 16:33
Sulfate	1,980		10.0	25.0	mg/L	50	12-Apr-2022 19:06
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: MZD
Specific Conductivity	5,060		5.00	5.00	umhos/cm @ 25.0 °C	1	01-Apr-2022 12:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: CWG
Total Dissolved Solids (Residue, Filterable)	3,430		5.00	10.0	mg/L	1	04-Apr-2022 15:46
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	435		5.00	5.00	mg/L	1	31-Mar-2022 18:13
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	31-Mar-2022 18:13
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	31-Mar-2022 18:13
Alkalinity, Total (As CaCO3)	435		5.00	5.00	mg/L	1	31-Mar-2022 18:13
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: MZD
Ferrous Iron	1.66		0.0200	0.0500	mg/L	1	31-Mar-2022 16:52
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: MZD
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	31-Mar-2022 16:57
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: MZD
Sulfide	42.2		1.00	1.00	mg/L	1	01-Apr-2022 12:34

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: MW-22B
 Collection Date: 29-Mar-2022 18:19

ANALYTICAL REPORT

WorkOrder:HS22031669
 Lab ID:HS22031669-02
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: JAC
pH	7.99	H	0.100	0.100	pH Units	1	06-Apr-2022 14:00
Temp Deg C @pH	23.0	H	0	0	°C	1	06-Apr-2022 14:00

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-1A
 Collection Date: 31-Mar-2022 12:38

ANALYTICAL REPORT
 WorkOrder:HS22031669
 Lab ID:HS22031669-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: RPM
Ferric Iron	0.0770		0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: RPM
Ferric Iron, Dissolved	0.0220	J	0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 11-Apr-2022	Analyst: JC
Boron	0.733		0.0550	0.100	mg/L	5	13-Apr-2022 22:48
Calcium	551		0.170	2.50	mg/L	5	13-Apr-2022 22:48
Iron	0.0770	J	0.0120	0.200	mg/L	1	14-Apr-2022 12:36
Magnesium	59.4		0.0500	1.00	mg/L	5	13-Apr-2022 22:48
Molybdenum		U	0.000600	0.00500	mg/L	1	14-Apr-2022 12:36
Potassium	7.52		0.0900	1.00	mg/L	5	13-Apr-2022 22:48
Sodium	206		0.0700	1.00	mg/L	5	13-Apr-2022 22:48
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Iron	0.0224	J	0.0120	0.200	mg/L	1	13-Apr-2022 18:33
Molybdenum	0.000720	J	0.000600	0.00500	mg/L	1	13-Apr-2022 18:33
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	26.4		1.00	2.50	mg/L	5	01-Apr-2022 13:14
Fluoride	0.390	J	0.250	0.500	mg/L	5	01-Apr-2022 13:14
Nitrogen, Nitrate (As N)	0.294	J	0.150	0.500	mg/L	5	01-Apr-2022 13:14
Sulfate	1,770		10.0	25.0	mg/L	50	12-Apr-2022 20:47
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: TH
Specific Conductivity	3,410		5.00	5.00	umhos/cm @ 25.0 °C	1	07-Apr-2022 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: CWG
Total Dissolved Solids (Residue, Filterable)	2,840		5.00	10.0	mg/L	1	05-Apr-2022 15:25
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	353		5.00	5.00	mg/L	1	12-Apr-2022 15:00
Alkalinity, Carbonate (As CaCO3)		U	5.00	5.00	mg/L	1	12-Apr-2022 15:00
Alkalinity, Hydroxide (As CaCO3)		U	5.00	5.00	mg/L	1	12-Apr-2022 15:00
Alkalinity, Total (As CaCO3)	353		5.00	5.00	mg/L	1	12-Apr-2022 15:00
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron		U	0.0200	0.0500	mg/L	1	01-Apr-2022 13:54
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved		U	0.0200	0.0500	mg/L	1	01-Apr-2022 13:39
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: JHD
Sulfide		U	1.00	1.00	mg/L	1	06-Apr-2022 17:00

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-1A
 Collection Date: 31-Mar-2022 12:38

ANALYTICAL REPORT

WorkOrder:HS22031669
 Lab ID:HS22031669-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: MZD
pH	7.77	H	0.100	0.100	pH Units	1	14-Apr-2022 14:15
Temp Deg C @pH	21.3	H	0	0	°C	1	14-Apr-2022 14:15

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-1B
 Collection Date: 31-Mar-2022 10:39

ANALYTICAL REPORT

WorkOrder:HS22031669
 Lab ID:HS22031669-04
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: RPM			
Ferric Iron	0.0870		0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: RPM			
Ferric Iron, Dissolved	0.0480	J	0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 11-Apr-2022		Analyst: JC	
Boron	4.06		0.0550	0.100	mg/L	5	13-Apr-2022 22:50
Calcium	123		0.170	2.50	mg/L	5	13-Apr-2022 22:50
Iron	0.172	J	0.0240	0.400	mg/L	2	14-Apr-2022 12:48
Magnesium	45.2		0.0500	1.00	mg/L	5	13-Apr-2022 22:50
Molybdenum	0.00696	J	0.00120	0.0100	mg/L	2	14-Apr-2022 12:48
Potassium	13.1		0.0900	1.00	mg/L	5	13-Apr-2022 22:50
Sodium	1,140		1.40	20.0	mg/L	100	14-Apr-2022 12:50
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 12-Apr-2022		Analyst: JC	
Iron	0.159	J	0.0120	0.200	mg/L	1	13-Apr-2022 18:35
Molybdenum	0.00727		0.000600	0.00500	mg/L	1	13-Apr-2022 18:35
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: YP			
Chloride	116		1.00	2.50	mg/L	5	01-Apr-2022 13:29
Fluoride	0.828		0.250	0.500	mg/L	5	01-Apr-2022 13:29
Nitrogen, Nitrate (As N)	0.232	J	0.150	0.500	mg/L	5	01-Apr-2022 13:29
Sulfate	2,190		10.0	25.0	mg/L	50	12-Apr-2022 20:36
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: TH			
Specific Conductivity	5,370		5.00	5.00	umhos/cm @ 25.0 °C	1	07-Apr-2022 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: CWG			
Total Dissolved Solids (Residue, Filterable)	3,770		5.00	10.0	mg/L	1	05-Apr-2022 15:25
ALKALINITY BY SM 2320B-2011		Method:SM2320B		Analyst: TH			
Alkalinity, Bicarbonate (As CaCO3)	394		5.00	5.00	mg/L	1	12-Apr-2022 14:37
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 14:37
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 14:37
Alkalinity, Total (As CaCO3)	394		5.00	5.00	mg/L	1	12-Apr-2022 14:37
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: AP			
Ferrous Iron	0.0850		0.0200	0.0500	mg/L	1	01-Apr-2022 13:54
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: AP			
Ferrous Iron, Dissolved	0.111		0.0200	0.0500	mg/L	1	01-Apr-2022 13:39
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: JHD			
Sulfide	U		1.00	1.00	mg/L	1	06-Apr-2022 17:00

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-1B
 Collection Date: 31-Mar-2022 10:39

ANALYTICAL REPORT

WorkOrder:HS22031669
 Lab ID:HS22031669-04
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: MZD		
pH	8.03	H	0.100	0.100	pH Units	1	14-Apr-2022 14:15
Temp Deg C @pH	22.4	H	0	0	°C	1	14-Apr-2022 14:15

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-4A
 Collection Date: 30-Mar-2022 18:50

ANALYTICAL REPORT
 WorkOrder:HS22031669
 Lab ID:HS22031669-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: RPM
Ferric Iron	19.5		0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: RPM
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 11-Apr-2022	Analyst: JC
Boron	4.69		0.0550	0.100	mg/L	5	13-Apr-2022 22:58
Calcium	162		0.170	2.50	mg/L	5	13-Apr-2022 22:58
Iron	21.6		0.0600	1.00	mg/L	5	13-Apr-2022 22:58
Magnesium	20.8		0.0500	1.00	mg/L	5	13-Apr-2022 22:58
Molybdenum	0.00455	J	0.000600	0.00500	mg/L	1	14-Apr-2022 12:52
Potassium	9.42		0.0900	1.00	mg/L	5	13-Apr-2022 22:58
Sodium	772		0.0700	1.00	mg/L	5	13-Apr-2022 22:58
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Iron	0.0901	J	0.0120	0.200	mg/L	1	13-Apr-2022 18:37
Molybdenum	0.0183		0.000600	0.00500	mg/L	1	13-Apr-2022 18:37
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	82.9		1.00	2.50	mg/L	5	01-Apr-2022 13:03
Fluoride	0.787		0.250	0.500	mg/L	5	01-Apr-2022 13:03
Nitrogen, Nitrate (As N)	16.4		0.150	0.500	mg/L	5	01-Apr-2022 13:03
Sulfate	1,070		10.0	25.0	mg/L	50	12-Apr-2022 20:15
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: TH
Specific Conductivity	3,700		5.00	5.00	umhos/cm @ 25.0 °C	1	07-Apr-2022 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: CWG
Total Dissolved Solids (Residue, Filterable)	2,420		5.00	10.0	mg/L	1	04-Apr-2022 15:46
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	619		5.00	5.00	mg/L	1	12-Apr-2022 14:22
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 14:22
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 14:22
Alkalinity, Total (As CaCO3)	619		5.00	5.00	mg/L	1	12-Apr-2022 14:22
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	2.14		0.0400	0.100	mg/L	2	01-Apr-2022 13:54
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	0.0720		0.0200	0.0500	mg/L	1	01-Apr-2022 13:39
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: JHD
Sulfide	U		1.00	1.00	mg/L	1	06-Apr-2022 17:00

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-4A
 Collection Date: 30-Mar-2022 18:50

ANALYTICAL REPORT

WorkOrder:HS22031669
 Lab ID:HS22031669-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: MZD			
pH	7.84	H	0.100	0.100	pH Units	1	14-Apr-2022 14:15	
Temp Deg C @pH	21.8	H	0	0	°C	1	14-Apr-2022 14:15	

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-4B
 Collection Date: 30-Mar-2022 18:30

ANALYTICAL REPORT

WorkOrder:HS22031669
 Lab ID:HS22031669-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED		Analyst: RPM			
Ferric Iron	1.02		0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)		Analyst: RPM			
Ferric Iron, Dissolved	U		0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 11-Apr-2022		Analyst: JC	
Boron	4.90		0.0550	0.100	mg/L	5	13-Apr-2022 23:00
Calcium	56.2		0.170	2.50	mg/L	5	13-Apr-2022 23:00
Iron	1.15		0.0240	0.400	mg/L	2	14-Apr-2022 12:54
Magnesium	17.5		0.0500	1.00	mg/L	5	13-Apr-2022 23:00
Molybdenum	0.0184		0.00120	0.0100	mg/L	2	14-Apr-2022 12:54
Potassium	8.19		0.0900	1.00	mg/L	5	13-Apr-2022 23:00
Sodium	1,140		1.40	20.0	mg/L	100	14-Apr-2022 12:56
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 12-Apr-2022		Analyst: JC	
Iron	0.0421	J	0.0120	0.200	mg/L	1	13-Apr-2022 18:39
Molybdenum	0.0194		0.000600	0.00500	mg/L	1	13-Apr-2022 18:39
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: YP			
Chloride	112		1.00	2.50	mg/L	5	01-Apr-2022 13:08
Fluoride	0.944		0.250	0.500	mg/L	5	01-Apr-2022 13:08
Nitrogen, Nitrate (As N)	34.0		0.150	0.500	mg/L	5	01-Apr-2022 13:08
Sulfate	1,500		10.0	25.0	mg/L	50	12-Apr-2022 20:10
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B		Analyst: TH			
Specific Conductivity	4,710		5.00	5.00	umhos/cm @ 25.0 °C	1	07-Apr-2022 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: CWG			
Total Dissolved Solids (Residue, Filterable)	3,310		5.00	10.0	mg/L	1	04-Apr-2022 15:46
ALKALINITY BY SM 2320B-2011		Method:SM2320B		Analyst: TH			
Alkalinity, Bicarbonate (As CaCO3)	565		5.00	5.00	mg/L	1	12-Apr-2022 14:30
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 14:30
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 14:30
Alkalinity, Total (As CaCO3)	565		5.00	5.00	mg/L	1	12-Apr-2022 14:30
FERROUS IRON BY SM3500 FE B		Method:SM3500FED		Analyst: AP			
Ferrous Iron	0.134		0.0200	0.0500	mg/L	1	01-Apr-2022 13:54
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)		Analyst: AP			
Ferrous Iron, Dissolved	0.0750		0.0200	0.0500	mg/L	1	01-Apr-2022 13:39
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F		Analyst: JHD			
Sulfide	U		1.00	1.00	mg/L	1	06-Apr-2022 17:00

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-4B
 Collection Date: 30-Mar-2022 18:30

ANALYTICAL REPORT

WorkOrder:HS22031669
 Lab ID:HS22031669-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: MZD		
pH	8.01	H	0.100	0.100	pH Units	1	14-Apr-2022 14:15
Temp Deg C @pH	22.1	H	0	0	°C	1	14-Apr-2022 14:15

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-5A
 Collection Date: 30-Mar-2022 17:50

ANALYTICAL REPORT
 WorkOrder:HS22031669
 Lab ID:HS22031669-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: RPM
Ferric Iron	20.8		0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: RPM
Ferric Iron, Dissolved	0.876		0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 11-Apr-2022	Analyst: JC
Boron	6.34		0.110	0.200	mg/L	10	14-Apr-2022 13:00
Calcium	170		0.170	2.50	mg/L	5	13-Apr-2022 23:02
Iron	22.3		0.0600	1.00	mg/L	5	13-Apr-2022 23:02
Magnesium	27.8		0.0500	1.00	mg/L	5	13-Apr-2022 23:02
Molybdenum	0.00351	J	0.000600	0.00500	mg/L	1	14-Apr-2022 12:58
Potassium	11.1		0.0900	1.00	mg/L	5	13-Apr-2022 23:02
Sodium	791		0.0700	1.00	mg/L	5	13-Apr-2022 23:02
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Iron	0.876		0.0120	0.200	mg/L	1	13-Apr-2022 18:41
Molybdenum	0.0129		0.000600	0.00500	mg/L	1	13-Apr-2022 18:41
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	115		1.00	2.50	mg/L	5	01-Apr-2022 12:58
Fluoride	0.852		0.250	0.500	mg/L	5	01-Apr-2022 12:58
Nitrogen, Nitrate (As N)	20.2		0.150	0.500	mg/L	5	01-Apr-2022 12:58
Sulfate	1,250		10.0	25.0	mg/L	50	12-Apr-2022 20:05
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: TH
Specific Conductivity	3,980		5.00	5.00	umhos/cm @ 25.0 °C	1	07-Apr-2022 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: CWG
Total Dissolved Solids (Residue, Filterable)	2,620		5.00	10.0	mg/L	1	05-Apr-2022 15:25
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	515		5.00	5.00	mg/L	1	12-Apr-2022 15:08
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 15:08
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 15:08
Alkalinity, Total (As CaCO3)	515		5.00	5.00	mg/L	1	12-Apr-2022 15:08
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	1.45		0.0400	0.100	mg/L	2	01-Apr-2022 13:54
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	01-Apr-2022 13:39
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: JHD
Sulfide	U		1.00	1.00	mg/L	1	06-Apr-2022 17:00

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

Client: Altamira
Project: WFEC / MNA Program
Sample ID: CM-5A
Collection Date: 30-Mar-2022 17:50

ANALYTICAL REPORT

WorkOrder:HS22031669
Lab ID:HS22031669-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: MZD
pH	7.92	H	0.100	0.100	pH Units	1	14-Apr-2022 14:15
Temp Deg C @pH	23.4	H	0	0	°C	1	14-Apr-2022 14:15

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-5B
 Collection Date: 30-Mar-2022 17:33

ANALYTICAL REPORT
 WorkOrder:HS22031669
 Lab ID:HS22031669-08
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: RPM
Ferric Iron		U	0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: RPM
Ferric Iron, Dissolved	3.16		0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 11-Apr-2022	Analyst: JC
Boron	5.91		0.110	0.200	mg/L	10	14-Apr-2022 13:04
Calcium	59.8		0.170	2.50	mg/L	5	13-Apr-2022 23:04
Iron	0.0358	J	0.0240	0.400	mg/L	2	14-Apr-2022 13:02
Magnesium	19.5		0.0500	1.00	mg/L	5	13-Apr-2022 23:04
Molybdenum	0.0361		0.00120	0.0100	mg/L	2	14-Apr-2022 13:02
Potassium	8.55		0.0900	1.00	mg/L	5	13-Apr-2022 23:04
Sodium	986		1.40	20.0	mg/L	100	14-Apr-2022 13:24
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Iron	3.16		0.0120	0.200	mg/L	1	13-Apr-2022 18:43
Molybdenum	0.0294		0.000600	0.00500	mg/L	1	13-Apr-2022 18:43
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	147		1.00	2.50	mg/L	5	01-Apr-2022 12:26
Fluoride	0.838		0.250	0.500	mg/L	5	01-Apr-2022 12:26
Nitrogen, Nitrate (As N)	66.7		0.150	0.500	mg/L	5	01-Apr-2022 12:26
Sulfate	1,170		10.0	25.0	mg/L	50	12-Apr-2022 19:59
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: TH
Specific Conductivity	4,450		5.00	5.00	umhos/cm @ 25.0 °C	1	07-Apr-2022 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: CWG
Total Dissolved Solids (Residue, Filterable)	3,060		5.00	10.0	mg/L	1	05-Apr-2022 15:25
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	594		5.00	5.00	mg/L	1	12-Apr-2022 15:15
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 15:15
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 15:15
Alkalinity, Total (As CaCO3)	594		5.00	5.00	mg/L	1	12-Apr-2022 15:15
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	2.30		0.0400	0.100	mg/L	2	01-Apr-2022 13:54
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	01-Apr-2022 13:39
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: JHD
Sulfide	39.8		1.00	1.00	mg/L	1	06-Apr-2022 17:00

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

Client: Altamira
Project: WFEC / MNA Program
Sample ID: CM-5B
Collection Date: 30-Mar-2022 17:33

ANALYTICAL REPORT

WorkOrder:HS22031669
Lab ID:HS22031669-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: MZD		
pH	7.82	H	0.100	0.100	pH Units	1	14-Apr-2022 14:15
Temp Deg C @pH	21.9	H	0	0	°C	1	14-Apr-2022 14:15

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: MW-15B
 Collection Date: 30-Mar-2022 14:10

ANALYTICAL REPORT
 WorkOrder:HS22031669
 Lab ID:HS22031669-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: RPM
Ferric Iron	2.86		0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: RPM
Ferric Iron, Dissolved	0.172		0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 11-Apr-2022	Analyst: JC
Boron	6.08		0.110	0.200	mg/L	10	14-Apr-2022 19:37
Calcium	59.8		0.170	2.50	mg/L	5	13-Apr-2022 23:06
Iron	3.31		0.0240	0.400	mg/L	2	14-Apr-2022 13:20
Magnesium	18.0		0.0500	1.00	mg/L	5	13-Apr-2022 23:06
Molybdenum	0.00370	J	0.00120	0.0100	mg/L	2	14-Apr-2022 13:20
Potassium	8.39		0.0900	1.00	mg/L	5	13-Apr-2022 23:06
Sodium	1,220		1.40	20.0	mg/L	100	14-Apr-2022 13:26
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Iron	0.172	J	0.0120	0.200	mg/L	1	13-Apr-2022 18:45
Molybdenum	0.00519		0.000600	0.00500	mg/L	1	13-Apr-2022 18:45
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	56.7		1.00	2.50	mg/L	5	01-Apr-2022 12:21
Fluoride	1.24		0.250	0.500	mg/L	5	01-Apr-2022 12:21
Nitrogen, Nitrate (As N)	23.2		0.150	0.500	mg/L	5	01-Apr-2022 12:21
Sulfate	1,590		10.0	25.0	mg/L	50	12-Apr-2022 19:49
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: TH
Specific Conductivity	4,910		5.00	5.00	umhos/cm @ 25.0 °C	1	07-Apr-2022 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: CWG
Total Dissolved Solids (Residue, Filterable)	3,380		5.00	10.0	mg/L	1	05-Apr-2022 15:25
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	768		5.00	5.00	mg/L	1	12-Apr-2022 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 15:23
Alkalinity, Total (As CaCO3)	768		5.00	5.00	mg/L	1	12-Apr-2022 15:23
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	0.451		0.0200	0.0500	mg/L	1	01-Apr-2022 13:54
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	U		0.0200	0.0500	mg/L	1	01-Apr-2022 13:39
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: JHD
Sulfide	40.0		1.00	1.00	mg/L	1	06-Apr-2022 17:00

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

Client: Altamira
Project: WFEC / MNA Program
Sample ID: MW-15B
Collection Date: 30-Mar-2022 14:10

ANALYTICAL REPORT
WorkOrder:HS22031669
Lab ID:HS22031669-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011		Method:SM4500H+ B			Analyst: MZD		
pH	7.99	H	0.100	0.100	pH Units	1	14-Apr-2022 14:35
Temp Deg C @pH	24.9	H	0	0	°C	1	14-Apr-2022 14:35

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-2
 Collection Date: 31-Mar-2022 15:55

ANALYTICAL REPORT
 WorkOrder:HS22031669
 Lab ID:HS22031669-10
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: RPM
Ferric Iron	0.0820		0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: RPM
Ferric Iron, Dissolved	0.0800		0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Boron	0.480		0.0110	0.0200	mg/L	1	14-Apr-2022 22:52
Calcium	467		0.340	5.00	mg/L	10	15-Apr-2022 12:19
Iron	0.115	J	0.0120	0.200	mg/L	1	14-Apr-2022 22:52
Magnesium	18.8		0.0100	0.200	mg/L	1	14-Apr-2022 22:52
Molybdenum	0.000820	J	0.000600	0.00500	mg/L	1	14-Apr-2022 22:52
Potassium	5.01		0.0180	0.200	mg/L	1	14-Apr-2022 22:52
Sodium	73.2		0.0140	0.200	mg/L	1	14-Apr-2022 22:52
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Iron	0.136	J	0.0120	0.200	mg/L	1	13-Apr-2022 18:47
Molybdenum	0.000820	J	0.000600	0.00500	mg/L	1	13-Apr-2022 18:47
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	2.87		0.200	0.500	mg/L	1	02-Apr-2022 12:32
Fluoride	0.506		0.0500	0.100	mg/L	1	02-Apr-2022 12:32
Nitrogen, Nitrate (As N)	0.256		0.0300	0.100	mg/L	1	02-Apr-2022 12:32
Sulfate	1,010		4.00	10.0	mg/L	20	12-Apr-2022 20:57
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: TH
Specific Conductivity	2,220		5.00	5.00	umhos/cm @ 25.0 °C	1	07-Apr-2022 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: CWG
Total Dissolved Solids (Residue, Filterable)	1,780		5.00	10.0	mg/L	1	05-Apr-2022 15:25
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	318		5.00	5.00	mg/L	1	12-Apr-2022 15:30
Alkalinity, Carbonate (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 15:30
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 15:30
Alkalinity, Total (As CaCO3)	318		5.00	5.00	mg/L	1	12-Apr-2022 15:30
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	0.0330	J	0.0200	0.0500	mg/L	1	02-Apr-2022 13:40
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	0.0560		0.0200	0.0500	mg/L	1	02-Apr-2022 14:00
SULFIDE BY SM4500 S2-F-2011		Method:SM4500 S2-F					Analyst: JHD
Sulfide	U		1.00	1.00	mg/L	1	06-Apr-2022 17:00

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-2
 Collection Date: 31-Mar-2022 15:55

ANALYTICAL REPORT

WorkOrder:HS22031669
 Lab ID:HS22031669-10
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B-2011	Method:SM4500H+ B						Analyst: MZD
pH	7.79	H	0.100	0.100	pH Units	1	14-Apr-2022 14:35
Temp Deg C @pH	24.3	H	0	0	°C	1	14-Apr-2022 14:35

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

Client: Altamira
 Project: WFEC / MNA Program
 Sample ID: CM-3B
 Collection Date: 01-Apr-2022 15:30

ANALYTICAL REPORT

WorkOrder:HS22031669
 Lab ID:HS22031669-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
FERRIC IRON - BY CALCULATION BY SM3500FED		Method:SM3500FED					Analyst: RPM
Ferric Iron	16.1		0.0200	0.0500	mg/L	1	15-Apr-2022 14:36
FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED		Method:SM3500FED (dissolved)					Analyst: RPM
Ferric Iron, Dissolved	45.2		0.0200	0.0500	mg/L	1	15-Apr-2022 14:39
ICP-MS METALS BY SW6020A		Method:SW6020A				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Boron	5.14		0.110	0.200	mg/L	10	15-Apr-2022 12:21
Calcium	70.1		0.0340	0.500	mg/L	1	14-Apr-2022 22:54
Iron	16.7		0.0120	0.200	mg/L	1	14-Apr-2022 22:54
Magnesium	13.6		0.0100	0.200	mg/L	1	14-Apr-2022 22:54
Molybdenum	0.0174		0.000600	0.00500	mg/L	1	14-Apr-2022 22:54
Potassium	9.25		0.0180	0.200	mg/L	1	14-Apr-2022 22:54
Sodium	948		0.140	2.00	mg/L	10	15-Apr-2022 12:21
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)				Prep:SW3010A / 12-Apr-2022	Analyst: JC
Iron	46.7		0.0120	0.200	mg/L	1	13-Apr-2022 18:49
Molybdenum	0.0256		0.000600	0.00500	mg/L	1	13-Apr-2022 18:49
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: YP
Chloride	53.0		1.00	2.50	mg/L	5	12-Apr-2022 23:31
Fluoride	1.51		0.250	0.500	mg/L	5	12-Apr-2022 23:31
Nitrogen, Nitrate (As N)	65.6		1.50	5.00	mg/L	50	02-Apr-2022 12:47
Sulfate	1,070		10.0	25.0	mg/L	50	04-Apr-2022 15:41
SPECIFIC CONDUCTANCE BY SM 2510B-2011		Method:M2510 B					Analyst: TH
Specific Conductivity	4,030		5.00	5.00	umhos/cm @ 25.0 °C	1	07-Apr-2022 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: CWG
Total Dissolved Solids (Residue, Filterable)	3,580		5.00	10.0	mg/L	1	08-Apr-2022 14:43
ALKALINITY BY SM 2320B-2011		Method:SM2320B					Analyst: TH
Alkalinity, Bicarbonate (As CaCO3)	651		5.00	5.00	mg/L	1	12-Apr-2022 15:38
Alkalinity, Carbonate (As CaCO3)	102		5.00	5.00	mg/L	1	12-Apr-2022 15:38
Alkalinity, Hydroxide (As CaCO3)	U		5.00	5.00	mg/L	1	12-Apr-2022 15:38
Alkalinity, Total (As CaCO3)	753		5.00	5.00	mg/L	1	12-Apr-2022 15:38
FERROUS IRON BY SM3500 FE B		Method:SM3500FED					Analyst: AP
Ferrous Iron	0.636		0.0200	0.0500	mg/L	1	02-Apr-2022 13:40
FERROUS IRON BY SM3500 FE D		Method:SM3500FED (dissolved)					Analyst: AP
Ferrous Iron, Dissolved	1.45		0.0200	0.0500	mg/L	1	02-Apr-2022 14:00
PH BY SM4500H+ B-2011		Method:SM4500H+ B					Analyst: MZD
pH	8.51	H	0.100	0.100	pH Units	1	14-Apr-2022 14:35
Temp Deg C @pH	24.3	H	0	0	°C	1	14-Apr-2022 14:35

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

Weight / Prep Log

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

Batch ID: 177457 **Start Date:** 11 Apr 2022 10:30 **End Date:** 11 Apr 2022 14:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22031669-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-09		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 177507 **Start Date:** 12 Apr 2022 08:30 **End Date:** 12 Apr 2022 12:30
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22031669-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-11		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 177513 **Start Date:** 12 Apr 2022 10:00 **End Date:** 12 Apr 2022 14:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22031669-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22031669-11		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 177457 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53		11 Apr 2022 10:30	14 Apr 2022 12:32	1
HS22031669-01	CM-3A	29 Mar 2022 18:53		11 Apr 2022 10:30	13 Apr 2022 22:44	5
HS22031669-02	MW-22B	29 Mar 2022 18:19		11 Apr 2022 10:30	14 Apr 2022 12:38	100
HS22031669-02	MW-22B	29 Mar 2022 18:19		11 Apr 2022 10:30	14 Apr 2022 12:34	2
HS22031669-02	MW-22B	29 Mar 2022 18:19		11 Apr 2022 10:30	13 Apr 2022 22:46	5
HS22031669-03	CM-1A	31 Mar 2022 12:38		11 Apr 2022 10:30	14 Apr 2022 12:36	1
HS22031669-03	CM-1A	31 Mar 2022 12:38		11 Apr 2022 10:30	13 Apr 2022 22:48	5
HS22031669-04	CM-1B	31 Mar 2022 10:39		11 Apr 2022 10:30	14 Apr 2022 12:50	100
HS22031669-04	CM-1B	31 Mar 2022 10:39		11 Apr 2022 10:30	14 Apr 2022 12:48	2
HS22031669-04	CM-1B	31 Mar 2022 10:39		11 Apr 2022 10:30	13 Apr 2022 22:50	5
HS22031669-05	CM-4A	30 Mar 2022 18:50		11 Apr 2022 10:30	14 Apr 2022 12:52	1
HS22031669-05	CM-4A	30 Mar 2022 18:50		11 Apr 2022 10:30	13 Apr 2022 22:58	5
HS22031669-06	CM-4B	30 Mar 2022 18:30		11 Apr 2022 10:30	14 Apr 2022 12:56	100
HS22031669-06	CM-4B	30 Mar 2022 18:30		11 Apr 2022 10:30	14 Apr 2022 12:54	2
HS22031669-06	CM-4B	30 Mar 2022 18:30		11 Apr 2022 10:30	13 Apr 2022 23:00	5
HS22031669-07	CM-5A	30 Mar 2022 17:50		11 Apr 2022 10:30	14 Apr 2022 13:00	10
HS22031669-07	CM-5A	30 Mar 2022 17:50		11 Apr 2022 10:30	14 Apr 2022 12:58	1
HS22031669-07	CM-5A	30 Mar 2022 17:50		11 Apr 2022 10:30	13 Apr 2022 23:02	5
HS22031669-08	CM-5B	30 Mar 2022 17:33		11 Apr 2022 10:30	14 Apr 2022 13:24	100
HS22031669-08	CM-5B	30 Mar 2022 17:33		11 Apr 2022 10:30	14 Apr 2022 13:04	10
HS22031669-08	CM-5B	30 Mar 2022 17:33		11 Apr 2022 10:30	14 Apr 2022 13:02	2
HS22031669-08	CM-5B	30 Mar 2022 17:33		11 Apr 2022 10:30	13 Apr 2022 23:04	5
HS22031669-09	MW-15B	30 Mar 2022 14:10		11 Apr 2022 10:30	14 Apr 2022 13:26	100
HS22031669-09	MW-15B	30 Mar 2022 14:10		11 Apr 2022 10:30	14 Apr 2022 19:37	10
HS22031669-09	MW-15B	30 Mar 2022 14:10		11 Apr 2022 10:30	14 Apr 2022 13:20	2
HS22031669-09	MW-15B	30 Mar 2022 14:10		11 Apr 2022 10:30	13 Apr 2022 23:06	5
Batch ID: 177507 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53		12 Apr 2022 08:30	13 Apr 2022 18:23	1
HS22031669-02	MW-22B	29 Mar 2022 18:19		12 Apr 2022 08:30	13 Apr 2022 18:25	1
HS22031669-03	CM-1A	31 Mar 2022 12:38		12 Apr 2022 08:30	13 Apr 2022 18:33	1
HS22031669-04	CM-1B	31 Mar 2022 10:39		12 Apr 2022 08:30	13 Apr 2022 18:35	1
HS22031669-05	CM-4A	30 Mar 2022 18:50		12 Apr 2022 08:30	13 Apr 2022 18:37	1
HS22031669-06	CM-4B	30 Mar 2022 18:30		12 Apr 2022 08:30	13 Apr 2022 18:39	1
HS22031669-07	CM-5A	30 Mar 2022 17:50		12 Apr 2022 08:30	13 Apr 2022 18:41	1
HS22031669-08	CM-5B	30 Mar 2022 17:33		12 Apr 2022 08:30	13 Apr 2022 18:43	1
HS22031669-09	MW-15B	30 Mar 2022 14:10		12 Apr 2022 08:30	13 Apr 2022 18:45	1
HS22031669-10	CM-2	31 Mar 2022 15:55		12 Apr 2022 08:30	13 Apr 2022 18:47	1
HS22031669-11	CM-3B	01 Apr 2022 15:30		12 Apr 2022 08:30	13 Apr 2022 18:49	1

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 177513 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS22031669-10	CM-2	31 Mar 2022 15:55		12 Apr 2022 10:00	15 Apr 2022 12:19	10
HS22031669-10	CM-2	31 Mar 2022 15:55		12 Apr 2022 10:00	14 Apr 2022 22:52	1
HS22031669-11	CM-3B	01 Apr 2022 15:30		12 Apr 2022 10:00	15 Apr 2022 12:21	10
HS22031669-11	CM-3B	01 Apr 2022 15:30		12 Apr 2022 10:00	14 Apr 2022 22:54	1
Batch ID: R405396 (0)		Test Name : FERROUS IRON BY SM3500 FE D			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			31 Mar 2022 16:57	1
HS22031669-02	MW-22B	29 Mar 2022 18:19			31 Mar 2022 16:57	1
Batch ID: R405406 (0)		Test Name : ALKALINITY BY SM 2320B-2011			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			31 Mar 2022 18:06	1
HS22031669-02	MW-22B	29 Mar 2022 18:19			31 Mar 2022 18:13	1
Batch ID: R405459 (0)		Test Name : SPECIFIC CONDUCTANCE BY SM 2510B-2011			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			01 Apr 2022 12:00	1
HS22031669-02	MW-22B	29 Mar 2022 18:19			01 Apr 2022 12:00	1
Batch ID: R405476 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			31 Mar 2022 16:17	1
HS22031669-02	MW-22B	29 Mar 2022 18:19			31 Mar 2022 16:33	5
Batch ID: R405479 (0)		Test Name : SULFIDE BY SM4500 S2-F-2011			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			01 Apr 2022 12:34	1
HS22031669-02	MW-22B	29 Mar 2022 18:19			01 Apr 2022 12:34	1
Batch ID: R405487 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			31 Mar 2022 16:52	1
HS22031669-02	MW-22B	29 Mar 2022 18:19			31 Mar 2022 16:52	1
Batch ID: R405511 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS22031669-03	CM-1A	31 Mar 2022 12:38			01 Apr 2022 13:54	1
HS22031669-04	CM-1B	31 Mar 2022 10:39			01 Apr 2022 13:54	1
HS22031669-05	CM-4A	30 Mar 2022 18:50			01 Apr 2022 13:54	2
HS22031669-06	CM-4B	30 Mar 2022 18:30			01 Apr 2022 13:54	1
HS22031669-07	CM-5A	30 Mar 2022 17:50			01 Apr 2022 13:54	2
HS22031669-08	CM-5B	30 Mar 2022 17:33			01 Apr 2022 13:54	2
HS22031669-09	MW-15B	30 Mar 2022 14:10			01 Apr 2022 13:54	1

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R405513 (0)		Test Name : FERROUS IRON BY SM3500 FE D			Matrix: Water	
HS22031669-03	CM-1A	31 Mar 2022 12:38			01 Apr 2022 13:39	1
HS22031669-04	CM-1B	31 Mar 2022 10:39			01 Apr 2022 13:39	1
HS22031669-05	CM-4A	30 Mar 2022 18:50			01 Apr 2022 13:39	1
HS22031669-06	CM-4B	30 Mar 2022 18:30			01 Apr 2022 13:39	1
HS22031669-07	CM-5A	30 Mar 2022 17:50			01 Apr 2022 13:39	1
HS22031669-08	CM-5B	30 Mar 2022 17:33			01 Apr 2022 13:39	1
HS22031669-09	MW-15B	30 Mar 2022 14:10			01 Apr 2022 13:39	1
Batch ID: R405587 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS22031669-03	CM-1A	31 Mar 2022 12:38			01 Apr 2022 13:14	5
HS22031669-04	CM-1B	31 Mar 2022 10:39			01 Apr 2022 13:29	5
HS22031669-05	CM-4A	30 Mar 2022 18:50			01 Apr 2022 13:03	5
HS22031669-06	CM-4B	30 Mar 2022 18:30			01 Apr 2022 13:08	5
HS22031669-07	CM-5A	30 Mar 2022 17:50			01 Apr 2022 12:58	5
HS22031669-08	CM-5B	30 Mar 2022 17:33			01 Apr 2022 12:26	5
HS22031669-09	MW-15B	30 Mar 2022 14:10			01 Apr 2022 12:21	5
Batch ID: R405597 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS22031669-10	CM-2	31 Mar 2022 15:55			02 Apr 2022 12:32	1
HS22031669-11	CM-3B	01 Apr 2022 15:30			02 Apr 2022 12:47	50
Batch ID: R405613 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS22031669-11	CM-3B	01 Apr 2022 15:30			04 Apr 2022 15:41	50
Batch ID: R405615 (0)		Test Name : FERROUS IRON BY SM3500 FE B			Matrix: Water	
HS22031669-10	CM-2	31 Mar 2022 15:55			02 Apr 2022 13:40	1
HS22031669-11	CM-3B	01 Apr 2022 15:30			02 Apr 2022 13:40	1
Batch ID: R405619 (0)		Test Name : FERROUS IRON BY SM3500 FE D			Matrix: Water	
HS22031669-10	CM-2	31 Mar 2022 15:55			02 Apr 2022 14:00	1
HS22031669-11	CM-3B	01 Apr 2022 15:30			02 Apr 2022 14:00	1
Batch ID: R405721 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			04 Apr 2022 15:46	1
HS22031669-02	MW-22B	29 Mar 2022 18:19			04 Apr 2022 15:46	1
HS22031669-05	CM-4A	30 Mar 2022 18:50			04 Apr 2022 15:46	1
HS22031669-06	CM-4B	30 Mar 2022 18:30			04 Apr 2022 15:46	1
Batch ID: R405806 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			06 Apr 2022 14:00	1
HS22031669-02	MW-22B	29 Mar 2022 18:19			06 Apr 2022 14:00	1

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R405818 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS22031669-03	CM-1A	31 Mar 2022 12:38			05 Apr 2022 15:25	1
HS22031669-04	CM-1B	31 Mar 2022 10:39			05 Apr 2022 15:25	1
HS22031669-07	CM-5A	30 Mar 2022 17:50			05 Apr 2022 15:25	1
HS22031669-08	CM-5B	30 Mar 2022 17:33			05 Apr 2022 15:25	1
HS22031669-09	MW-15B	30 Mar 2022 14:10			05 Apr 2022 15:25	1
HS22031669-10	CM-2	31 Mar 2022 15:55			05 Apr 2022 15:25	1
Batch ID: R405864 (0)		Test Name : SPECIFIC CONDUCTANCE BY SM 2510B-2011			Matrix: Water	
HS22031669-03	CM-1A	31 Mar 2022 12:38			07 Apr 2022 10:00	1
HS22031669-04	CM-1B	31 Mar 2022 10:39			07 Apr 2022 10:00	1
HS22031669-05	CM-4A	30 Mar 2022 18:50			07 Apr 2022 10:00	1
HS22031669-06	CM-4B	30 Mar 2022 18:30			07 Apr 2022 10:00	1
HS22031669-07	CM-5A	30 Mar 2022 17:50			07 Apr 2022 10:00	1
HS22031669-08	CM-5B	30 Mar 2022 17:33			07 Apr 2022 10:00	1
HS22031669-09	MW-15B	30 Mar 2022 14:10			07 Apr 2022 10:00	1
HS22031669-10	CM-2	31 Mar 2022 15:55			07 Apr 2022 10:00	1
HS22031669-11	CM-3B	01 Apr 2022 15:30			07 Apr 2022 10:00	1
Batch ID: R406135 (0)		Test Name : SULFIDE BY SM4500 S2-F-2011			Matrix: Water	
HS22031669-03	CM-1A	31 Mar 2022 12:38			06 Apr 2022 17:00	1
HS22031669-04	CM-1B	31 Mar 2022 10:39			06 Apr 2022 17:00	1
HS22031669-05	CM-4A	30 Mar 2022 18:50			06 Apr 2022 17:00	1
HS22031669-06	CM-4B	30 Mar 2022 18:30			06 Apr 2022 17:00	1
HS22031669-07	CM-5A	30 Mar 2022 17:50			06 Apr 2022 17:00	1
HS22031669-08	CM-5B	30 Mar 2022 17:33			06 Apr 2022 17:00	1
HS22031669-09	MW-15B	30 Mar 2022 14:10			06 Apr 2022 17:00	1
HS22031669-10	CM-2	31 Mar 2022 15:55			06 Apr 2022 17:00	1
Batch ID: R406177 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS22031669-11	CM-3B	01 Apr 2022 15:30			08 Apr 2022 14:43	1
Batch ID: R406334 (0)		Test Name : ALKALINITY BY SM 2320B-2011			Matrix: Water	
HS22031669-03	CM-1A	31 Mar 2022 12:38			12 Apr 2022 15:00	1
HS22031669-04	CM-1B	31 Mar 2022 10:39			12 Apr 2022 14:37	1
HS22031669-05	CM-4A	30 Mar 2022 18:50			12 Apr 2022 14:22	1
HS22031669-06	CM-4B	30 Mar 2022 18:30			12 Apr 2022 14:30	1
HS22031669-07	CM-5A	30 Mar 2022 17:50			12 Apr 2022 15:08	1
HS22031669-08	CM-5B	30 Mar 2022 17:33			12 Apr 2022 15:15	1
HS22031669-09	MW-15B	30 Mar 2022 14:10			12 Apr 2022 15:23	1
HS22031669-10	CM-2	31 Mar 2022 15:55			12 Apr 2022 15:30	1
HS22031669-11	CM-3B	01 Apr 2022 15:30			12 Apr 2022 15:38	1

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R406347 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			12 Apr 2022 19:28	20
HS22031669-02	MW-22B	29 Mar 2022 18:19			12 Apr 2022 19:06	50
HS22031669-09	MW-15B	30 Mar 2022 14:10			12 Apr 2022 19:49	50
Batch ID: R406349 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS22031669-03	CM-1A	31 Mar 2022 12:38			12 Apr 2022 20:47	50
HS22031669-04	CM-1B	31 Mar 2022 10:39			12 Apr 2022 20:36	50
HS22031669-05	CM-4A	30 Mar 2022 18:50			12 Apr 2022 20:15	50
HS22031669-06	CM-4B	30 Mar 2022 18:30			12 Apr 2022 20:10	50
HS22031669-07	CM-5A	30 Mar 2022 17:50			12 Apr 2022 20:05	50
HS22031669-08	CM-5B	30 Mar 2022 17:33			12 Apr 2022 19:59	50
HS22031669-10	CM-2	31 Mar 2022 15:55			12 Apr 2022 20:57	20
Batch ID: R406352 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS22031669-11	CM-3B	01 Apr 2022 15:30			12 Apr 2022 23:31	5
Batch ID: R406522 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS22031669-03	CM-1A	31 Mar 2022 12:38			14 Apr 2022 14:15	1
HS22031669-04	CM-1B	31 Mar 2022 10:39			14 Apr 2022 14:15	1
HS22031669-05	CM-4A	30 Mar 2022 18:50			14 Apr 2022 14:15	1
HS22031669-06	CM-4B	30 Mar 2022 18:30			14 Apr 2022 14:15	1
HS22031669-07	CM-5A	30 Mar 2022 17:50			14 Apr 2022 14:15	1
HS22031669-08	CM-5B	30 Mar 2022 17:33			14 Apr 2022 14:15	1
Batch ID: R406523 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS22031669-09	MW-15B	30 Mar 2022 14:10			14 Apr 2022 14:35	1
HS22031669-10	CM-2	31 Mar 2022 15:55			14 Apr 2022 14:35	1
HS22031669-11	CM-3B	01 Apr 2022 15:30			14 Apr 2022 14:35	1
Batch ID: R406625 (0)		Test Name : FERRIC IRON - BY CALCULATION BY SM3500FED			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			15 Apr 2022 14:36	1
HS22031669-02	MW-22B	29 Mar 2022 18:19			15 Apr 2022 14:36	1
HS22031669-03	CM-1A	31 Mar 2022 12:38			15 Apr 2022 14:36	1
HS22031669-04	CM-1B	31 Mar 2022 10:39			15 Apr 2022 14:36	1
HS22031669-05	CM-4A	30 Mar 2022 18:50			15 Apr 2022 14:36	1
HS22031669-06	CM-4B	30 Mar 2022 18:30			15 Apr 2022 14:36	1
HS22031669-07	CM-5A	30 Mar 2022 17:50			15 Apr 2022 14:36	1
HS22031669-08	CM-5B	30 Mar 2022 17:33			15 Apr 2022 14:36	1
HS22031669-09	MW-15B	30 Mar 2022 14:10			15 Apr 2022 14:36	1
HS22031669-10	CM-2	31 Mar 2022 15:55			15 Apr 2022 14:36	1
HS22031669-11	CM-3B	01 Apr 2022 15:30			15 Apr 2022 14:36	1

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R406626 (0)		Test Name : FERRIC IRON (DISS)- BY CALCULATION BY SM3500FED			Matrix: Water	
HS22031669-01	CM-3A	29 Mar 2022 18:53			15 Apr 2022 14:39	1
HS22031669-02	MW-22B	29 Mar 2022 18:19			15 Apr 2022 14:39	1
HS22031669-03	CM-1A	31 Mar 2022 12:38			15 Apr 2022 14:39	1
HS22031669-04	CM-1B	31 Mar 2022 10:39			15 Apr 2022 14:39	1
HS22031669-05	CM-4A	30 Mar 2022 18:50			15 Apr 2022 14:39	1
HS22031669-06	CM-4B	30 Mar 2022 18:30			15 Apr 2022 14:39	1
HS22031669-07	CM-5A	30 Mar 2022 17:50			15 Apr 2022 14:39	1
HS22031669-08	CM-5B	30 Mar 2022 17:33			15 Apr 2022 14:39	1
HS22031669-09	MW-15B	30 Mar 2022 14:10			15 Apr 2022 14:39	1
HS22031669-10	CM-2	31 Mar 2022 15:55			15 Apr 2022 14:39	1
HS22031669-11	CM-3B	01 Apr 2022 15:30			15 Apr 2022 14:39	1

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: 177457 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A
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MBLK		Sample ID: MBLK-177457			Units: mg/L		Analysis Date: 13-Apr-2022 21:12			
Client ID:		Run ID: ICPMS06_406386			SeqNo: 6597408		PrepDate: 11-Apr-2022		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-177457			Units: mg/L		Analysis Date: 13-Apr-2022 21:14			
Client ID:		Run ID: ICPMS06_406386			SeqNo: 6597409		PrepDate: 11-Apr-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.5281	0.0200	0.5	0	106	80 - 120				
Calcium	5.348	0.500	5	0	107	80 - 120				
Iron	5.309	0.200	5	0	106	80 - 120				
Magnesium	5.582	0.200	5	0	112	80 - 120				
Molybdenum	0.05326	0.00500	0.05	0	107	80 - 120				
Potassium	5.508	0.200	5	0	110	80 - 120				
Sodium	5.369	0.200	5	0	107	80 - 120				

MS		Sample ID: HS22031652-01MS			Units: mg/L		Analysis Date: 13-Apr-2022 21:20			
Client ID:		Run ID: ICPMS06_406386			SeqNo: 6597412		PrepDate: 11-Apr-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.6612	0.0200	0.5	0.1005	112	80 - 120				
Calcium	123.9	0.500	5	115.5	166	80 - 120				SO
Iron	5.575	0.200	5	0.3853	104	80 - 120				
Magnesium	52.76	0.200	5	45.58	144	80 - 120				SO
Molybdenum	0.05641	0.00500	0.05	0.002323	108	80 - 120				
Potassium	7.809	0.200	5	2.401	108	80 - 120				
Sodium	173.8	0.200	5	162.8	219	80 - 120				SO

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: 177457 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A
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MSD		Sample ID: HS22031652-01MSD			Units: mg/L		Analysis Date: 13-Apr-2022 21:22			
Client ID:		Run ID: ICPMS06_406386			SeqNo: 6597413		PrepDate: 11-Apr-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.6602	0.0200	0.5	0.1005	112	80 - 120	0.6612	0.153	20	
Calcium	122.4	0.500	5	115.5	138	80 - 120	123.9	1.16	20	SO
Iron	5.559	0.200	5	0.3853	103	80 - 120	5.575	0.299	20	
Magnesium	52.08	0.200	5	45.58	130	80 - 120	52.76	1.3	20	SO
Molybdenum	0.05543	0.00500	0.05	0.002323	106	80 - 120	0.05641	1.75	20	
Potassium	7.593	0.200	5	2.401	104	80 - 120	7.809	2.79	20	
Sodium	171.4	0.200	5	162.8	172	80 - 120	173.8	1.36	20	SO

PDS		Sample ID: HS22031652-01PDS			Units: mg/L		Analysis Date: 13-Apr-2022 21:24			
Client ID:		Run ID: ICPMS06_406386			SeqNo: 6597415		PrepDate: 11-Apr-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.6407	0.0200	0.5	0.1005	108	75 - 125				
Calcium	122.9	0.500	10	115.5	73.8	75 - 125				SO
Iron	10.48	0.200	10	0.3853	101	75 - 125				
Magnesium	55.04	0.200	10	45.58	94.6	75 - 125				O
Molybdenum	0.1097	0.00500	0.1	0.002323	107	75 - 125				
Potassium	12.48	0.200	10	2.401	101	75 - 125				
Sodium	169.7	0.200	10	162.8	68.3	75 - 125				SO

SD		Sample ID: HS22031652-01SD			Units: mg/L		Analysis Date: 13-Apr-2022 21:18			
Client ID:		Run ID: ICPMS06_406386			SeqNo: 6597411		PrepDate: 11-Apr-2022		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Calcium	121.2	2.50					115.5	4.9	10	
Iron	0.3964	1.00					0.3853	0	10	J
Magnesium	47.35	1.00					45.58	3.88	10	
Molybdenum	U	0.0250					0.002323	0	10	
Potassium	2.324	1.00					2.401	3.18	10	
Sodium	167.7	1.00					162.8	2.99	10	

The following samples were analyzed in this batch:

HS22031669-01	HS22031669-02	HS22031669-03	HS22031669-04
HS22031669-05	HS22031669-06	HS22031669-07	HS22031669-08
HS22031669-09			

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: 177507 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLKF1-177507	Units: mg/L			Analysis Date: 13-Apr-2022 17:59				
Client ID:	Run ID: ICPMS06_406386	SeqNo: 6597116		PrepDate: 12-Apr-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron	U	0.200							
Molybdenum	U	0.00500							

MBLK	Sample ID: MBLK-177507	Units: mg/L			Analysis Date: 13-Apr-2022 17:57				
Client ID:	Run ID: ICPMS06_406386	SeqNo: 6597115		PrepDate: 12-Apr-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron	U	0.200							
Molybdenum	U	0.00500							

LCS	Sample ID: LCS-177507	Units: mg/L			Analysis Date: 13-Apr-2022 18:01				
Client ID:	Run ID: ICPMS06_406386	SeqNo: 6597117		PrepDate: 12-Apr-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron	4.906	0.200	5	0	98.1	80 - 120			
Molybdenum	0.04923	0.00500	0.05	0	98.5	80 - 120			

MS	Sample ID: HS22040059-01MS	Units: mg/L			Analysis Date: 13-Apr-2022 18:13				
Client ID:	Run ID: ICPMS06_406386	SeqNo: 6597120		PrepDate: 12-Apr-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron	5.25	0.200	5	0.5514	94.0	75 - 125			
Molybdenum	0.04862	0.00500	0.05	0.000314	96.6	75 - 125			

MSD	Sample ID: HS22040059-01MSD	Units: mg/L			Analysis Date: 13-Apr-2022 18:15				
Client ID:	Run ID: ICPMS06_406386	SeqNo: 6597121		PrepDate: 12-Apr-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron	5.393	0.200	5	0.5514	96.8	75 - 125	5.25	2.68	20
Molybdenum	0.05011	0.00500	0.05	0.000314	99.6	75 - 125	0.04862	3.02	20

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: 177507 (0)	Instrument: ICPMS06	Method: DISSOLVED METALS BY SW6020A (DISSOLVED)							
PDS	Sample ID: HS22040059-01PDS	Units: mg/L	Analysis Date: 13-Apr-2022 18:17						
Client ID:	Run ID: ICPMS06_406386	SeqNo: 6597122	PrepDate: 12-Apr-2022 DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron	10.58	0.200	10	0.5514	100	75 - 125			
Molybdenum	0.1033	0.00500	0.1	0.000314	103	75 - 125			

SD	Sample ID: HS22040059-01SD	Units: mg/L	Analysis Date: 13-Apr-2022 18:11						
Client ID:	Run ID: ICPMS06_406386	SeqNo: 6597119	PrepDate: 12-Apr-2022 DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit Qual

Iron	0.5527	1.00					0.5514	0	10	J
Molybdenum	U	0.0250					0	0	10	

The following samples were analyzed in this batch:

HS22031669-01	HS22031669-02	HS22031669-03	HS22031669-04
HS22031669-05	HS22031669-06	HS22031669-07	HS22031669-08
HS22031669-09	HS22031669-10	HS22031669-11	

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: 177513 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A
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MBLK		Sample ID: MBLK-177513			Units: mg/L		Analysis Date: 14-Apr-2022 22:33			
Client ID:		Run ID: ICPMS06_406486			SeqNo: 6600207		PrepDate: 12-Apr-2022		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	0.08767	0.200								J

LCS		Sample ID: LCS-177513			Units: mg/L		Analysis Date: 14-Apr-2022 22:35			
Client ID:		Run ID: ICPMS06_406486			SeqNo: 6600208		PrepDate: 12-Apr-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.5047	0.0200	0.5	0	101	80 - 120				
Calcium	5.232	0.500	5	0	105	80 - 120				
Iron	5.269	0.200	5	0	105	80 - 120				
Magnesium	5.374	0.200	5	0	107	80 - 120				
Molybdenum	0.04985	0.00500	0.05	0	99.7	80 - 120				
Potassium	5.109	0.200	5	0	102	80 - 120				
Sodium	5.294	0.200	5	0	106	80 - 120				

MS		Sample ID: HS22031676-01MS			Units: mg/L		Analysis Date: 14-Apr-2022 22:40			
Client ID:		Run ID: ICPMS06_406486			SeqNo: 6600211		PrepDate: 12-Apr-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.8413	0.0200	0.5	0.4079	86.7	80 - 120				
Calcium	454.8	0.500	5	460.6	-116	80 - 120				SEO
Iron	5.535	0.200	5	0.4537	102	80 - 120				
Magnesium	98.61	0.200	5	95.08	70.6	80 - 120				SO
Molybdenum	0.05293	0.00500	0.05	0.000621	105	80 - 120				
Potassium	6.649	0.200	5	1.847	96.0	80 - 120				
Sodium	254.8	0.200	5	255.5	-13.5	80 - 120				SEO

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: 177513 (0)		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MSD		Sample ID: HS22031676-01MSD			Units: mg/L		Analysis Date: 14-Apr-2022 22:42			
Client ID:		Run ID: ICPMS06_406486			SeqNo: 6600212		PrepDate: 12-Apr-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.8156	0.0200	0.5	0.4079	81.5	80 - 120	0.8413	3.1	20	
Calcium	470.6	0.500	5	460.6	200	80 - 120	454.8	3.41	20	SEO
Iron	5.752	0.200	5	0.4537	106	80 - 120	5.535	3.85	20	
Magnesium	100.9	0.200	5	95.08	116	80 - 120	98.61	2.29	20	O
Molybdenum	0.05434	0.00500	0.05	0.000621	107	80 - 120	0.05293	2.62	20	
Potassium	6.875	0.200	5	1.847	101	80 - 120	6.649	3.34	20	
Sodium	261.4	0.200	5	255.5	118	80 - 120	254.8	2.55	20	EO
PDS		Sample ID: HS22031676-01PDS			Units: mg/L		Analysis Date: 14-Apr-2022 22:44			
Client ID:		Run ID: ICPMS06_406486			SeqNo: 6600213		PrepDate: 12-Apr-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.8482	0.0200	0.5	0.4079	88.1	75 - 125				
Iron	11.3	0.200	10	0.4537	108	75 - 125				
Magnesium	104.6	0.200	10	95.08	95.1	75 - 125				O
Molybdenum	0.1112	0.00500	0.1	0.000621	111	75 - 125				
Potassium	12.21	0.200	10	1.847	104	75 - 125				
PDS		Sample ID: HS22031676-01PDS			Units: mg/L		Analysis Date: 15-Apr-2022 12:17			
Client ID:		Run ID: ICPMS06_406582			SeqNo: 6601824		PrepDate: 12-Apr-2022		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	1011	25.0	500	504.6	101	75 - 125				
Sodium	831.1	10.0	500	281.4	110	75 - 125				
SD		Sample ID: HS22031676-01SD			Units: mg/L		Analysis Date: 14-Apr-2022 22:38			
Client ID:		Run ID: ICPMS06_406486			SeqNo: 6600210		PrepDate: 12-Apr-2022		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Boron	0.4126	0.100					0.4079	1.16	10	
Iron	0.4536	1.00					0.4537	0	10	J
Magnesium	96.89	1.00					95.08	1.9	10	
Molybdenum	U	0.0250					0.000621	0	10	
Potassium	1.874	1.00					1.847	1.44	10	

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: 177513 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

SD	Sample ID: HS22031676-01SD	Units: mg/L			Analysis Date: 15-Apr-2022 12:15				
Client ID:	Run ID: ICPMS06_406582	SeqNo: 6601823	PrepDate: 12-Apr-2022	DF: 250					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual
Calcium	493	125					504.6	2.29	10
Sodium	301.6	50.0					281.4	7.18	10

The following samples were analyzed in this batch: HS22031669-10 HS22031669-11

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405396 (0) **Instrument:** UV-2450 **Method:** FERROUS IRON BY SM3500 FE D (DISSOLVED)

MBLK Sample ID: **MBLK-R405396** Units: **mg/L** Analysis Date: **31-Mar-2022 16:57**
 Client ID: Run ID: **UV-2450_405396** SeqNo: **6572872** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Ferrous Iron, Dissolved U 0.0500

LCS Sample ID: **LCS-R405396** Units: **mg/L** Analysis Date: **31-Mar-2022 16:57**
 Client ID: Run ID: **UV-2450_405396** SeqNo: **6572871** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Ferrous Iron, Dissolved 0.242 0.0500 0.25 0 96.8 80 - 120

MS Sample ID: **HS22031669-02MS** Units: **mg/L** Analysis Date: **31-Mar-2022 16:57**
 Client ID: **MW-22B** Run ID: **UV-2450_405396** SeqNo: **6572874** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Ferrous Iron, Dissolved 0.261 0.0500 0.25 0.002 104 80 - 120

MSD Sample ID: **HS22031669-02MSD** Units: **mg/L** Analysis Date: **31-Mar-2022 16:57**
 Client ID: **MW-22B** Run ID: **UV-2450_405396** SeqNo: **6572873** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Ferrous Iron, Dissolved 0.258 0.0500 0.25 0.002 102 80 - 120 0.261 1.16 20

The following samples were analyzed in this batch: HS22031669-01 HS22031669-02

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405406 (0)	Instrument: ManTech01	Method: ALKALINITY BY SM 2320B-2011
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MBLK	Sample ID: WBLKW1-220331	Units: mg/L	Analysis Date: 31-Mar-2022 17:21							
Client ID:	Run ID: ManTech01_405406	SeqNo: 6573225	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: LCS1-220331	Units: mg/L	Analysis Date: 31-Mar-2022 17:29							
Client ID:	Run ID: ManTech01_405406	SeqNo: 6573226	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)	985.4	5.00	1000	0	98.5	85 - 115				
Alkalinity, Total (As CaCO3)	1021	5.00	1000	0	102	85 - 115				

LCSD	Sample ID: LCSD1-220331	Units: mg/L	Analysis Date: 31-Mar-2022 17:38							
Client ID:	Run ID: ManTech01_405406	SeqNo: 6573227	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)	967.7	5.00	1000	0	96.8	85 - 115	985.4	1.81	20	
Alkalinity, Total (As CaCO3)	1002	5.00	1000	0	100	85 - 115	1021	1.86	20	

DUP	Sample ID: HS22031666-02DUP	Units: mg/L	Analysis Date: 31-Mar-2022 17:51							
Client ID:	Run ID: ManTech01_405406	SeqNo: 6573229	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)	129.8	5.00					128.7	0.874	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)	129.8	5.00					128.7	0.874	20	

The following samples were analyzed in this batch:

HS22031669-01	HS22031669-02
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Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405459 (0) **Instrument:** WetChem_HS **Method:** SPECIFIC CONDUCTANCE BY SM 2510B-2011

MBLK Sample ID: **MBLK-R405459** Units: **umhos/cm @ 25.0 °C** Analysis Date: **01-Apr-2022 12:00**
 Client ID: Run ID: **WetChem_HS_405459** SeqNo: **6574124** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Specific Conductivity U 5.00

LCS Sample ID: **LCS-R405459** Units: **umhos/cm @ 25.0 °C** Analysis Date: **01-Apr-2022 12:00**
 Client ID: Run ID: **WetChem_HS_405459** SeqNo: **6574123** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Specific Conductivity 1484 5.00 1413 0 105 80 - 120

DUP Sample ID: **HS22031691-01DUP** Units: **umhos/cm @ 25.0 °C** Analysis Date: **01-Apr-2022 12:00**
 Client ID: Run ID: **WetChem_HS_405459** SeqNo: **6574125** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Specific Conductivity 1278 5.00 1292 1.09 20

The following samples were analyzed in this batch:

HS22031669-01	HS22031669-02
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Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405476 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 31-Mar-2022 10:29					
Client ID:		Run ID: ICS-Integrion_405476		SeqNo: 6574451		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: 31-Mar-2022 10:34					
Client ID:		Run ID: ICS-Integrion_405476		SeqNo: 6574452		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	18.83	0.500	20	0	94.2	90 - 110				
Fluoride	4.286	0.100	4	0	107	90 - 110				
Nitrogen, Nitrate (As N)	3.719	0.100	4	0	93.0	90 - 110				
MS	Sample ID: HS22031669-01MS	Units: mg/L			Analysis Date: 31-Mar-2022 16:22					
Client ID: CM-3A		Run ID: ICS-Integrion_405476		SeqNo: 6574482		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	46.55	0.500	10	37.04	95.1	80 - 120				
Fluoride	3.182	0.100	2	0.8696	116	80 - 120				
Nitrogen, Nitrate (As N)	18.44	0.100	2	17.13	65.7	80 - 120			SO	
MS	Sample ID: HS22031619-02MS	Units: mg/L			Analysis Date: 31-Mar-2022 10:45					
Client ID:		Run ID: ICS-Integrion_405476		SeqNo: 6574454		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	1052	50.0	1000	22.1	103	80 - 120				
Fluoride	295	10.0	200	0	148	80 - 120			S	
Nitrogen, Nitrate (As N)	938.9	10.0	200	761	88.9	80 - 120				

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405476 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MSD		Sample ID: HS22031669-01MSD		Units: mg/L		Analysis Date: 31-Mar-2022 16:27				
Client ID: CM-3A		Run ID: ICS-Integrion_405476		SeqNo: 6574483		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	46.62	0.500	10	37.04	95.8	80 - 120	46.55	0.146	20	
Fluoride	3.072	0.100	2	0.8696	110	80 - 120	3.182	3.53	20	
Nitrogen, Nitrate (As N)	18.45	0.100	2	17.13	66.1	80 - 120	18.44	0.0445	20	SO

MSD		Sample ID: HS22031619-02MSD		Units: mg/L		Analysis Date: 31-Mar-2022 10:50				
Client ID:		Run ID: ICS-Integrion_405476		SeqNo: 6574455		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1046	50.0	1000	22.1	102	80 - 120	1052	0.553	20	
Fluoride	288.6	10.0	200	0	144	80 - 120	295	2.19	20	S
Nitrogen, Nitrate (As N)	939.5	10.0	200	761	89.2	80 - 120	938.9	0.0703	20	

The following samples were analyzed in this batch: HS22031669-01 HS22031669-02

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405479 (0)	Instrument: WetChem_HS	Method: SULFIDE BY SM4500 S2-F-2011
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MBLK	Sample ID: MBLK-R405479	Units: mg/L	Analysis Date: 01-Apr-2022 12:34							
Client ID:	Run ID: WetChem_HS_405479	SeqNo: 6574587	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-R405479	Units: mg/L	Analysis Date: 01-Apr-2022 12:34							
Client ID:	Run ID: WetChem_HS_405479	SeqNo: 6574586	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 22.28 1.00 25 0 89.1 85 - 115

LCSD	Sample ID: LCSD-R405479	Units: mg/L	Analysis Date: 01-Apr-2022 12:34							
Client ID:	Run ID: WetChem_HS_405479	SeqNo: 6574585	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 22.48 1.00 25 0 89.9 85 - 115 22.28 0.894 20

MS	Sample ID: HS22031561-04MS	Units: mg/L	Analysis Date: 01-Apr-2022 12:34							
Client ID:	Run ID: WetChem_HS_405479	SeqNo: 6574588	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 21.88 1.00 25 -1.72 94.4 80 - 120

The following samples were analyzed in this batch: HS22031669-01 HS22031669-02

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405487 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE B						
MBLK	Sample ID: MBLK-R405487	Units: mg/L		Analysis Date: 31-Mar-2022 16:52						
Client ID:		Run ID: UV-2450_405487		SeqNo: 6574730	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-R405487	Units: mg/L		Analysis Date: 31-Mar-2022 16:52						
Client ID:		Run ID: UV-2450_405487		SeqNo: 6574729	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	98.0	80 - 120				
MS	Sample ID: HS22031669-02MS	Units: mg/L		Analysis Date: 31-Mar-2022 16:52						
Client ID: MW-22B		Run ID: UV-2450_405487		SeqNo: 6574732	PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Ferrous Iron	1.872	0.0500	0.25	1.656	86.4	75 - 125			O	
MSD	Sample ID: HS22031669-02MSD	Units: mg/L		Analysis Date: 31-Mar-2022 16:52						
Client ID: MW-22B		Run ID: UV-2450_405487		SeqNo: 6574731	PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Ferrous Iron	1.871	0.0500	0.25	1.656	86.0	75 - 125	1.872	0.0534	20 O	

The following samples were analyzed in this batch: HS22031669-01 HS22031669-02

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405511 (0) **Instrument:** UV-2450 **Method:** FERROUS IRON BY SM3500 FE B

MBLK	Sample ID: MBLK-R405511	Units: mg/L			Analysis Date: 01-Apr-2022 12:05				
Client ID:	Run ID: UV-2450_405511	SeqNo: 6575222	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-R405511	Units: mg/L			Analysis Date: 01-Apr-2022 12:05				
Client ID:	Run ID: UV-2450_405511	SeqNo: 6575221	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron 0.252 0.0500 0.25 0 101 80 - 120

MS	Sample ID: HS22040016-01MS	Units: mg/L			Analysis Date: 01-Apr-2022 12:05				
Client ID:	Run ID: UV-2450_405511	SeqNo: 6575210	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron 0.377 0.0500 0.25 0.13 98.8 75 - 125

MSD	Sample ID: HS22040016-01MSD	Units: mg/L			Analysis Date: 01-Apr-2022 12:05				
Client ID:	Run ID: UV-2450_405511	SeqNo: 6575209	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Ferrous Iron 0.376 0.0500 0.25 0.13 98.4 75 - 125 0.377 0.266 20

The following samples were analyzed in this batch: HS22031669-03 HS22031669-04 HS22031669-05 HS22031669-06
 HS22031669-07 HS22031669-08 HS22031669-09

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405513 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE D (DISSOLVED)					
MBLK	Sample ID: MBLK-R405513	Units: mg/L		Analysis Date: 01-Apr-2022 12:08					
Client ID:	Run ID: UV-2450_405513	SeqNo: 6575259		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron, Dissolved U 0.0500

LCS		Sample ID: LCS-R405513		Units: mg/L		Analysis Date: 01-Apr-2022 12:08			
Client ID:	Run ID: UV-2450_405513	SeqNo: 6575258		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron, Dissolved 0.254 0.0500 0.25 0 102 80 - 120

MS		Sample ID: HS22040016-01MS		Units: mg/L		Analysis Date: 01-Apr-2022 12:08			
Client ID:	Run ID: UV-2450_405513	SeqNo: 6575248		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron, Dissolved 0.391 0.0500 0.25 0.142 99.6 80 - 120

MSD		Sample ID: HS22040016-01MSD		Units: mg/L		Analysis Date: 01-Apr-2022 12:08			
Client ID:	Run ID: UV-2450_405513	SeqNo: 6575247		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron, Dissolved 0.386 0.0500 0.25 0.142 97.6 80 - 120 0.391 1.29 20

The following samples were analyzed in this batch: HS22031669-03 HS22031669-04 HS22031669-05 HS22031669-06
 HS22031669-07 HS22031669-08 HS22031669-09

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405587 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 01-Apr-2022 14:12					
Client ID:		Run ID: ICS-Integrion_405587		SeqNo: 6577115		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: 01-Apr-2022 14:17					
Client ID:		Run ID: ICS-Integrion_405587		SeqNo: 6577116		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	18.81	0.500	20	0	94.1	90 - 110				
Fluoride	4.258	0.100	4	0	106	90 - 110				
Nitrogen, Nitrate (As N)	3.704	0.100	4	0	92.6	90 - 110				
MS	Sample ID: HS22031669-03MS	Units: mg/L			Analysis Date: 01-Apr-2022 13:19					
Client ID: CM-1A		Run ID: ICS-Integrion_405587		SeqNo: 6577108		PrepDate:		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	76.29	2.50	50	26.4	99.8	80 - 120				
Fluoride	11.4	0.500	10	0.39	110	80 - 120				
Nitrogen, Nitrate (As N)	10.15	0.500	10	0.2935	98.5	80 - 120				
MS	Sample ID: HS22031619-07MS	Units: mg/L			Analysis Date: 01-Apr-2022 11:40					
Client ID:		Run ID: ICS-Integrion_405587		SeqNo: 6577093		PrepDate:		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	516.3	25.0	500	9.05	101	80 - 120				
Fluoride	120.9	5.00	100	0.74	120	80 - 120			S	
Nitrogen, Nitrate (As N)	308.9	5.00	100	234.5	74.4	80 - 120			S	

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405587 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MSD		Sample ID: HS22031669-03MSD		Units: mg/L		Analysis Date: 01-Apr-2022 13:24			
Client ID: CM-1A		Run ID: ICS-Integrion_405587		SeqNo: 6577109		PrepDate:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	76.12	2.50	50	26.4	99.4	80 - 120	76.29	0.223	20
Fluoride	11.92	0.500	10	0.39	115	80 - 120	11.4	4.47	20
Nitrogen, Nitrate (As N)	10.11	0.500	10	0.2935	98.1	80 - 120	10.15	0.39	20

MSD		Sample ID: HS22031619-07MSD		Units: mg/L		Analysis Date: 01-Apr-2022 11:46			
Client ID:		Run ID: ICS-Integrion_405587		SeqNo: 6577094		PrepDate:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	514.4	25.0	500	9.05	101	80 - 120	516.3	0.359	20
Fluoride	109.7	5.00	100	0.74	109	80 - 120	120.9	9.69	20
Nitrogen, Nitrate (As N)	307.4	5.00	100	234.5	72.9	80 - 120	308.9	0.482	20 S

The following samples were analyzed in this batch:

HS22031669-03	HS22031669-04	HS22031669-05	HS22031669-06
HS22031669-07	HS22031669-08	HS22031669-09	

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405597 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MBLK		Sample ID: MBLK		Units: mg/L		Analysis Date: 02-Apr-2022 12:21			
Client ID:		Run ID: ICS-Integrion_405597		SeqNo: 6577340		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: 02-Apr-2022 12:26			
Client ID:		Run ID: ICS-Integrion_405597		SeqNo: 6577341		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	18.94	0.500	20	0	94.7	90 - 110			
Fluoride	4.286	0.100	4	0	107	90 - 110			
Nitrogen, Nitrate (As N)	3.738	0.100	4	0	93.5	90 - 110			

MS		Sample ID: HS22040016-11MS		Units: mg/L		Analysis Date: 02-Apr-2022 14:33			
Client ID:		Run ID: ICS-Integrion_405597		SeqNo: 6577359		PrepDate:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	35.33	1.00	20	14.58	104	80 - 120			
Fluoride	6	0.200	4	1.66	109	80 - 120			
Nitrogen, Nitrate (As N)	4.22	0.200	4	0.1016	103	80 - 120			

MS		Sample ID: HS22031669-10MS		Units: mg/L		Analysis Date: 02-Apr-2022 12:37			
Client ID: CM-2		Run ID: ICS-Integrion_405597		SeqNo: 6577343		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	12.74	0.500	10	2.871	98.7	80 - 120			
Fluoride	2.756	0.100	2	0.506	112	80 - 120			
Nitrogen, Nitrate (As N)	2.169	0.100	2	0.2562	95.6	80 - 120			

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405597 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MSD		Sample ID: HS22040016-11MSD		Units: mg/L		Analysis Date: 02-Apr-2022 14:38			
Client ID:		Run ID: ICS-Integrion_405597		SeqNo: 6577360		PrepDate:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	34.98	1.00	20	14.58	102	80 - 120	35.33	0.973	20
Fluoride	5.888	0.200	4	1.66	106	80 - 120	6	1.89	20
Nitrogen, Nitrate (As N)	4.176	0.200	4	0.1016	102	80 - 120	4.22	1.06	20

MSD		Sample ID: HS22031669-10MSD		Units: mg/L		Analysis Date: 02-Apr-2022 12:42			
Client ID: CM-2		Run ID: ICS-Integrion_405597		SeqNo: 6577344		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	12.98	0.500	10	2.871	101	80 - 120	12.74	1.84	20
Fluoride	2.795	0.100	2	0.506	114	80 - 120	2.756	1.44	20
Nitrogen, Nitrate (As N)	2.211	0.100	2	0.2562	97.7	80 - 120	2.169	1.91	20

The following samples were analyzed in this batch: HS22031669-10 HS22031669-11

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405613 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 04-Apr-2022 11:08					
Client ID:		Run ID: ICS-Integrion_405613		SeqNo: 6577731		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: 04-Apr-2022 11:14					
Client ID:		Run ID: ICS-Integrion_405613		SeqNo: 6577732		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	18.53	0.500	20	0	92.7	90 - 110				
MS	Sample ID: HS22040120-01MS	Units: mg/L			Analysis Date: 04-Apr-2022 12:51					
Client ID:		Run ID: ICS-Integrion_405613		SeqNo: 6577738		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	150.2	0.500	10	143.5	66.7	80 - 120			SEO	
MS	Sample ID: HS22031336-03MS	Units: mg/L			Analysis Date: 04-Apr-2022 19:54					
Client ID:		Run ID: ICS-Integrion_405613		SeqNo: 6578928		PrepDate:		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	1153	25.0	500	701.7	90.2	80 - 120				
MSD	Sample ID: HS22040120-01MSD	Units: mg/L			Analysis Date: 04-Apr-2022 12:56					
Client ID:		Run ID: ICS-Integrion_405613		SeqNo: 6577739		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	150.3	0.500	10	143.5	67.3	80 - 120	150.2	0.0421	20 SEO	
MSD	Sample ID: HS22031336-03MSD	Units: mg/L			Analysis Date: 04-Apr-2022 19:59					
Client ID:		Run ID: ICS-Integrion_405613		SeqNo: 6578929		PrepDate:		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	1149	25.0	500	701.7	89.5	80 - 120	1153	0.292	20	

The following samples were analyzed in this batch: HS22031669-11

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405615 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE B					
MBLK	Sample ID: MBLK-R405615	Units: mg/L		Analysis Date: 02-Apr-2022 13:08					
Client ID:	Run ID: UV-2450_405615	SeqNo: 6577826		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-R405615	Units: mg/L		Analysis Date: 02-Apr-2022 13:08					
Client ID:	Run ID: UV-2450_405615	SeqNo: 6577825		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.256 0.0500 0.25 0 102 80 - 120

MS	Sample ID: HS22040016-11MS	Units: mg/L		Analysis Date: 02-Apr-2022 13:08					
Client ID:	Run ID: UV-2450_405615	SeqNo: 6577804		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.276 0.0500 0.25 0.03 98.4 75 - 125

MSD	Sample ID: HS22040016-11MSD	Units: mg/L		Analysis Date: 02-Apr-2022 13:08					
Client ID:	Run ID: UV-2450_405615	SeqNo: 6577803		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron 0.278 0.0500 0.25 0.03 99.2 75 - 125 0.276 0.722 20

The following samples were analyzed in this batch: HS22031669-10 HS22031669-11

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405619 (0)		Instrument: UV-2450		Method: FERROUS IRON BY SM3500 FE D (DISSOLVED)					
MBLK	Sample ID: MBLK-R405619	Units: mg/L		Analysis Date: 02-Apr-2022 13:14					
Client ID:	Run ID: UV-2450_405619	SeqNo: 6577938		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron, Dissolved U 0.0500

LCS		Sample ID: LCS-R405619		Units: mg/L		Analysis Date: 02-Apr-2022 13:14			
Client ID:	Run ID: UV-2450_405619	SeqNo: 6577937		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron, Dissolved 0.259 0.0500 0.25 0 104 80 - 120

MS		Sample ID: HS22040016-11MS		Units: mg/L		Analysis Date: 02-Apr-2022 13:14			
Client ID:	Run ID: UV-2450_405619	SeqNo: 6577928		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron, Dissolved 0.28 0.0500 0.25 0.029 100 80 - 120

MSD		Sample ID: HS22040016-11MSD		Units: mg/L		Analysis Date: 02-Apr-2022 13:14			
Client ID:	Run ID: UV-2450_405619	SeqNo: 6577927		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Ferrous Iron, Dissolved 0.271 0.0500 0.25 0.029 96.8 80 - 120 0.28 3.27 20

The following samples were analyzed in this batch: HS22031669-10 HS22031669-11

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405721 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK	Sample ID: WBLK-040422	Units: mg/L			Analysis Date: 04-Apr-2022 15:46					
Client ID:	Run ID: Balance1_405721	SeqNo: 6580134	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-040422	Units: mg/L			Analysis Date: 04-Apr-2022 15:46					
Client ID:	Run ID: Balance1_405721	SeqNo: 6580135	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) 1058 10.0 1000 0 106 85 - 115

DUP	Sample ID: HS22031669-06DUP	Units: mg/L			Analysis Date: 04-Apr-2022 15:46					
Client ID: CM-4B	Run ID: Balance1_405721	SeqNo: 6580127	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) 3290 10.0 3310 0.606 5

DUP	Sample ID: HS22031635-01DUP	Units: mg/L			Analysis Date: 04-Apr-2022 15:46					
Client ID:	Run ID: Balance1_405721	SeqNo: 6580122	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) 1568 10.0 1552 1.03 5

The following samples were analyzed in this batch: HS22031669-01 HS22031669-02 HS22031669-05 HS22031669-06

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405806 (0) **Instrument:** WetChem_HS **Method:** PH BY SM4500H+ B-2011

DUP Sample ID: **HS22031676-03DUP** Units: **pH Units** Analysis Date: **06-Apr-2022 14:00**
 Client ID: Run ID: **WetChem_HS_405806** SeqNo: **6582171** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	7.05	0.100						7.04	0.142	10
Temp Deg C @pH	22.7	0						22.7	0	10

The following samples were analyzed in this batch: HS22031669-01 HS22031669-02

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405818 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK Sample ID: **WBLK-040522** Units: **mg/L** Analysis Date: **05-Apr-2022 15:25**
 Client ID: Run ID: **Balance1_405818** SeqNo: **6582474** 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-040522** Units: **mg/L** Analysis Date: **05-Apr-2022 15:25**
 Client ID: Run ID: **Balance1_405818** SeqNo: **6582475** 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) 1070 10.0 1000 0 107 85 - 115

DUP Sample ID: **HS22040009-02DUP** Units: **mg/L** Analysis Date: **05-Apr-2022 15:25**
 Client ID: Run ID: **Balance1_405818** SeqNo: **6582464** 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) 2720 10.0 2700 0.738 5

DUP Sample ID: **HS22031671-01DUP** Units: **mg/L** Analysis Date: **05-Apr-2022 15:25**
 Client ID: Run ID: **Balance1_405818** SeqNo: **6582459** 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) 860 10.0 858 0.233 5

The following samples were analyzed in this batch: HS22031669-03 HS22031669-04 HS22031669-07 HS22031669-08
 HS22031669-09 HS22031669-10

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R405864 (0) **Instrument:** WetChem_HS **Method:** SPECIFIC CONDUCTANCE BY SM 2510B-2011

MBLK Sample ID: **MBLK-R405864** Units: **umhos/cm @ 25.0 °C** Analysis Date: **07-Apr-2022 10:00**
 Client ID: Run ID: **WetChem_HS_405864** SeqNo: **6584015** 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-R405864** Units: **umhos/cm @ 25.0 °C** Analysis Date: **07-Apr-2022 10:00**
 Client ID: Run ID: **WetChem_HS_405864** SeqNo: **6584014** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Specific Conductivity 1436 5.00 1413 0 102 80 - 120

DUP Sample ID: **HS22031619-07DUP** Units: **umhos/cm @ 25.0 °C** Analysis Date: **07-Apr-2022 10:00**
 Client ID: Run ID: **WetChem_HS_405864** SeqNo: **6584016** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Specific Conductivity 4960 5.00 4980 0.402 20

The following samples were analyzed in this batch: HS22031669-03 HS22031669-04 HS22031669-05 HS22031669-06
 HS22031669-07 HS22031669-08 HS22031669-09 HS22031669-10
 HS22031669-11

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R406135 (0)	Instrument: WetChem_HS	Method: SULFIDE BY SM4500 S2-F-2011
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MBLK	Sample ID: MBLK-R406135	Units: mg/L	Analysis Date: 06-Apr-2022 17:00							
Client ID:	Run ID: WetChem_HS_406135	SeqNo: 6591006	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-R406135	Units: mg/L	Analysis Date: 06-Apr-2022 17:00							
Client ID:	Run ID: WetChem_HS_406135	SeqNo: 6591005	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 24.32 1.00 25 0 97.3 85 - 115

LCSD	Sample ID: LCSD-R406135	Units: mg/L	Analysis Date: 06-Apr-2022 17:00							
Client ID:	Run ID: WetChem_HS_406135	SeqNo: 6591004	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 24.12 1.00 25 0 96.5 85 - 115 24.32 0.826 20

MS	Sample ID: HS22031669-10MS	Units: mg/L	Analysis Date: 06-Apr-2022 17:00							
Client ID: CM-2	Run ID: WetChem_HS_406135	SeqNo: 6591007	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 23.92 1.00 25 -0.28 96.8 80 - 120

The following samples were analyzed in this batch:	HS22031669-03	HS22031669-04	HS22031669-05	HS22031669-06
	HS22031669-07	HS22031669-08	HS22031669-09	HS22031669-10

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R406177 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WBLK-040822	Units: mg/L			Analysis Date: 08-Apr-2022 14:43					
Client ID:	Run ID: Balance1_406177	SeqNo: 6591663		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-040822	Units: mg/L			Analysis Date: 08-Apr-2022 14:43					
Client ID:	Run ID: Balance1_406177	SeqNo: 6591664		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)		1050	10.0	1000	0	105	85 - 115			
DUP	Sample ID: HS22040016-11DUP	Units: mg/L			Analysis Date: 08-Apr-2022 14:43					
Client ID:	Run ID: Balance1_406177	SeqNo: 6591662		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)		2168	10.0				2176	0.368	5	
The following samples were analyzed in this batch:				HS22031669-11						

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R406334 (0)	Instrument: ManTech01	Method: ALKALINITY BY SM 2320B-2011
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MBLK	Sample ID: WBLKW1-041222	Units: mg/L	Analysis Date: 12-Apr-2022 13:36							
Client ID:	Run ID: ManTech01_406334	SeqNo: 6595225	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: LCS1-041222	Units: mg/L	Analysis Date: 12-Apr-2022 13:45							
Client ID:	Run ID: ManTech01_406334	SeqNo: 6595226	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)	998	5.00	1000	0	99.8	85 - 115				
Alkalinity, Total (As CaCO3)	1027	5.00	1000	0	103	85 - 115				

LCSD	Sample ID: LCSD1-041222	Units: mg/L	Analysis Date: 12-Apr-2022 13:53							
Client ID:	Run ID: ManTech01_406334	SeqNo: 6595227	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)	987.3	5.00	1000	0	98.7	85 - 115	998	1.08	20	
Alkalinity, Total (As CaCO3)	1014	5.00	1000	0	101	85 - 115	1027	1.23	20	

DUP	Sample ID: HS22040016-11DUP	Units: mg/L	Analysis Date: 12-Apr-2022 14:10							
Client ID:	Run ID: ManTech01_406334	SeqNo: 6595229	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					0	0	20	
Alkalinity, Carbonate (As CaCO3)	52.17	5.00					53.58	2.67	20	
Alkalinity, Hydroxide (As CaCO3)	82.97	5.00					82.4	0.689	20	
Alkalinity, Total (As CaCO3)	135.2	5.00					136	0.612	20	

The following samples were analyzed in this batch:

HS22031669-03	HS22031669-04	HS22031669-05	HS22031669-06
HS22031669-07	HS22031669-08	HS22031669-09	HS22031669-10
HS22031669-11			

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R406347 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 12-Apr-2022 15:09					
Client ID:		Run ID: ICS-Integrion_406347	SeqNo: 6595485	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: 12-Apr-2022 15:14					
Client ID:		Run ID: ICS-Integrion_406347	SeqNo: 6595486	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	19.54	0.500	20	0	97.7	90 - 110				
MS	Sample ID: HS22040585-02MS	Units: mg/L			Analysis Date: 12-Apr-2022 15:30					
Client ID:		Run ID: ICS-Integrion_406347	SeqNo: 6595489	PrepDate:	DF: 5					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	789.5	2.50	50	756.1	66.8	80 - 120			SEO	
MS	Sample ID: HS22031669-01MS	Units: mg/L			Analysis Date: 12-Apr-2022 19:33					
Client ID: CM-3A		Run ID: ICS-Integrion_406347	SeqNo: 6595512	PrepDate:	DF: 20					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	861.7	10.0	200	677.2	92.3	80 - 120				
MSD	Sample ID: HS22040585-02MSD	Units: mg/L			Analysis Date: 12-Apr-2022 15:35					
Client ID:		Run ID: ICS-Integrion_406347	SeqNo: 6595490	PrepDate:	DF: 5					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	787.5	2.50	50	756.1	62.9	80 - 120	789.5	0.245	20 SEO	
MSD	Sample ID: HS22031669-01MSD	Units: mg/L			Analysis Date: 12-Apr-2022 19:38					
Client ID: CM-3A		Run ID: ICS-Integrion_406347	SeqNo: 6595513	PrepDate:	DF: 20					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Sulfate	862.2	10.0	200	677.2	92.5	80 - 120	861.7	0.0673	20	

The following samples were analyzed in this batch: HS22031669-01 HS22031669-02 HS22031669-09

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R406349 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 12-Apr-2022 18:30					
Client ID:		Run ID: ICS-Integrion_406349	SeqNo: 6595613	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Sulfate	U	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 12-Apr-2022 18:35					
Client ID:		Run ID: ICS-Integrion_406349	SeqNo: 6595614	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Sulfate	19.59	0.500	20	0	97.9	90 - 110				
MS	Sample ID: HS22040016-03MS	Units: mg/L			Analysis Date: 12-Apr-2022 22:01					
Client ID:		Run ID: ICS-Integrion_406349	SeqNo: 6595638	PrepDate:	DF: 5					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Sulfate	1635	2.50	50	1683	-95.5	80 - 120			SEO	
MS	Sample ID: HS22031669-10MS	Units: mg/L			Analysis Date: 12-Apr-2022 21:03					
Client ID: CM-2		Run ID: ICS-Integrion_406349	SeqNo: 6595628	PrepDate:	DF: 20					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Sulfate	1173	10.0	200	1011	81.0	80 - 120			O	
MSD	Sample ID: HS22040016-03MSD	Units: mg/L			Analysis Date: 12-Apr-2022 22:06					
Client ID:		Run ID: ICS-Integrion_406349	SeqNo: 6595639	PrepDate:	DF: 5					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Sulfate	1634	2.50	50	1683	-96.9	80 - 120	1635	0.0443	20 SEO	
MSD	Sample ID: HS22031669-10MSD	Units: mg/L			Analysis Date: 12-Apr-2022 21:08					
Client ID: CM-2		Run ID: ICS-Integrion_406349	SeqNo: 6595629	PrepDate:	DF: 20					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Sulfate	1171	10.0	200	1011	80.4	80 - 120	1173	0.104	20 O	
The following samples were analyzed in this batch:										
	HS22031669-03	HS22031669-04	HS22031669-05	HS22031669-06						
	HS22031669-07	HS22031669-08	HS22031669-10							

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R406352 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993					
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 12-Apr-2022 18:40				
Client ID:		Run ID: ICS-Integrion_406352	SeqNo: 6595670	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							

LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 12-Apr-2022 18:45				
Client ID:		Run ID: ICS-Integrion_406352	SeqNo: 6595671	PrepDate:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Chloride	19.67	0.500	20	0	98.4	90 - 110			
Fluoride	4.391	0.100	4	0	110	90 - 110			

MS	Sample ID: HS22031619-09MS	Units: mg/L			Analysis Date: 12-Apr-2022 23:09				
Client ID:		Run ID: ICS-Integrion_406352	SeqNo: 6595677	PrepDate:	DF: 10				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Chloride	104	5.00	100	2.94	101	80 - 120			
Fluoride	34.04	1.00	20	0	170	80 - 120			S

MSD	Sample ID: HS22031619-09MSD	Units: mg/L			Analysis Date: 12-Apr-2022 23:15				
Client ID:		Run ID: ICS-Integrion_406352	SeqNo: 6595678	PrepDate:	DF: 10				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Chloride	103.5	5.00	100	2.94	101	80 - 120	104	0.53	20
Fluoride	37.1	1.00	20	0	185	80 - 120	34.04	8.59	20 S

The following samples were analyzed in this batch: HS22031669-11

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R406522 (0) Instrument: WetChem_HS Method: PH BY SM4500H+ B-2011

DUP Sample ID: HS22040016-11DUP Units: pH Units Analysis Date: 14-Apr-2022 14:15
Client ID: Run ID: WetChem_HS_406522 SeqNo: 6599273 PrepDate: DF: 1
Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	10.78	0.100						10.81	0.278	10
Temp Deg C @pH	21.3	0						21.2	0.471	10

The following samples were analyzed in this batch: HS22031669-03 HS22031669-04 HS22031669-05 HS22031669-06
HS22031669-07 HS22031669-08

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

QC BATCH REPORT

Batch ID: R406523 (0) **Instrument:** WetChem_HS **Method:** PH BY SM4500H+ B-2011

DUP Sample ID: **HS22040411-02DUP** Units: **pH Units** Analysis Date: **14-Apr-2022 14:35**
 Client ID: Run ID: **WetChem_HS_406523** SeqNo: **6599325** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	9.94	0.100						9.93	0.101	10
Temp Deg C @pH	20.3	0						20.2	0.494	10

The following samples were analyzed in this batch: HS22031669-09 HS22031669-10 HS22031669-11

Client: Altamira
Project: WFEC / MNA Program
WorkOrder: HS22031669

**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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-34	30-Jun-2022
Illinois	2000322022-9	09-May-2023
Kansas	E-10352 2021-2022	31-Jul-2022
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2021-2022	30-Jun-2022
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2022	31-Dec-2022
Oklahoma	2021-080	31-Aug-2022
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932021-12	30-Jul-2022

Sample Receipt Checklist

Work Order ID: HS22031669

Date/Time Received: **31-Mar-2022 10:15**

Client Name: Enviro Clean Services-Tulsa

Received by: **Paresh M. Giga**

Completed By: <u>/S/ Paresh M. Giga</u>	31-Mar-2022 13:02	Reviewed by: <u>/S/ Ragen Giga</u>	04-Apr-2022 19:25
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Water**

Carrier name: **FedEx Priority Overnight**

- | | | | |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 1 Page(s) |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | COC IDs:none |
| Samplers name present on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Temperature(s)/Thermometer(s):	1.2C/1.7C U/C	IR31
Cooler(s)/Kit(s):	45201	
Date/Time sample(s) sent to storage:	3/31/2022 13:15	
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/> No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
pH adjusted by:		

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

Corrective Action:

Sample Receipt Checklist

Work Order ID: HS22031669

Date/Time Received: 31-Mar-2022 10:15

Client Name: Enviro Clean Services-Tulsa

Received by: Paresh M. Giga

Completed By: /S/ Desmond Wacasey 01-Apr-2022 12:57 Reviewed by: /S/ Ragen Giga 04-Apr-2022 19:26
 eSignature Date/Time eSignature Date/Time

Matrices: **W**

Carrier name: **FedEx**

- 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
- 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): 1.6/1.4/1.2/1.5C IR31

Cooler(s)/Kit(s): 47970,48021,Lg Red, 47791

Date/Time sample(s) sent to storage: 4/1/22

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:

CHAIN OF CUSTODY RECORD

		PROJECT NUMBER: WFEE160021 / 2001			PROJECT NAME: ALL WELLS ON THE SAME LAB WO WFEC / MNA Monitoring Program			COC : _____ of _____									
		CLIENT CONTACT: Heather Tiffany Bert Smith			CLIENT EMAIL: Heather.N.Tiffany@Altamira-us.com LabData@Altamira-us.com			CLIENT PHONE: 405-618-2021									
LABORATORY / LAB PM: ALS / RJ Modashia		CLIENT ADDRESS: 3700 West Robinson Street Suite 200 Norman, OK 73072			TAT: STANDARD												
LAB ADDRESS: 10450 Stancliff Road Suite 210 Houston, TX 77099		SPECIAL INSTRUCTIONS: *App A: B, CA, CL, F, pH, SO3, TDS SHORT HOLD: Nitrate & Ferrous Iron			PARAMETERS												
SHIPMENT METHOD:		TRACKING: COC for CM-3A & MW-22B did not get included in cooler. This COC is the corresponding chain of custody to advise lab on samples & required analysis.			NUMBER OF CONTAINERS	FIELD FILTERED (YES / NO)	Appendix A*	Nitrate as N (SHORT HOLD)	Spec Conductivity	Fe & Mo, Total	Fe, Ferrous & Ferric (SHORT H	Dissolved : Ferrous Fe (SHORT HOLD)	Dissolved : Fe, Mo, Ferric Fe	K, Mg, Na	Sulfide	HCO3, CO3, Hydroxide Alkalinity	HOLD
NO.	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PRES.												
1	CM-1A			Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
2	CM-1B			Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
3	CM-2			Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
4	CM-3A	3/29/22	18:53	Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
5	CM-3B			Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
6	CM-4A			Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
7	CM-4B			Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
8	CM-5A			Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
9	CM-5B			Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
10	MW-15B			Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
11	MW-22B	3/29/22	18:19	Water	1, 2, 4, 9		X	X	X	X	X	X	X	X	X	X	
12																	

HS22031669
 Altamira
 WFEC / MNA Program



Total # of Containers: _____
 SAMPLER(S) SIGNATURE: _____
 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 : ZnAc & Non-Preserve
 POINT OF ORIGIN: Norman Oklahoma City Tulsa Yukon Midland Other:

ALTAMIRA-US, LLC

CHAIN OF CUSTODY RECORD



PROJECT NUMBER:
WFEE160022/0006

PROJECT NAME: ALL WELLS ON SAME WD
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:
ALS/RAGEN GIGA

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

TAT: STND

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

SPECIAL INSTRUCTIONS:
HS22031669
Altamira
WFEC, MNA Program

SHIPMENT METHOD:
FEDEX

TRACKING:



PARAMETERS

NO.	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PRES.	NUMBER OF CONTAINERS	FIELD FILTERED (YES / NO)	APPENDIX A	NO3 AS N*	SP. COND	Fe & No, TOTAL	Fe, FERRIC*	DISS FERROUS Fe*	DISS Fe, Mo, FERRIC Fe	K, Mg, Na	SULFIDE	HCO3, CO3, TOTAL & HYDROXIDE ALK	HOLD
1	CU-1A	3/31/22	3:50/22	1238	W	1,2,4,9	Y/N	X	X	X	X	X	X	X	X	X	X	
2	CU-1B	3/31/22	3:30/22	1039				X	X	X	X	X	X	X	X	X	X	
3	CU-2							X	X	X	X	X	X	X	X	X	X	
4	CU-3A							X	X	X	X	X	X	X	X	X	X	
5	CU-3B							X	X	X	X	X	X	X	X	X	X	
6	CU-4A	3/30/22	1850					X	X	X	X	X	X	X	X	X	X	
7	CU-4B	3/30/22	1830					X	X	X	X	X	X	X	X	X	X	
8	CU-5A	3/30/22	1750					X	X	X	X	X	X	X	X	X	X	
9	CU-5B	3/30/22	1733					X	X	X	X	X	X	X	X	X	X	
10	MW-15B	3/30/22	1410					X	X	X	X	X	X	X	X	X	X	
11	MW-22B							X	X	X	X	X	X	X	X	X	X	
12	Temp Blank																	
13	47970 1.10																	
14	48021 0.90	3/31	0:50															
15	205 0.70																	
	47791 1.00																	

SAMPLER(S) NAME:
Bradley VanCleave

DATE: 3/31/22
TIME: 1:40
Total # of Containers:

SAMPLER(S) SIGNATURE:
Bradley VanCleave

DATE: 3/31/22
TIME: 1:40

RELINQUISHED BY:
Bradley VanCleave

DATE: 3/31/22
TIME: 1:40

RECEIVED BY:

DATE: 4/11/2022
TIME: 09:40

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:

ALTAMIRA-US, LLC

CHAIN OF CUSTODY RECORD



PROJECT NUMBER:
WFEE160022/0006

PROJECT NAME: ALL WELLS ON SAME WD
WFEC / MNA PROGRAM

COC: ___ of X

CLIENT CONTACT:
HEATHER TIFFANY

CLIENT EMAIL:
HEATHER.TIFFANY@ALTAMIRA
LABDATA@ALTAMIRA-
US.COM

CLIENT PHONE:
405.618.2021

LABORATORY / LAB PM:
ALS/RAGEN GIGA

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

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

SPECIAL INSTRUCTIONS:
SHORT HOLD

SHIPMENT METHOD:
FEDEX

TRACKING:

TAT:

NO.	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PRES.	NUMBER OF CONTAINERS	FIELD FILTERED (YES / NO)	PARAMETERS													HOLD			
								APPENDIX A	NO3 AS N*	SP COND	TOTAL FE/MO	FE, FERROUS & FERRIC*	DISS FERROUS FE*	DISS FE MO & FERRIC FE	K, Mg, Na	SULFIDE	HCO3 CO3, TOTAL HYDROXIDE ALK							
1	CM-1A			W	1,2,4,9			X	X	X	X	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	X	X	X	X	
3	CM-2	3/31/22	1555			6		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
4	CM-3A							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
5	CM-3B	4/1/22	1530			5		X	X	X	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	X	X	X		
7	CM-4B							X	X	X	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	X	X	X		
9	CM-5B							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
10	MW-15 B							X	X															
11	MW-22 B							X	X															
12																								
13																								
14																								
15																								


HS22031669
Altamira
WFEC / MNA Program




SAMPLER(S) NAME: BV
Bradley VanCleave / Seth Brander
DATE: 4/1/22
TIME: 1000
Total # of Containers: NA
SAMPLER(S) SIGNATURE: *Bradley VanCleave*
DATE: 4/1/22
TIME: 1000
RECEIVED BY: NA
DATE: 4/2/22
TIME: 09:45
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:

ALTAMIRA-US, LLC order# 43595 Temp# 0-1 22 31 CPO.S
47503 0-1

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 3/30/22	Time: 10:00	2/1/22
	Name: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: 03/31/22

45201 MAR 31 2022

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 3/25/22	Time: 18:00	<i>[Signature]</i>
	Name: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: 03/31/22



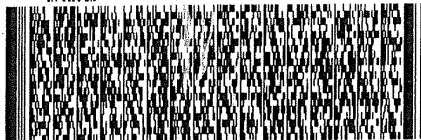
ORIGIN ID: SGRA (910) 794-7020
 HEATHER TIFFANY
 ALTAMIRA
 2670 TRENTON ROAD
 NORMAN, OK 73069
 UNITED STATES US

SHIP DATE: 14MAR22
 ACTWGT: 1.00 LB MAN
 CAD: 0221247/CAFE3512
 DIMS: 26x14x14 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-5656
 REF: CCR IMPOUNDMENT - B084129 - RG

RMA: |||||



FedEx
Express



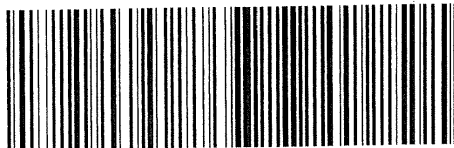
FedEx

TRK# 5300 5229 0020


THU - 31 MAR AA
 PRIORITY OVERNIGHT

AB SGRA


77099
 TX-US
 IAH



747906 30Mar2022 5W1A 560G1 / E3B/C008

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>SM</i>
	Date: <i>4/1/22</i>	Time: <i>2:00</i>	Date: <i>04/02/22</i>
	Name: <i>Bud V...</i>	Company: <i>Bud V...</i>	

48595 APR 02 2022

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>SM</i>
	Date: <i>4/1/22</i>	Time: <i>2:00</i>	Date: <i>04/02/22</i>
	Name: <i>...</i>	Company: <i>...</i>	



ORIGIN ID: SGRA (918) 794-7828
 HEATHER TIFFANY
 ALTAMIRA
 2670 TRENTON ROAD,
 NORMAN, OK 73069
 UNITED STATES US

SHIP DATE: 14MAR22
 ACTNGT: 1.00 LB MAN
 CAD: 0221247/CAFE3S12
 DIMS: 26x14x14 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099
 (281) 530-6666
 REF: CCR LANDFILL - B084127 - RG




FedEx
 TRK# 5300 5229 0203
 0221

SATURDAY 12:00P
 PRIORITY OVERNIGHT

XO SGRA


77099
 TX-US IAH



 ALS 10450 Stancliff P. d., Suite 210 Houston, Texas : 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: SM
	Date: 4/1/22	Time: 0000	Date: 04/02/22
	Name: BV	Company:	

47503

APR 02 2022

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: SM
	Date: 4/1/22	Time: 2600	Date: 04/02/22
	Name: BV	Company:	



47503

ORIGIN ID: SGRA (918) 794-7628
 HEATHER TIFFANY
 ALTAMIRA
 2670 TRENTON ROAD
 NORMAN, OK 73069
 UNITED STATES US

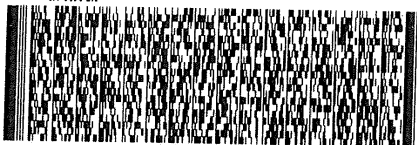
SHIP DATE: 14MAR22
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 CAD: 0221247/CAFE3512
 DIMS: 26x14x14 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-6666

REF: MNA WELLS - B084128 - RG

RMA: ||| ||| |||



FedEx
Express





FedEx
TRK# 5300 5228 9942
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO SGRA


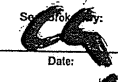
77099
TX-US IAH


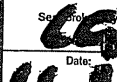


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Sealed By:  Date: 4-1
	Date: 3/31/22	Time: 1400	
	Name: SETH BROWDER		
	Company: ALTAMIRA		

FedEx
 TRK#
 0221 5300 5229 0214



FRI - 01 APR AA
PRIORITY OVERNIGHT

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Sealed By:  Date: 4-1
	Date: 3/31/22	Time: 1400	
	Name: SETH BROWDER		
	Company: ALTAMIRA		

 ALS 10450 Stan. Houston, Texa. Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Sealed By:  Date: 4-1
	Date: 3/31/22	Time: 1400	
	Name: SETH BROWDER		
	Company: ALTAMIRA		



FedEx
 TRK#
 0221 5300 5229 0225



FRI - 01 APR AA
PRIORITY OVERNIGHT

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Sealed By:  Date: 4-1
	Date: 3/31/22	Time: 1400	
	Name: SETH BROWDER		
	Company: ALTAMIRA		

FedEx
TRK#
0221 5300 5229 0008



FRI - 01 APR AA
PRIORITY OVERNIGHT

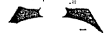

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		 Date: 4-1
	Date: 3/31/22	Time: 1460	
	Name: <i>[Signature]</i>	Company: <i>[Signature]</i>	

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		 Date: 4-1
	Date: 3/31/22	Time: 1460	
	Name: <i>[Signature]</i>	Company: <i>[Signature]</i>	

FedEx
TRK#
0221 5300 5228 9931

FRI - 01 APR AA
PRIORITY OVERNIGHT

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		 Date: 4-1
	Date: 3/31	Time: 1460	
	Name: <i>[Signature]</i>	Company: <i>[Signature]</i>	

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		 Date: 4-1
	Date: 3/31/2022	Time: 1900	
	Name: <i>[Signature]</i>	Company: <i>[Signature]</i>	

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	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	31-Mar-22 (SAMPLE)	7-Jun-22 (RESAMPLE)
Total Alkalinity as CaCO3	mg/L	418	---	---	---	---	---	---	---	412	444	405	470	<5.00 [^]	419
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	---	---	---	15	20.5	<5	9.52	<5.00 [^]	<5.00
Bicarbonate Alkalinity as CaCO3	mg/L	418	---	---	---	---	---	---	---	397	424	405	460	<5.00 [^]	419
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	---	---	---	<5.00	<5.00	<5	<5.00	<5.00 [^]	<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	1.64	---
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	53.8	---
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	23 [^]	24.1
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	0.31	2.7
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	3.24 [^]	1.41
Iron, Total	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	0.0170 J	0.0270 J	0.0435 J [^]	0.0311 J
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120 [^]	0.0138 J
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.020	0.0270 J	0.0435 J [^]	0.0311 J
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.020	<0.0200	<0.0200 [^]	<0.02
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0290 J	<0.0200	<0.020	<0.0200	<0.0200 [^]	<0.02
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.020	<0.0200 H	<0.0200 [^]	<0.02
Magnesium	mg/L	5.19	---	---	---	---	5.73	---	---	5.16	4.38	4.53	4.60	5.79	---
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	0.00257 J	---
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.00335 J	---	---	0.00308 J	0.00244 J	0.00287 J	0.00296 J	0.00248 J	---
Nitrate as N	mg/L	---	---	---	---	0.089 J	0.964	0.665	0.212	<0.0300	<0.0300	0.631	0.0984 J	705 [^]	0.0996 J,H
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	46.2	20.5
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	1.68 [^]	8.19
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	7.77	7.9
Potassium	mg/L	4.14	---	---	---	---	4.49	---	---	3.48	3.94	3.25	3.96	3.74	---
Sodium	mg/L	307	---	---	---	---	405	---	---	277	335	312	243	341	---
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	1730	1870	---	---	---	1960	1770	1820	15600 [^]	2,280
Specific Conductance (field)	umhos/cm	1760	1516	1516	1843	1871	1791	1669	1826	1665	1794	1745	1863	1372	1820
Sulfate	mg/L	301	369	294	384	447	457	394	434	408	485	477	499	1540 [^]	503
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00	<1.00	<1.00 [^]	<1
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	16.4	19.8
Total Dissolved Solids	mg/L	980	950	880	1150	1140	1120	1090	1180	904	1080	1140	1140	1540 [^]	1170
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	1.61	1.72
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.27	---	---	---	1.97	1.19	1.91	0.61	3

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

**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	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	31-Mar-22	Jun-22
Total Alkalinity as CaCO3	mg/L	311	---	---	---	---	222	---	---	264	315	180	343	205	---
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	311	---	---	---	---	222	---	---	264	315	180	343	205	---
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<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	0.646	---
Calcium	mg/L	80.6	178	90.3	142	76	277	271	81	160	90.2	254	97.1	302	---
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	19.9	---
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	0.38	---
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	0.515	---
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.278	0.111 J	0.0145 J	0.310	<0.0120	---
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	0.0340 J	0.235	0.0154 J	0.134 J	<0.0120	---
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	0.103	<0.0200	---
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	0.134	<0.0200	---
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.306	0.216	<0.02	0.207	<0.0200	---
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H	<0.0200	---
Magnesium	mg/L	10.7	---	---	---	---	19	---	---	17.1	12	16.9	12.2	20.0	---
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	0.000973 J	---
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.00107 J	---	---	0.000987 J	0.00103 J	0.000846 J	0.00121 J	0.000830 J	---
Nitrate as N	mg/L	---	---	---	---	0.118	0.557	<0.03	<0.03	<0.0300	<0.0300	<0.06	0.0940 J	0.0613 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	-30.3	---
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	7.88	---
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	7.32	---
Potassium	mg/L	4.95	---	---	---	---	4.67	---	---	5.33	5.1	4.06	5.14	4.56	---
Sodium	mg/L	273	---	---	---	---	274	---	---	313	272	230	261	272	---
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	1610	2240	---	---	---	2110	2380	1860	2530	---
Specific Conductance (field)	umhos/cm	1680	2101	1822	1932	1887	2180	2326	1944	2097	1945	2377	1973	2385	---
Sulfate	mg/L	450	860	545	623	1600	1200	1040	633	970	759	1200	690	1190	---
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	1.48	<1.00	<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	14.2	---
Total Dissolved Solids	mg/L	1120	1600	1210	1330	1230	1670	1890	1270	1680	1340	2060	1290	1920	---
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	2.42	---
Filtered Turbidity (field)	NTU	---	---	---	---	---	0.64	---	---	---	0.85	---	1.83	2.24	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

**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	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	(SAMPLE) 30-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	280	---	---	---	---	---	---	---	327	327	332	348	330	---
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	---	---	---	<5.00	<5.00	<5	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	280	---	---	---	---	---	---	---	327	327	332	348	330	---
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	---	---	---	<5.00	<5.00	<5	<5.00	<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	0.918	---
Calcium	mg/L	672	313	341	746	319	402	314	306	280	278	298	263	330	---
Chloride	mg/L	13.8	15.3	15	16	14.2	14	13.5	14.2	13.3	14.9	14.3	12.8	13.8	---
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	0.66	---
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	0.406 J	---
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0771 J	0.236	0.162 J	1.22	0.249	---
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	0.169 J	0.150 J	0.357	0.189 J	---
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	0.107	0.935	0.119	---
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.116	0.357	0.0470 J	---
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.098	0.184	0.055	0.285	0.130	---
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.034 J	<0.0200 H	0.142	---
Magnesium	mg/L	24.4	---	---	---	---	---	---	---	26.6	26.2	25.9	26.5	29.2	---
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	<0.000600	---
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.00143 J	---	---	0.000768 J	0.000621 J	0.00165 J	<0.000600	<0.000600	---
Nitrate as N	mg/L	---	---	---	---	0.087 J	0.478	1.64	<0.03	0.316	<0.150	<0.0600	<0.0600	0.484 J	---
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	35.2	---
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	7.99	---
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	7.17	---
Potassium	mg/L	7.88	---	---	---	---	8.64	---	---	7.66	7.94	7.87	7.84	8.73	---
Sodium	mg/L	518	---	---	---	---	516	---	---	382	388	413	388	503	---
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	3000	3270	---	---	---	3660	3260	3320	3490	---
Specific Conductance (field)	umhos/cm	3186	3301	3415	3410	3491	3251	3386	3435	3107	3394	4453	2989	3300	---
Sulfate	mg/L	1420	1790	1580	1600	1650	1660	1540	1580	1650	1770	1680	1690	1610	---
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00	3.08	<1.00	---
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	15.2	---
Total Dissolved Solids	mg/L	2680	2700	2700	2730	2710	2590	2680	2750	2780	2630	2680	2630	2690	---
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	2.40	---
Filtered Turbidity (field)	NTU	---	---	---	---	---	0.94	---	---	---	2.96	---	2.37	2.42	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

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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-15A	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	(SAMPLE) 30-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	160	---	---	---	---	149	---	---	209	204	196	226	193	---
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	130	---	---	---	---	149	---	---	209	204	196	226	193	---
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<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	3.35	---
Calcium	mg/L	156	160	93.4	129	170	129	92	82.4	141	89.8	78.6	96.6	119	---
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	27.0	---
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	0.51	---
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	1.31	---
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0535 J	0.0496 J	0.0492 J	0.368	0.236	---
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	0.165 J	0.133 J	0.590	0.234	---
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	0.0840	0.0360 J	---
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.101	0.590	<0.0200	---
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0410 J	0.0210 J	0.054	0.284	0.200	---
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	0.032 J	<0.0200 H	0.243	---
Magnesium	mg/L	9.36	---	---	---	---	12.4	---	---	16.5	11	10.9	10.2	12.3	---
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	0.181	---
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.244	---	---	0.168	0.153	0.159	0.181	0.159	---
Nitrate as N	mg/L	---	---	---	---	0.068 J	1.42	1.72	0.287	<0.0600	<0.150	1.14	0.0704 J	0.894	---
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	93.7	---
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	8.08	---
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	7.65	---
Potassium	mg/L	5.28	---	---	---	---	5.98	---	---	8.24	5.15	5.47	4.97	5.91	---
Sodium	mg/L	541	---	---	---	---	746	---	---	1040	627	594	421	680	---
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	3490	3540	---	---	---	3780	3400	3370	3620	---
Specific Conductance (field)	umhos/cm	3524	3505	3548	3578	3563	3449	3544	3575	3337	3422	4645	3431	3386	---
Sulfate	mg/L	1720	1690	1510	1490	1570	1610	1310	1510	1680	1650	1590	1580	1540	---
Sulfide	mg/L	---	---	---	---	---	---	---	---	1.12	<1.00	<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	18.1	---
Total Dissolved Solids	mg/L	2710	2660	2490	2610	2650	2590	2570	2500	2520	2460	2420	2370	2450	---
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	2.38	---
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.09	---	---	---	0.61	---	2.23	2.46	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

**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	MW-15B	
		24-Jul-20	13-Oct-20	31-Mar-21	14-Oct-21	(SAMPLE) 30-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	680	724	771	802	768	---
Carbonate Alkalinity as CaCO3	mg/L	38.1	14.8	<5.00	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	642	709	771	802	768	---
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---
Boron	mg/L	4.27	5.08	3.67	4.78	6.08	---
Calcium	mg/L	39.3	38.3	35.1	52.8	59.8	---
Chloride	mg/L	60.1	57	57.2	56.0	56.7	---
Dissolved Oxygen (field)	mg/L	4.21	5.04	2.4	9.52	3.81	---
Fluoride	mg/L	1.23	0.96	1.14	1.15	1.24	---
Iron, Total	mg/L	22.7	1.51	7.89	8.51	3.31	---
Iron, Dissolved	mg/L	2.11	<0.0120	0.0212 J	0.0794 J	0.172 J	---
Iron, Ferric	mg/L	---	---	7.21	6.69	2.86	---
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	0.0794	0.172	---
Iron, Ferrous	mg/L	2.67	7.52	0.68	1.82	0.451	---
Iron, Ferrous, Dissolved	mg/L	---	---	0.235	<0.0200 H	<0.0200	---
Magnesium	mg/L	13.2	11.5	10.2	15.9	18.0	---
Molybdenum, Total	mg/L	0.0109	0.00876	0.00571	0.00328 J	0.00370 J	---
Molybdenum, Dissolved	mg/L	0.016	0.00762	0.00814	0.00679	0.00519	---
Nitrate as N	mg/L	---	36.2	29.4	18.3	23.2	---
Oxidation-Reduction Potential (field)	mV	224.1	236.6	211.3	240.1	85.2	---
pH (laboratory)	S.U.	7.66	7.87	7.66	7.59	7.99	---
pH (field)	S.U.	7.91	7.88	7.43	7.58	7.56	---
Potassium	mg/L	10.3	6.72	8.19	8.29	8.39	---
Sodium	mg/L	713	836	625	866	1220	---
Specific Conductance (laboratory)	umhos/cm	---	4520	4300	4410	4910	---
Specific Conductance (field)	umhos/cm	3513	2486	4208	4285	4606	---
Sulfate	mg/L	1280	1340	1560	1580	1590	---
Sulfide	mg/L	3	5	<1.00	3.31	40.0	---
Temperature (field)	°C	21.7	20.7	18	20.4	19.7	---
Total Dissolved Solids	mg/L	2390	2940	3080	2990	3380	---
Turbidity (field)	NTU	568	80.1	>1,000	>1000	>1000	---
Filtered Turbidity (field)	NTU	0.72	1.69	0.72	22.4	3.16	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling

**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-16	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	1-Apr-22 (SAMPLE)	7-Jun-22 (RESAMPLE)
Total Alkalinity as CaCO3	mg/L	238	---	---	---	---	256	---	---	232	233	228	264	94 [^]	258.0
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 [^]	<5
Bicarbonate Alkalinity as CaCO3	mg/L	238	---	---	---	---	256	---	---	232	233	228	264	94 [^]	258.0
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 [^]	<5
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	1.85	---
Calcium	mg/L	238	122	159	185	221	215	192	149	186	166	140	158	153	---
Chloride	mg/L	18	21.3	20.6	29.6	18	19	15.8	23.8	14.7	14.8	14.4	16.2	16.6 [^]	15.0
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	1.06	0.42
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	1.3 [^]	1.01
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0358 J	0.125 J	0.0536 J	0.369	0.0158 J [^]	0.0145 J
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	0.0160 J	0.0694 J	0.0140 J	0.190 J	<0.0120 [^]	<0.0120
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	0.0536	0.178	<0.0200 [^]	<0.02
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	0.190	<0.0200 [^]	<0.02
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0380 J	0.0240 J	<0.02	0.191	<0.0200 [^]	<0.02
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H	<0.0200 [^]	<0.02
Magnesium	mg/L	10.3	---	---	---	---	---	---	---	8.44	7.59	7.65	7.38	8.40	---
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	0.146	---
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.18	---	---	0.173	0.16	0.18	0.189	0.131	---
Nitrate as N	mg/L	---	---	---	---	0.133	<0.03	0.854	<0.03	<0.0600	<0.0600	0.687	<0.0300	50.4 [^]	0.0630 J,H
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	20.9	-25.9
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	7.42 [^]	7.92
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	7.67	7.74
Potassium	mg/L	3.33	---	---	---	---	4.18	---	---	2.85	3.09	3.12	3.18	3.58	---
Sodium	mg/L	272	---	---	---	---	405	---	---	309	316	325	295	389	---
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	2420	2340	---	---	---	2400	2420	2340	2500 [^]	2,910
Specific Conductance (field)	umhos/cm	2330	2463	2436	2678	2816	2273	2330	2836	2438	2615	3178	2699	1865	2358
Sulfate	mg/L	1020	933	938	998	959	1020	974	1020	1030	929	1070	1110	1100 [^]	1090
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	1.4	<1.00	<1.00	<1.00 [^]	<1
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	15.9	20
Total Dissolved Solids	mg/L	1710	1820	1810	1930	1780	1740	1740	1810	1610	1610	1790	1590	1670 [^]	1700
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	0.25	1.84
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.03	---	---	---	0.75	---	2.21	0.16	1.97

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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**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	31-Mar-22	(RESAMPLE)
Total Alkalinity as CaCO3	mg/L	260	---	---	---	---	280	---	---	284	273	269	288	<5.00 [^]	269
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 [^]	<5
Bicarbonate Alkalinity as CaCO3	mg/L	260	---	---	---	---	280	---	---	284	273	269	288	<5.00 [^]	269
Hydroxide Alkalinity	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 [^]	<5
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	0.593	---
Calcium	mg/L	528	436	549	787	461	591	499	555	494	453	467	428	435	---
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	5.24 [^]	4.16
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	1.86	0.8
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	<0.250 [^]	0.371
Iron, Total	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	0.0541 J	<0.0120	0.0325 J [^]	<0.0120
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120 [#]	0.0198 J	<0.0120 [^]	<0.0120
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	0.0541 [#]	<0.0200	0.0325 J [^]	<0.02
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02 [#]	<0.0200	<0.0200 [^]	<0.02
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0200 J	<0.0200	<0.02 [#]	<0.0200	<0.0200 [^]	0.0220 J,H
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02 [#]	<0.0200 H	<0.0200 [^]	<0.02 H
Magnesium	mg/L	36.6	---	---	---	---	38.1	---	---	37.8	30.9	29.3	34.6	30.9	---
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	<0.000600	---
Molybdenum, Dissolved	mg/L	---	---	---	---	---	<0.0006	---	---	0.00123 J	<0.000600	0.00292 J [#]	<0.000600	<0.000600	---
Nitrate as N	mg/L	---	---	---	---	0.276	<0.03	<0.150	<0.03	<0.0600	<0.0600	<0.0300	<0.0600	420 H [^]	0.0834 J,H
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	103.6	81.5
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	1.87 [^]	7.67
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	7.08	7.04
Potassium	mg/L	5.15	---	---	---	---	5.37	---	---	5.15	4.42	4.19	4.94	4.50	---
Sodium	mg/L	34.5	---	---	---	---	35.7	---	---	35.6	29.2	28.2	32.5	35.2	---
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	1920	2450	---	---	---	2610	2460	2390	11900 [^]	2,920
Specific Conductance (field)	umhos/cm	2417	2416	2606	2569	2548	2416	2470	2458	2344	2393	3256	2467	1811	2369
Sulfate	mg/L	1450	1140	1310	1340	821	1480	1100	1310	1390	1,220 H	1310	1390	1970 [^]	1,460
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<1.00 [#]	1.12	<1.00 [^]	<1
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	18.3	22.5
Total Dissolved Solids	mg/L	2140	2360	2340	2380	1670	2300	2400	2160	2230	2160	2200	2210	2340 [^]	2,220
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	0.85	1.61
Filtered Turbidity (field)	NTU	---	---	---	---	---	0.69	---	---	---	0.58	---	---	0.75	---

Notes:

1. mg/L : milligrams per liter.
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6. NTU : Nephelometric Turbidity Unit.
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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.
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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-18	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	(SAMPLE)	DUP 3	(RESAMPLE)
Total Alkalinity as CaCO3	mg/L	77.9	---	---	---	---	75.1	---	---	71	69.9	65.5	73.8	63.6	89.1	---
Carbonate Alkalinity as CaCO3	mg/L	52.6	---	---	---	---	42.2	---	---	60.6	64.3	46.8	55.8	58.6	64.7	---
Bicarbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00	24.4	---
Hydroxide Alkalinity	mg/L	25.3	---	---	---	---	32.9	---	---	10.4	5.63	18.7	17.9	<5.00	<5.00	---
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	4.65	5.06	---
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	23.9	25.3	---
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	4.86	4.60	---
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	0.40	---	---
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	2.10	1.92	---
Iron, Total	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	---
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	---
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200	<0.0200	<0.0200	---
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200	<0.0200	<0.0200	---
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0200 J	<0.0200	<0.02	<0.0200	<0.0200	<0.0200	---
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H	<0.0200	<0.0200	---
Magnesium	mg/L	<0.220	---	---	---	---	---	---	---	0.141 J	0.27	0.426	0.152 J	0.559	0.587	---
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	0.206	0.222	---
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.332	---	---	0.18	0.166	0.215	0.211	0.199	0.203	---
Nitrate as N	mg/L	---	---	---	---	0.053 J	0.075 J	<0.05	<0.03	<0.0600	<0.0300	<0.0300	0.0606 J	0.712	0.146 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	-0.8	---	---
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	9.69	9.30	---
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	9.97	---	---
Potassium	mg/L	22	---	---	---	---	22.3	---	---	15.9	14.6	13.6	15.0	14.6	15.3	---
Sodium	mg/L	523	---	---	---	---	603	---	---	376	348	324	329	391	406	---
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	2590	2520	---	---	---	2200	2090	2040	2070	2080	---
Specific Conductance (field)	umhos/cm	2716	2530	2568	2658	2632	2442	2486	2350	1998	1986	1999	2041	1962	---	---
Sulfate	mg/L	1070	1120	996	1030	1090	1110	933	1020	888	794	904	896	837	842	---
Sulfide	mg/L	---	---	---	---	---	---	---	---	<1.00	<1.00	<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	17.6	---	---
Total Dissolved Solids	mg/L	1850	1740	1660	1730	1760	1630	1680	1550	1340	1270	1260	1320	1300	1310	---
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	2.53	---	---
Filtered Turbidity (field)	NTU	---	---	---	---	---	1.47	---	---	---	0.34	0.62	1.89	2.46	---	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

**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	MW-19S	MW-19S		MW-19S	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	17-Jun-20	12-Oct-20	DUP 2	(SAMPLE)	DUP 3	(SAMPLE)	(SAMPLE)	(RESAMPLE)
Total Alkalinity as CaCO3	mg/L	132	---	---	---	---	141	---	---	128	130	132	135	133	150	136	---
Carbonate Alkalinity as CaCO3	mg/L	85.8	---	---	---	---	59.8	---	---	92.6	98.7	89.2	63.8	69	77.3	53.6	---
Bicarbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	---	<5	---	---	<5.00	<5.00	<5.00	<5	<5	<5.00	<5.00	---
Hydroxide Alkalinity	mg/L	46.2	---	---	---	---	81.2	---	---	35.1	31.4	42.6	71.6	64.4	73.0	82.4	---
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	9.73	---
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	44.2	---
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	14.6	---
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	0.27	---
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	1.66	---
Iron, Total	mg/L	---	---	---	---	---	---	---	---	0.0153 J	<0.0120	<0.0120	<0.0120	<0.0120	0.0509 J	0.0554 J	---
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	---	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120	0.0210 J	<0.0120	---
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	---	---	<0.02	<0.02	<0.0200	0.0254 J	---
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	---	<0.02	<0.02	0.0210 J	<0.0200	---
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	---	0.0430 J	0.0330 J	0.0310 J	<0.02	<0.02	0.0450 J	0.0300 J	---
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	---	---	<0.02	<0.02	<0.0200 H	0.0290 J	---
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	0.0836 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	0.445	---
Molybdenum, Dissolved	mg/L	---	---	---	---	---	0.463	---	---	0.373	0.383	0.37	0.457	0.398	0.440	0.406	---
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	0.102 J	---
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	-244.4	---
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	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	10.94	---
Potassium	mg/L	35.9	---	---	---	---	38.2	---	---	35.2	34.1	33.7	33.9	29	34.6	37.0	---
Sodium	mg/L	697	---	---	---	---	801	---	---	644	598	610	639	545	462	723	---
Specific Conductance (laboratory)	umhos/cm	---	---	---	---	2470	3530	---	---	---	---	3860	3500	3540	3370	3570	---
Specific Conductance (field)	umhos/cm	3552	3530	3587	3563	3610	3438	3524	3552	3309	---	3433	3406	---	3342	3309	---
Sulfate	mg/L	1650	1630	1520	1480	1950	1640	1520	1580	1490	1590	1640	1560	1560	1570	1420	---
Sulfide	mg/L	---	---	---	---	---	---	---	---	1.52	<1.00	1.8	<1.00	<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	17.2	---
Total Dissolved Solids	mg/L	2440	2560	2390	2440	2490	2500	2440	2460	2300	2290	2340	2360	2310	2290	2180	---
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	2.22	---
Filtered Turbidity (field)	NTU	---	---	---	---	---	2.24	---	---	---	---	1.24	0.59	---	1.88	2.33	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

**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	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	(SAMPLE)	(RESAMPLE)
Total Alkalinity as CaCO3	mg/L	231	---	---	---	256	---	---	249	249	232	315	<5.00 ^A	242
Carbonate Alkalinity as CaCO3	mg/L	<5	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 ^A	<5
Bicarbonate Alkalinity as CaCO3	mg/L	231	---	---	---	256	---	---	249	249	232	315	<5.00 ^A	242
Hydroxide Alkalinity	mg/L	<5	---	---	---	<5	---	---	<5.00	<5.00	<5	<5.00	<5.00 ^A	<5
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	2.16	---
Calcium	mg/L	559	636	697	702	643	507	481	754	507	529	515	581	---
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	2.94 J ^A	2.38
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	0.19	0.38
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	<0.500 ^A	0.329
Iron, Total	mg/L	---	---	---	---	---	---	---	0.0509 J	<0.0120	0.0536 J	0.660	0.75 ^A	1.020
Iron, Dissolved	mg/L	---	---	---	---	---	---	---	<0.0120	0.0121 J	0.0206 J	1.00	0.371 ^A	0.235
Iron, Ferric	mg/L	---	---	---	---	---	---	---	---	---	0.0536	<0.0200	0.188 ^A	0.785
Iron, Ferric, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	0.0206 J	<0.0200	0.699 ^A	0.108
Iron, Ferrous	mg/L	---	---	---	---	---	---	---	<0.0200	<0.0200	<0.02	0.904	0.051 ^A	0.1180
Iron, Ferrous, Dissolved	mg/L	---	---	---	---	---	---	---	---	---	<0.02	<0.0200 H	0.253 ^A	0.127
Magnesium	mg/L	87.1	---	---	---	107	---	---	126	85	95	96.2	97.5	---
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	0.00114 J	---
Molybdenum, Dissolved	mg/L	---	---	---	---	0.000822 J	---	---	0.000773 J	<0.000600	<0.000600	0.0328	0.000982 J	---
Nitrate as N	mg/L	---	---	---	0.458	<0.03	<0.150	0.198	<0.0600	<0.150	<0.0600	<0.150	773 ^A	0.0307 J
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	-77.1	-105.5
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	1.62 ^A	7.41
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	7.16	6.91
Potassium	mg/L	14.4	---	---	---	17.8	---	---	21.7	13.7	15.2	16.7	16.1	---
Sodium	mg/L	140	---	---	---	169	---	---	202	135	147	158	153	---
Specific Conductance (laboratory)	umhos/cm	---	---	---	3180	3170	---	---	---	3450	3450	3250	21000 ^A	4010
Specific Conductance (field)	umhos/cm	3218	3135	3244	3277	3181	3208	3236	3013	3165	3195	2975	2681	3206
Sulfate	mg/L	2030	1940	1860	1830	1990	1740	1880	2160	2010	2020	1970	3760 ^A	1950
Sulfide	mg/L	---	---	---	---	---	---	---	1.52	<1.00	<1.00	2.08	<1.00 ^A	<1
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	17.8	21.5
Total Dissolved Solids	mg/L	3030	3090	3050	1910	3000	3170	3030	3390	3160	3040	3010	2520 ^A	3090
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	5.90	13.50
Filtered Turbidity (field)	NTU	---	---	---	---	4.9	---	---	---	0.51	---	1.18	1.59	2.89

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.
13. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted in June 2022. For these, data from June 2022 is appropriate for statistical evaluation.

**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	MW-22B	
		24-Jul-20	13-Oct-20	31-Mar-21	13-Oct-21	(SAMPLE) 28-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	333	364	364	435	435	---
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	328	364	364	435	435	---
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---
Boron	mg/L	2.97	3.4	3.14	3.17	4.02	---
Calcium	mg/L	90.1	69.8	75.8	82.7	103	---
Chloride	mg/L	55.5	56.1	57.8	55.0	57.8	---
Dissolved Oxygen (field)	mg/L	5.05	1.23	5.4	9.27	5.16	---
Fluoride	mg/L	1.14	1.05	1.46	1.21	1.08	---
Iron, Total	mg/L	11.7	0.282	4.19	6.04	7.27	---
Iron, Dissolved	mg/L	<0.0120	<0.0120	<0.0120	0.0138 J	0.0136 J	---
Iron, Ferric	mg/L	---	---	3.23	4.22	5.61	---
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	<0.0200	---
Iron, Ferrous	mg/L	3.06	0.58	0.957	1.82	1.66	---
Iron, Ferrous, Dissolved	mg/L	---	---	0.53	<0.0200 H	<0.0200	---
Magnesium	mg/L	24.1	21.7	23.4	26.0	28.4	---
Molybdenum, Total	mg/L	0.00878	0.00866	0.00753	0.00446 J	0.00357 J	---
Molybdenum, Dissolved	mg/L	0.0111	0.00853	0.00841	0.00723	0.00554	---
Nitrate as N	mg/L	---	<0.0600	1.03	0.958	1.38	---
Oxidation-Reduction Potential (field)	mV	180.5	235.6	37.4	259.2	132.3	---
pH (laboratory)	S.U.	7.57	7.77	7.75	7.59	7.99	---
pH (field)	S.U.	7.95	7.64	7.88	7.72	7.67	---
Potassium	mg/L	10.3	7.81	8.79	10.2	10.7	---
Sodium	mg/L	838	842	846	848	1110	---
Specific Conductance (laboratory)	umhos/cm	---	5100	4460	4690	5060	---
Specific Conductance (field)	umhos/cm	4364	4400	6102	4547	4600	---
Sulfate	mg/L	2180	2040	2080	2090	1980	---
Sulfide	mg/L	4	<1.00	<1.00	<1.00	42.2	---
Temperature (field)	°C	22.3	19.3	17.23	20.7	20.2	---
Total Dissolved Solids	mg/L	3000	3340	3280	3290	3430	---
Turbidity (field)	NTU	926	8.67	>1,000	391	806	---
Filtered Turbidity (field)	NTU	1.21	0.21	1.41	2.05	2.78	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling

**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	CM-1A	
		24-Jul-20	7-Oct-20	1-Apr-21	14-Oct-21	(SAMPLE) 31-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	326	346	337	356	353	---
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	326	346	337	356	353	---
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---
Boron	mg/L	0.748	0.612	0.664	0.883	0.733	---
Calcium	mg/L	452	480	464	531	551	---
Chloride	mg/L	49.5	28.4	26.3	21.2	26.4	---
Dissolved Oxygen (field)	mg/L	6	0.59	1.8	0.37	1.9	---
Fluoride	mg/L	0.382	<0.500	0.483	0.399	0.390 J	---
Iron, Total	mg/L	5.34	0.0215 J	0.0232 J	0.115 J	0.0770 J	---
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.0713 J	0.0382 J	0.0224 J	---
Iron, Ferric	mg/L	---	---	0.0232 J	0.0640	0.0770	---
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	0.0382 J	0.0220 J	---
Iron, Ferrous	mg/L	0.114	<0.0200	<0.0200	0.051	<0.0200	---
Iron, Ferrous, Dissolved	mg/L	---	---	<0.0200	<0.0200 H	<0.0200	---
Magnesium	mg/L	65.7	55.4	50.2	77.6	59.4	---
Molybdenum, Total	mg/L	0.0088	0.00198 J	0.00132 J	0.00127 J	<0.000600	---
Molybdenum, Dissolved	mg/L	0.00385 J	0.00169 J	0.00159 J	0.00121 J	0.000720 J	---
Nitrate as N	mg/L	---	<0.300	<0.0600	<0.0300	0.294 J	---
Oxidation-Reduction Potential (field)	mV	301.9	170.1	175.7	-58.0	91.2	---
pH (laboratory)	S.U.	6.52	7.69	7.61	7.73	7.77	---
pH (field)	S.U.	6.93	6.84	6.95	6.77	7.04	---
Potassium	mg/L	12.4	8.79	7.52	11.9	7.52	---
Sodium	mg/L	178	181	170	198	206	---
Specific Conductance (laboratory)	umhos/cm	---	3620	3180	3300	3410	---
Specific Conductance (field)	umhos/cm	3105	3258	3225	3092	3163	---
Sulfate	mg/L	1970	1810	1910	1940	1770	---
Sulfide	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	---
Temperature (field)	°C	23.7	22.7	18.7	21.8	17.9	---
Total Dissolved Solids	mg/L	2980	3130	3090	3030	2840	---
Turbidity (field)	NTU	31.4	2.91	2.39	15.6	5.72	---
Filtered Turbidity (field)	NTU	0.67	0.65	1.1	1.23	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.
13. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling

**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	CM-1B	
		24-Jul-20	12-Oct-20	1-Apr-21	14-Oct-21	(SAMPLE) 31-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	432	439	---	424	394	---
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	---	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	432	439	---	424	394	---
Hydroxide Alkalinity	mg/L	<5.00	<5.00	---	<5.00	<5.00	---
Boron	mg/L	3.86	3.84	3.44	3.48	4.06	---
Calcium	mg/L	233	128	127	119	123	---
Chloride	mg/L	107	110	---	113	116	---
Dissolved Oxygen (field)	mg/L	4.33	---	0.81	0.39	0.60	---
Fluoride	mg/L	0.626	0.599	---	0.789	0.828	---
Iron, Total	mg/L	47.5	3.89	0.194 J	0.0865 J	0.172 J	---
Iron, Dissolved	mg/L	0.0150 J	0.0164 J	0.0136 J	<0.0120	0.159 J	---
Iron, Ferric	mg/L	---	---	0.112	0.0435 J	0.0870	---
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	0.0480 J	---
Iron, Ferrous	mg/L	26	7.3	0.082	0.0430 J	0.0850	---
Iron, Ferrous, Dissolved	mg/L	---	---	0.0450 J	<0.0200 H	0.111	---
Magnesium	mg/L	50.8	41.7	43.3	45.1	45.2	---
Molybdenum, Total	mg/L	0.0133	0.0144	0.0113	0.00976	0.00696 J	---
Molybdenum, Dissolved	mg/L	0.019	0.0155	0.0126	0.0108	0.00727	---
Nitrate as N	mg/L	---	9.85	---	<0.0600	0.232 J	---
Oxidation-Reduction Potential (field)	mV	184.2	-80.5	189.3	-70.5	-45.5	---
pH (laboratory)	S.U.	7.67	8.12	---	8.03	8.03	---
pH (field)	S.U.	7.62	10.4	7.45	7.43	7.62	---
Potassium	mg/L	19.7	12.3	12.4	13.6	13.1	---
Sodium	mg/L	877	881	899	951	1140	---
Specific Conductance (laboratory)	umhos/cm	---	5650	---	5110	5370	---
Specific Conductance (field)	umhos/cm	4900	1986	5107	4662	4963	---
Sulfate	mg/L	2490	2290	---	2300	2190	---
Sulfide	mg/L	5	<1.00	<1.00	<1.00	<1.00	---
Temperature (field)	°C	23.3	23.5	19.9	22.6	16.1	---
Total Dissolved Solids	mg/L	3490	3760	---	3670	3770	---
Turbidity (field)	NTU	>1,000	0.34	14.8	18.2	3.93	---
Filtered Turbidity (field)	NTU	---	0.34	1.16	1.8	2.29	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling

**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	CM-2	
		24-Jul-20	7-Oct-20	1-Apr-21	15-Oct-21	31-Mar-22	(SAMPLE)	(RESAMPLE)
Total Alkalinity as CaCO3	mg/L	337	347	329	328	353	318	---
Carbonate Alkalinity as CaCO3	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	337	347	329	328	353	318	---
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	---
Boron	mg/L	0.93	0.941	0.845	0.679	0.744	0.480	---
Calcium	mg/L	492	533	491	466	487	467	---
Chloride	mg/L	3.79	3.12	2.84 J	3.49	3.15	2.87	---
Dissolved Oxygen (field)	mg/L	4.62	---	0.27	0.67	0.40	2.08	---
Fluoride	mg/L	0.558	0.565	<0.500	0.419	0.526	0.506	---
Iron, Total	mg/L	2.78	2.97	0.0482 J	0.132 J	0.232	0.115 J	---
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.0139 J	0.0386 J	0.237	0.136 J	---
Iron, Ferric	mg/L	---	---	---	0.132	0.0970	0.0820	---
Iron, Ferric, Dissolved	mg/L	---	---	---	<0.0200	0.237	0.0800	---
Iron, Ferrous	mg/L	0.109	0.146	<0.0200	<0.0200	0.135	0.0330 J	---
Iron, Ferrous, Dissolved	mg/L	---	---	---	<0.0200	<0.0200 H	0.0560	---
Magnesium	mg/L	31.6	32.8	28.7	24.4	29.5	18.8	---
Molybdenum, Total	mg/L	0.00209 J	0.00218 J	0.00203 J	0.00161 J	0.00120 J	0.000820 J	---
Molybdenum, Dissolved	mg/L	0.00158 J	0.00134 J	0.00177 J	0.00118 J	0.00136 J	0.000820 J	---
Nitrate as N	mg/L	---	---	<0.300	0.529	0.0497 J	0.256	---
Oxidation-Reduction Potential (field)	mV	244.3	---	170.2	72.3	-27.8	44.3	---
pH (laboratory)	S.U.	6.66	6.6	7.91	7.82	7.37	7.79	---
pH (field)	S.U.	7.02	---	6.89	6.8	6.80	7.05	---
Potassium	mg/L	8.78	8.74	7.09	6.88	7.56	5.01	---
Sodium	mg/L	111	116	110	94	107	73.2	---
Specific Conductance (laboratory)	umhos/cm	---	---	3020	2190	2500	2220	---
Specific Conductance (field)	umhos/cm	2713	---	2872	2870	2182	2109	---
Sulfate	mg/L	1680	1730	1590	1210	1370	1010	---
Sulfide	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	---
Temperature (field)	°C	21	---	20.1	17.7	21.4	18.2	---
Total Dissolved Solids	mg/L	2490	2660	2690	2060	2210	1780	---
Turbidity (field)	NTU	16	---	18.8	2.32	14.6	2.5	---
Filtered Turbidity (field)	NTU	0.47	---	3.91	0.82	2.82	2.71	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was α

**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	CM-3A	
		21-Aug-20	13-Oct-20	30-Mar-21	14-Oct-21	(SAMPLE) 28-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	**	616	489	630	602	---
Carbonate Alkalinity as CaCO3	mg/L	**	<5.00	<5.00	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	**	616	489	630	602	---
Hydroxide Alkalinity	mg/L	**	<5.00	<5.00	<5.00	<5.00	---
Boron	mg/L	4.84	3.8	2.82	2.72	3.26	---
Calcium	mg/L	50.9	70.3	64.3	67.6	49.9	---
Chloride	mg/L	52.9	36.1	54.8	42.5	37.0	---
Dissolved Oxygen (field)	mg/L	**	***	3.3	4.96	4.53	---
Fluoride	mg/L	0.425	0.699	0.858	0.801	0.870	---
Iron, Total	mg/L	2.78	8.53	0.0152 J	6.76	0.971	---
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.794	0.0291 J	3.34	---
Iron, Ferric	mg/L	---	---	<0.0200	5.27	0.209	---
Iron, Ferric, Dissolved	mg/L	---	---	0.313	0.0291 J	3.28	---
Iron, Ferrous	mg/L	**	0.480 J	1.45	1.49	0.762	---
Iron, Ferrous, Dissolved	mg/L	---	---	0.481	<0.0200 H	0.0570	---
Magnesium	mg/L	6.26	10.4	13.3	10.7	10.4	---
Molybdenum, Total	mg/L	0.0457	0.0222	0.0153	0.00297 J	0.00656	---
Molybdenum, Dissolved	mg/L	0.0445	0.0299	0.0157	0.0120	0.00844	---
Nitrate as N	mg/L	1.67	7.55	19.9	7.07	17.1	---
Oxidation-Reduction Potential (field)	mV	**	***	212.5	281.8	127.2	---
pH (laboratory)	S.U.	8.76	7.82	7.95	7.73	7.82	---
pH (field)	S.U.	**	***	7.6	7.37	7.64	---
Potassium	mg/L	6.13	7.41	6.68	6.38	5.96	---
Sodium	mg/L	429	499	559	447	525	---
Specific Conductance (laboratory)	umhos/cm	---	2940	2910	2410	2790	---
Specific Conductance (field)	umhos/cm	**	***	3015	2467	2609	---
Sulfate	mg/L	554	749	971	635	677	---
Sulfide	mg/L	**	<1.00	<1.00	2.12	34.2	---
Temperature (field)	°C	**	***	18.7	19.7	19.7	---
Total Dissolved Solids	mg/L	1700	1840	2330	1560	1710	---
Turbidity (field)	NTU	**	***	>1,000	>1000	>1000	---
Filtered Turbidity (field)	NTU	**	***	0.44	1.84	2.00	---

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.
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13. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling

**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	CM-3B	
		21-Aug-20	15-Oct-20	2-Apr-21	11-Oct-21	(SAMPLE) 1-Apr-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	**	413	519	**	753	---
Carbonate Alkalinity as CaCO3	mg/L	**	16.5	17.6	**	102	---
Bicarbonate Alkalinity as CaCO3	mg/L	**	396	502	**	651	---
Hydroxide Alkalinity	mg/L	**	<5.00	<5.00	**	<5.00	---
Boron	mg/L	3.82	3.44	4.73	**	5.14	---
Calcium	mg/L	70	62.7	100	**	70.1	---
Chloride	mg/L	48.9	28.8	40.2	**	53.0	---
Dissolved Oxygen (field)	mg/L	**	***	***	***	2.3	---
Fluoride	mg/L	1.9	1.14	1.52	**	1.51	---
Iron, Total	mg/L	23.5	22.8	55.6	**	16.7	---
Iron, Dissolved	mg/L	0.0140 J	0.0399 J	0.0419 J	**	46.7	---
Iron, Ferric	mg/L	---	---	---	**	16.1	---
Iron, Ferric, Dissolved	mg/L	---	---	---	**	45.2	---
Iron, Ferrous	mg/L	**	**	---	**	0.636	---
Iron, Ferrous, Dissolved	mg/L	---	---	---	**	1.45	---
Magnesium	mg/L	13.6	11.2	23.2	**	13.6	---
Molybdenum, Total	mg/L	0.0327	0.0318	0.0353 J	**	0.0174	---
Molybdenum, Dissolved	mg/L	0.0394	0.0355	0.0392	**	0.0256	---
Nitrate as N	mg/L	<0.0300	4.64	31.3	**	65.6	---
Oxidation-Reduction Potential (field)	mV	**	***	***	***	86.7	---
pH (laboratory)	S.U.	8.11	8.65	8.24	**	8.51	---
pH (field)	S.U.	**	***	***	***	7.48	---
Potassium	mg/L	11.1	9.04	23.6	**	9.25	---
Sodium	mg/L	573	603	847	**	948	---
Specific Conductance (laboratory)	umhos/cm	---	2540	2930	**	4030	---
Specific Conductance (field)	umhos/cm	**	***	***	***	3731	---
Sulfate	mg/L	1090	733	942	**	1070	---
Sulfide	mg/L	**	**	---	**	**	---
Temperature (field)	°C	**	***	***	***	20.7	---
Total Dissolved Solids	mg/L	2240	1310	2340	**	3580	---
Turbidity (field)	NTU	**	***	***	***	>1000	---
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.
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13. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling

**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	CM-4A	
		24-Jul-20	8-Oct-20	30-Mar-21	13-Oct-21	(SAMPLE) 28-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	470	557	510	605	619	---
Carbonate Alkalinity as CaCO3	mg/L	20	5.28	<5.00	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	450	552	510	605	619	---
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---
Boron	mg/L	3.03	4.42	3.24	3.56	4.69	---
Calcium	mg/L	103	71.7	59.1	66.5	162	---
Chloride	mg/L	92.4	105	109	90.2	82.9	---
Dissolved Oxygen (field)	mg/L	2.68	***	3.93	5.31	4.31	---
Fluoride	mg/L	0.879	0.602	0.947	0.737	0.787	---
Iron, Total	mg/L	40	6.78	7.67	4.64	21.6	---
Iron, Dissolved	mg/L	0.0205 J	0.0162 J	0.0149 J	<0.0120	0.0901 J	---
Iron, Ferric	mg/L	---	---	6.98	4.10	19.5	---
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	<0.0200	---
Iron, Ferrous	mg/L	1.92	10.3	0.69	0.544	2.14	---
Iron, Ferrous, Dissolved	mg/L	---	---	0.278	<0.0200 H	0.0720	---
Magnesium	mg/L	16.7	15.2	13.5	16.4	20.8	---
Molybdenum, Total	mg/L	0.0269	0.0271	0.0212	0.0105	0.00455 J	---
Molybdenum, Dissolved	mg/L	0.0529	0.0391	0.0255	0.0194	0.0183	---
Nitrate as N	mg/L	---	27	20	21.6	16.4	---
Oxidation-Reduction Potential (field)	mV	238.4	***	210.6	111.4	154.2	---
pH (laboratory)	S.U.	7.82	7.98	7.64	8.14	7.84	---
pH (field)	S.U.	7.6	***	7.74	7.64	7.87	---
Potassium	mg/L	14.3	8.13	8.26	7.82	9.42	---
Sodium	mg/L	443	654	580	709	772	---
Specific Conductance (laboratory)	umhos/cm	---	4150	3630	4030	3700	---
Specific Conductance (field)	umhos/cm	2939	***	3612	3240	3489	---
Sulfate	mg/L	1050	1260	1300	1160	1070	---
Sulfide	mg/L	4	<1.00	<1.00	<1.00	<1.00	---
Temperature (field)	°C	20.2	***	18.9	21.1	15.8	---
Total Dissolved Solids	mg/L	1900	2630	2660	2830	2420	---
Turbidity (field)	NTU	692	***	>1,000	>1000	>1000	---
Filtered Turbidity (field)	NTU	0.4	***	0.54	2.13	6.74	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling

**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	CM-4B	
		24-Jul-20	8-Oct-20	30-Mar-21	13-Oct-21	(SAMPLE) 28-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	436	520	448	589	565	---
Carbonate Alkalinity as CaCO3	mg/L	15.7	24.5	<5.00	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	420	495	448	589	565	---
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---
Boron	mg/L	3.14	4.31	3.63	3.79	4.90	---
Calcium	mg/L	56.5	47.1	42.1	79.1	56.2	---
Chloride	mg/L	69.9	95.3	119	113	112	---
Dissolved Oxygen (field)	mg/L	2.88	***	5.52	7.70	2.87	---
Fluoride	mg/L	1.01	1.07	1.4	1.05	0.944	---
Iron, Total	mg/L	4.25	1.27	2.19	13.0	1.15	---
Iron, Dissolved	mg/L	0.0123 J	1.56	0.0156 J	0.0134 J	0.0421 J	---
Iron, Ferric	mg/L	---	---	1.03	11.4	1.02	---
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	<0.0200	---
Iron, Ferrous	mg/L	19.2	5.17	1.16	1.64	0.134	---
Iron, Ferrous, Dissolved	mg/L	---	---	0.406	<0.0200 H	0.0750	---
Magnesium	mg/L	14	12.1	13	17.8	17.5	---
Molybdenum, Total	mg/L	0.0307	0.0306	0.0303	0.0131	0.0184	---
Molybdenum, Dissolved	mg/L	0.0354	0.0271	0.0344	0.0235	0.0194	---
Nitrate as N	mg/L	---	7.22	17.8	22.2	34.0	---
Oxidation-Reduction Potential (field)	mV	292.1	***	214.4	63.6	154.2	---
pH (laboratory)	S.U.	7.78	8.32	7.84	8.04	8.01	---
pH (field)	S.U.	7.45	***	7.89	7.69	7.99	---
Potassium	mg/L	10.2	7.12	7.46	8.42	8.19	---
Sodium	mg/L	529	764	769	865	1140	---
Specific Conductance (laboratory)	umhos/cm	---	4260	4160	4400	4710	---
Specific Conductance (field)	umhos/cm	3331	***	4107	3801	4207	---
Sulfate	mg/L	1360	1460	1620	1590	1500	---
Sulfide	mg/L	5	<1.00	<1.00	<1.00	<1.00	---
Temperature (field)	°C	20.7	***	19.2	21.2	16.7	---
Total Dissolved Solids	mg/L	2240	2750	3040	2980	3310	---
Turbidity (field)	NTU	158	***	>1,000	>1000	>1000	---
Filtered Turbidity (field)	NTU	---	***	0.5	1.92	1.20	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling

**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	CM-5A	
		24-Jul-20	8-Oct-20	30-Mar-21	13-Oct-21	(SAMPLE) 28-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO3	mg/L	451	541	445	538	515	---
Carbonate Alkalinity as CaCO3	mg/L	7.91	<5.00	<5.00	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO3	mg/L	443	541	445	538	515	---
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---
Boron	mg/L	3.92	4.67	4.97	4.57	6.34	---
Calcium	mg/L	102	86.7	102	143	170	---
Chloride	mg/L	93.9	130	154	134	115	---
Dissolved Oxygen (field)	mg/L	3.81	***	3.36	6.35	3.21	---
Fluoride	mg/L	1.09	0.602	0.667	0.682	0.852	---
Iron, Total	mg/L	28.4	5.43	3.27	13.6	22.3	---
Iron, Dissolved	mg/L	<0.0120	<0.0120	0.0799 J	<0.0120	0.876	---
Iron, Ferric	mg/L	---	---	1.21	10.9	20.8	---
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	0.876	---
Iron, Ferrous	mg/L	0.561	4.63	2.06	2.72	1.45	---
Iron, Ferrous, Dissolved	mg/L	---	---	0.673	<0.0200 H	<0.0200	---
Magnesium	mg/L	15.8	18.4	26	29.9	27.8	---
Molybdenum, Total	mg/L	0.0205	0.011	0.0182	0.00580	0.00351 J	---
Molybdenum, Dissolved	mg/L	0.0352	0.0214	0.0192	0.0165	0.0129	---
Nitrate as N	mg/L	---	27.4	27.2	24.4	20.2	---
Oxidation-Reduction Potential (field)	mV	270.1	***	217.6	126.0	123.3	---
pH (laboratory)	S.U.	7.7	7.96	7.46	7.75	7.92	---
pH (field)	S.U.	7.4	***	7.35	7.49	7.76	---
Potassium	mg/L	13.3	8.41	10.4	11.5	11.1	---
Sodium	mg/L	448	632	761	749	791	---
Specific Conductance (laboratory)	umhos/cm	---	4180	4180	4130	3980	---
Specific Conductance (field)	umhos/cm	2617	***	4132	3626	3736	---
Sulfate	mg/L	808	1290	1540	1480	1250	---
Sulfide	mg/L	<1.00	1.36	1.36	<1.00	<1.00	---
Temperature (field)	°C	22.5	***	19.2	21.0	15.8	---
Total Dissolved Solids	mg/L	1840	2680	3260	2900	2620	---
Turbidity (field)	NTU	204	***	>1,000	>1000	>1000	---
Filtered Turbidity (field)	NTU	0.61	***	0.86	36.8	4.77	---

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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling

**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	CM-5B	
		24-Jul-20	9-Oct-20	30-Mar-21	13-Oct-21	(SAMPLE) 28-Mar-22	(RESAMPLE) Jun-22
Total Alkalinity as CaCO ₃	mg/L	421	525	486	613	594	---
Carbonate Alkalinity as CaCO ₃	mg/L	22.6	<5.00	<5.00	<5.00	<5.00	---
Bicarbonate Alkalinity as CaCO ₃	mg/L	398	520	486	613	594	---
Hydroxide Alkalinity	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	---
Boron	mg/L	3.8	4.42	3.86	4.37	5.91	---
Calcium	mg/L	115	56.4	46	56.8	59.8	---
Chloride	mg/L	107	113	145	141	147	---
Dissolved Oxygen (field)	mg/L	3.35	***	4.46	3.41	5.38	---
Fluoride	mg/L	0.636	0.786	1.15	0.925	0.838	---
Iron, Total	mg/L	32.3	1.26	1.73	3.61	0.0358 J	---
Iron, Dissolved	mg/L	0.0246 J	1.87	0.214 J	<0.0120	3.16	---
Iron, Ferric	mg/L	---	---	0.47	2.97	<0.0200	---
Iron, Ferric, Dissolved	mg/L	---	---	<0.0200	<0.0200	3.16	---
Iron, Ferrous	mg/L	0.671	10.6	1.26	0.641	2.30	---
Iron, Ferrous, Dissolved	mg/L	---	---	0.206	<0.0200 H	<0.0200	---
Magnesium	mg/L	22	15.8	14	18.8	19.5	---
Molybdenum, Total	mg/L	0.04	0.0394	0.0536	0.0448	0.0361	---
Molybdenum, Dissolved	mg/L	0.0515	0.0359	0.0594	0.0418	0.0294	---
Nitrate as N	mg/L	---	25.8	58.0 H	59.8	66.7	---
Oxidation-Reduction Potential (field)	mV	229	***	224.2	50.8	27.2	---
pH (laboratory)	S.U.	7.94	7.84	7.67	7.92	7.82	---
pH (field)	S.U.	7.53	***	7.8	7.56	7.72	---
Potassium	mg/L	15.2	7.73	8	10.1	8.55	---
Sodium	mg/L	587	762	671	836	986	---
Specific Conductance (laboratory)	umhos/cm	---	4570	4130	4250	4450	---
Specific Conductance (field)	umhos/cm	3617	***	3914	3673	4126	---
Sulfate	mg/L	1470	1430	1330	1310	1170	---
Sulfide	mg/L	8	6.4	<1.00	1.28	39.8	---
Temperature (field)	°C	21.7	***	18.8	21.0	15.5	---
Total Dissolved Solids	mg/L	2570	2910	3120	2910	3060	---
Turbidity (field)	NTU	616	***	>1,000	>1000	>1000	---
Filtered Turbidity (field)	NTU	0.25	***	12.1	0.93	3.56	---

Notes:

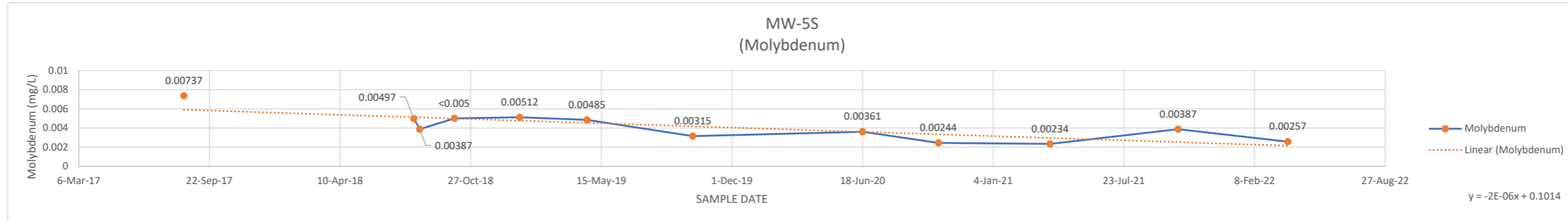
1. mg/L : milligrams per liter.
2. S.U. : Standard Units.
3. °C : degrees Celsius.
4. umhos/cm : micromhos per centimeter.
5. mV : millivolts.
6. NTU : Nephelometric Turbidity Unit.
7. < : Analyte not detected at the laboratory method detection limit (MDL).
8. J : Result is less than the Reporting Limit (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. ^ : Data for select parameters from the First 2022 Assessment Monitoring were determined to not be valid due to use of inappropriate preservative. Resampling for these was conducted.

ATTACHMENT D

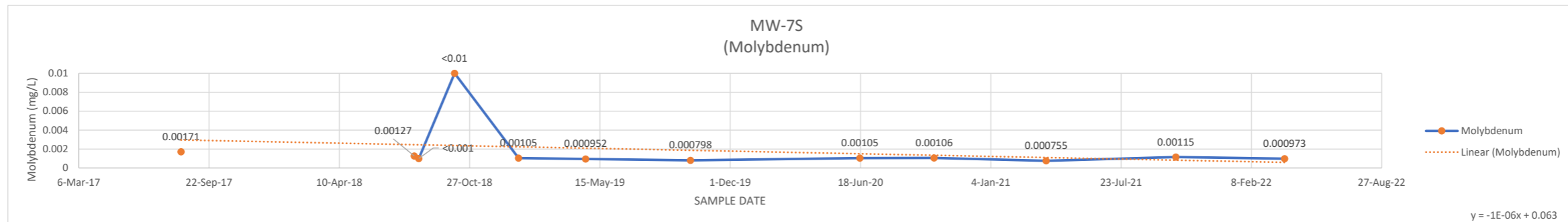
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

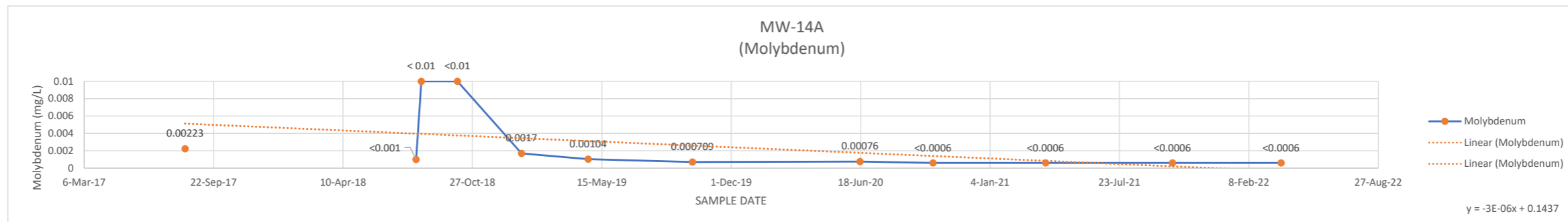
MW-5S	MOLYBDENUM
DATE	
14-Aug-17	0.00737
22-May-18	
1-Aug-18	0.00497
10-Aug-18	0.00387
2-Oct-18	0.005
10-Jan-19	0.00512
23-Apr-19	0.00485
2-Oct-19	0.00315
18-Jun-20	0.00361
12-Oct-20	0.00244
1-Apr-21	0.00234
14-Oct-21	0.00387
31-Mar-22	0.00257



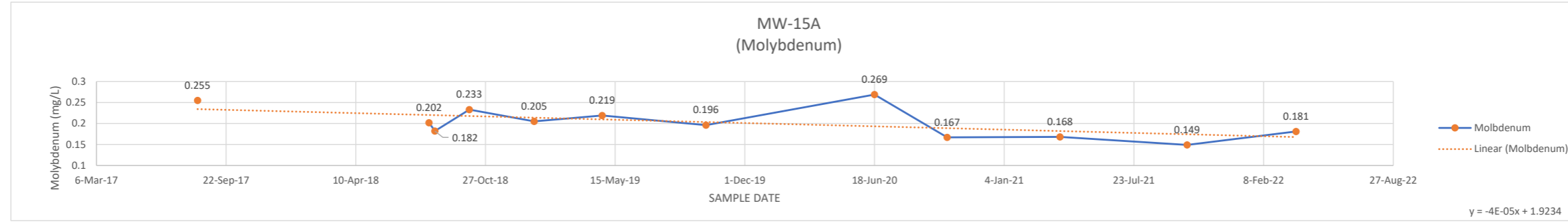
MW-7S	MOLYBDENUM
DATE	
10-Aug-17	0.00171
17-May-18	
3-Aug-18	0.00127
10-Aug-18	0.001
4-Oct-18	0.01
10-Jan-19	0.00105
23-Apr-19	0.000952
1-Oct-19	0.000798
17-Jun-20	0.00105
9-Oct-20	0.00106
30-Mar-21	0.000755
15-Oct-21	0.00115
31-Mar-22	0.000973



MW-14A	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	0.00076
8-Oct-20	0.0006
31-Mar-21	0.0006
13-Oct-21	0.0006
30-Mar-22	0.0006

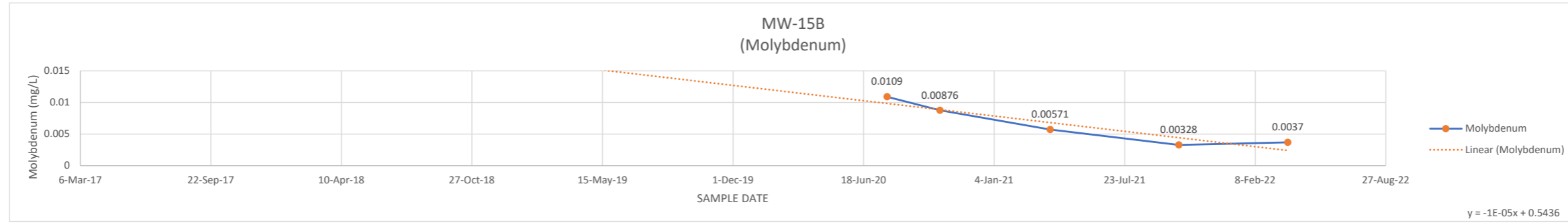


MW-15A	MOLYBDENUM
DATE	
9-Aug-17	0.255
24-May-18	
1-Aug-18	0.202
10-Aug-18	0.182
2-Oct-18	0.233
10-Jan-19	0.205
25-Apr-19	0.219
2-Oct-19	0.196
18-Jun-20	0.269
8-Oct-20	0.167
31-Mar-21	0.168
13-Oct-21	0.149
30-Mar-22	0.181

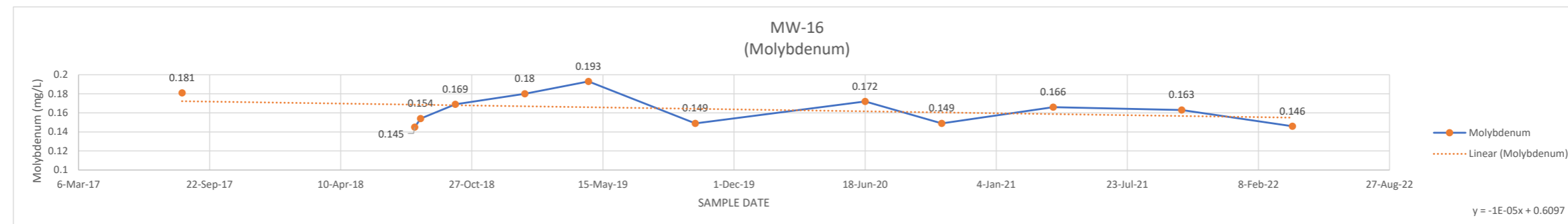


ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

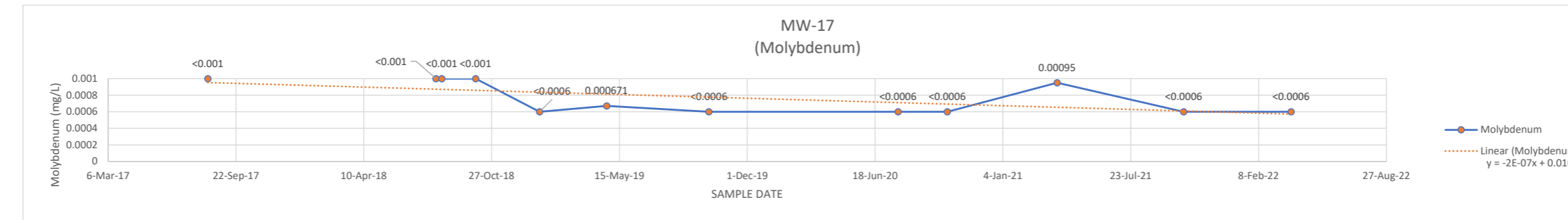
MW-15B	MOLYBDENUM
DATE	
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0109
13-Oct-20	0.00876
31-Mar-21	0.00571
14-Oct-21	0.00328
30-Mar-22	0.0037



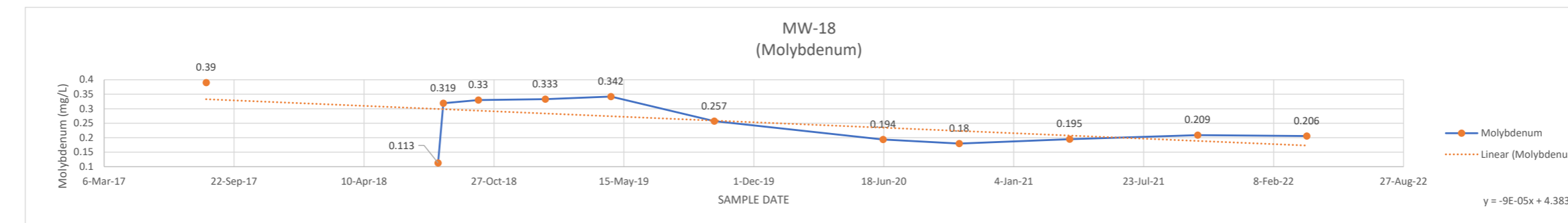
MW-16	MOLYBDENUM
DATE	
11-Aug-17	0.181
22-May-18	
1-Aug-18	0.145
10-Aug-18	0.154
2-Oct-18	0.169
16-Jan-19	0.18
23-Apr-19	0.193
3-Oct-19	0.149
18-Jun-20	0.172
13-Oct-20	0.149
1-Apr-21	0.166
14-Oct-21	0.163
1-Apr-22	0.146



MW-17	MOLYBDENUM
DATE	
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
31-Mar-22	0.0006

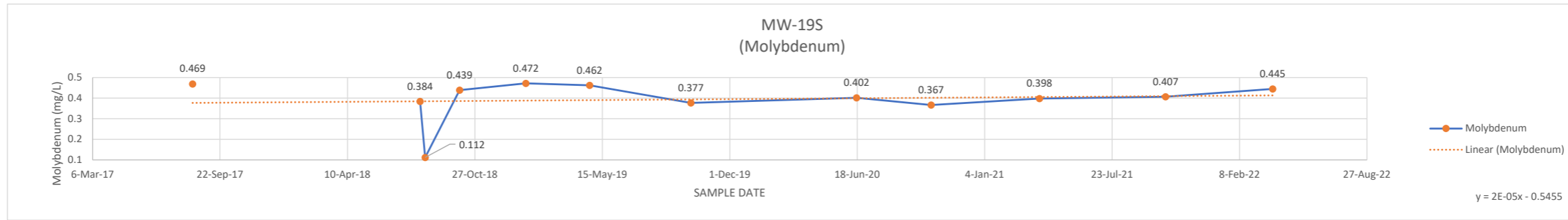


MW-18	MOLYBDENUM
DATE	
10-Aug-17	0.39
18-May-18	
2-Aug-18	0.113
10-Aug-18	0.319
3-Oct-18	0.33
14-Jan-19	0.333
25-Apr-19	0.342
1-Oct-19	0.257
17-Jun-20	0.194
12-Oct-20	0.18
31-Mar-21	0.195
14-Oct-21	0.209
31-Mar-22	0.206

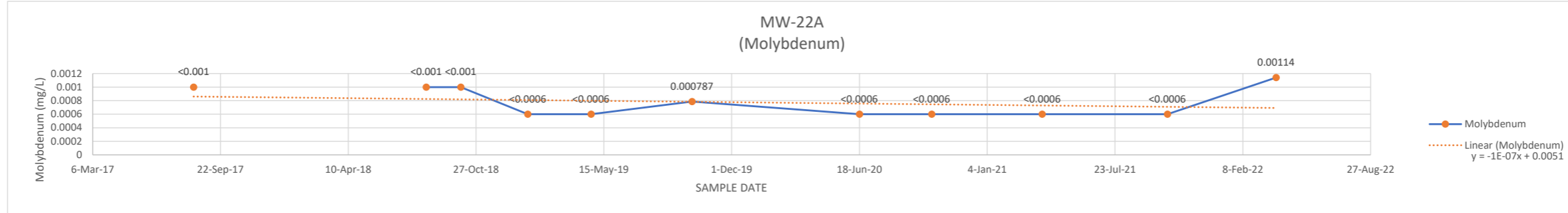


ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

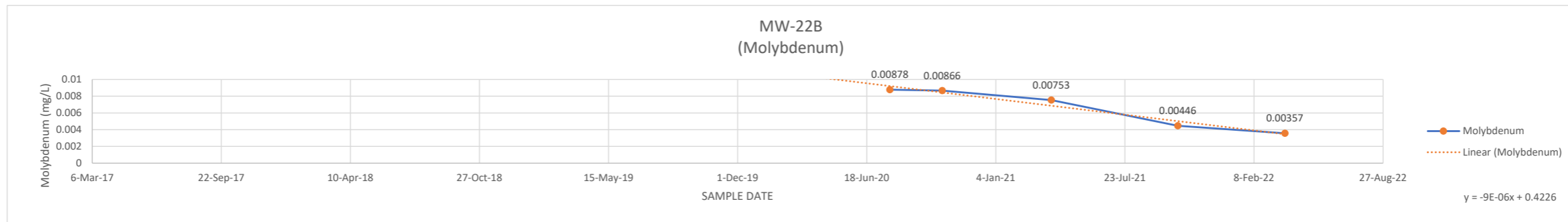
MW-19S	MOLYBDENUM
DATE	
10-Aug-17	0.469
18-May-18	
2-Aug-18	0.384
10-Aug-18	0.112
3-Oct-18	0.439
15-Jan-19	0.472
25-Apr-19	0.462
1-Oct-19	0.377
17-Jun-20	0.402
12-Oct-20	0.367
31-Mar-21	0.398
15-Oct-21	0.407
1-Apr-22	0.445



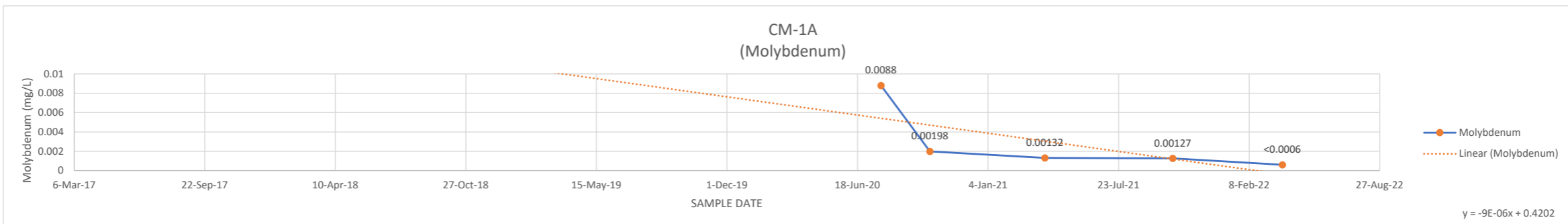
MW-22A	MOLYBDENUM
DATE	
11-Aug-17	0.001
22-May-18	
10-Aug-18	0.001
3-Oct-18	0.001
16-Jan-19	0.0006
25-Apr-19	0.0006
30-Sep-19	0.000787
18-Jun-20	0.0006
9-Oct-20	0.0006
31-Mar-21	0.0006
13-Oct-21	0.0006
1-Apr-22	0.00114



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
28-Mar-22	0.00357

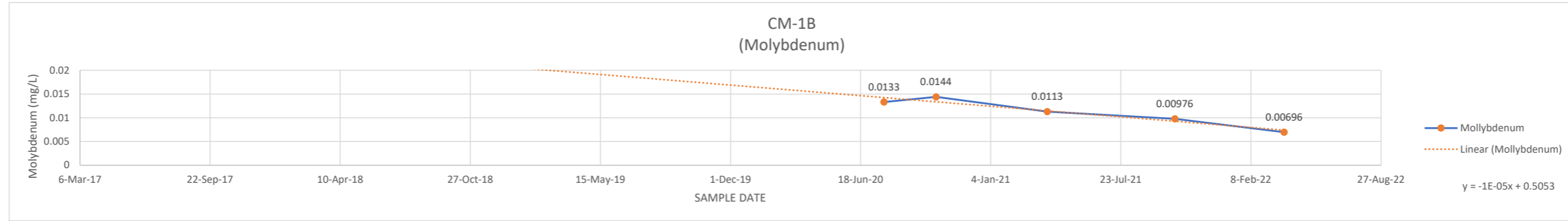


CM-1A	MOLYBDENUM
DATE	
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0088
7-Oct-20	0.00198
1-Apr-21	0.00132
14-Oct-21	0.00127
31-Mar-22	0.0006

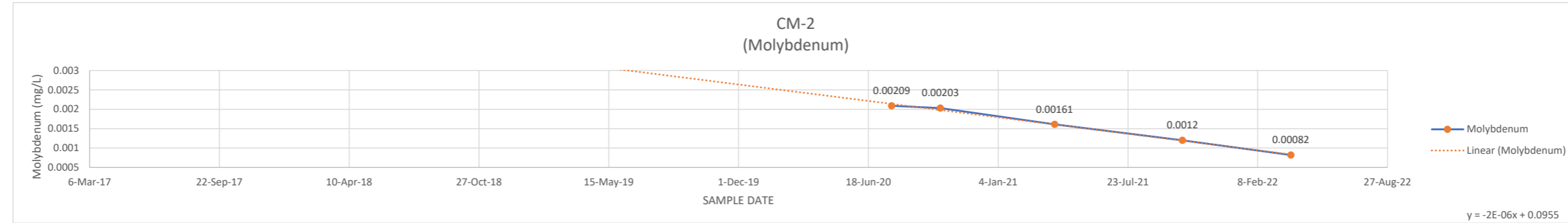


ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

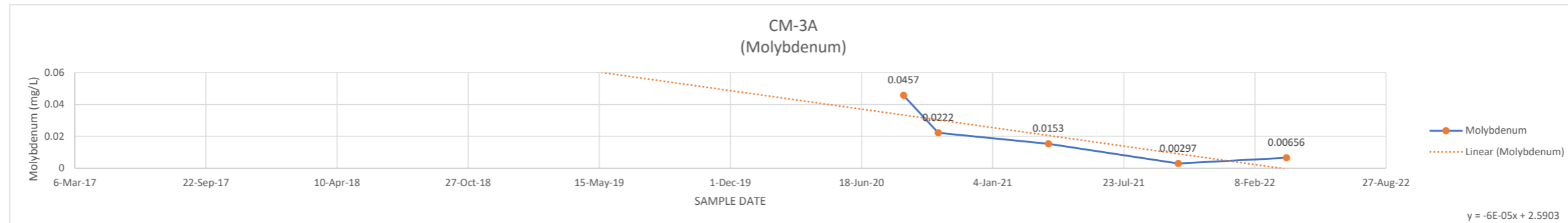
CM-1B
DATE MOLYBDENUM
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
24-Jul-20 0.0133
12-Oct-20 0.0144
1-Apr-21 0.0113
14-Oct-21 0.00976
31-Mar-22 0.00696



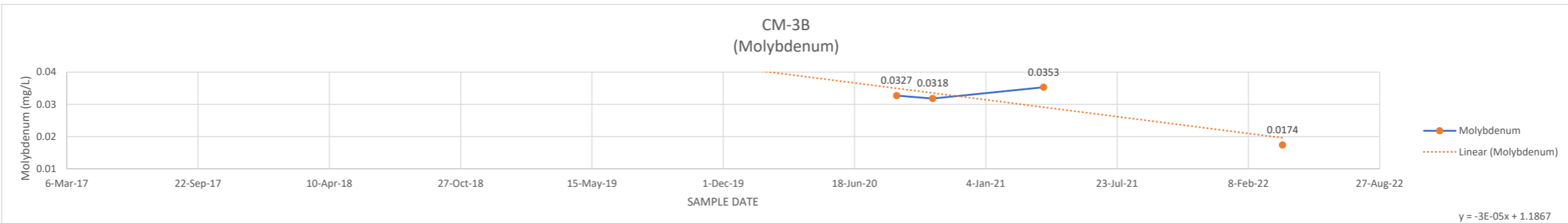
CM-2
DATE MOLYBDENUM
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
24-Jul-20 0.00209
7-Oct-20 0.00203
1-Apr-21 0.00161
15-Oct-21 0.0012
31-Mar-22 0.00082



CM-3A
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
21-Aug-20 0.0457
13-Oct-20 0.0222
30-Mar-21 0.0153
14-Oct-21 0.00297
28-Mar-22 0.00656

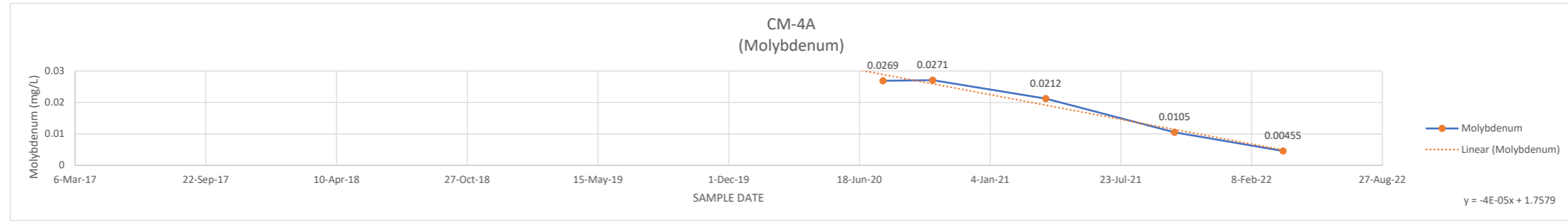


CM-3B
DATE MOLYBDENUM
9-Aug-17
24-May-18
1-Aug-18
10-Aug-18
2-Oct-18
10-Jan-19
25-Apr-19
2-Oct-19
21-Aug-20 0.0327
15-Oct-20 0.0318
2-Apr-21 0.0353
11-Oct-21
1-Apr-22 0.0174

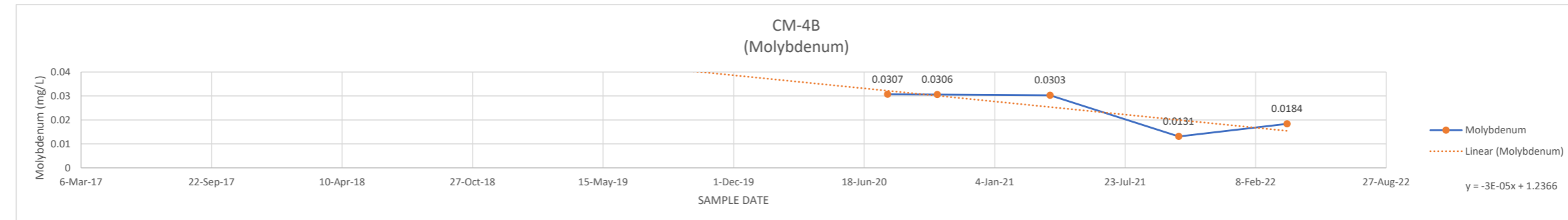


ATTACHMENT D
CHANGES IN MOLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

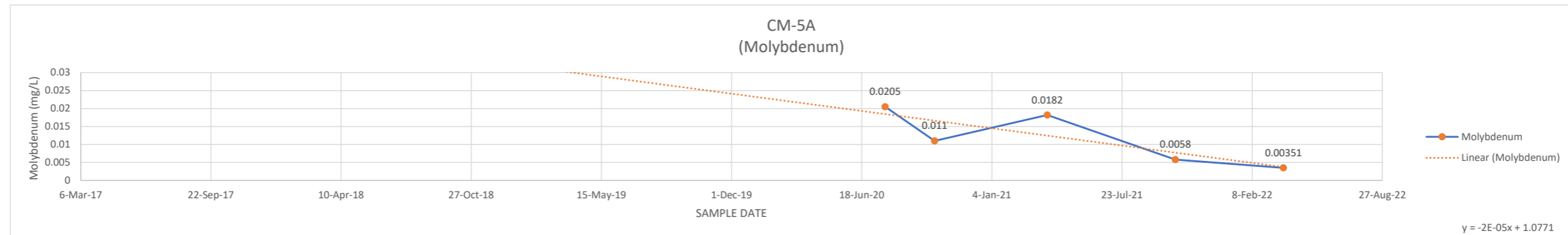
CM-4A DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0269
8-Oct-20	0.0271
30-Mar-21	0.0212
13-Oct-21	0.0105
28-Mar-22	0.00455



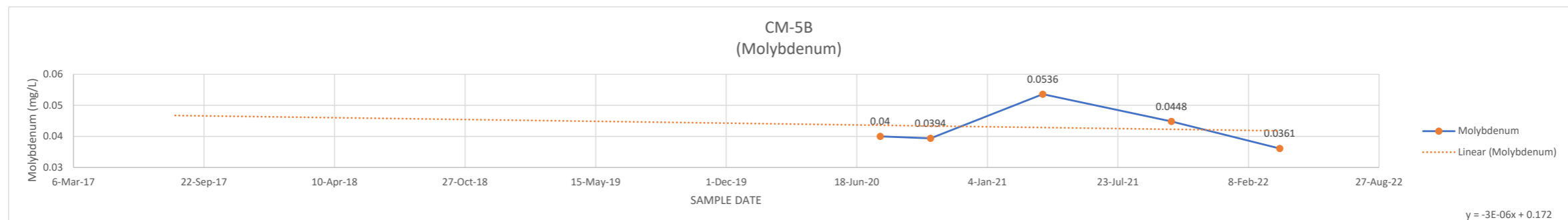
CM-4B DATE	MOLYBDENUM
9-Aug-17	
24-May-18	
1-Aug-18	
10-Aug-18	
2-Oct-18	
10-Jan-19	
25-Apr-19	
2-Oct-19	
24-Jul-20	0.0307
8-Oct-20	0.0306
30-Mar-21	0.0303
13-Oct-21	0.0131
28-Mar-22	0.0184



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
28-Mar-22	0.00351



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
28-Mar-22	0.0361



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 JUNE/JULY 2020) ^{1,2}	(OCTOBER 2020 THROUGH MARCH/APRIL 2022) ³	PERCENT DIFFERENCE
MW-5S	0.0047425	0.002805	-40.85397997
MW-7S	0.00222875	0.0009845	-55.82725743
MW-14A	0.003429875	0.0006	-82.50665112
MW-15A	0.220125	0.16625	-24.47473027
MW-15B	0.0109	0.0053625	-50.80275229
MW-16	0.167875	0.156	-7.073715562
MW-17	0.000808875	0.0006875	-15.00540875
MW-18	0.28475	0.1975	-30.64091308
MW-19S	0.389625	0.40425	3.75360924
MW-22A	0.000798143	0.000735	-7.911222481
MW-22B	0.00878	0.006055	-31.03644647
CM-1A	0.0088	0.0012925	-85.3125
CM-1B	0.0133	0.010605	-20.26315789
CM-2	0.00209	0.001415	-32.29665072
CM-3A	0.0457	0.0117575	-74.27242888
CM-3B	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
CM-4A	0.0269	0.0158375	-41.12453532
CM-4B	0.0307	0.0231	-24.75570033
CM-5A	0.0205	0.0096275	-53.03658537
CM-5B	0.04	0.043475	8.6875

- 1) Mean Molybdenum Concentration (August 2017 through June/July 2020) is based on eight sampling events for MW-5S, MW-7S, MW-14A, MW-15A, MW-16, MW-17, MW-18, and MW-19S. It is based on seven 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/July 2020. Mean Molybdenum Concentration (August 2017 through June/July 2020) for these is based on one sampling event.
- 3) For all wells, the mean Molybdenum Concentration (October 2020 through March/April 2022) is comprised of four sampling events.
- 4) NOT APPLICABLE: Well does not contain sufficient sample data to evaluate

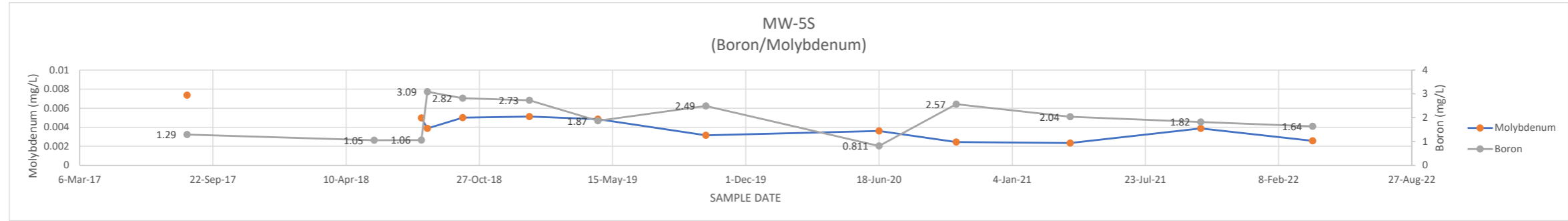
ATTACHMENT F

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

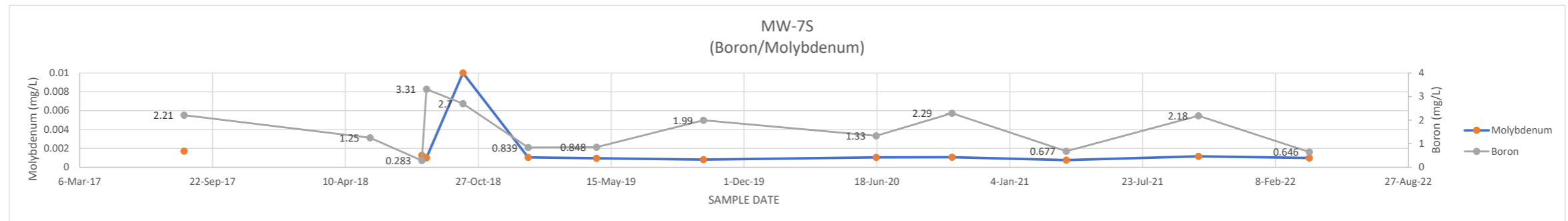
- F-1: CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS
- F-2: CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS
- F-3A: CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS
- F-3B: CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS
- F-4: CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS
- F-5: CHANGES IN CALCIUM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

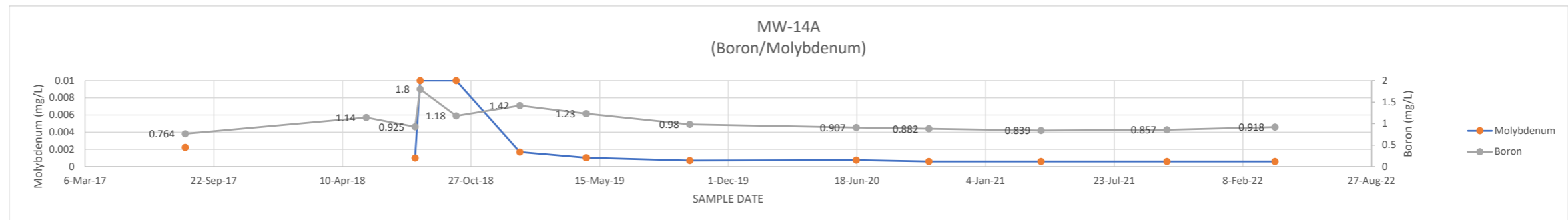
MW-5S	BORON	MOLYBDENUM
DATE		
14-Aug-17	1.29	0.00737
22-May-18	1.05	
1-Aug-18	1.06	0.00497
10-Aug-18	3.09	0.00387
2-Oct-18	2.82	0.005
10-Jan-19	2.73	0.00512
23-Apr-19	1.87	0.00485
2-Oct-19	2.49	0.00315
18-Jun-20	0.811	0.00361
12-Oct-20	2.57	0.00244
1-Apr-21	2.04	0.00234
14-Oct-21	1.82	0.00387
31-Mar-22	1.64	0.00257



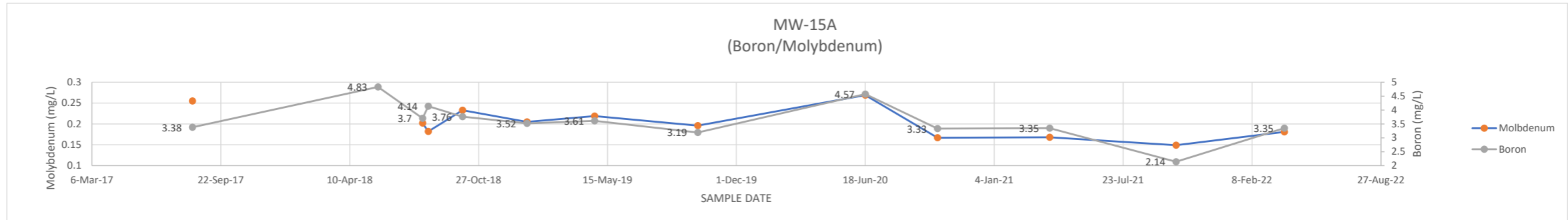
MW-7S	BORON	MOLYBDENUM
DATE		
10-Aug-17	2.21	0.00171
17-May-18	1.25	
3-Aug-18	0.283	0.00127
10-Aug-18	3.31	0.001
4-Oct-18	2.7	0.01
10-Jan-19	0.839	0.00105
23-Apr-19	0.848	0.000952
1-Oct-19	1.99	0.000798
17-Jun-20	1.33	0.00105
9-Oct-20	2.29	0.00106
30-Mar-21	0.677	0.000755
15-Oct-21	2.18	0.00115
31-Mar-22	0.646	0.000973



MW-14A	BORON	MOLYBDENUM
DATE		
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
30-Mar-22	0.918	0.0006

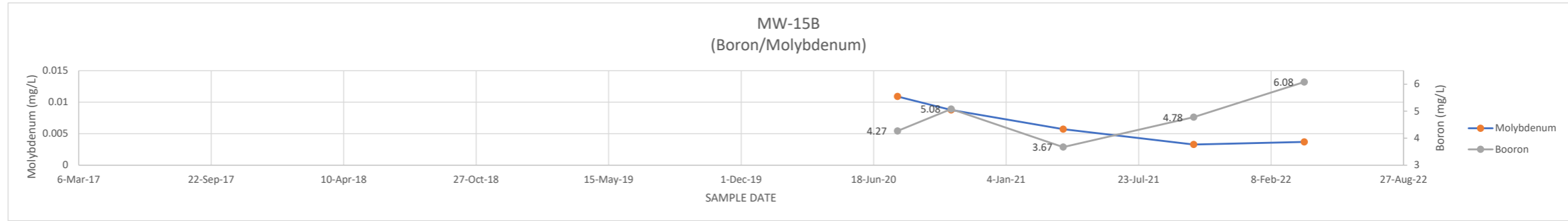


MW-15A	BORON	MOLYBDENUM
DATE		
9-Aug-17	3.38	0.255
24-May-18	4.83	
1-Aug-18	3.7	0.202
10-Aug-18	4.14	0.182
2-Oct-18	3.76	0.233
10-Jan-19	3.52	0.205
25-Apr-19	3.61	0.219
2-Oct-19	3.19	0.196
18-Jun-20	4.57	0.269
8-Oct-20	3.33	0.167
31-Mar-21	3.35	0.168
13-Oct-21	2.14	0.149
30-Mar-22	3.35	0.181

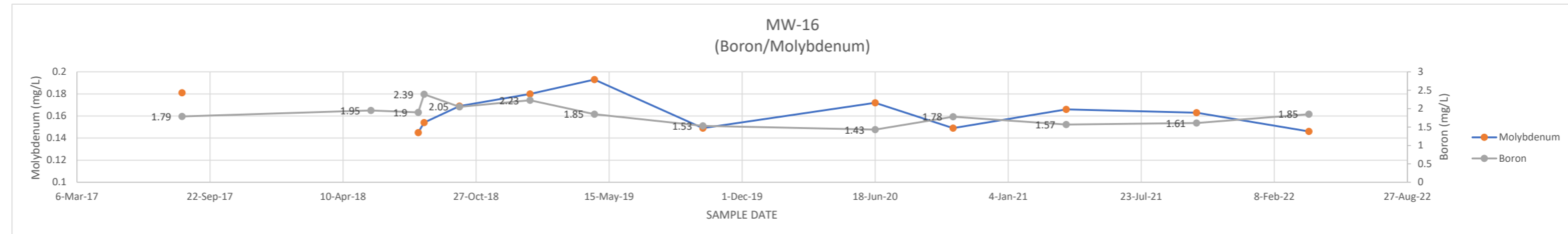


ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

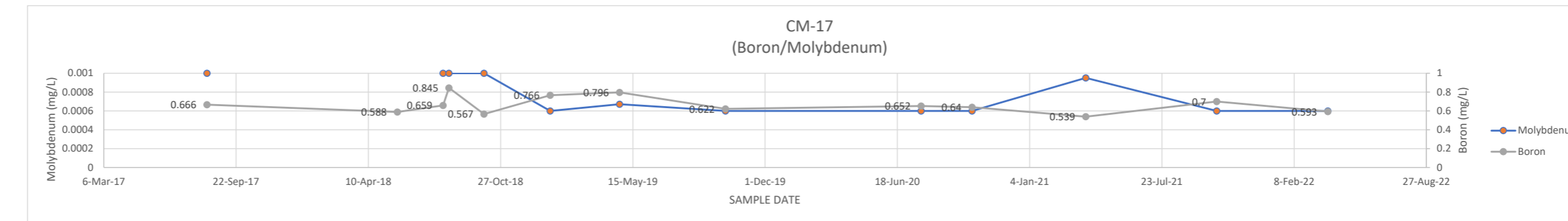
MW-15B	BORON	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4.27	0.0109
13-Oct-20	5.08	0.00876
31-Mar-21	3.67	0.00571
14-Oct-21	4.78	0.00328
30-Mar-22	6.08	0.0037



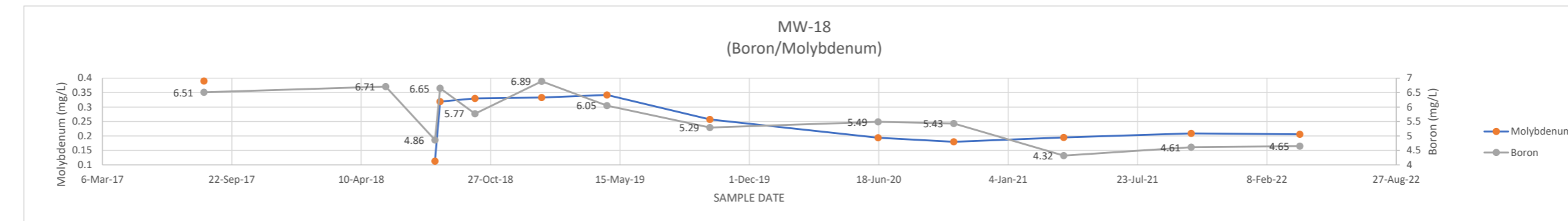
MW-16	BORON	MOLYBDENUM
DATE		
11-Aug-17	1.79	0.181
22-May-18	1.95	
1-Aug-18	1.9	0.145
10-Aug-18	2.39	0.154
2-Oct-18	2.05	0.169
16-Jan-19	2.23	0.18
23-Apr-19	1.85	0.193
3-Oct-19	1.53	0.149
18-Jun-20	1.43	0.172
13-Oct-20	1.78	0.149
1-Apr-21	1.57	0.166
14-Oct-21	1.61	0.163
1-Apr-22	1.85	0.146



MW-17	BORON	MOLYBDENUM
DATE		
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
31-Mar-22	0.593	0.0006

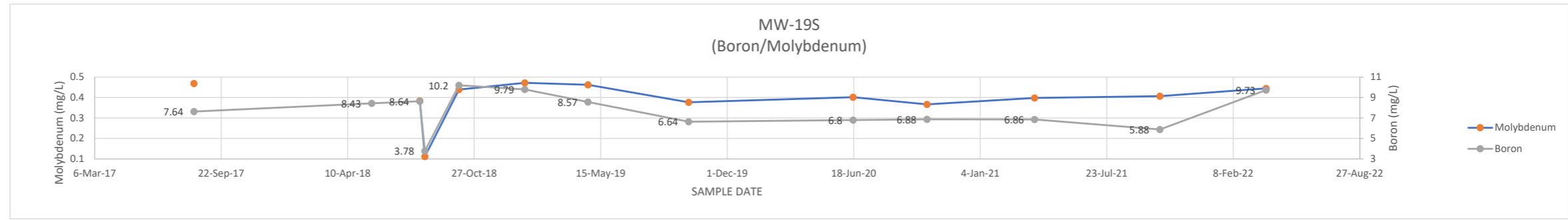


MW-18	BORON	MOLYBDENUM
DATE		
10-Aug-17	6.51	0.39
18-May-18	6.71	
2-Aug-18	4.86	0.113
10-Aug-18	6.65	0.319
3-Oct-18	5.77	0.33
14-Jan-19	6.89	0.333
25-Apr-19	6.05	0.342
1-Oct-19	5.29	0.257
17-Jun-20	5.49	0.194
12-Oct-20	5.43	0.18
31-Mar-21	4.32	0.195
14-Oct-21	4.61	0.209
31-Mar-22	4.65	0.206

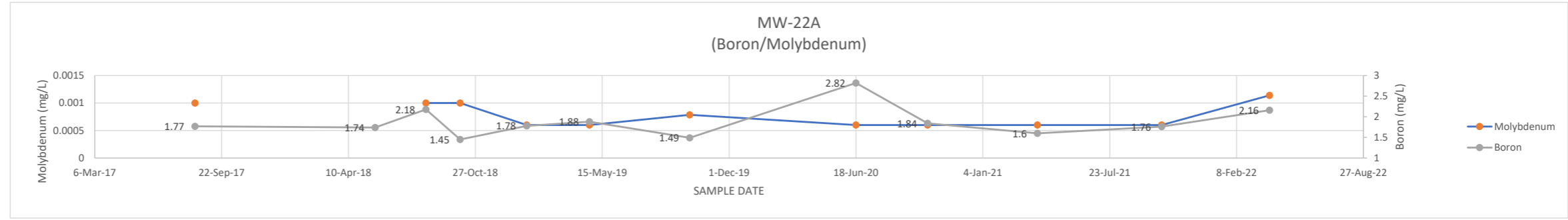


ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

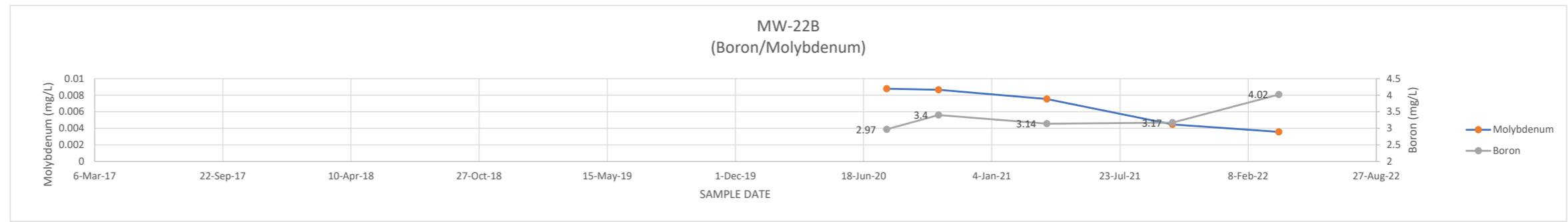
MW-19S DATE	BORON	MOLYBDENUM
10-Aug-17	7.64	0.469
18-May-18	8.43	
2-Aug-18	8.64	0.384
10-Aug-18	3.78	0.112
3-Oct-18	10.2	0.439
15-Jan-19	9.79	0.472
25-Apr-19	8.57	0.462
1-Oct-19	6.64	0.377
17-Jun-20	6.8	0.402
12-Oct-20	6.88	0.367
31-Mar-21	6.86	0.398
15-Oct-21	5.88	0.407
1-Apr-22	9.73	0.445



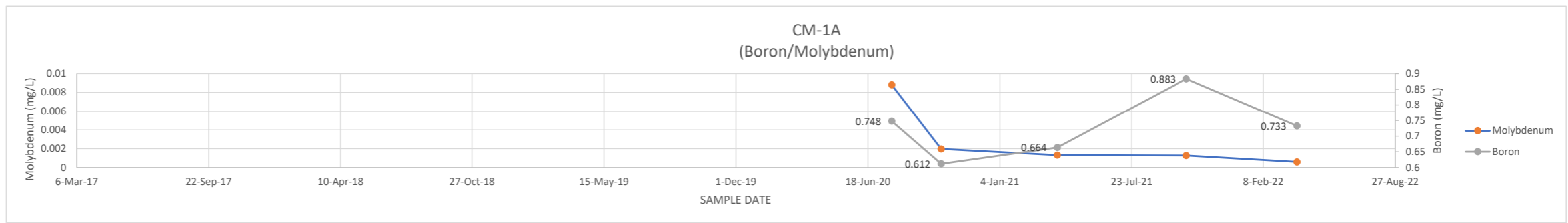
MW-22A DATE	BORON	MOLYBDENUM
11-Aug-17	1.77	0.001
22-May-18	1.74	
10-Aug-18	2.18	0.001
3-Oct-18	1.45	0.001
16-Jan-19	1.78	0.0006
25-Apr-19	1.88	0.0006
30-Sep-19	1.49	0.000787
18-Jun-20	2.82	0.0006
9-Oct-20	1.84	0.0006
31-Mar-21	1.6	0.0006
13-Oct-21	1.76	0.0006
1-Apr-22	2.16	0.00114



MW-22B 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	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
28-Mar-22	4.02	0.00357

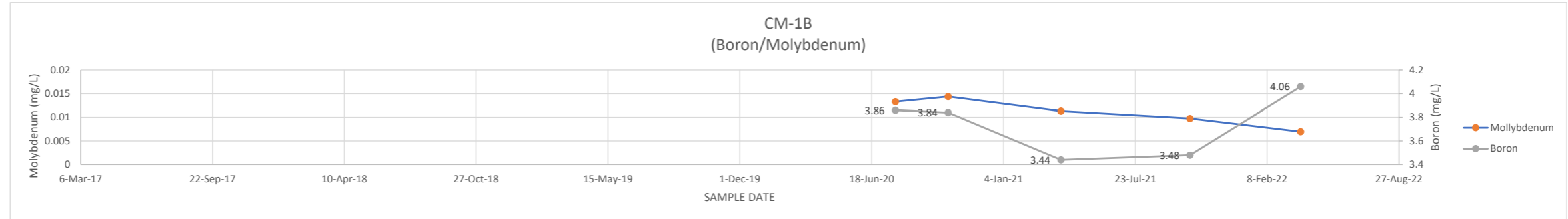


CM-1A DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.748	0.0088
7-Oct-20	0.612	0.00198
1-Apr-21	0.664	0.00132
14-Oct-21	0.883	0.00127
31-Mar-22	0.733	0.0006

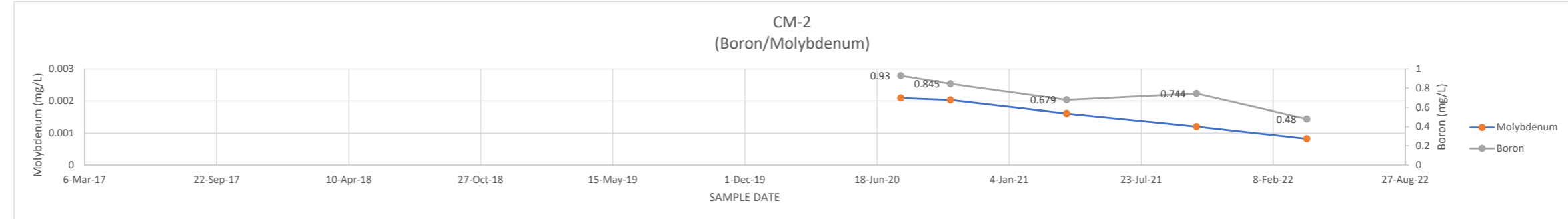


ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

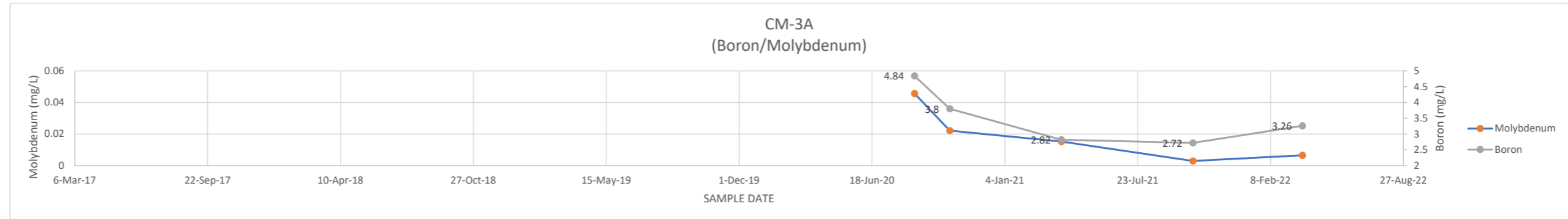
CM-1B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.86	0.0133
12-Oct-20	3.84	0.0144
1-Apr-21	3.44	0.0113
14-Oct-21	3.48	0.00976
31-Mar-22	4.06	0.00696



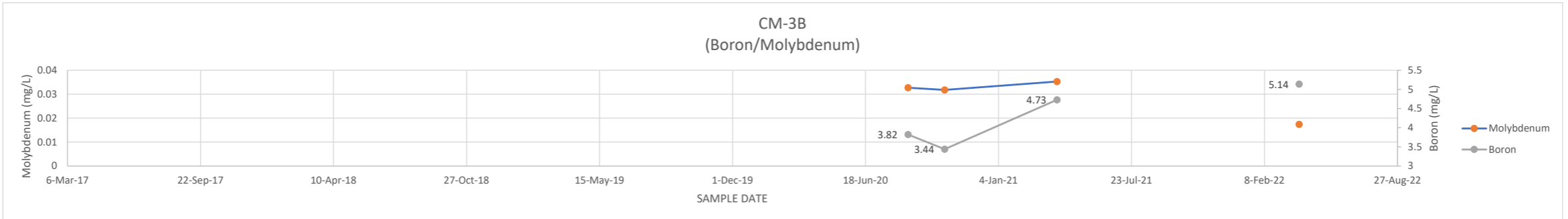
CM-2 DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.93	0.00209
7-Oct-20	0.845	0.00203
1-Apr-21	0.679	0.00161
15-Oct-21	0.744	0.0012
31-Mar-22	0.48	0.00082



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
28-Mar-22	3.26	0.00656

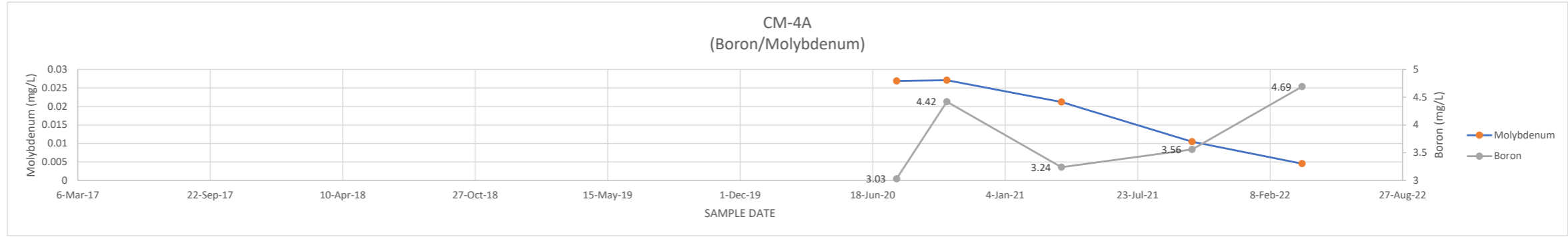


CM-3B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	3.82	0.0327
15-Oct-20	3.44	0.0318
2-Apr-21	4.73	0.0353
11-Oct-21		
1-Apr-22	5.14	0.0174

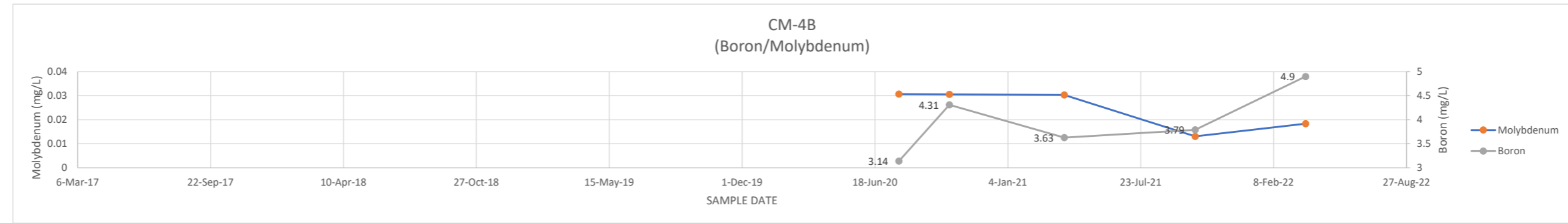


ATTACHMENT F-1
CHANGES IN BORON AND MOLYBDENUM CONCENTRATIONS

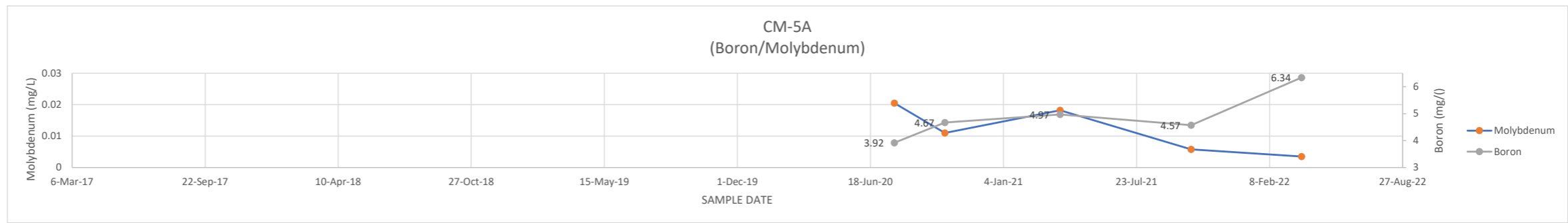
CM-4A DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.03	0.0269
8-Oct-20	4.42	0.0271
30-Mar-21	3.24	0.0212
13-Oct-21	3.56	0.0105
28-Mar-22	4.69	0.00455



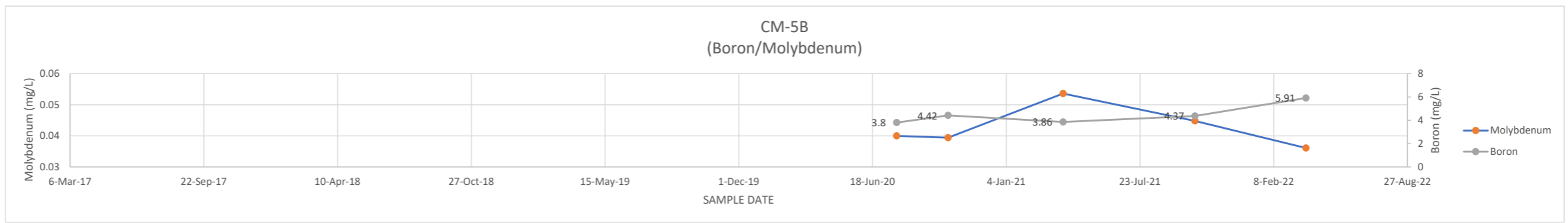
CM-4B DATE	BORON	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.14	0.0307
8-Oct-20	4.31	0.0306
30-Mar-21	3.63	0.0303
13-Oct-21	3.79	0.0131
28-Mar-22	4.9	0.0184



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
28-Mar-22	6.34	0.00351



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
28-Mar-22	5.91	0.0361

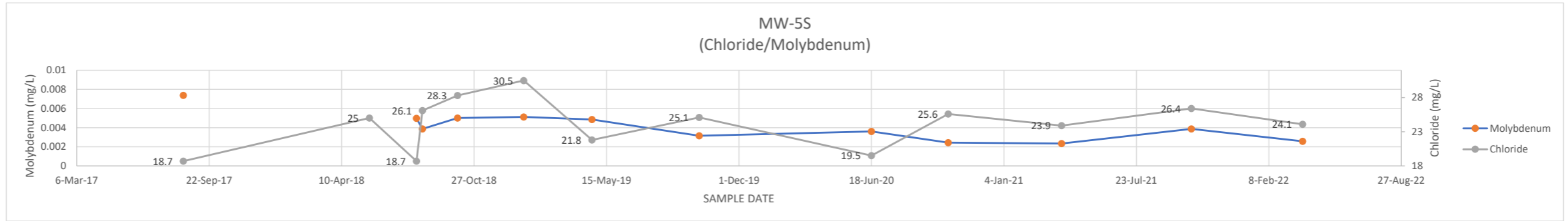


Yellow Indicates Reported Below shown value (MDL)

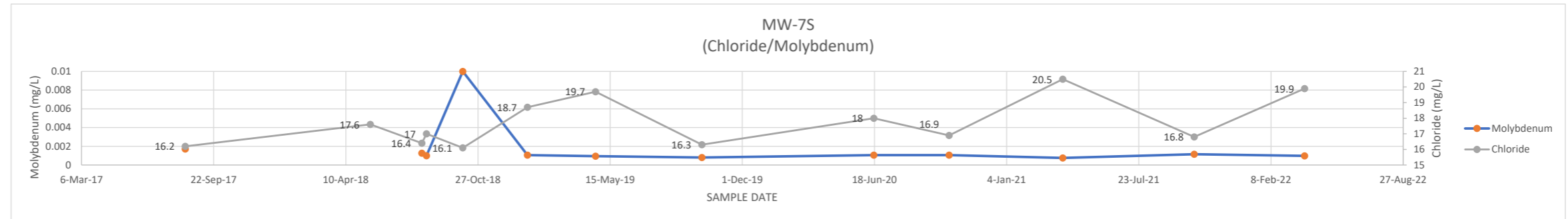
ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

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	
31-Mar-22	24.1	0.00257	

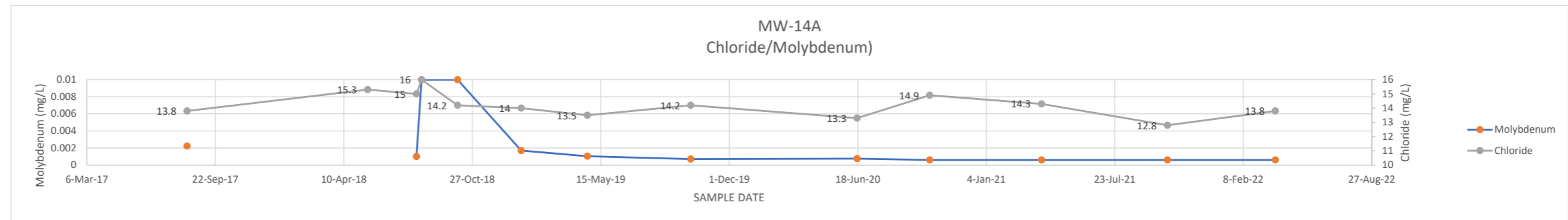
Value denoted in red from June 2022 resample



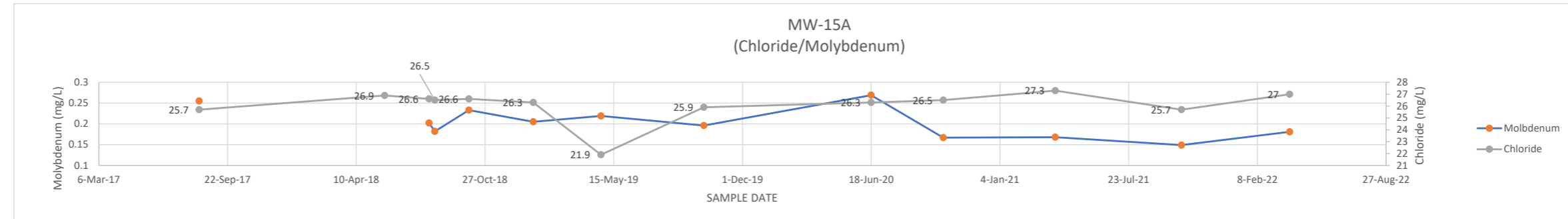
MW-7S	DATE	CHLORIDE	MOLYBDENUM
10-Aug-17	16.2	0.00171	
17-May-18	17.6		
3-Aug-18	16.4	0.00127	
10-Aug-18	17	0.001	
4-Oct-18	16.1	0.01	
10-Jan-19	18.7	0.00105	
23-Apr-19	19.7	0.000952	
1-Oct-19	16.3	0.000798	
17-Jun-20	18	0.00105	
9-Oct-20	16.9	0.00106	
30-Mar-21	20.5	0.000755	
15-Oct-21	16.8	0.00115	
31-Mar-22	19.9	0.000973	



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	
30-Mar-22	13.8	0.0006	

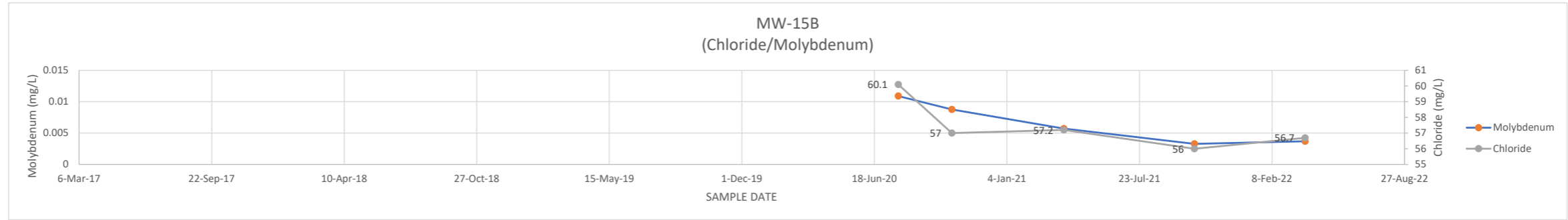


MW-15A	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17	25.7	0.255	
24-May-18	26.9		
1-Aug-18	26.6	0.202	
10-Aug-18	26.5	0.182	
2-Oct-18	26.6	0.233	
10-Jan-19	26.3	0.205	
25-Apr-19	21.9	0.219	
2-Oct-19	25.9	0.196	
18-Jun-20	26.3	0.269	
8-Oct-20	26.5	0.167	
31-Mar-21	27.3	0.168	
13-Oct-21	25.7	0.149	
30-Mar-22	27	0.181	

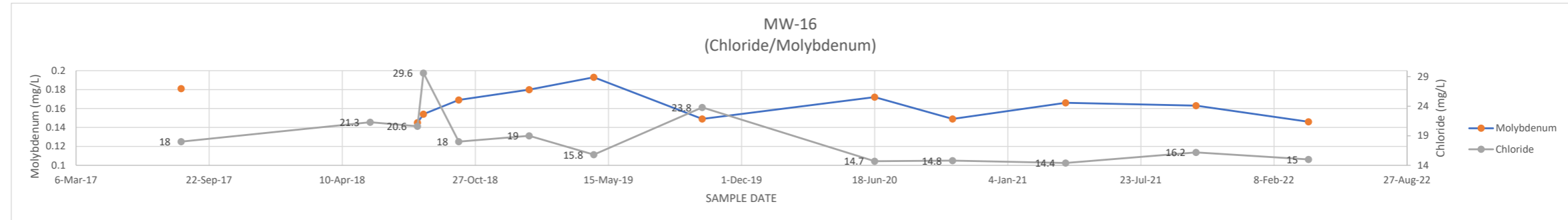


ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

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	
30-Mar-22	56.7	0.0037	

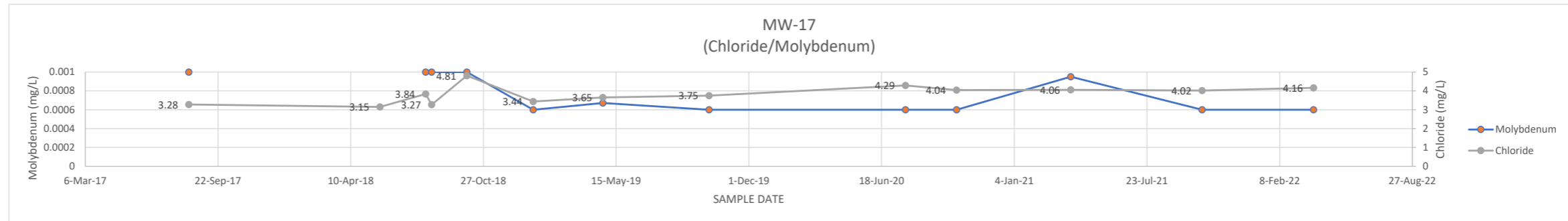


MW-16	DATE	CHLORIDE	MOLYBDENUM
11-Aug-17		18	0.181
22-May-18		21.3	
1-Aug-18		20.6	0.145
10-Aug-18		29.6	0.154
2-Oct-18		18	0.169
16-Jan-19		19	0.18
23-Apr-19		15.8	0.193
3-Oct-19		23.8	0.149
18-Jun-20	14.7	0.172	
13-Oct-20	14.8	0.149	
1-Apr-21	14.4	0.166	
14-Oct-21	16.2	0.163	
1-Apr-22	15	0.146	



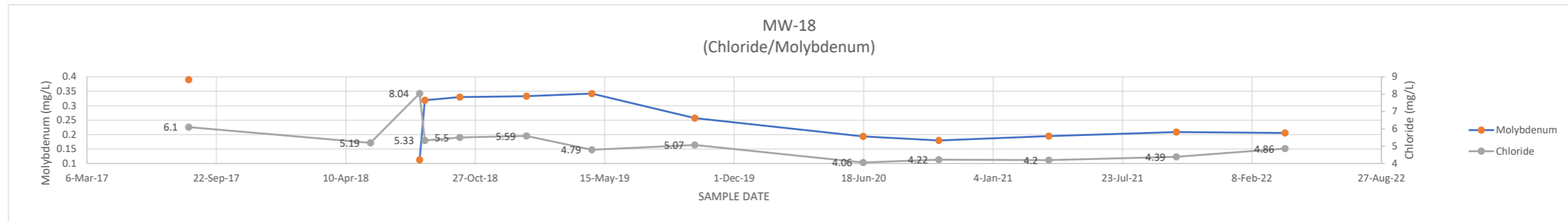
Value denoted in red from June 2022 resample

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	
31-Mar-22	4.16	0.0006	



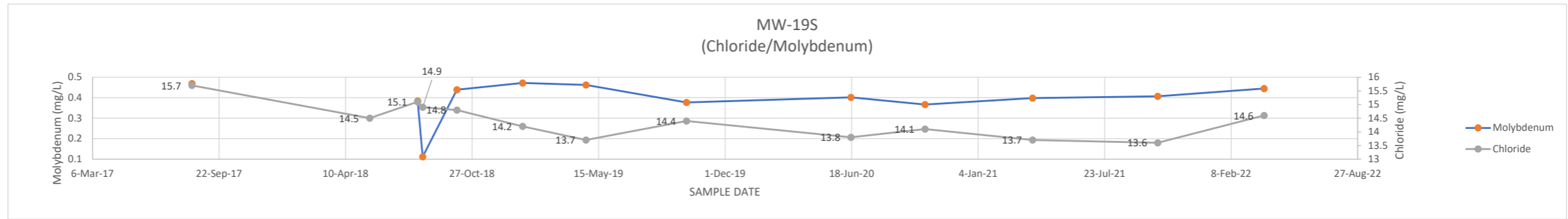
Value denoted in red from June 2022 resample

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	
31-Mar-22	4.86	0.206	

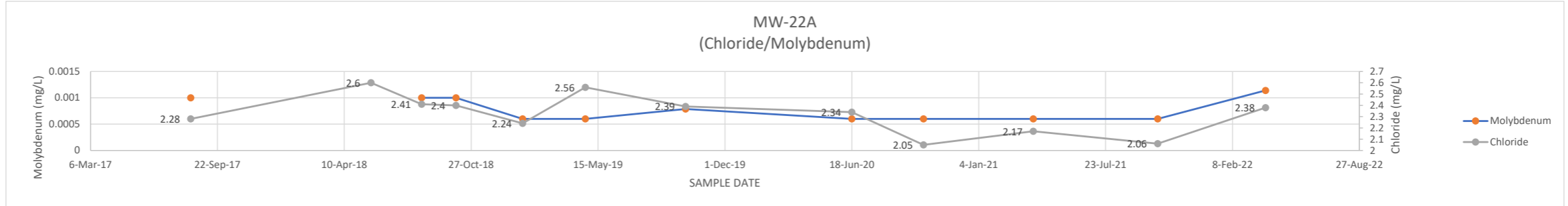


ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

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	
1-Apr-22	14.6	0.445	

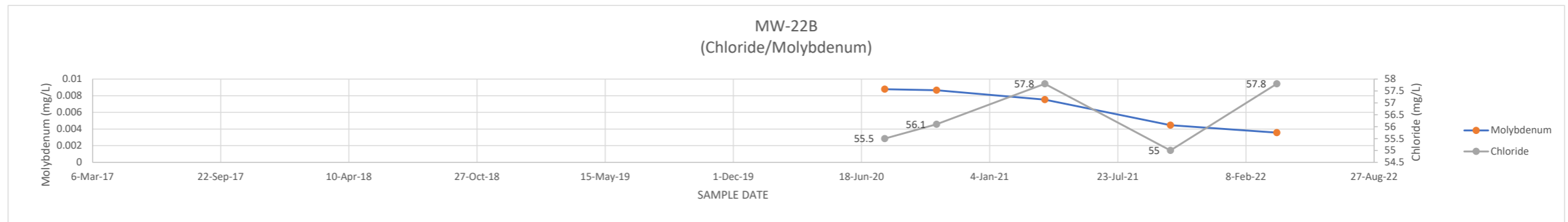


MW-22A	DATE	CHLORIDE	MOLYBDENUM
11-Aug-17	2.28	0.001	
22-May-18	2.6		
10-Aug-18	2.41	0.001	
3-Oct-18	2.4	0.001	
16-Jan-19	2.24	0.0006	
25-Apr-19	2.56	0.0006	
30-Sep-19	2.39	0.000787	
18-Jun-20	2.34	0.0006	
9-Oct-20	2.05	0.0006	
31-Mar-21	2.17	0.0006	
13-Oct-21	2.06	0.0006	
1-Apr-22	2.38	0.00114	

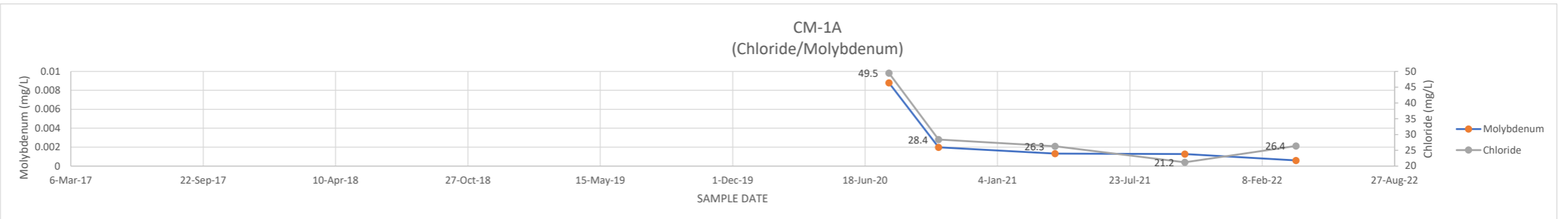


Value denoted in red from June 2022 resample

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	
28-Mar-22	57.8	0.00357	

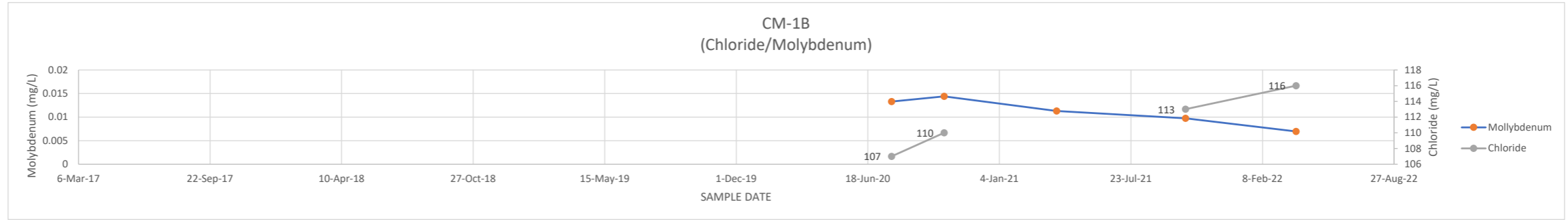


CM-1A	DATE	CHLORIDE	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	49.5	0.0088	
7-Oct-20	28.4	0.00198	
1-Apr-21	26.3	0.00132	
14-Oct-21	21.2	0.00127	
31-Mar-22	26.4	0.0006	

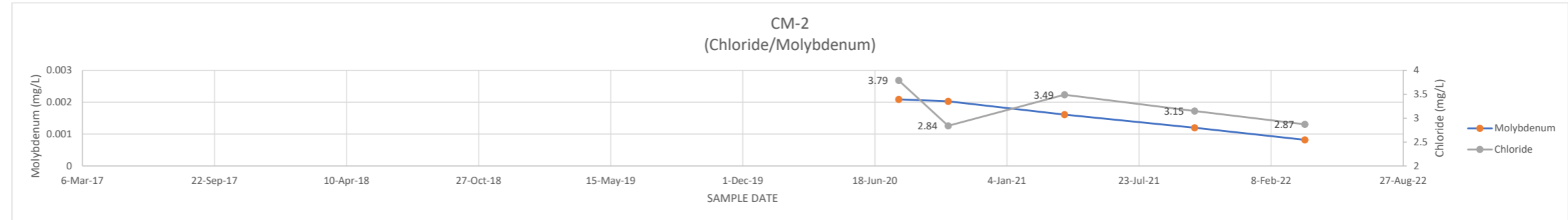


ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

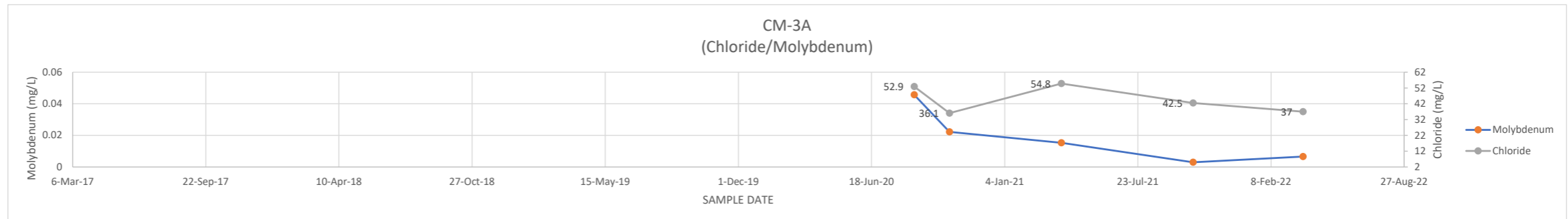
CM-1B	CHLORIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	107	0.0133
12-Oct-20	110	0.0144
1-Apr-21		0.0113
14-Oct-21	113	0.00976
31-Mar-22	116	0.00696



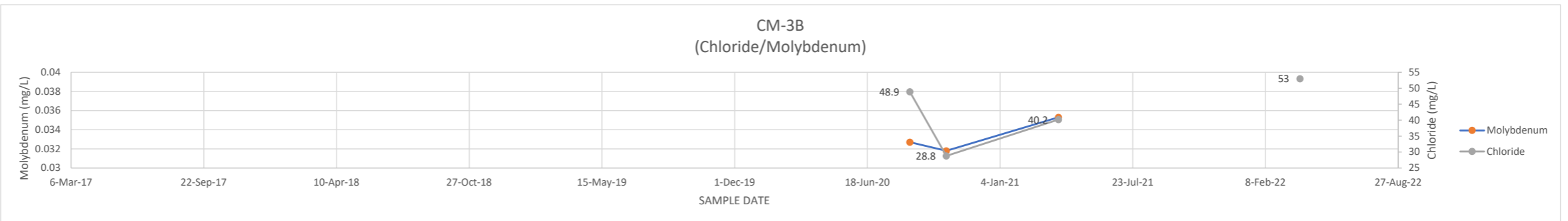
CM-2	CHLORIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.79	0.00209
7-Oct-20	2.84	0.00203
1-Apr-21	3.49	0.00161
15-Oct-21	3.15	0.0012
31-Mar-22	2.87	0.00082



CM-3A	CHLORIDE	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	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
28-Mar-22	37	0.00656

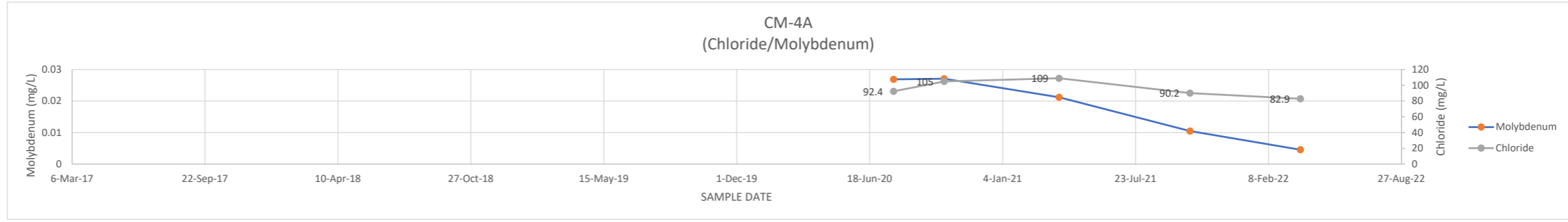


CM-3B	CHLORIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	48.9	0.0327
15-Oct-20	28.8	0.0318
2-Apr-21	40.2	0.0353
11-Oct-21		
1-Apr-22	53	0.0174

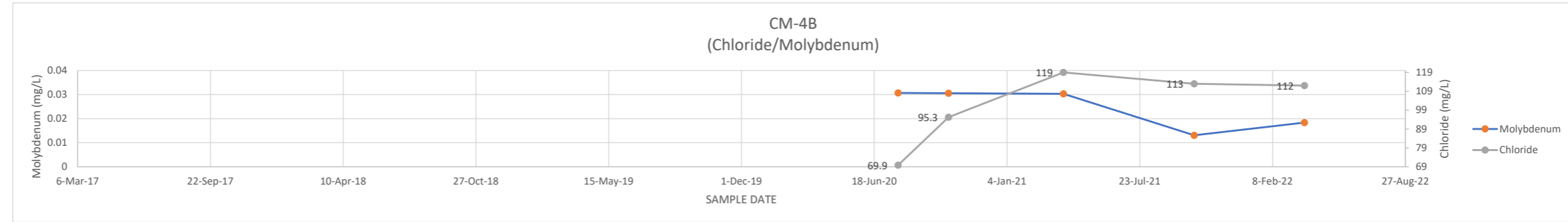


ATTACHMENT F-2
CHANGES IN CHLORIDE AND MOLYBDENUM CONCENTRATIONS

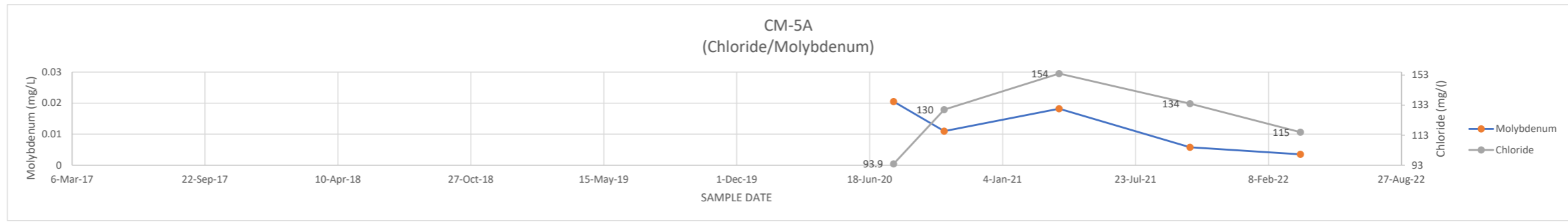
CM-4A DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	92.4	0.0269
8-Oct-20	105	0.0271
30-Mar-21	109	0.0212
13-Oct-21	90.2	0.0105
28-Mar-22	82.9	0.00455



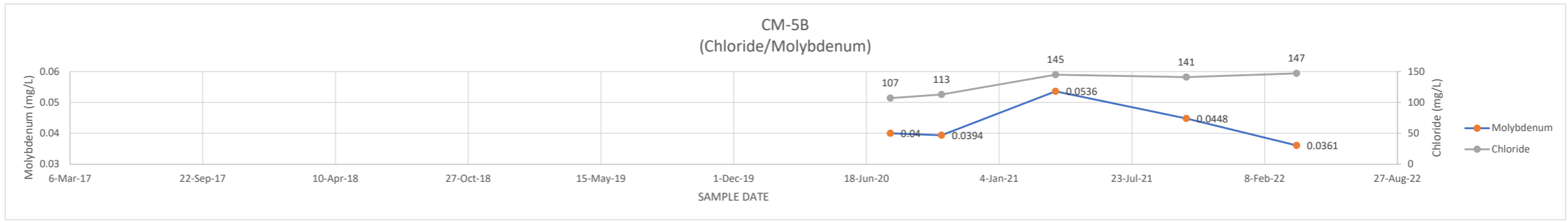
CM-4B DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	69.9	0.0307
8-Oct-20	95.3	0.0306
30-Mar-21	119	0.0303
13-Oct-21	113	0.0131
28-Mar-22	112	0.0184



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
28-Mar-22	115	0.00351



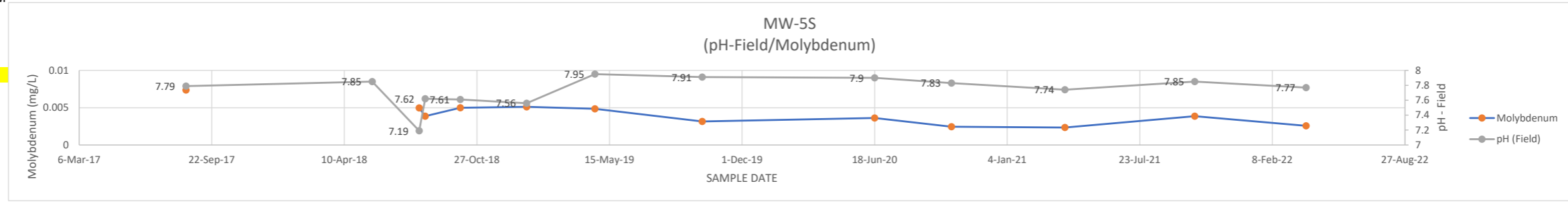
CM-5B DATE	CHLORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	107	0.04
9-Oct-20	113	0.0394
30-Mar-21	145	0.0536
13-Oct-21	141	0.0448
28-Mar-22	147	0.0361



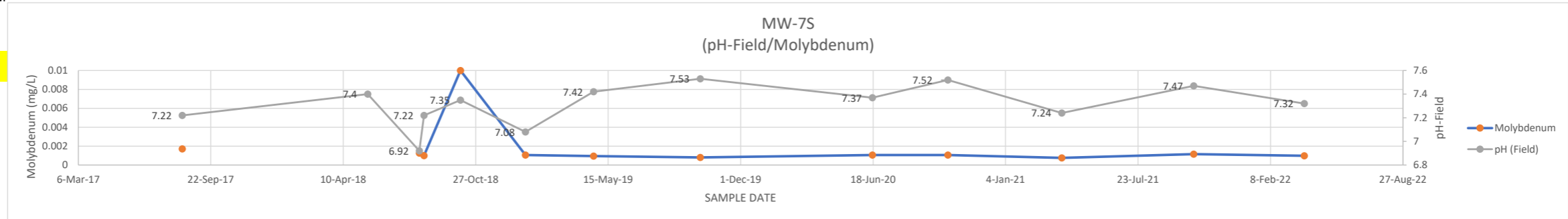
Yellow Indicates Reported Below shown value (MDL)

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

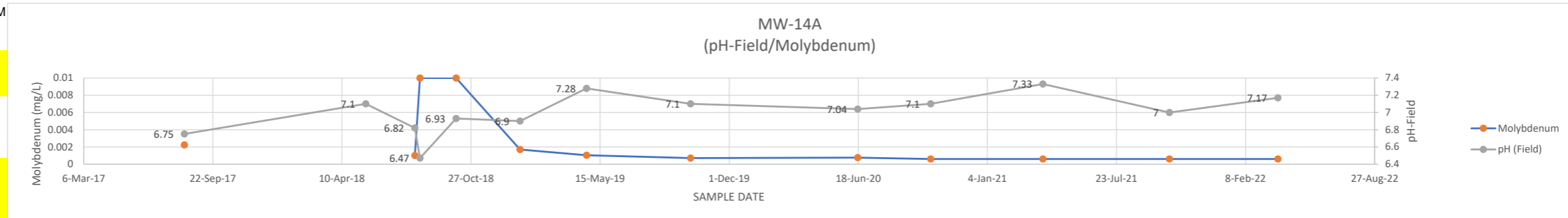
MW-5S	DATE	pH Field	MOLYBDENUM
14-Aug-17	7.79	0.00737	
22-May-18	7.85		
1-Aug-18	7.19	0.00497	
10-Aug-18	7.62	0.00387	
2-Oct-18	7.61	0.005	
10-Jan-19	7.56	0.00512	
23-Apr-19	7.95	0.00485	
2-Oct-19	7.91	0.00315	
18-Jun-20	7.9	0.00361	
12-Oct-20	7.83	0.00244	
1-Apr-21	7.74	0.00234	
14-Oct-21	7.85	0.00387	
31-Mar-22	7.77	0.00257	



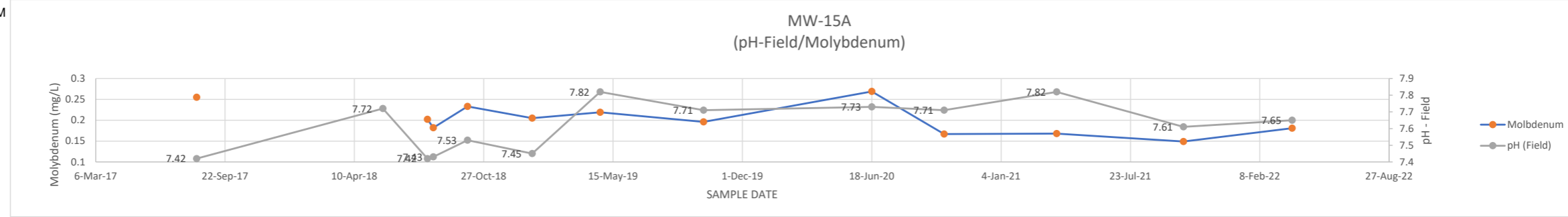
MW-7S	DATE	pH Field	MOLYBDENUM
10-Aug-17	7.22	0.00171	
17-May-18	7.4		
3-Aug-18	6.92	0.00127	
10-Aug-18	7.22	0.001	
4-Oct-18	7.35	0.01	
10-Jan-19	7.08	0.00105	
23-Apr-19	7.42	0.000952	
1-Oct-19	7.53	0.000798	
17-Jun-20	7.37	0.00105	
9-Oct-20	7.52	0.00106	
30-Mar-21	7.24	0.000755	
15-Oct-21	7.47	0.00115	
31-Mar-22	7.32	0.000973	



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	
30-Mar-22	7.17	0.0006	

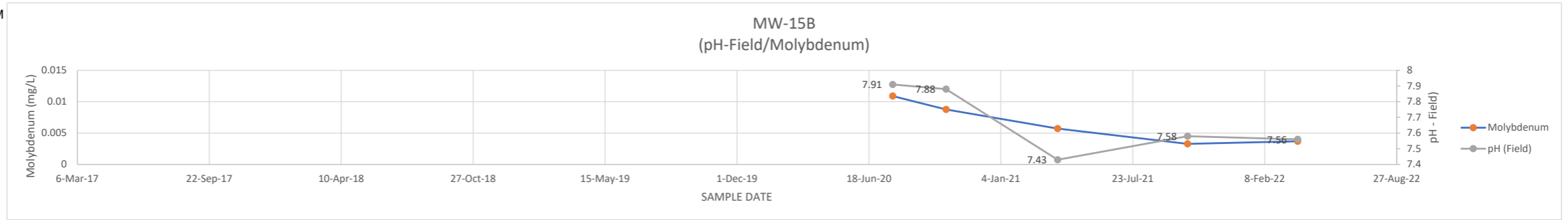


MW-15A	DATE	pH Field	MOLYBDENUM
9-Aug-17	7.42	0.255	
24-May-18	7.72		
1-Aug-18	7.42	0.202	
10-Aug-18	7.43	0.182	
2-Oct-18	7.53	0.233	
10-Jan-19	7.45	0.205	
25-Apr-19	7.82	0.219	
2-Oct-19	7.71	0.196	
18-Jun-20	7.73	0.269	
8-Oct-20	7.71	0.167	
31-Mar-21	7.82	0.168	
13-Oct-21	7.61	0.149	
30-Mar-22	7.65	0.181	

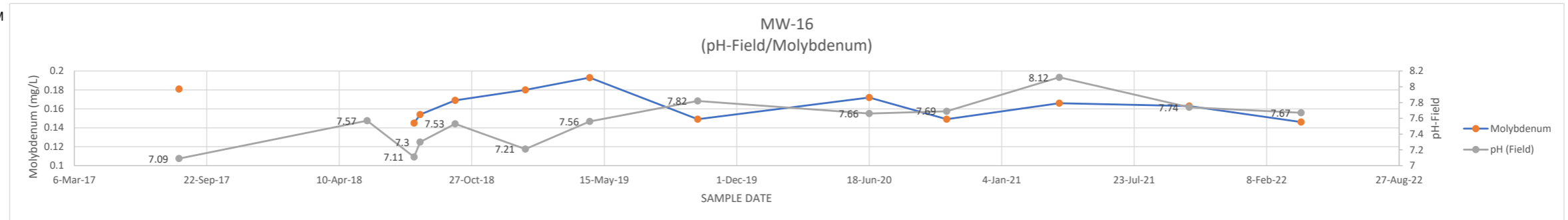


ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

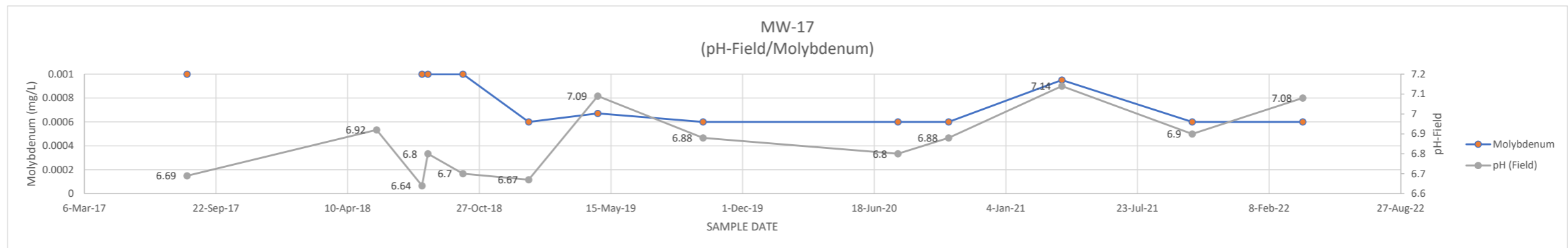
MW-15B	DATE	pH Field	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20	7.91	0.0109
	13-Oct-20	7.88	0.00876
	31-Mar-21	7.43	0.00571
	14-Oct-21	7.58	0.00328
	30-Mar-22	7.56	0.0037



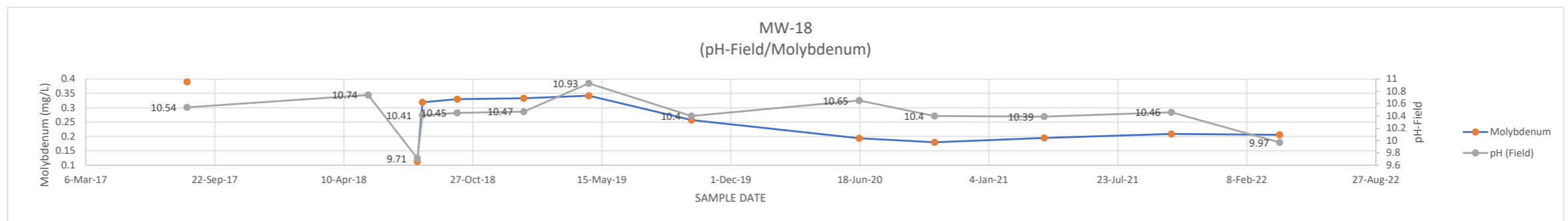
MW-16	DATE	pH Field	MOLYBDENUM
	11-Aug-17	7.09	0.181
	22-May-18	7.57	
	1-Aug-18	7.11	0.145
	10-Aug-18	7.3	0.154
	2-Oct-18	7.53	0.169
	16-Jan-19	7.21	0.18
	23-Apr-19	7.56	0.193
	3-Oct-19	7.82	0.149
	18-Jun-20	7.66	0.172
	13-Oct-20	7.69	0.149
	1-Apr-21	8.12	0.166
	14-Oct-21	7.74	0.163
	1-Apr-22	7.67	0.146



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
	31-Mar-22	7.08	0.0006

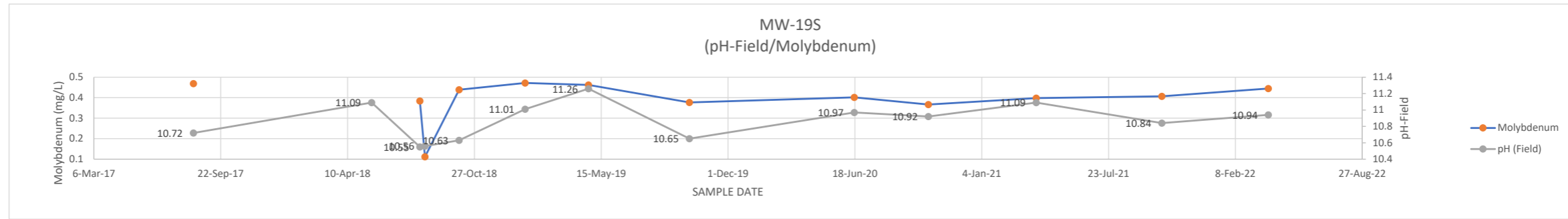


MW-18	DATE	pH Field	MOLYBDENUM
	10-Aug-17	10.54	0.39
	18-May-18	10.74	
	2-Aug-18	9.71	0.113
	10-Aug-18	10.41	0.319
	3-Oct-18	10.45	0.33
	14-Jan-19	10.47	0.333
	25-Apr-19	10.93	0.342
	1-Oct-19	10.4	0.257
	17-Jun-20	10.65	0.194
	12-Oct-20	10.4	0.18
	31-Mar-21	10.39	0.195
	14-Oct-21	10.46	0.209
	31-Mar-22	9.97	0.206

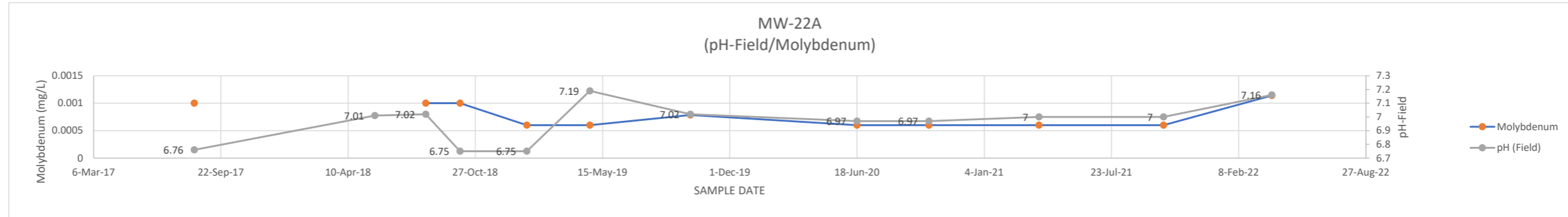


ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

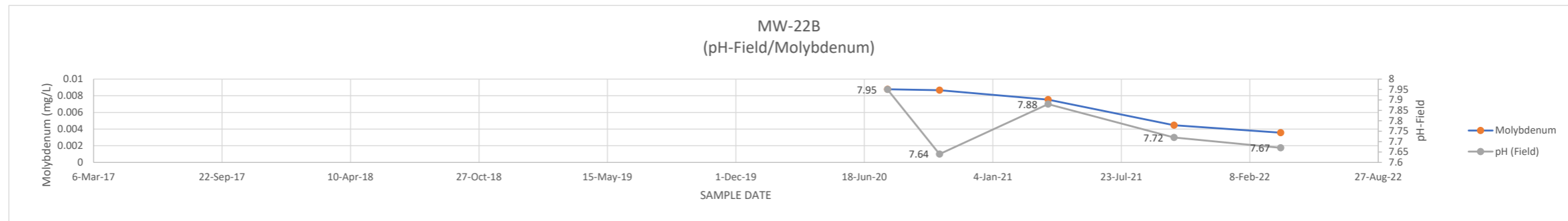
MW-19S	DATE	pH Field	MOLYBDENUM
10-Aug-17	10.72	0.469	
18-May-18	11.09		
2-Aug-18	10.55	0.384	
10-Aug-18	10.56	0.112	
3-Oct-18	10.63	0.439	
15-Jan-19	11.01	0.472	
25-Apr-19	11.26	0.462	
1-Oct-19	10.65	0.377	
17-Jun-20	10.97	0.402	
12-Oct-20	10.92	0.367	
31-Mar-21	11.09	0.398	
15-Oct-21	10.84	0.407	
1-Apr-22	10.94	0.445	



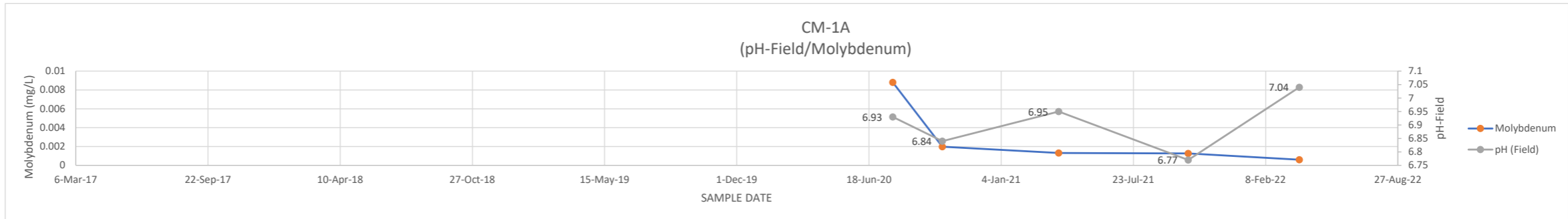
MW-22A	DATE	pH Field	MOLYBDENUM
11-Aug-17	6.76	0.001	
22-May-18	7.01		
10-Aug-18	7.02	0.001	
3-Oct-18	6.75	0.001	
16-Jan-19	6.75	0.0006	
25-Apr-19	7.19	0.0006	
30-Sep-19	7.02	0.000787	
18-Jun-20	6.97	0.0006	
9-Oct-20	6.97	0.0006	
31-Mar-21	7	0.0006	
13-Oct-21	7	0.0006	
1-Apr-22	7.16	0.00114	



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	
28-Mar-22	7.67	0.00357	

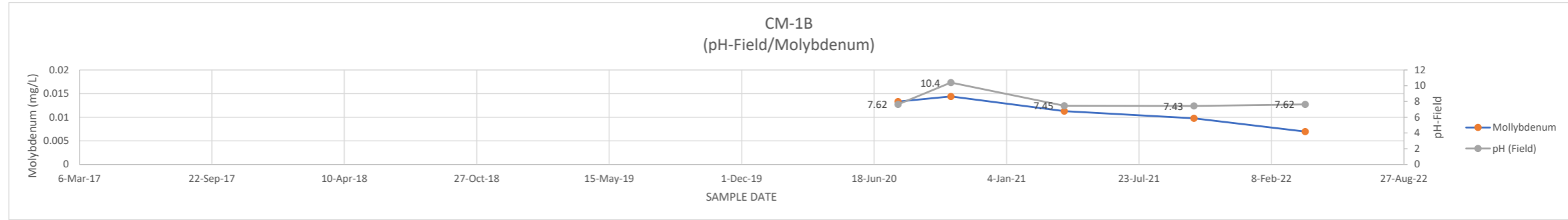


CM-1A	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	6.93	0.0088	
7-Oct-20	6.84	0.00198	
1-Apr-21	6.95	0.00132	
14-Oct-21	6.77	0.00127	
31-Mar-22	7.04	0.0006	

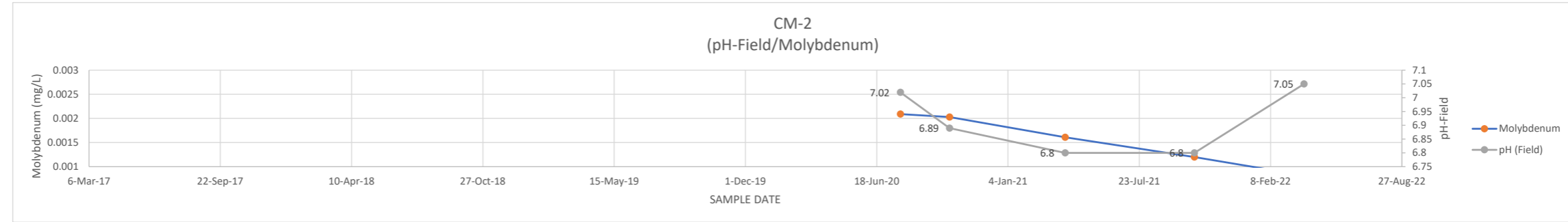


ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

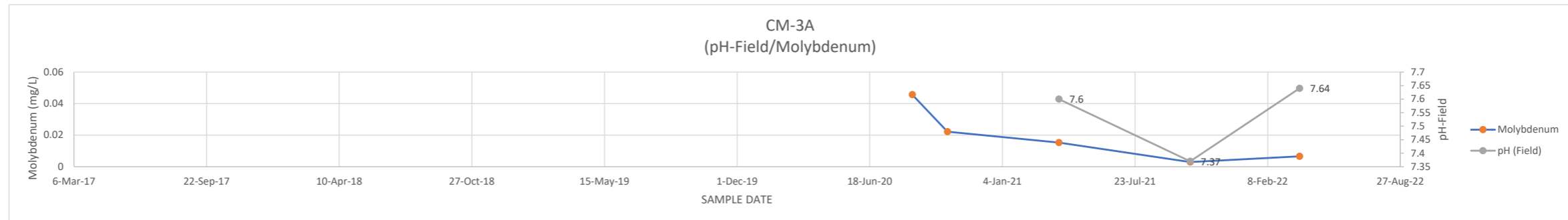
CM-1B	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	7.62	0.0133	
12-Oct-20	10.4	0.0144	
1-Apr-21	7.45	0.0113	
14-Oct-21	7.43	0.00976	
31-Mar-22	7.62	0.00696	



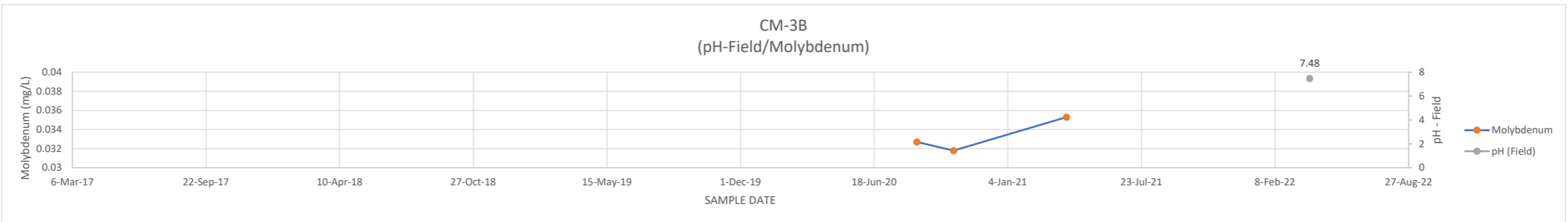
CM-2	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	7.02	0.00209	
7-Oct-20	6.89	0.00203	
1-Apr-21	6.8	0.00161	
15-Oct-21	6.8	0.0012	
31-Mar-22	7.05	0.00082	



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	
28-Mar-22	7.64	0.00656	

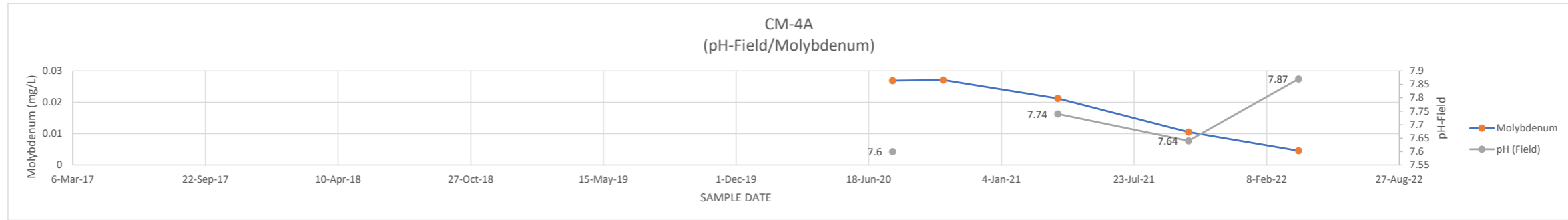


CM-3B	DATE	pH Field	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
21-Aug-20		0.0327	
15-Oct-20		0.0318	
2-Apr-21		0.0353	
11-Oct-21			
1-Apr-22	7.48	0.0174	

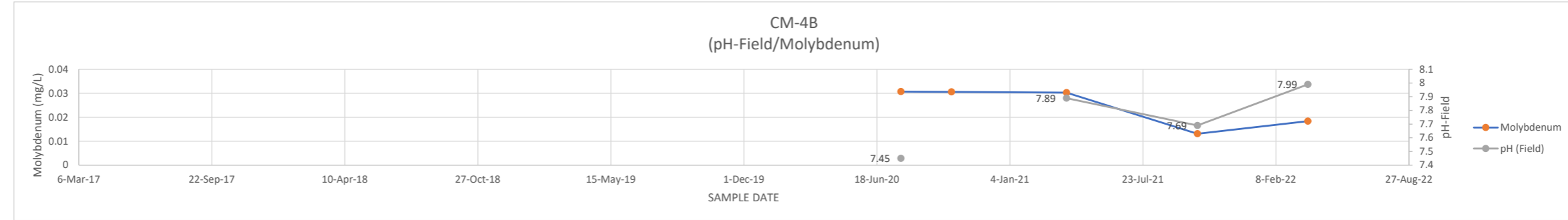


ATTACHMENT F-3A
CHANGES IN PH (FIELD) AND MOLYBDENUM CONCENTRATIONS

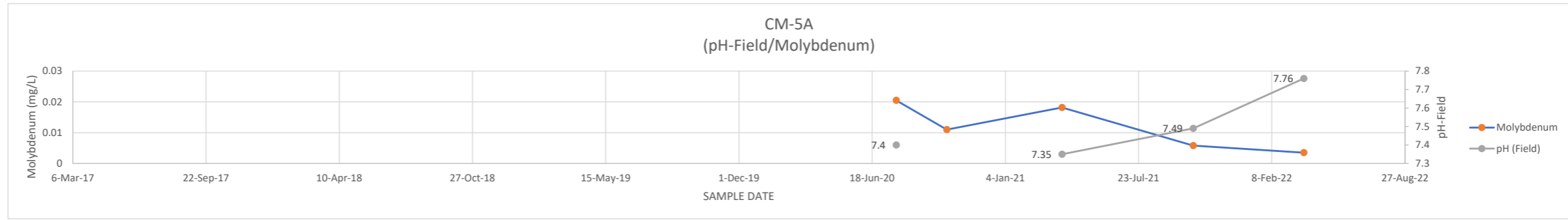
CM-4A	pH Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.6	0.0269
8-Oct-20		0.0271
30-Mar-21	7.74	0.0212
13-Oct-21	7.64	0.0105
28-Mar-22	7.87	0.00455



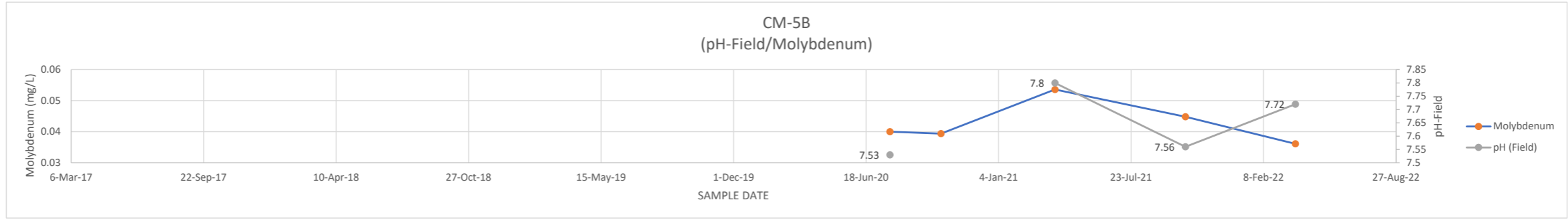
CM-4B	pH Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.45	0.0307
8-Oct-20		0.0306
30-Mar-21	7.89	0.0303
13-Oct-21	7.69	0.0131
28-Mar-22	7.99	0.0184



CM-5A	pH 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	7.4	0.0205
8-Oct-20		0.011
30-Mar-21	7.35	0.0182
13-Oct-21	7.49	0.0058
28-Mar-22	7.76	0.00351



CM-5B	pH 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	7.53	0.04
9-Oct-20		0.0394
30-Mar-21	7.8	0.0536
13-Oct-21	7.56	0.0448
28-Mar-22	7.72	0.0361

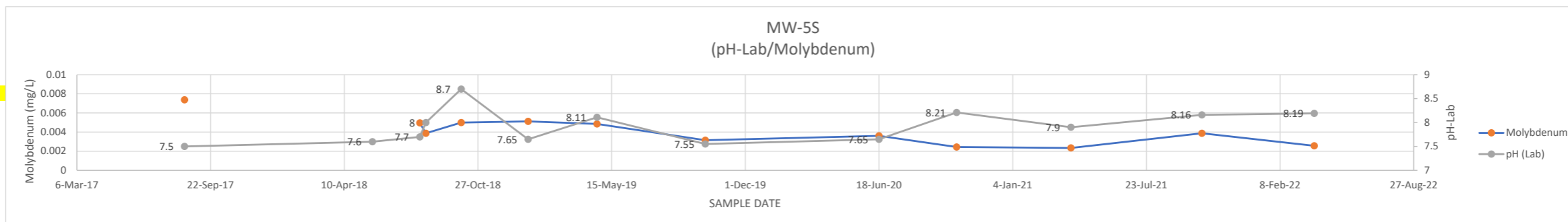


Yellow Indicates Reported Below shown value (MDL)

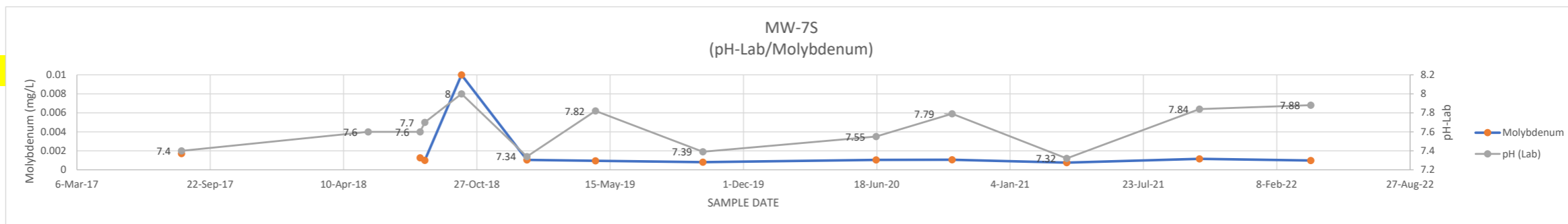
ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

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
31-Mar-22	8.19	0.00257

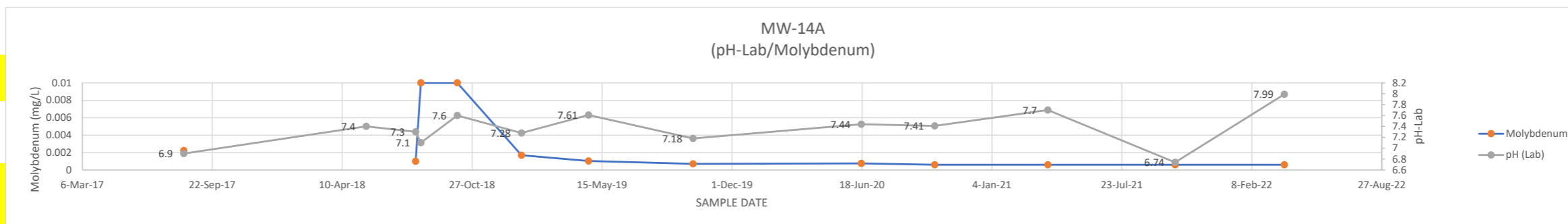
Value denoted in red from June 2022 resample



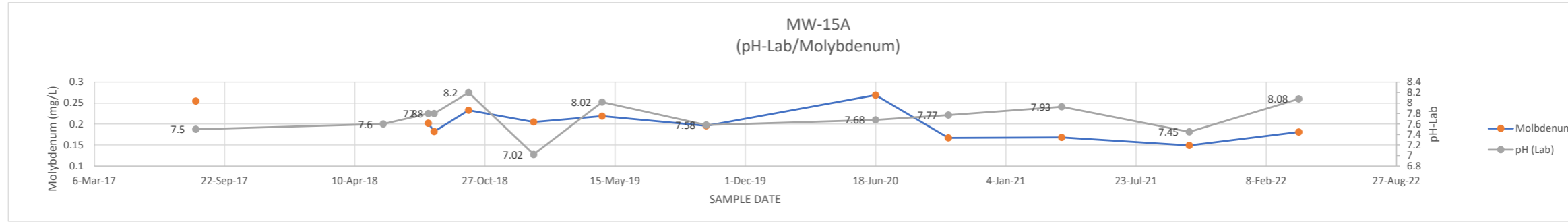
MW-7S	pH Lab	MOLYBDENUM
DATE		
10-Aug-17	7.4	0.00171
17-May-18	7.6	
3-Aug-18	7.6	0.00127
10-Aug-18	7.7	0.001
4-Oct-18	8	0.01
10-Jan-19	7.34	0.00105
23-Apr-19	7.82	0.000952
1-Oct-19	7.39	0.000798
17-Jun-20	7.55	0.00105
9-Oct-20	7.79	0.00106
30-Mar-21	7.32	0.000755
15-Oct-21	7.84	0.00115
31-Mar-22	7.88	0.000973



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
30-Mar-22	7.99	0.0006

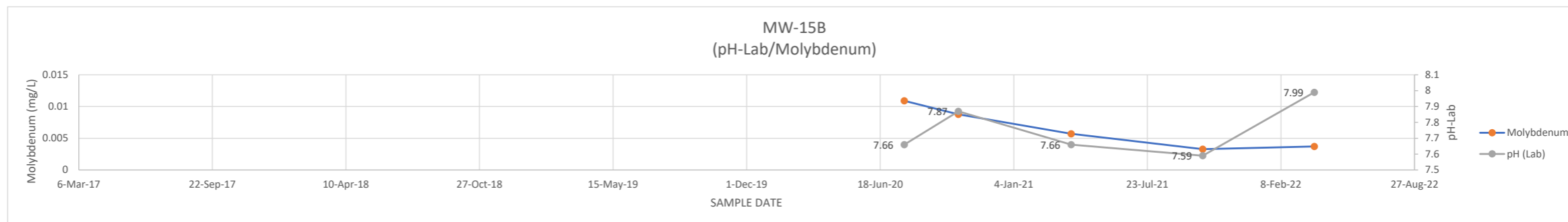


MW-15A	pH Lab	MOLYBDENUM
DATE		
9-Aug-17	7.5	0.255
24-May-18	7.6	
1-Aug-18	7.8	0.202
10-Aug-18	7.8	0.182
2-Oct-18	8.2	0.233
10-Jan-19	7.02	0.205
25-Apr-19	8.02	0.219
2-Oct-19	7.58	0.196
18-Jun-20	7.68	0.269
8-Oct-20	7.77	0.167
31-Mar-21	7.93	0.168
13-Oct-21	7.45	0.149
30-Mar-22	8.08	0.181

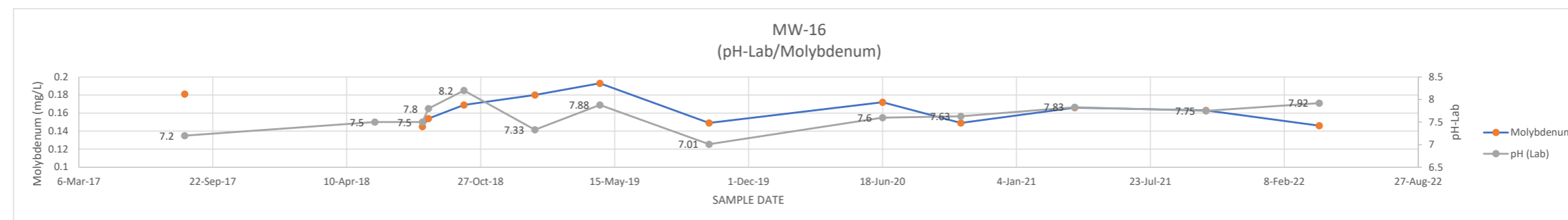


ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

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
30-Mar-22	7.99	0.0037

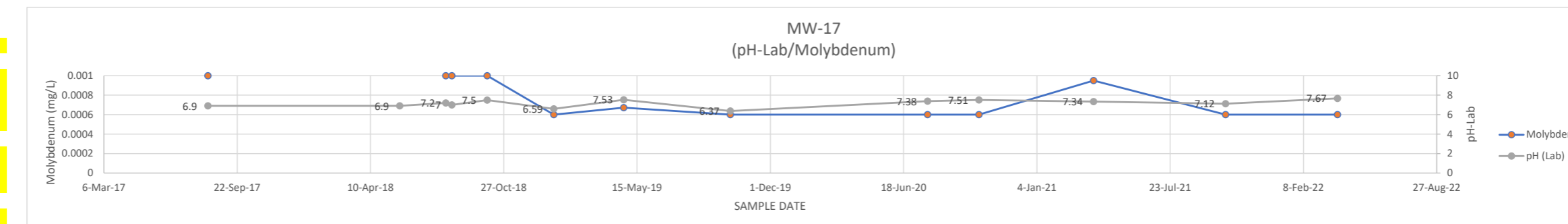


MW-16	pH Lab	MOLYBDENUM
DATE		
11-Aug-17	7.2	0.181
22-May-18	7.5	
1-Aug-18	7.5	0.145
10-Aug-18	7.8	0.154
2-Oct-18	8.2	0.169
16-Jan-19	7.33	0.18
23-Apr-19	7.88	0.193
3-Oct-19	7.01	0.149
18-Jun-20	7.6	0.172
13-Oct-20	7.63	0.149
1-Apr-21	7.83	0.166
14-Oct-21	7.75	0.163
1-Apr-22	7.92	0.146



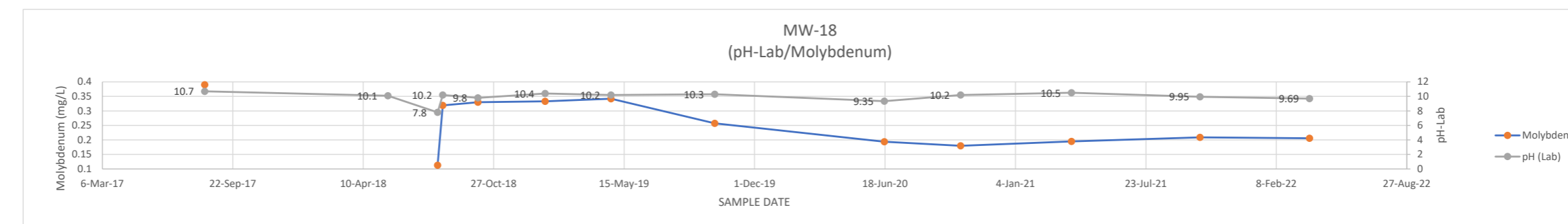
Value denoted in red from June 2022 resample

MW-17	pH Lab	MOLYBDENUM
DATE		
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
31-Mar-22	7.67	0.0006



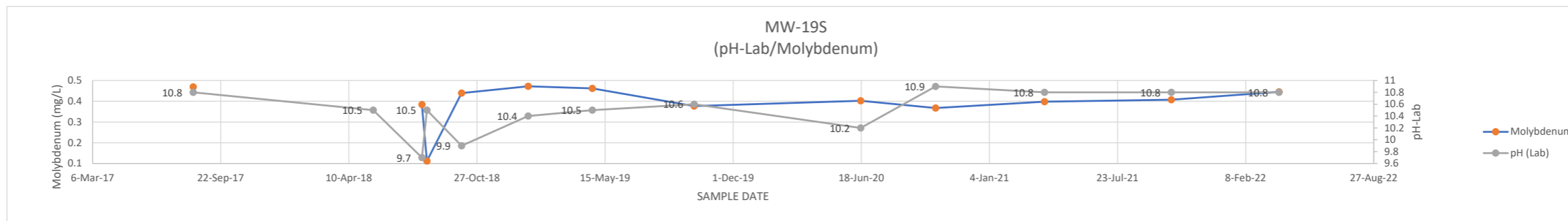
Value denoted in red from June 2022 resample

MW-18	pH Lab	MOLYBDENUM
DATE		
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
31-Mar-22	9.69	0.206

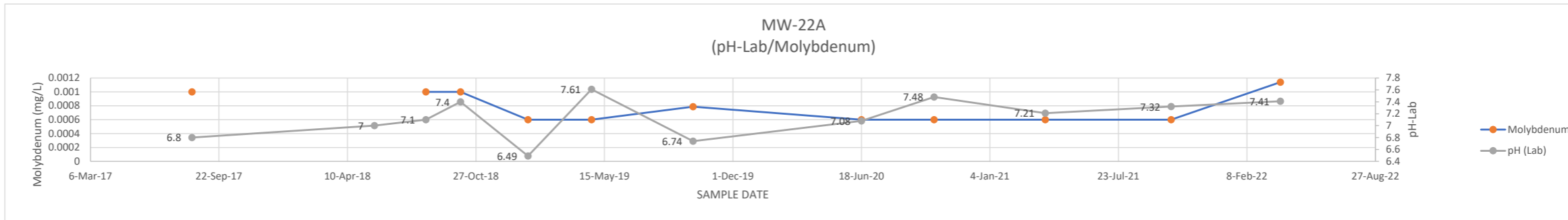


ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

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	
1-Apr-22	10.8	0.445	

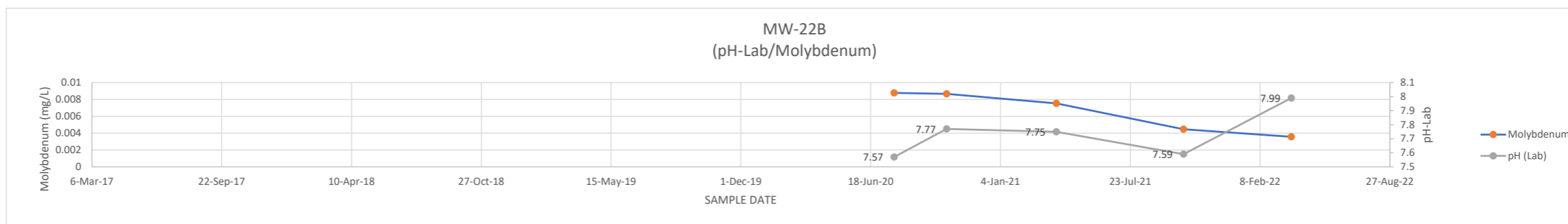


MW-22A			
DATE	pH Lab	MOLYBDENUM	
11-Aug-17	6.8	0.001	
22-May-18	7		
10-Aug-18	7.1	0.001	
3-Oct-18	7.4	0.001	
16-Jan-19	6.49	0.0006	
25-Apr-19	7.61	0.0006	
30-Sep-19	6.74	0.000787	
18-Jun-20	7.08	0.0006	
9-Oct-20	7.48	0.0006	
31-Mar-21	7.21	0.0006	
13-Oct-21	7.32	0.0006	
1-Apr-22	7.41	0.00114	

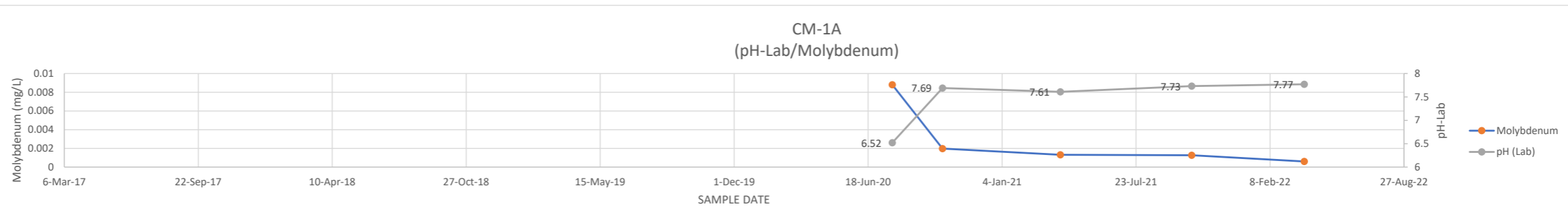


Value denoted in red from June 2022 resample

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	
28-Mar-22	7.99	0.00357	

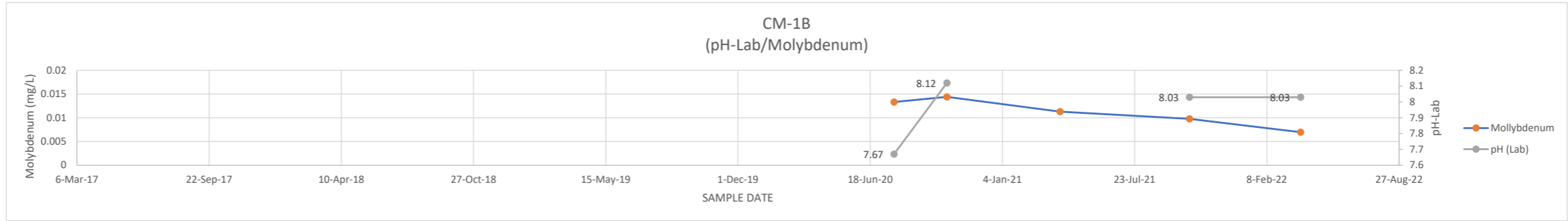


CM-1A			
DATE	pH Lab	MOLYBDENUM	
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20	6.52	0.0088	
7-Oct-20	7.69	0.00198	
1-Apr-21	7.61	0.00132	
14-Oct-21	7.73	0.00127	
31-Mar-22	7.77	0.0006	

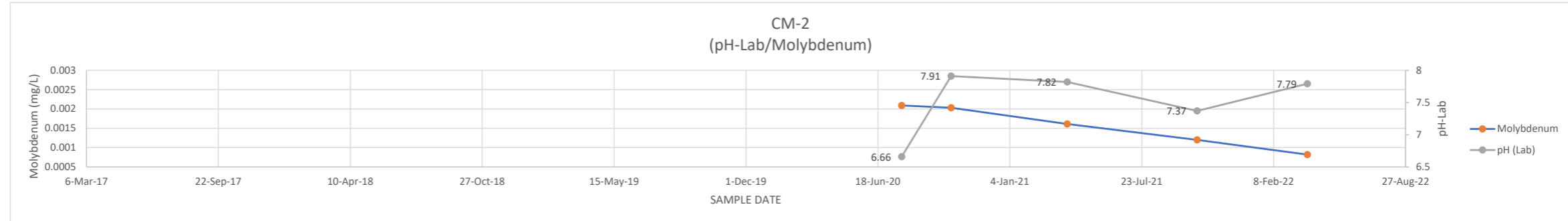


ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

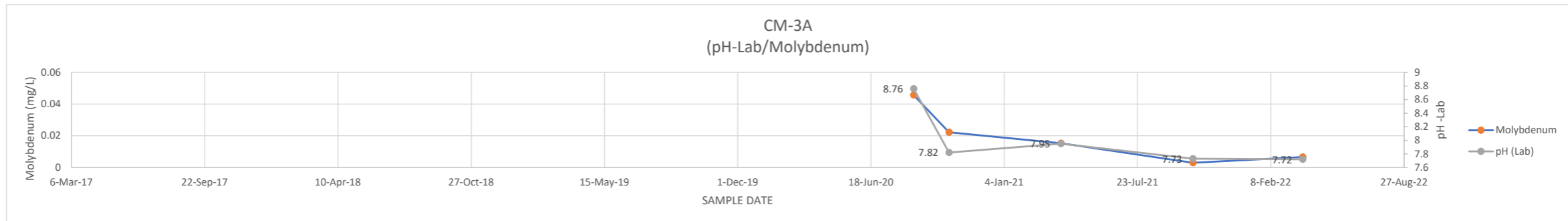
CM-1B DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.67	0.0133
12-Oct-20	8.12	0.0144
1-Apr-21		0.0113
14-Oct-21	8.03	0.00976
31-Mar-22	8.03	0.00696



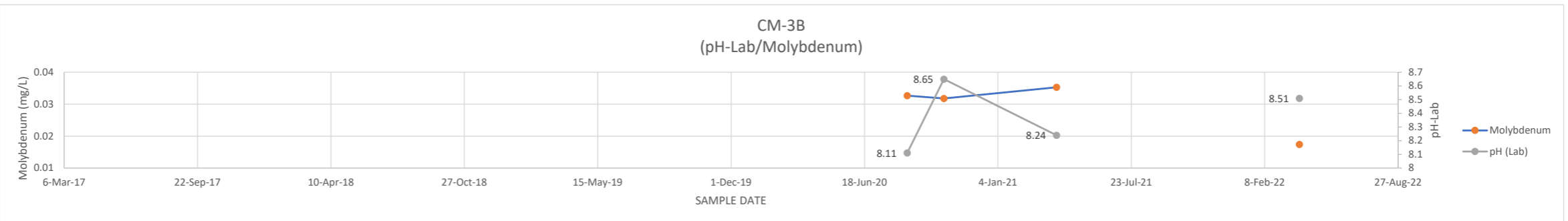
CM-2 DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	6.66	0.00209
7-Oct-20	7.91	0.00203
1-Apr-21	7.82	0.00161
15-Oct-21	7.37	0.0012
31-Mar-22	7.79	0.00082



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
28-Mar-22	7.72	0.00656

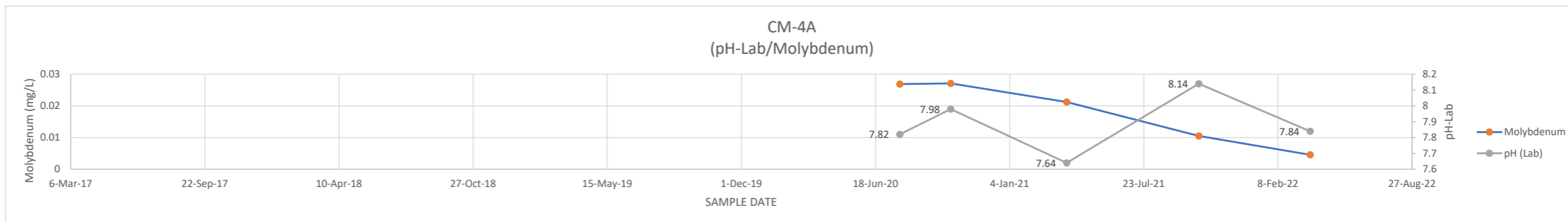


CM-3B DATE	pH Lab	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	8.11	0.0327
15-Oct-20	8.65	0.0318
2-Apr-21	8.24	0.0353
11-Oct-21		
1-Apr-22	8.51	0.0174

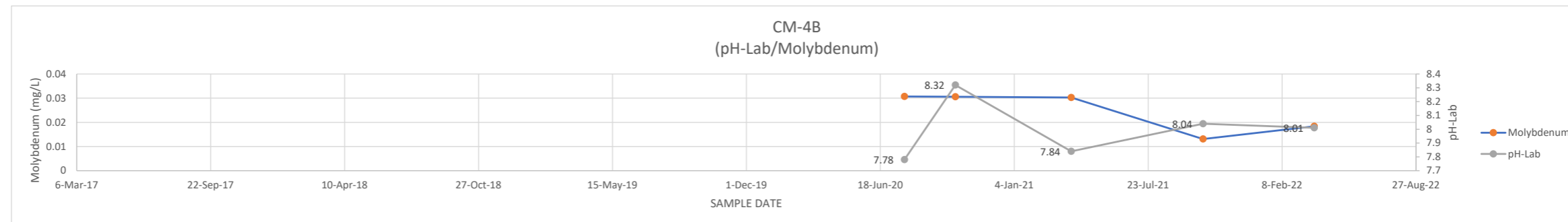


ATTACHMENT F-3B
CHANGES IN PH (LAB) AND MOLYBDENUM CONCENTRATIONS

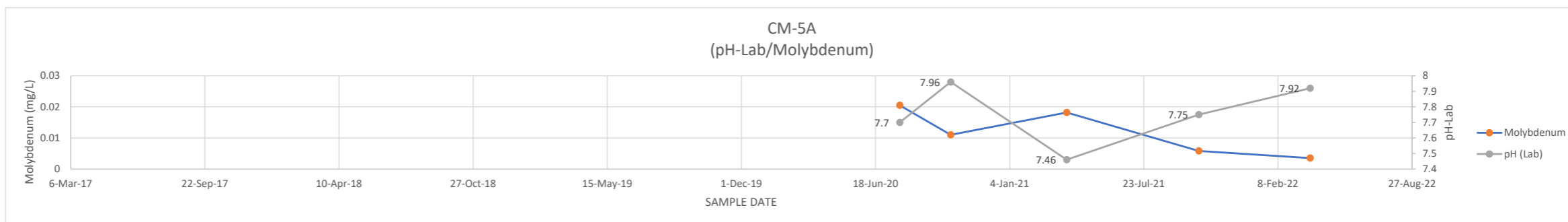
CM-4A	pH Lab	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.82	0.0269
8-Oct-20	7.98	0.0271
30-Mar-21	7.64	0.0212
13-Oct-21	8.14	0.0105
28-Mar-22	7.84	0.00455



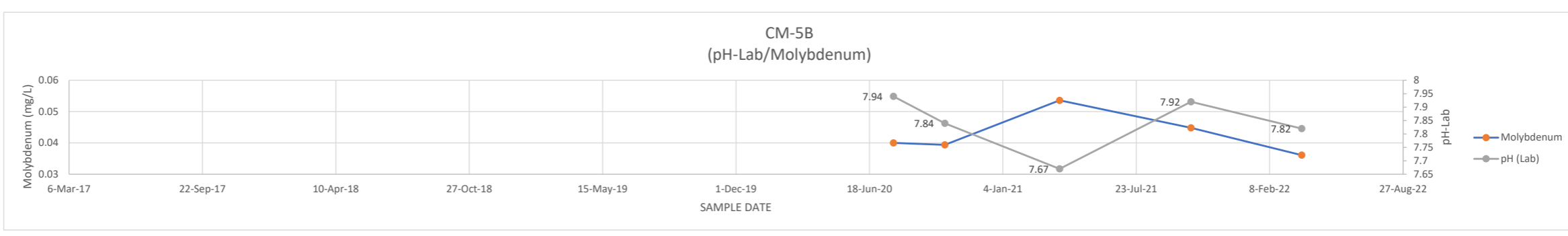
CM-4B	pH Lab	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	7.78	0.0307
8-Oct-20	8.32	0.0306
30-Mar-21	7.84	0.0303
13-Oct-21	8.04	0.0131
28-Mar-22	8.01	0.0184



CM-5A	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	7.7	0.0205
8-Oct-20	7.96	0.011
30-Mar-21	7.46	0.0182
13-Oct-21	7.75	0.0058
28-Mar-22	7.92	0.00351



CM-5B	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	7.94	0.04
9-Oct-20	7.84	0.0394
30-Mar-21	7.67	0.0536
13-Oct-21	7.92	0.0448
28-Mar-22	7.82	0.0361

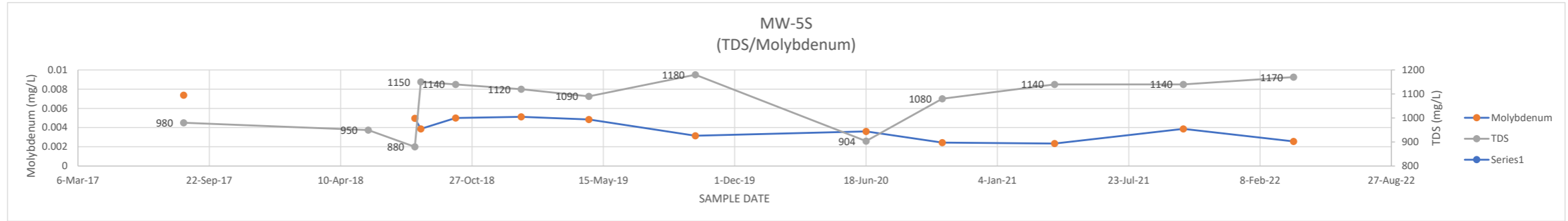


Yellow Indicates Reported Below shown value (MDL)

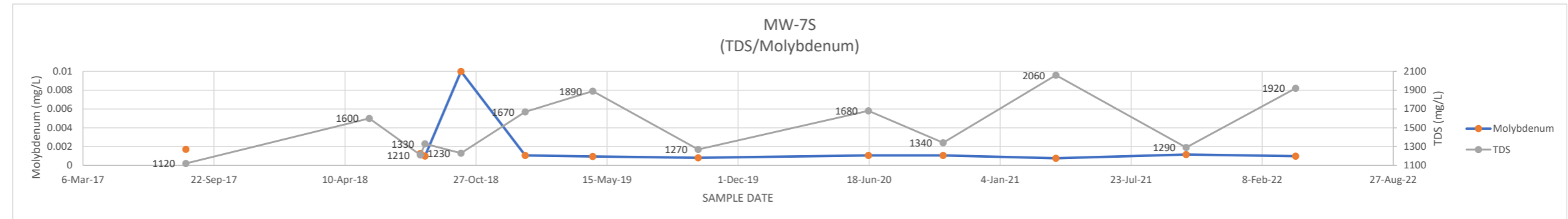
ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

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
31-Mar-22	1170	0.00257

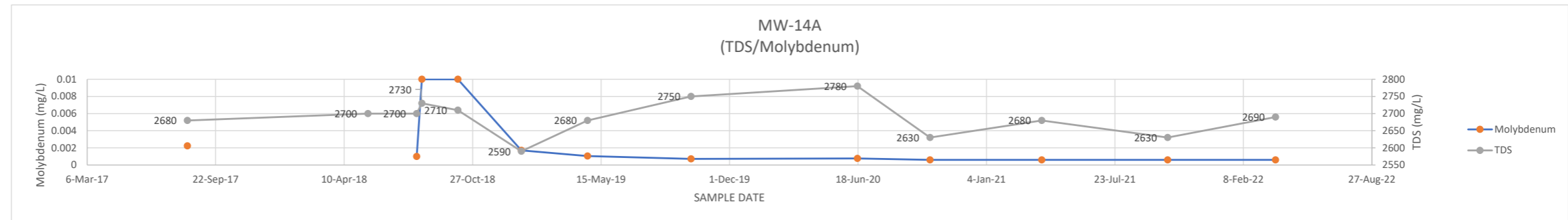
Value denoted in red from June 2022 resample



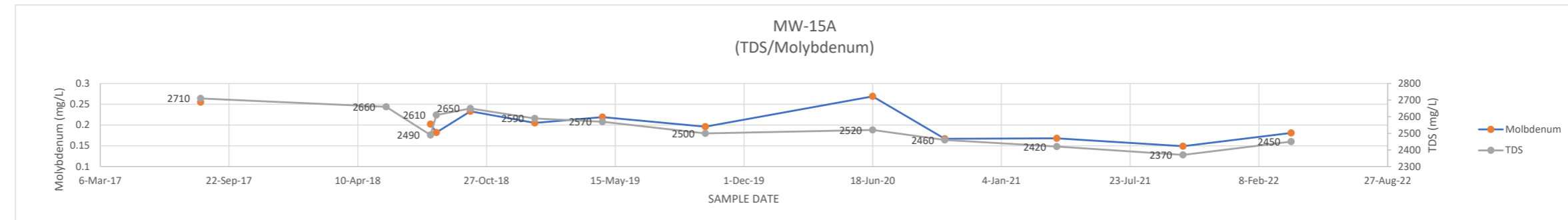
MW-7S	TDS	MOLYBDENUM
DATE		
10-Aug-17	1120	0.00171
17-May-18	1600	
3-Aug-18	1210	0.00127
10-Aug-18	1330	0.001
4-Oct-18	1230	0.01
10-Jan-19	1670	0.00105
23-Apr-19	1890	0.000952
1-Oct-19	1270	0.000798
17-Jun-20	1680	0.00105
9-Oct-20	1340	0.00106
30-Mar-21	2060	0.000755
15-Oct-21	1290	0.00115
31-Mar-22	1920	0.000973



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
30-Mar-22	2690	0.0006

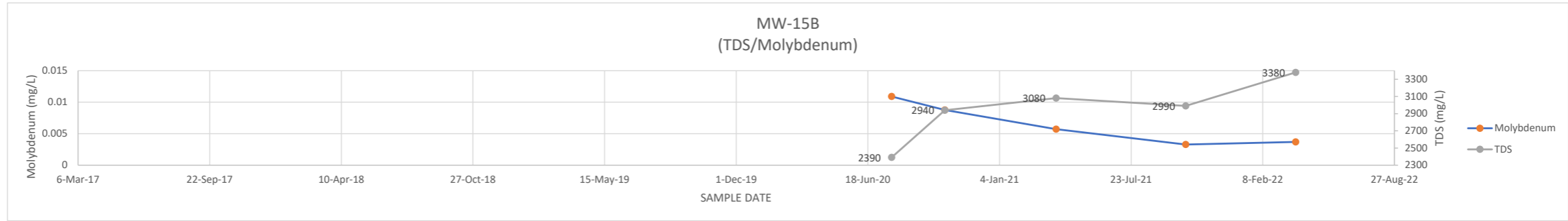


MW-15A	TDS	MOLYBDENUM
DATE		
9-Aug-17	2710	0.255
24-May-18	2660	
1-Aug-18	2490	0.202
10-Aug-18	2610	0.182
2-Oct-18	2650	0.233
10-Jan-19	2590	0.205
25-Apr-19	2570	0.219
2-Oct-19	2500	0.196
18-Jun-20	2520	0.269
8-Oct-20	2460	0.167
31-Mar-21	2420	0.168
13-Oct-21	2370	0.149
30-Mar-22	2450	0.181

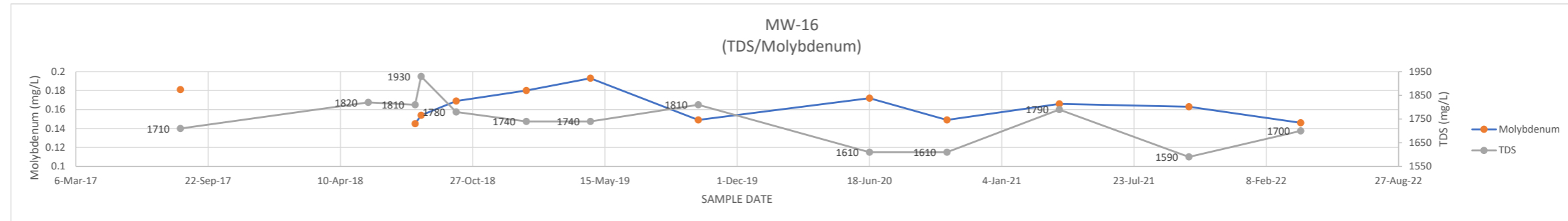


ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

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
30-Mar-22	3380	0.0037

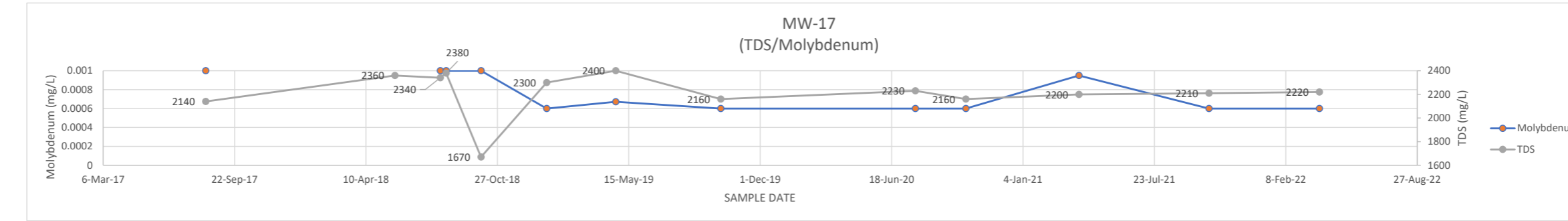


MW-16	TDS	MOLYBDENUM
DATE		
11-Aug-17	1710	0.181
22-May-18	1820	
1-Aug-18	1810	0.145
10-Aug-18	1930	0.154
2-Oct-18	1780	0.169
16-Jan-19	1740	0.18
23-Apr-19	1740	0.193
3-Oct-19	1810	0.149
18-Jun-20	1610	0.172
13-Oct-20	1610	0.149
1-Apr-21	1790	0.166
14-Oct-21	1590	0.163
1-Apr-22	1700	0.146



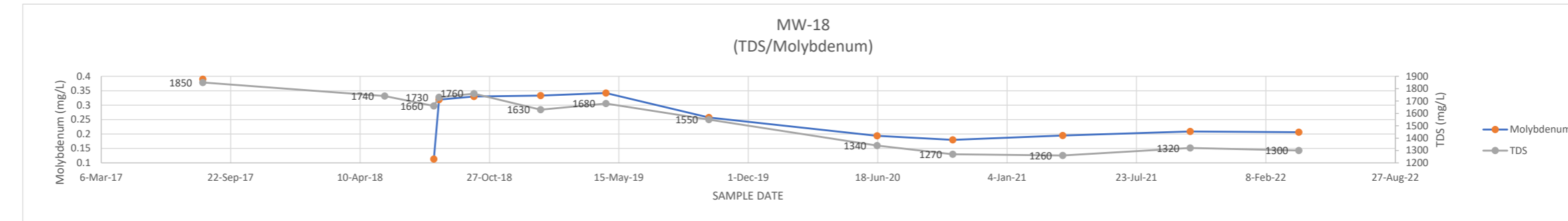
Value denoted in red from June 2022 resample

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
31-Mar-22	2220	0.0006



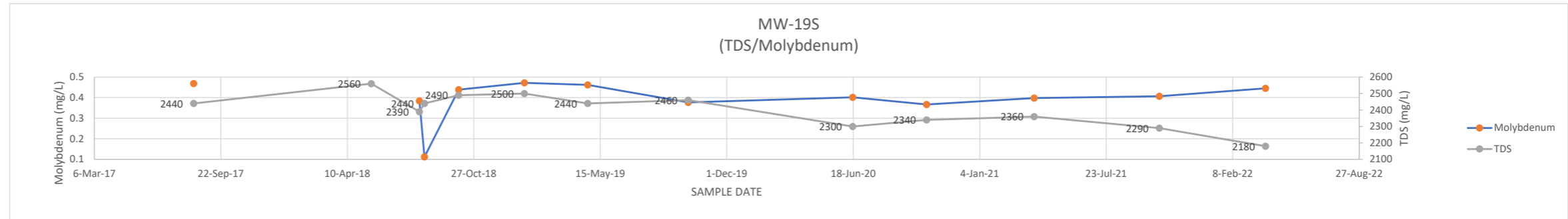
Value denoted in red from June 2022 resample

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
31-Mar-22	1300	0.206

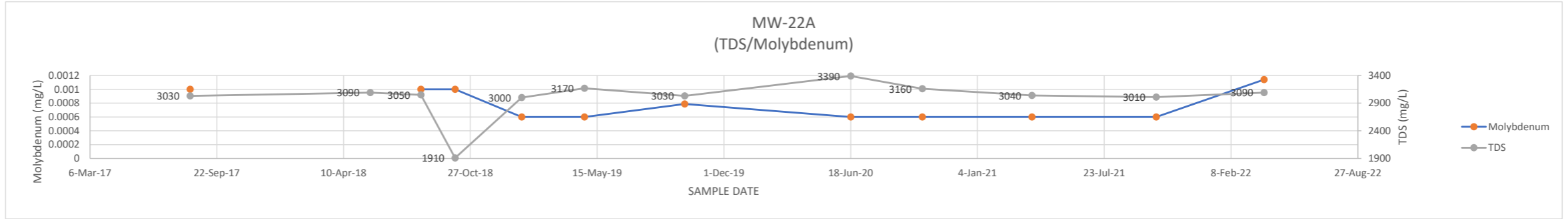


ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

MW-19S DATE	TDS	MOLYBDENUM
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
1-Apr-22	2180	0.445

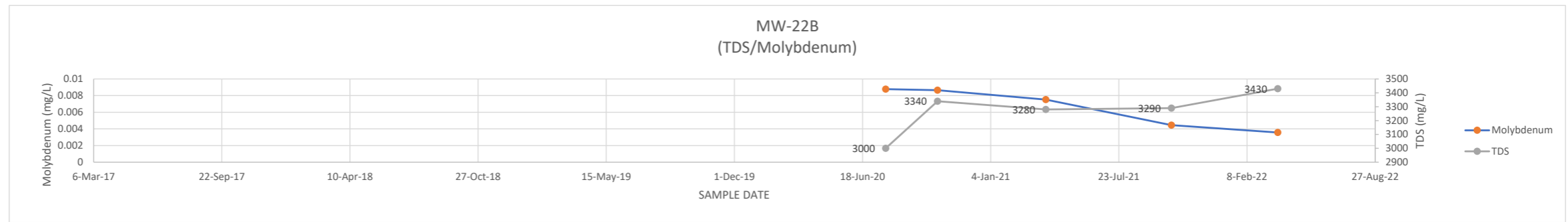


MW-22A DATE	TDS	MOLYBDENUM
11-Aug-17	3030	0.001
22-May-18	3090	
10-Aug-18	3050	0.001
3-Oct-18	1910	0.001
16-Jan-19	3000	0.0006
25-Apr-19	3170	0.0006
30-Sep-19	3030	0.000787
18-Jun-20	3390	0.0006
9-Oct-20	3160	0.0006
31-Mar-21	3040	0.0006
13-Oct-21	3010	0.0006
1-Apr-22	3090	0.00114

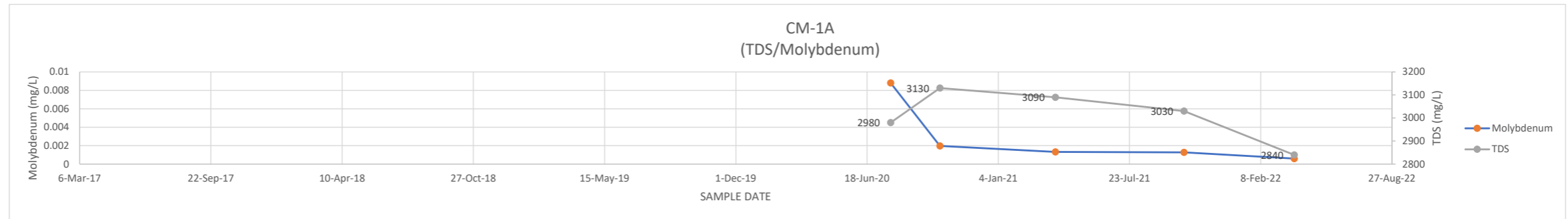


Value denoted in red from June 2022 resample

MW-22B 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	3000	0.00878
13-Oct-20	3340	0.00866
31-Mar-21	3280	0.00753
13-Oct-21	3290	0.00446
28-Mar-22	3430	0.00357

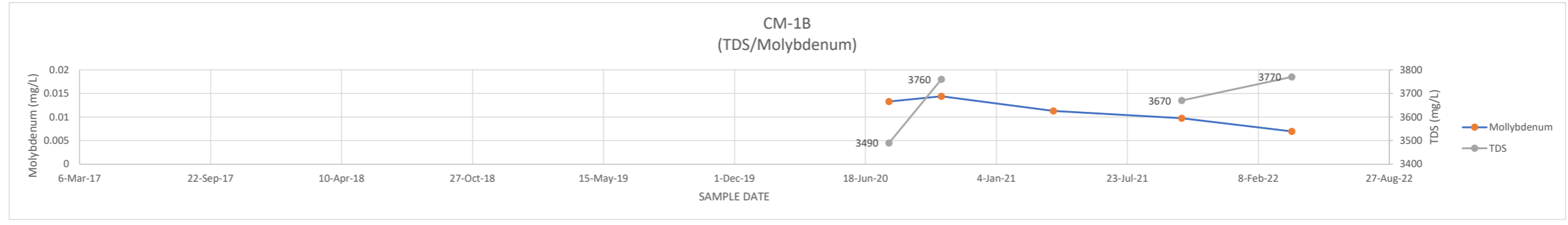


CM-1A DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2980	0.0088
7-Oct-20	3130	0.00198
1-Apr-21	3090	0.00132
14-Oct-21	3030	0.00127
31-Mar-22	2840	0.0006

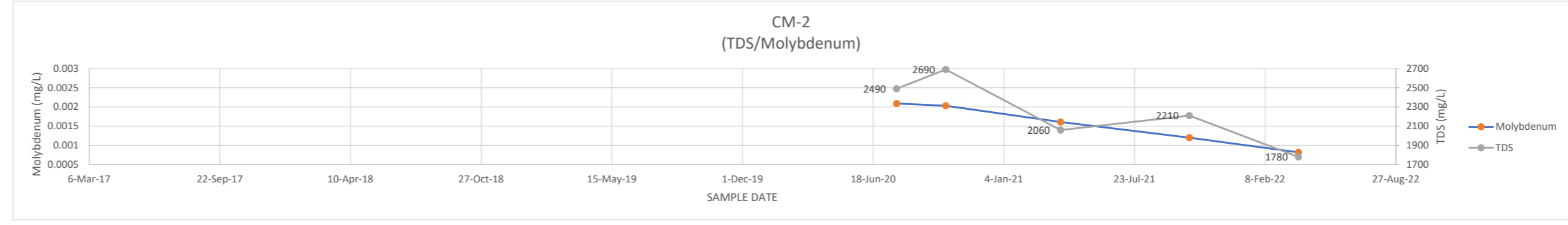


ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

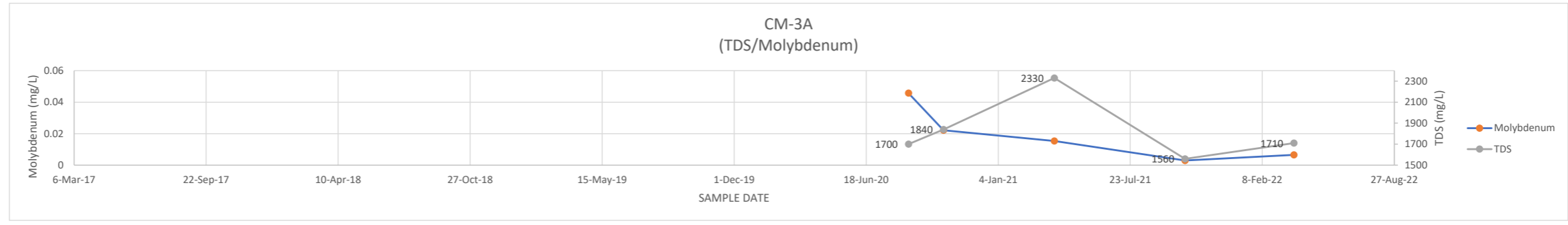
CM-1B DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3490	0.0133
12-Oct-20	3760	0.0144
1-Apr-21		0.0113
14-Oct-21	3670	0.00976
31-Mar-22	3770	0.00696



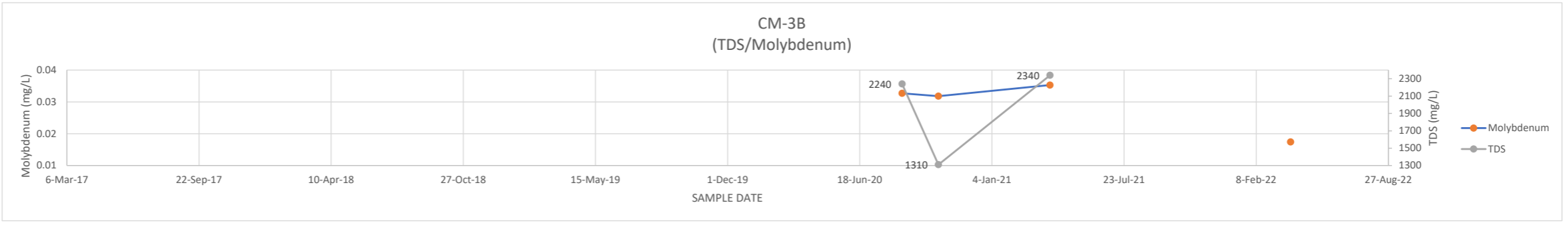
CM-2 DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2490	0.00209
7-Oct-20	2690	0.00203
1-Apr-21	2060	0.00161
15-Oct-21	2210	0.0012
31-Mar-22	1780	0.00082



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
28-Mar-22	1710	0.00656

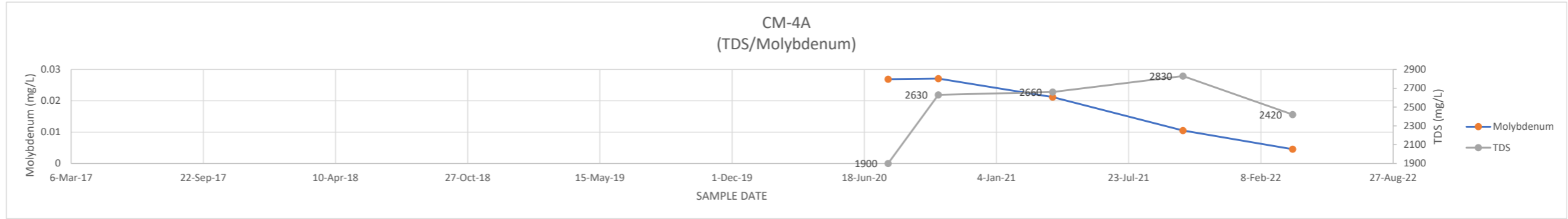


CM-3B DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	2240	0.0327
15-Oct-20	1310	0.0318
2-Apr-21	2340	0.0353
11-Oct-21		
1-Apr-22	3580	0.0174

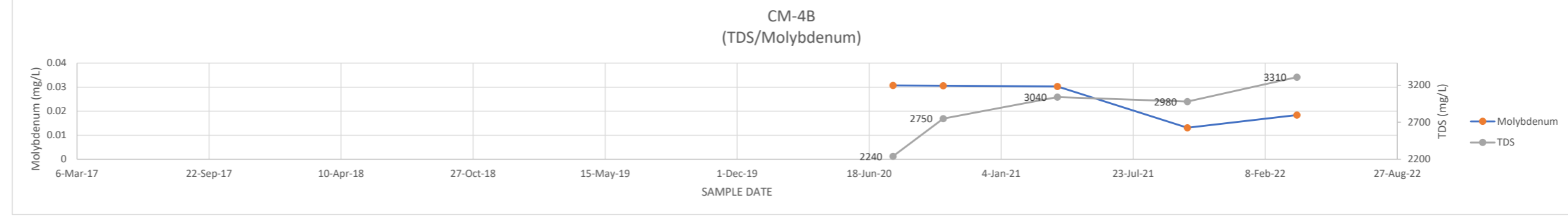


ATTACHMENT F-4
CHANGES IN TDS AND MOLYBDENUM CONCENTRATIONS

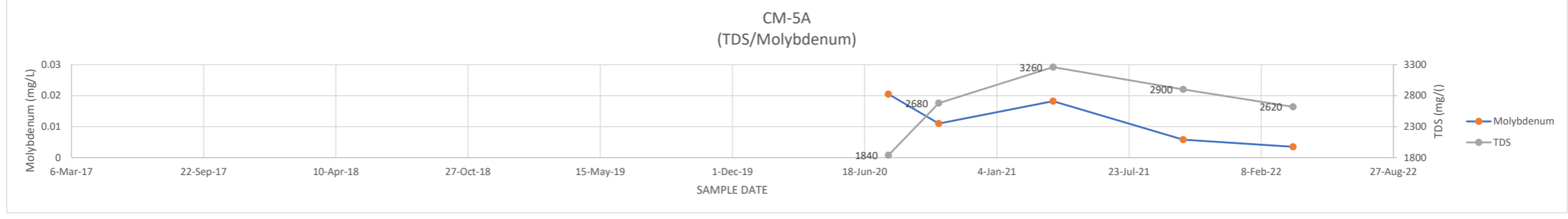
CM-4A DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1900	0.0269
8-Oct-20	2630	0.0271
30-Mar-21	2660	0.0212
13-Oct-21	2830	0.0105
28-Mar-22	2420	0.00455



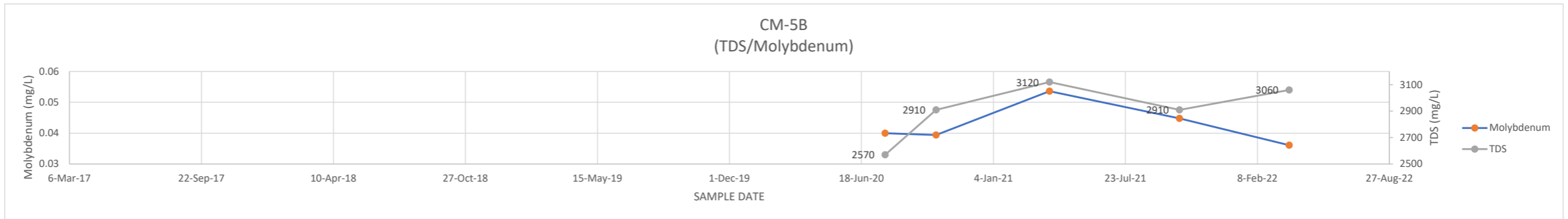
CM-4B DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2240	0.0307
8-Oct-20	2750	0.0306
30-Mar-21	3040	0.0303
13-Oct-21	2980	0.0131
28-Mar-22	3310	0.0184



CM-5A 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	1840	0.0205
8-Oct-20	2680	0.011
30-Mar-21	3260	0.0182
13-Oct-21	2900	0.0058
28-Mar-22	2620	0.00351



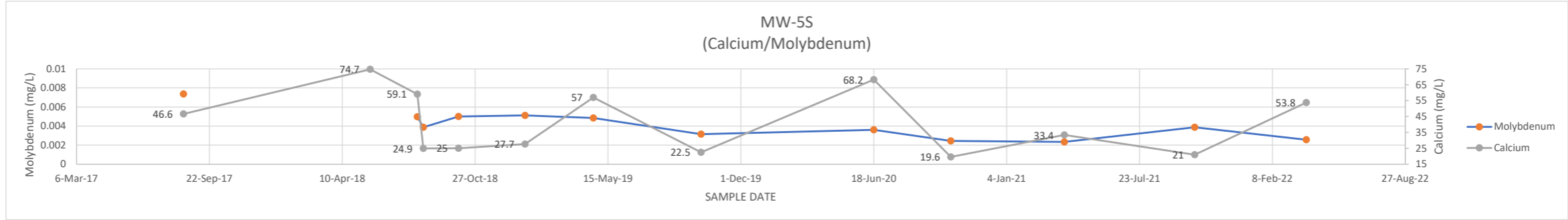
CM-5B DATE	TDS	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2570	0.04
9-Oct-20	2910	0.0394
30-Mar-21	3120	0.0536
13-Oct-21	2910	0.0448
28-Mar-22	3060	0.0361



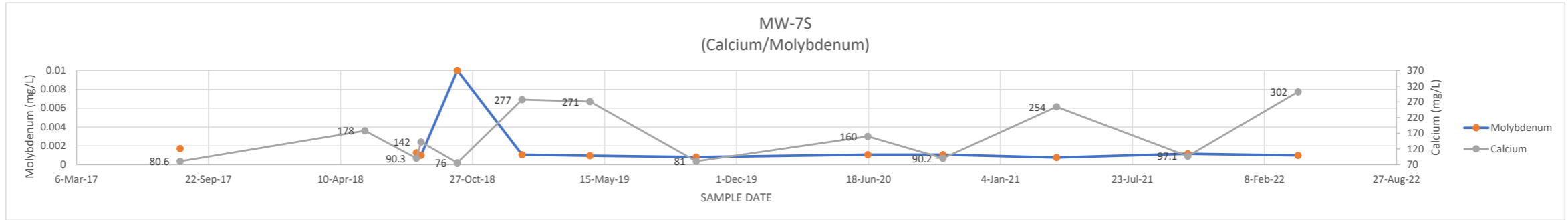
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

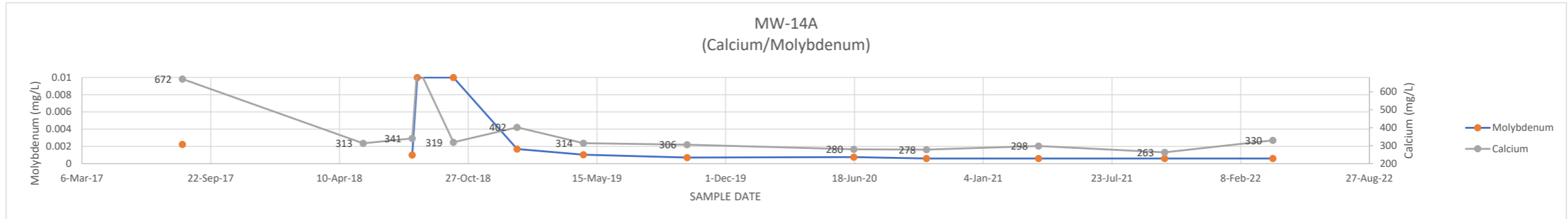
MW-5S	DATE	CALCIUM	MOLYBDENUM
14-Aug-17	46.6	0.00737	
22-May-18	74.7		
1-Aug-18	59.1	0.00497	
10-Aug-18	24.9	0.00387	
2-Oct-18	25	0.005	
10-Jan-19	27.7	0.00512	
23-Apr-19	57	0.00485	
2-Oct-19	22.5	0.00315	
18-Jun-20	68.2	0.00361	
12-Oct-20	19.6	0.00244	
1-Apr-21	33.4	0.00234	
14-Oct-21	21	0.00387	
31-Mar-22	53.8	0.00257	



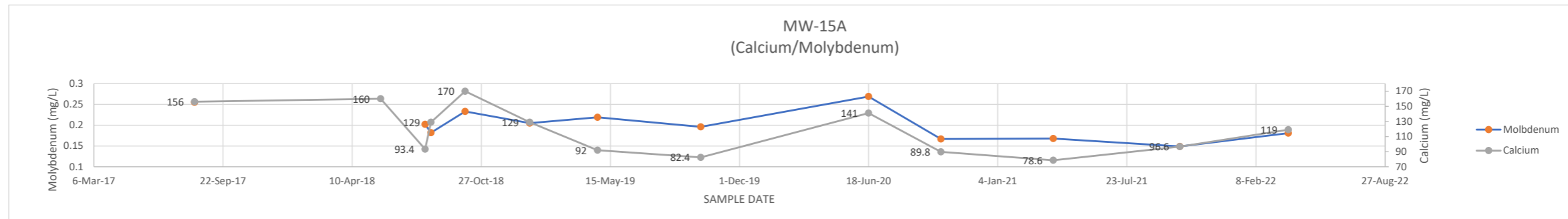
MW-7S	DATE	CALCIUM	MOLYBDENUM
10-Aug-17	80.6	0.00171	
17-May-18	178		
3-Aug-18	90.3	0.00127	
10-Aug-18	142	0.001	
4-Oct-18	76	0.01	
10-Jan-19	277	0.00105	
23-Apr-19	271	0.000952	
1-Oct-19	81	0.000798	
17-Jun-20	160	0.00105	
9-Oct-20	90.2	0.00106	
30-Mar-21	254	0.000755	
15-Oct-21	97.1	0.00115	
31-Mar-22	302	0.000973	



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	
30-Mar-22	330	0.0006	

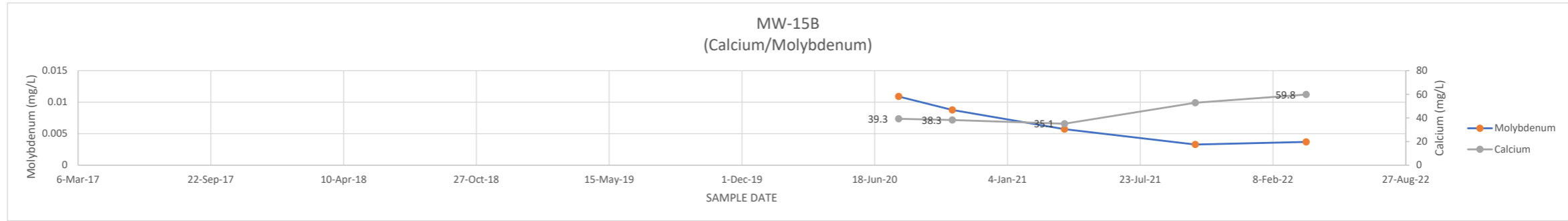


MW-15A	DATE	CALCIUM	MOLYBDENUM
9-Aug-17	156	0.255	
24-May-18	160		
1-Aug-18	93.4	0.202	
10-Aug-18	129	0.182	
2-Oct-18	170	0.233	
10-Jan-19	129	0.205	
25-Apr-19	92	0.219	
2-Oct-19	82.4	0.196	
18-Jun-20	141	0.269	
8-Oct-20	89.8	0.167	
31-Mar-21	78.6	0.168	
13-Oct-21	96.6	0.149	
30-Mar-22	119	0.181	

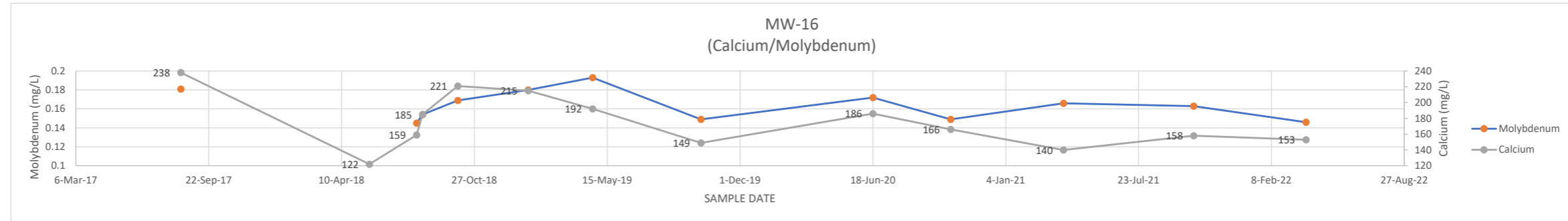


ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

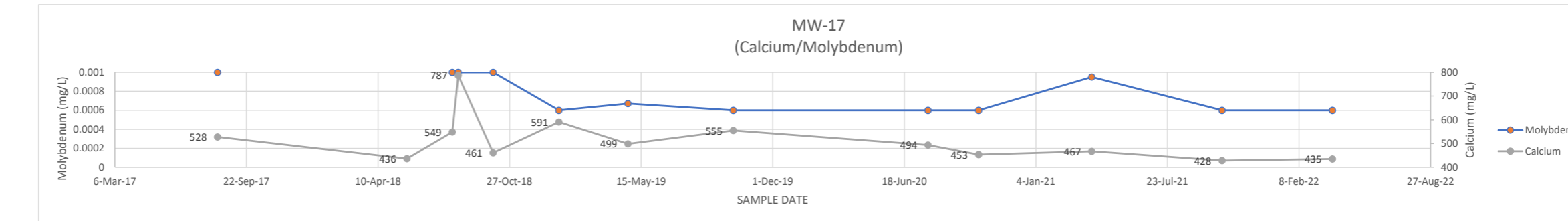
MW-15B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	39.3	0.0109
13-Oct-20	38.3	0.00876
31-Mar-21	35.1	0.00571
14-Oct-21	52.8	0.00328
30-Mar-22	59.8	0.0037



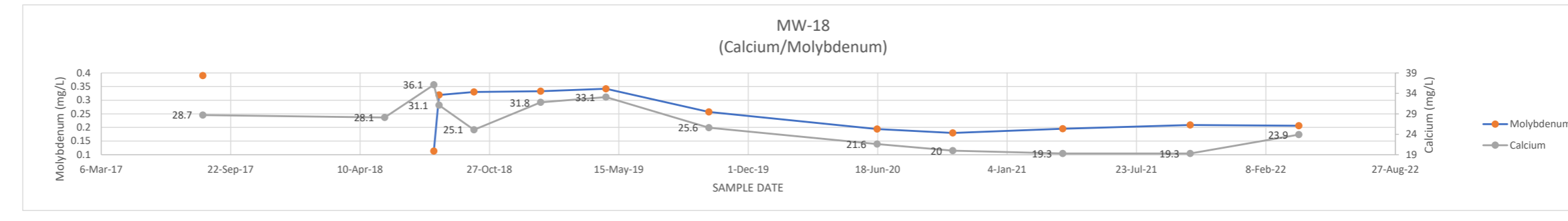
MW-16 DATE	CALCIUM	MOLYBDENUM
11-Aug-17	238	0.181
22-May-18	122	
1-Aug-18	159	0.145
10-Aug-18	185	0.154
2-Oct-18	221	0.169
16-Jan-19	215	0.18
23-Apr-19	192	0.193
3-Oct-19	149	0.149
18-Jun-20	186	0.172
13-Oct-20	166	0.149
1-Apr-21	140	0.166
14-Oct-21	158	0.163
1-Apr-22	153	0.146



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
31-Mar-22	435	0.0006

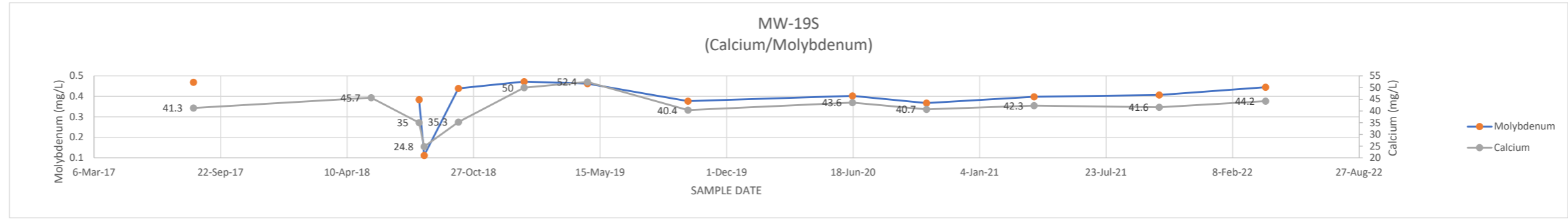


MW-18 DATE	CALCIUM	MOLYBDENUM
10-Aug-17	28.7	0.39
18-May-18	28.1	
2-Aug-18	36.1	0.113
10-Aug-18	31.1	0.319
3-Oct-18	25.1	0.33
14-Jan-19	31.8	0.333
25-Apr-19	33.1	0.342
1-Oct-19	25.6	0.257
17-Jun-20	21.6	0.194
12-Oct-20	20	0.18
31-Mar-21	19.3	0.195
14-Oct-21	19.3	0.209
31-Mar-22	23.9	0.206

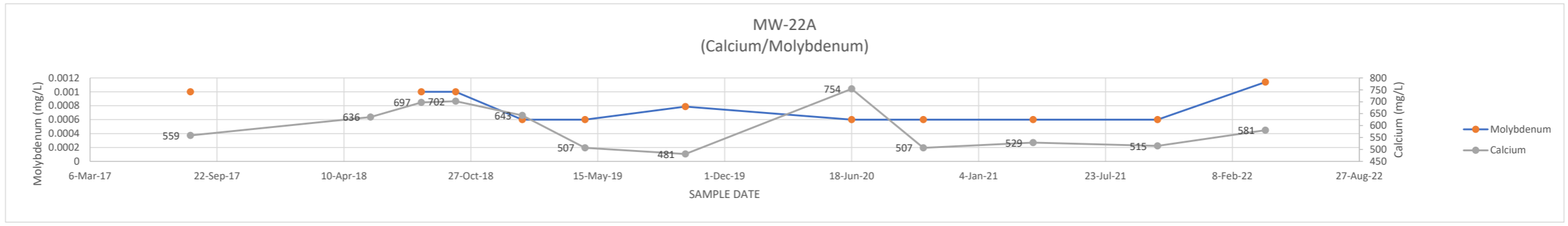


ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

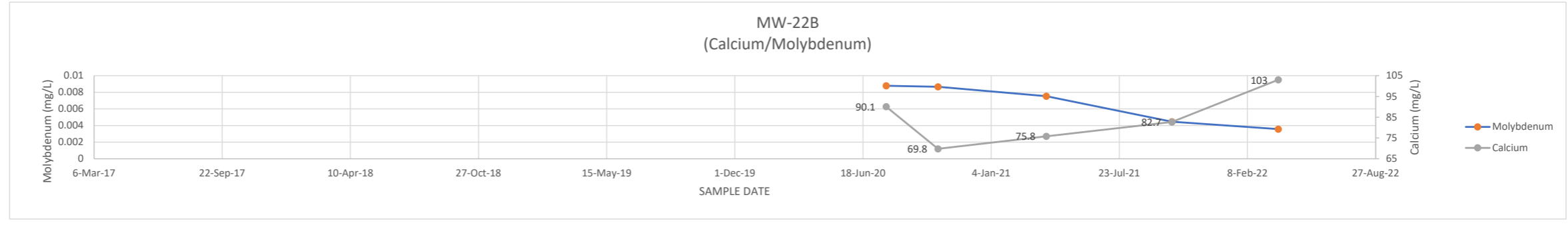
MW-19S DATE	CALCIUM	MOLYBDENUM
10-Aug-17	41.3	0.469
18-May-18	45.7	
2-Aug-18	35	0.384
10-Aug-18	24.8	0.112
3-Oct-18	35.3	0.439
15-Jan-19	50	0.472
25-Apr-19	52.4	0.462
1-Oct-19	40.4	0.377
17-Jun-20	43.6	0.402
12-Oct-20	40.7	0.367
31-Mar-21	42.3	0.398
15-Oct-21	41.6	0.407
1-Apr-22	44.2	0.445



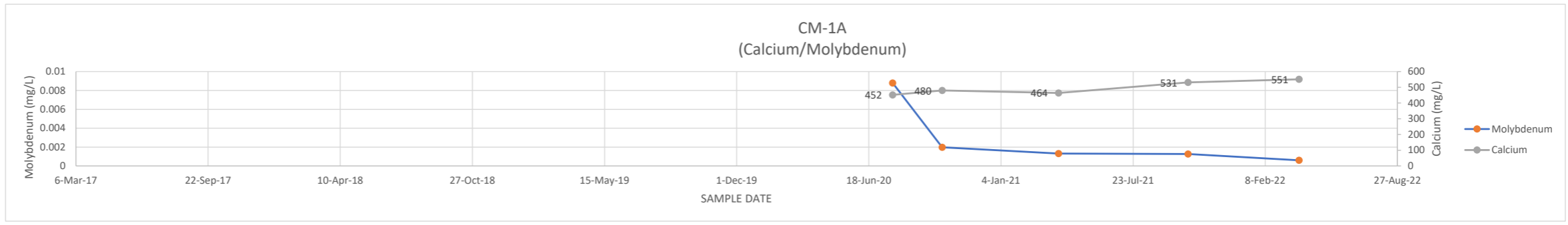
MW-22A DATE	CALCIUM	MOLYBDENUM
11-Aug-17	559	0.001
22-May-18	636	
10-Aug-18	697	0.001
3-Oct-18	702	0.001
16-Jan-19	643	0.0006
25-Apr-19	507	0.0006
30-Sep-19	481	0.000787
18-Jun-20	754	0.0006
9-Oct-20	507	0.0006
31-Mar-21	529	0.0006
13-Oct-21	515	0.0006
1-Apr-22	581	0.00114



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
28-Mar-22	103	0.00357

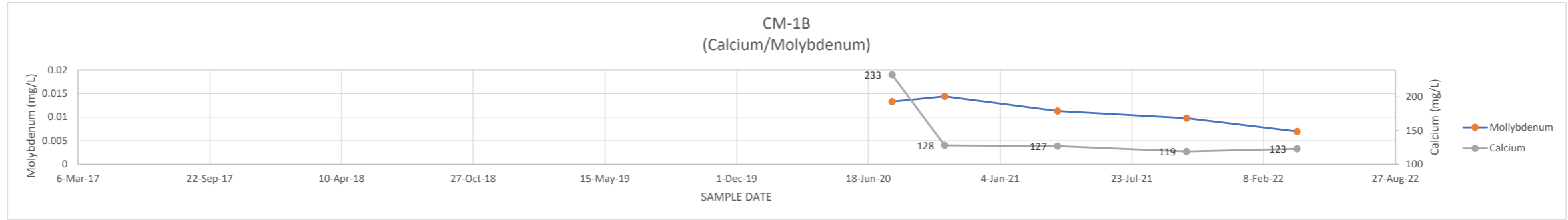


CM-1A DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	452	0.0088
7-Oct-20	480	0.00198
1-Apr-21	464	0.00132
14-Oct-21	531	0.00127
31-Mar-22	551	0.0006

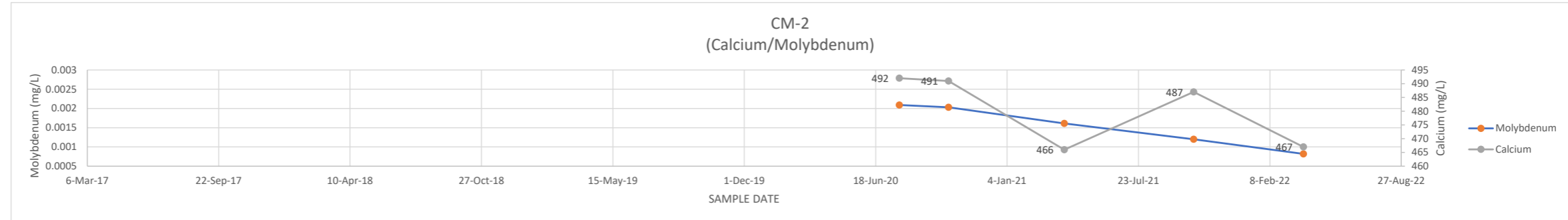


ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

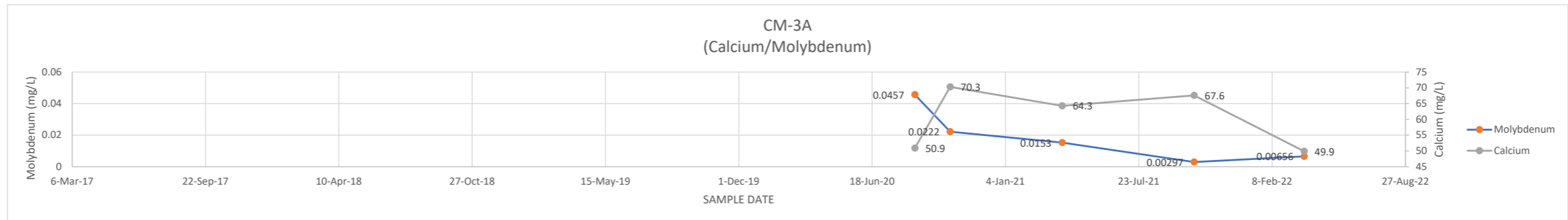
CM-1B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	233	0.0133
12-Oct-20	128	0.0144
1-Apr-21	127	0.0113
14-Oct-21	119	0.00976
31-Mar-22	123	0.00696



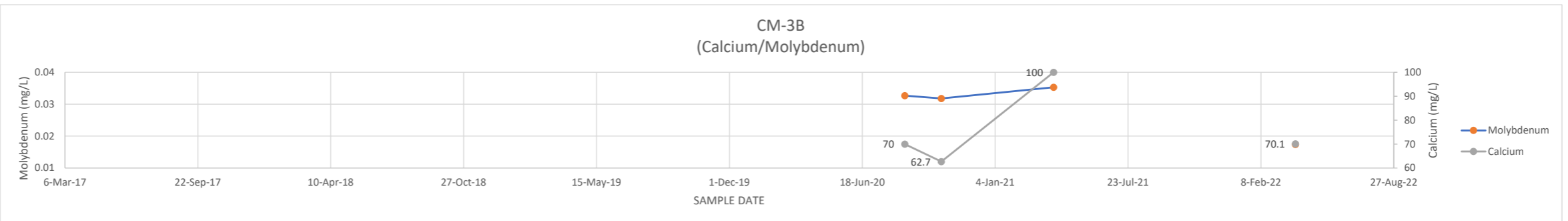
CM-2 DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	492	0.00209
7-Oct-20	491	0.00203
1-Apr-21	466	0.00161
15-Oct-21	487	0.0012
31-Mar-22	467	0.00082



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
28-Mar-22	49.9	0.00656

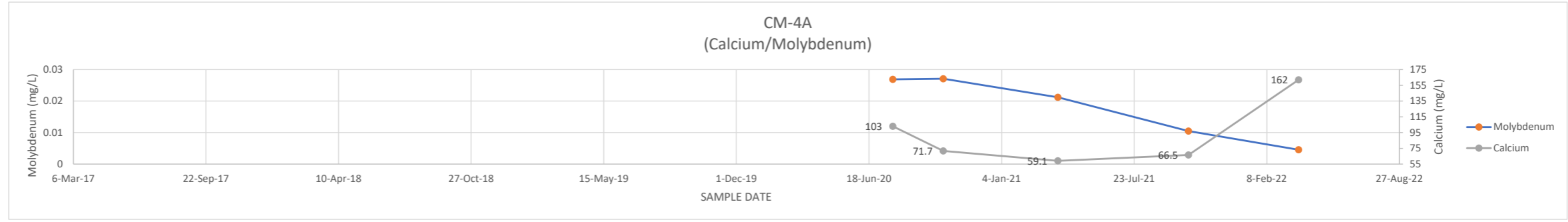


CM-3B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	70	0.0327
15-Oct-20	62.7	0.0318
2-Apr-21	100	0.0353
11-Oct-21		
1-Apr-22	70.1	0.0174

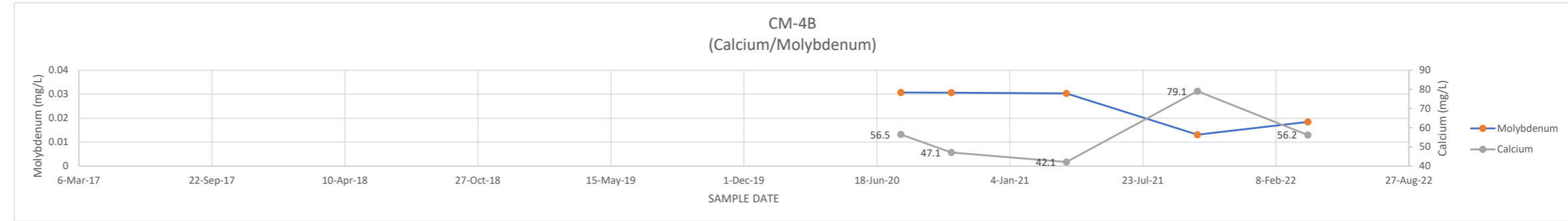


ATTACHMENT F-5
CHANGES IN CALCIUM AND MOLYBDENUM CONCENTRATIONS

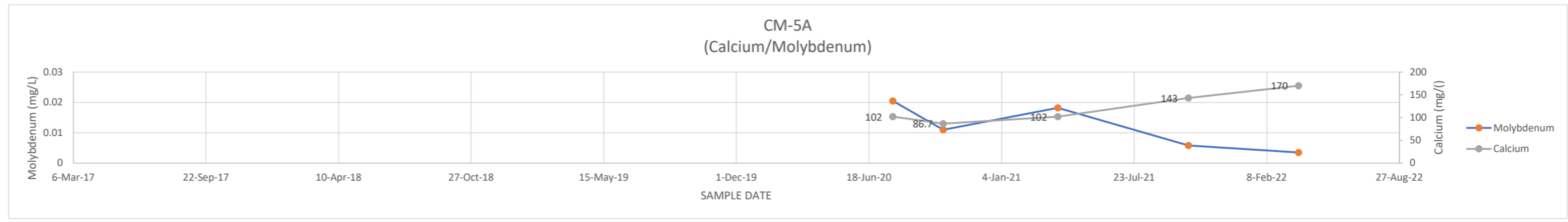
CM-4A DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	103	0.0269
8-Oct-20	71.7	0.0271
30-Mar-21	59.1	0.0212
13-Oct-21	66.5	0.0105
28-Mar-22	162	0.00455



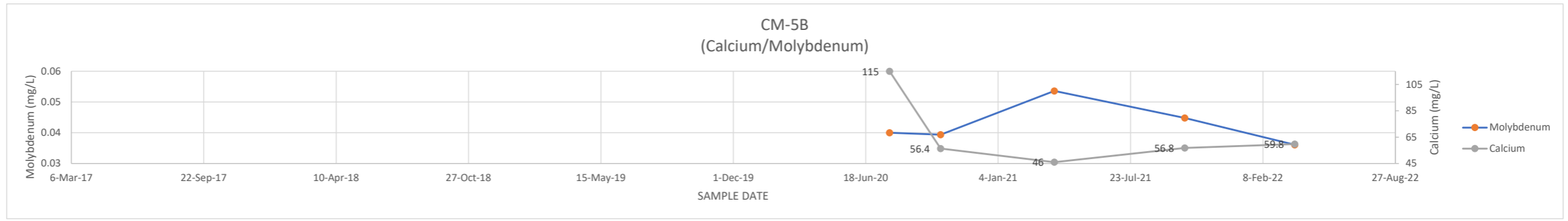
CM-4B DATE	CALCIUM	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	56.5	0.0307
8-Oct-20	47.1	0.0306
30-Mar-21	42.1	0.0303
13-Oct-21	79.1	0.0131
28-Mar-22	56.2	0.0184



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
28-Mar-22	170	0.00351



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
28-Mar-22	59.8	0.0361

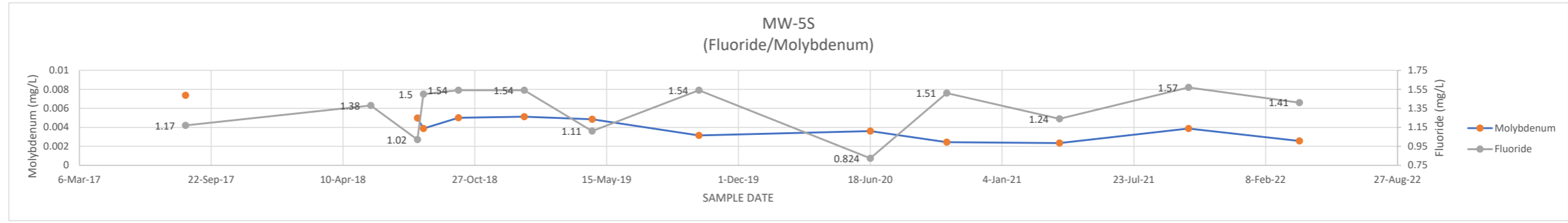


Yellow Indicates Reported Below shown value (MDL)

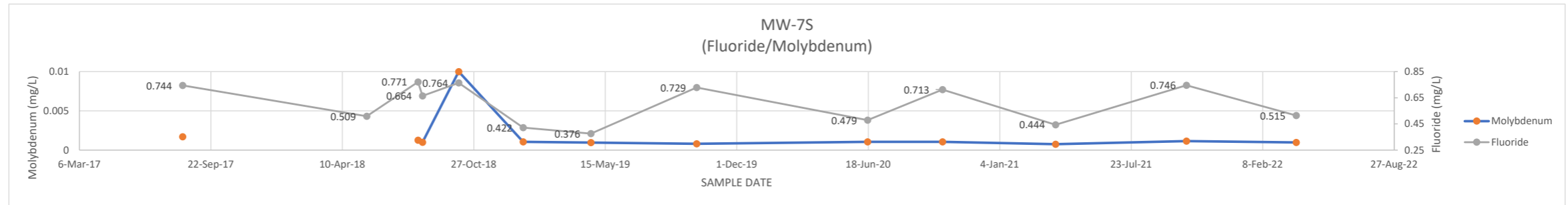
ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

MW-5S	DATE	FLUORIDE	MOLYBDENUM
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	
31-Mar-22	1.41	0.00257	

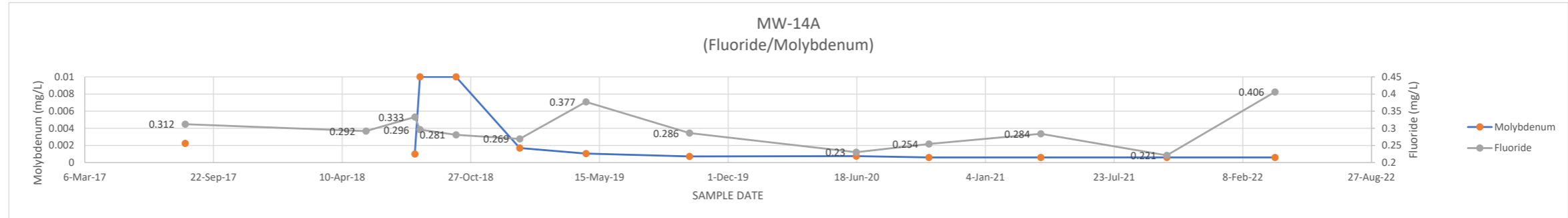
Value denoted in red from June 2022 resample



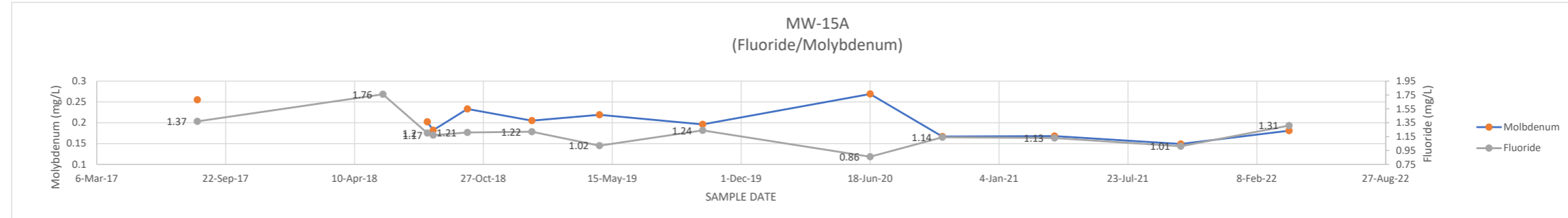
MW-7S	DATE	FLUORIDE	MOLYBDENUM
10-Aug-17	0.744	0.00171	
17-May-18	0.509		
3-Aug-18	0.771	0.00127	
10-Aug-18	0.664	0.001	
4-Oct-18	0.764	0.01	
10-Jan-19	0.422	0.00105	
23-Apr-19	0.376	0.000952	
1-Oct-19	0.729	0.000798	
17-Jun-20	0.479	0.00105	
9-Oct-20	0.713	0.00106	
30-Mar-21	0.444	0.000755	
15-Oct-21	0.746	0.00115	
31-Mar-22	0.515	0.000973	



MW-14A	DATE	FLUORIDE	MOLYBDENUM
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	
30-Mar-22	0.406	0.0006	

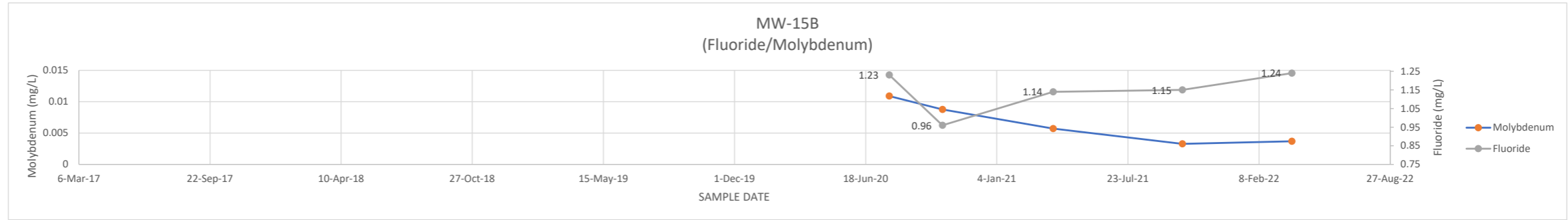


MW-15A	DATE	FLUORIDE	MOLYBDENUM
9-Aug-17	1.37	0.255	
24-May-18	1.76		
1-Aug-18	1.2	0.202	
10-Aug-18	1.17	0.182	
2-Oct-18	1.21	0.233	
10-Jan-19	1.22	0.205	
25-Apr-19	1.02	0.219	
2-Oct-19	1.24	0.196	
18-Jun-20	0.86	0.269	
8-Oct-20	1.14	0.167	
31-Mar-21	1.13	0.168	
13-Oct-21	1.01	0.149	
30-Mar-22	1.31	0.181	

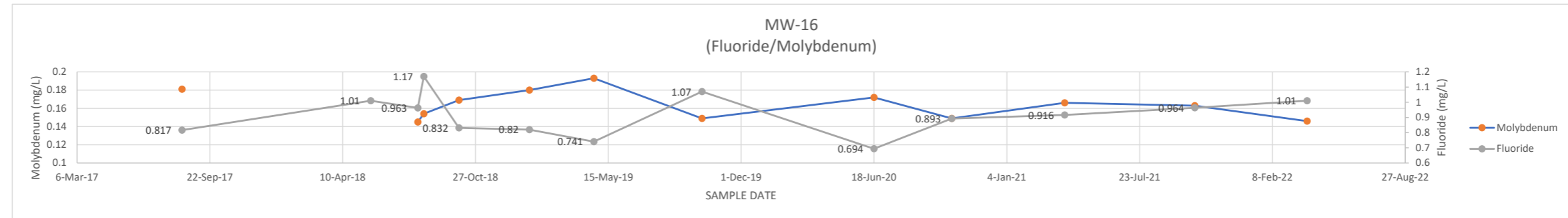


ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

MW-15B	FLUORID	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
30-Mar-22	1.24	0.0037

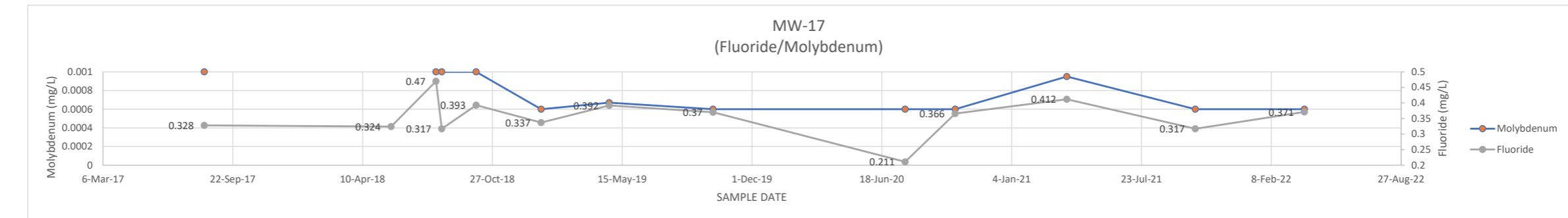


MW-16	FLUORIDE	MOLYBDENUM
DATE		
11-Aug-17	0.817	0.181
22-May-18	1.01	
1-Aug-18	0.963	0.145
10-Aug-18	1.17	0.154
2-Oct-18	0.832	0.169
16-Jan-19	0.82	0.18
23-Apr-19	0.741	0.193
3-Oct-19	1.07	0.149
18-Jun-20	0.694	0.172
13-Oct-20	0.893	0.149
1-Apr-21	0.916	0.166
14-Oct-21	0.964	0.163
1-Apr-22	1.01	0.146



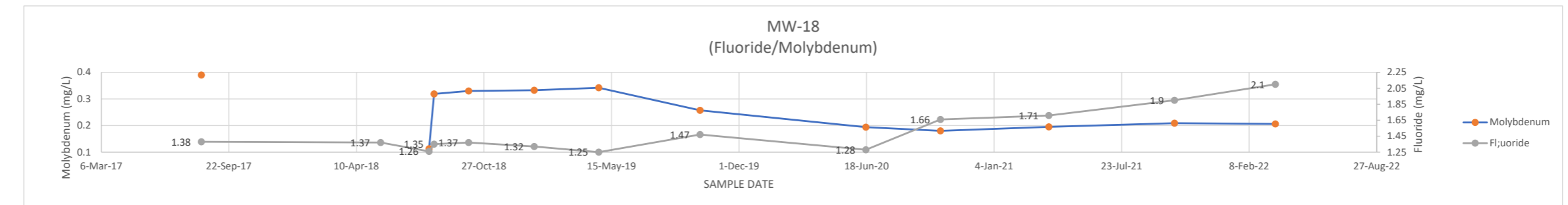
Value denoted in red from June 2022 resample

MW-17	FLUORIDE	MOLYBDENUM
DATE		
9-Aug-17	0.328	0.001
24-May-18	0.324	
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
31-Mar-22	0.371	0.0006



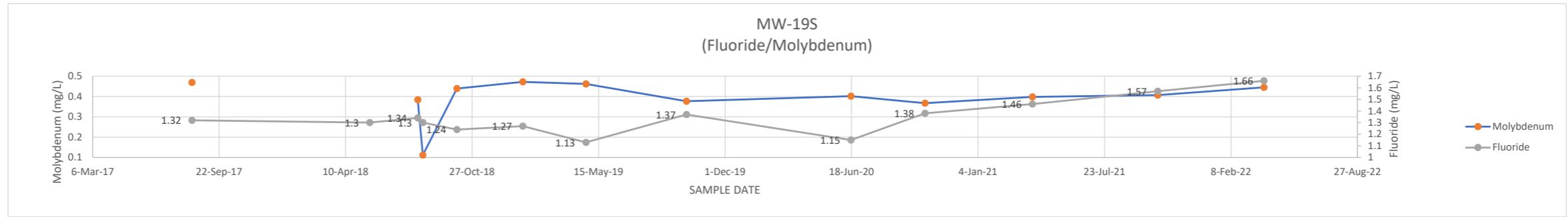
Value denoted in red from June 2022 resample

MW-18	FLUORIDE	MOLYBDENUM
DATE		
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
21-Mar-22	2.1	0.206

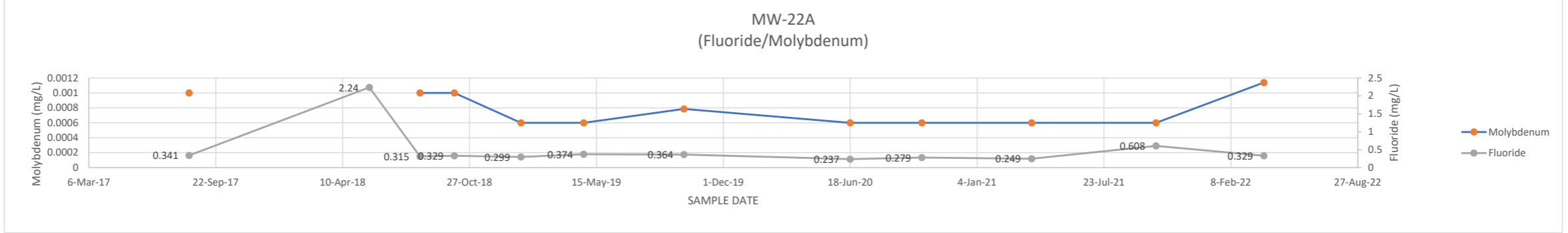


ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

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
1-Apr-22	1.66	0.445

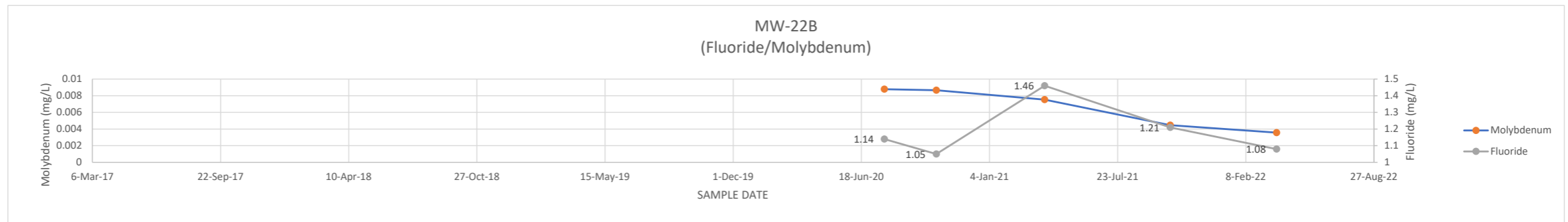


MW-22A DATE	FLUROIDE	MOLYBDENUM
11-Aug-17	0.341	0.001
22-May-18	2.24	
10-Aug-18	0.315	0.001
3-Oct-18	0.329	0.001
16-Jan-19	0.299	0.0006
25-Apr-19	0.374	0.0006
30-Sep-19	0.364	0.000787
18-Jun-20	0.237	0.0006
9-Oct-20	0.279	0.0006
31-Mar-21	0.249	0.0006
13-Oct-21	0.608	0.0006
1-Apr-22	0.329	0.00114

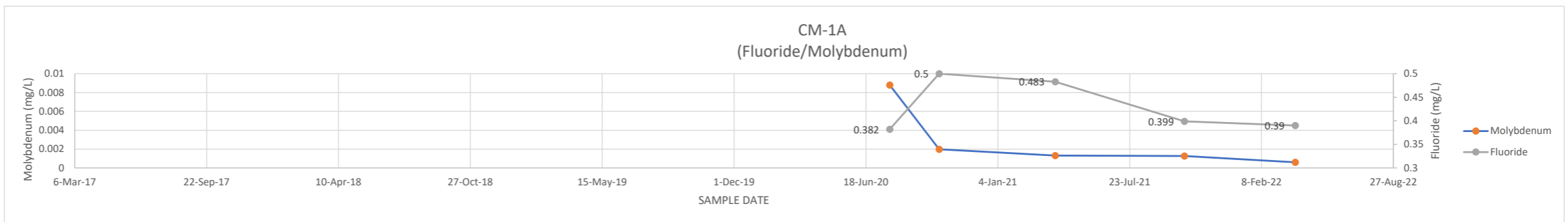


Value denoted in red from June 2022 resample

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
28-Mar-22	1.08	0.00357

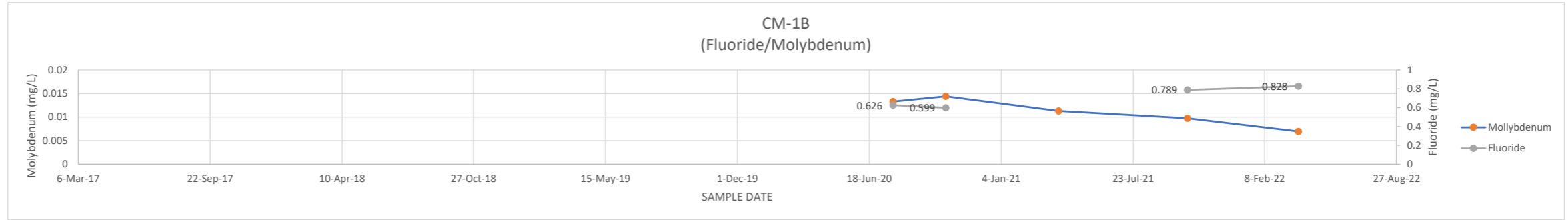


CM-1A DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.382	0.0088
7-Oct-20	0.5	0.00198
1-Apr-21	0.483	0.00132
14-Oct-21	0.399	0.00127
31-Mar-22	0.39	0.0006

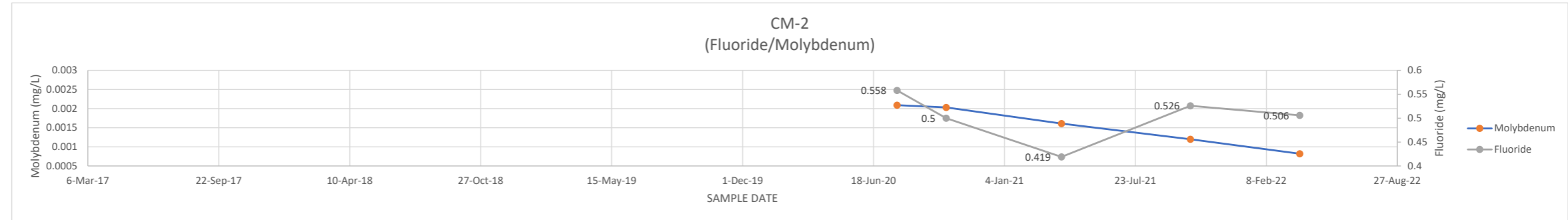


ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

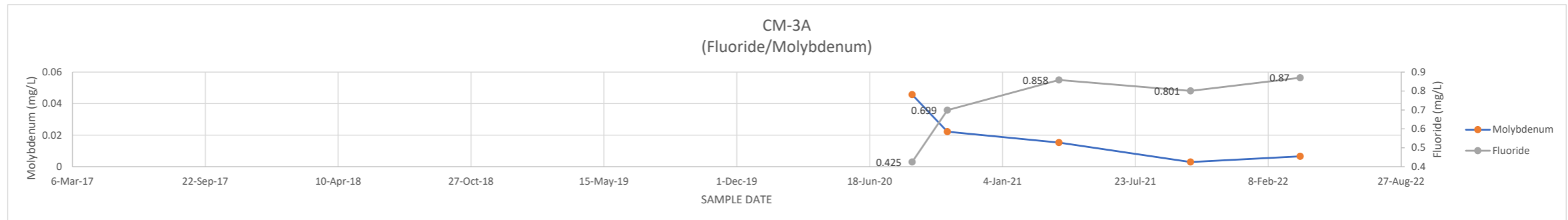
CM-1B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.626	0.0133
12-Oct-20	0.599	0.0144
1-Apr-21		0.0113
14-Oct-21	0.789	0.00976
31-Mar-22	0.828	0.00696



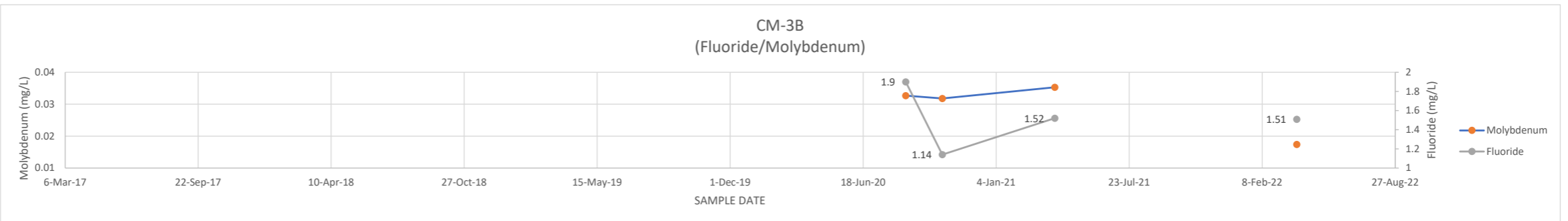
CM-2 DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.558	0.00209
7-Oct-20	0.5	0.00203
1-Apr-21	0.419	0.00161
15-Oct-21	0.526	0.0012
31-Mar-22	0.506	0.00082



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
28-Mar-22	0.87	0.00656

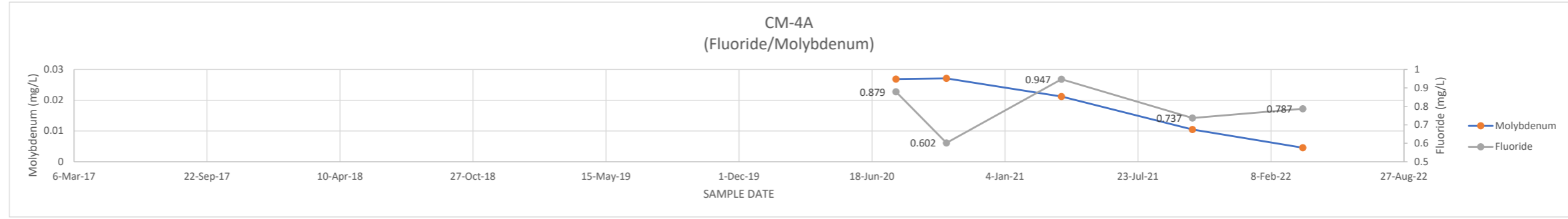


CM-3B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	1.9	0.0327
15-Oct-20	1.14	0.0318
2-Apr-21	1.52	0.0353
11-Oct-21		
1-Apr-22	1.51	0.0174

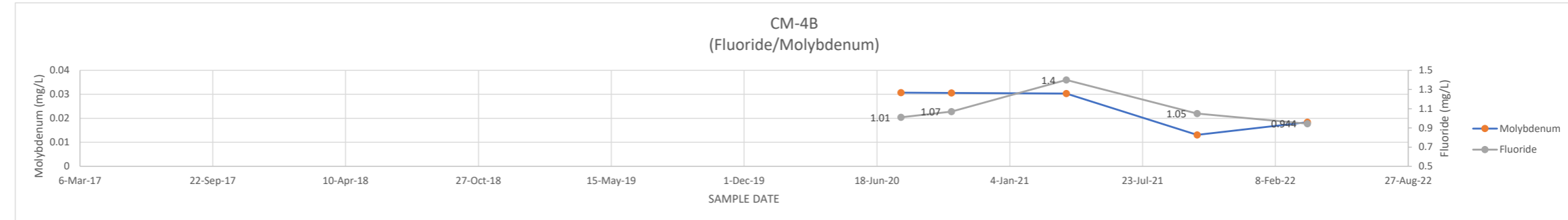


ATTACHMENT F-6
CHANGES IN FLUORIDE AND MOLYBDENUM CONCENTRATIONS

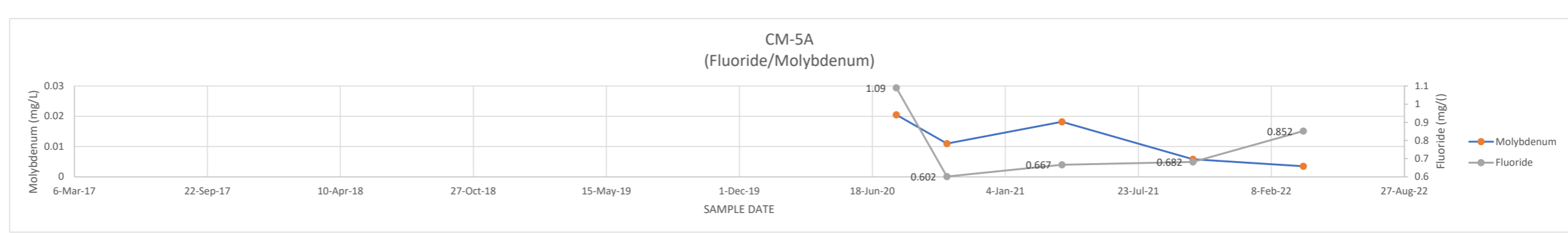
CM-4A DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.879	0.0269
8-Oct-20	0.602	0.0271
30-Mar-21	0.947	0.0212
13-Oct-21	0.737	0.0105
28-Mar-22	0.787	0.00455



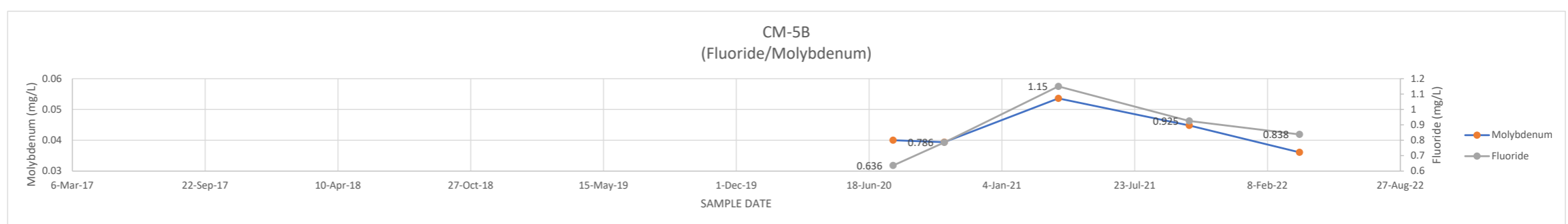
CM-4B DATE	FLUORIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1.01	0.0307
8-Oct-20	1.07	0.0306
30-Mar-21	1.4	0.0303
13-Oct-21	1.05	0.0131
28-Mar-22	0.944	0.0184



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
28-Mar-22	0.852	0.00351



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
28-Mar-22	0.838	0.0361

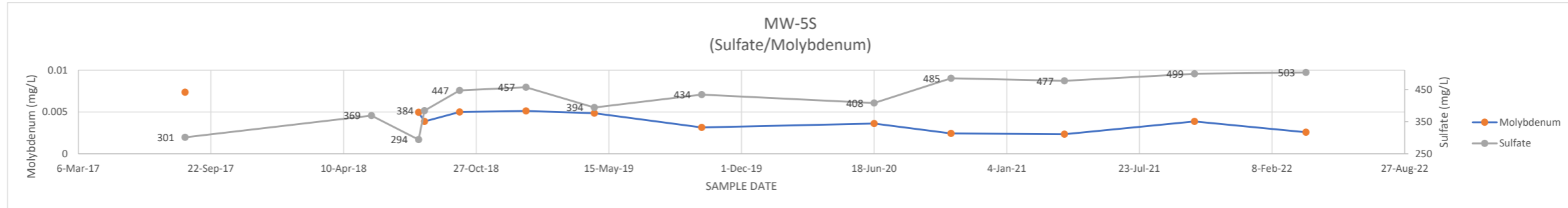


Yellow Indicates Reported Below shown value (MDL)

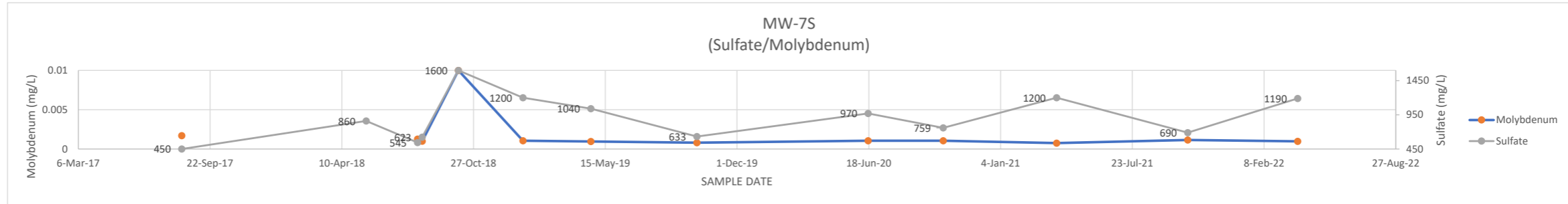
ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

MW-5S	SULFATE	MOLYBDENUM
DATE		
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
31-Mar-22	503	0.00257

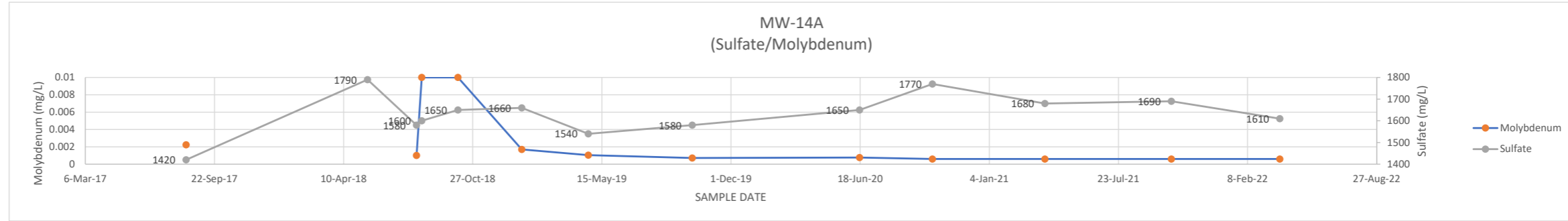
Value denoted in red from June 2022 resample



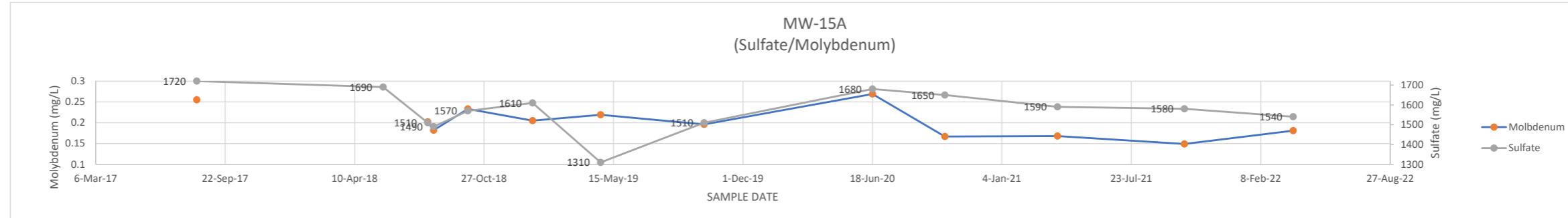
MW-7S	SULFATE	MOLYBDENUM
DATE		
10-Aug-17	450	0.00171
17-May-18	860	
3-Aug-18	545	0.00127
10-Aug-18	623	0.001
4-Oct-18	1600	0.01
10-Jan-19	1200	0.00105
23-Apr-19	1040	0.000952
1-Oct-19	633	0.000798
17-Jun-20	970	0.00105
9-Oct-20	759	0.00106
30-Mar-21	1200	0.000755
15-Oct-21	690	0.00115
31-Mar-22	1190	0.000973



MW-14A	SULFATE	MOLYBDENUM
DATE		
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
30-Mar-22	1610	0.0006

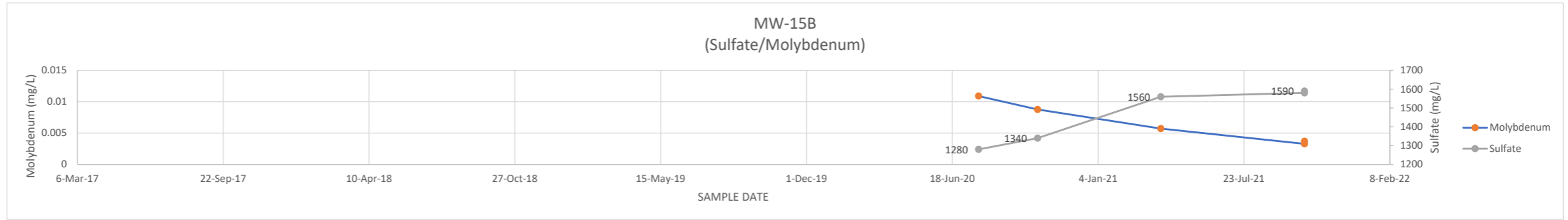


MW-15A	SULFATE	MOLYBDENUM
DATE		
9-Aug-17	1720	0.255
24-May-18	1690	
1-Aug-18	1510	0.202
10-Aug-18	1490	0.182
2-Oct-18	1570	0.233
10-Jan-19	1610	0.205
25-Apr-19	1310	0.219
2-Oct-19	1510	0.196
18-Jun-20	1680	0.269
8-Oct-20	1650	0.167
31-Mar-21	1590	0.168
13-Oct-21	1580	0.149
30-Mar-22	1540	0.181

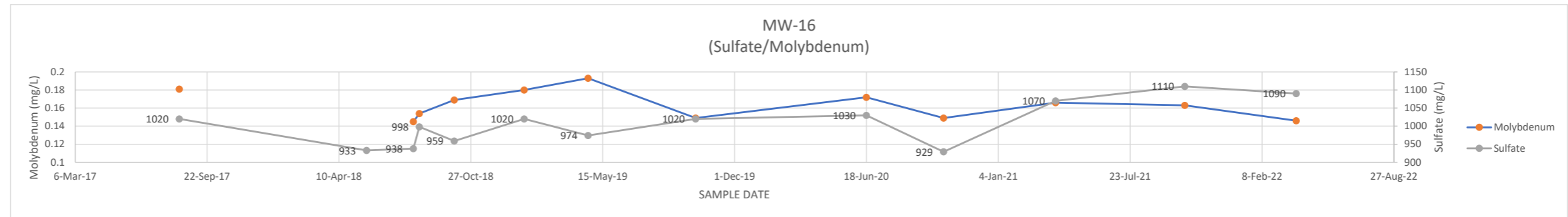


ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

MW-15B	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	1280	0.0109
13-Oct-20	1340	0.00876
31-Mar-21	1560	0.00571
14-Oct-21	1580	0.00328
14-Oct-21	1590	0.0037

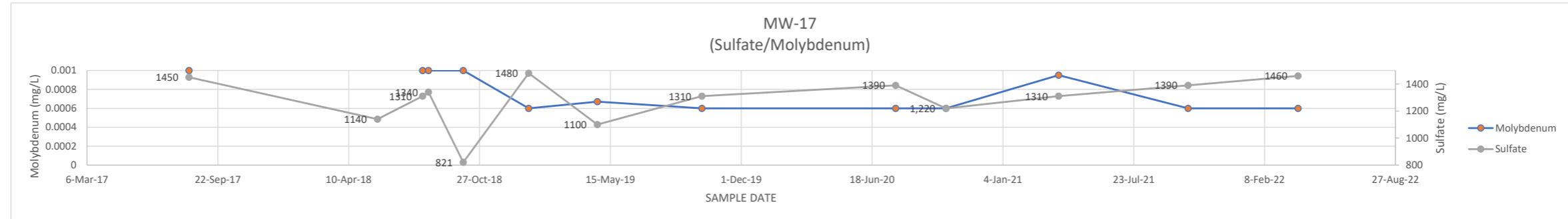


MW-16	SULFATE	MOLYBDENUM
DATE		
11-Aug-17	1020	0.181
22-May-18	933	
1-Aug-18	938	0.145
10-Aug-18	998	0.154
2-Oct-18	959	0.169
16-Jan-19	1020	0.18
23-Apr-19	974	0.193
3-Oct-19	1020	0.149
18-Jun-20	1030	0.172
13-Oct-20	929	0.149
1-Apr-21	1070	0.166
14-Oct-21	1110	0.163
1-Apr-22	1090	0.146



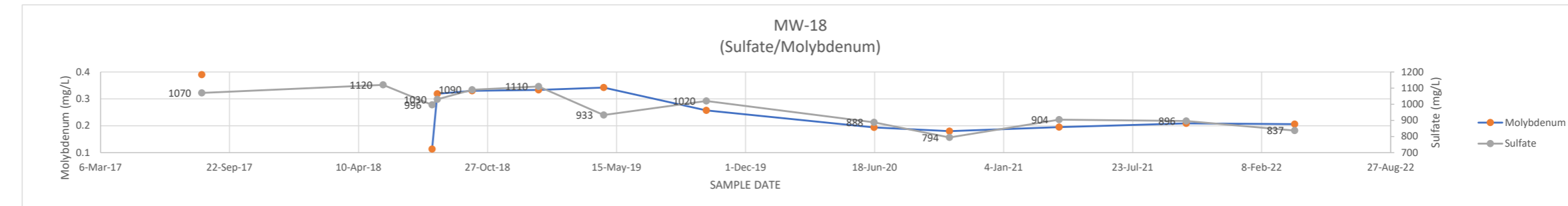
Value denoted in red from June 2022 resample

MW-17	SULFATE	MOLYBDENUM
DATE		
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
31-Mar-22	1460	0.0006



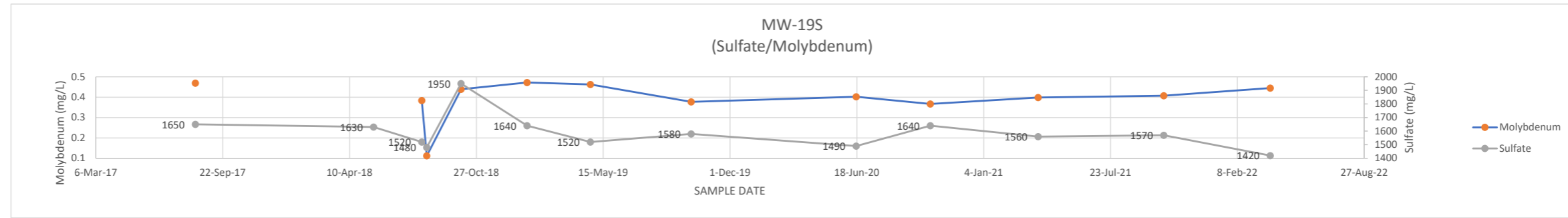
Value denoted in red from June 2022 resample

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
31-Mar-22	837	0.206

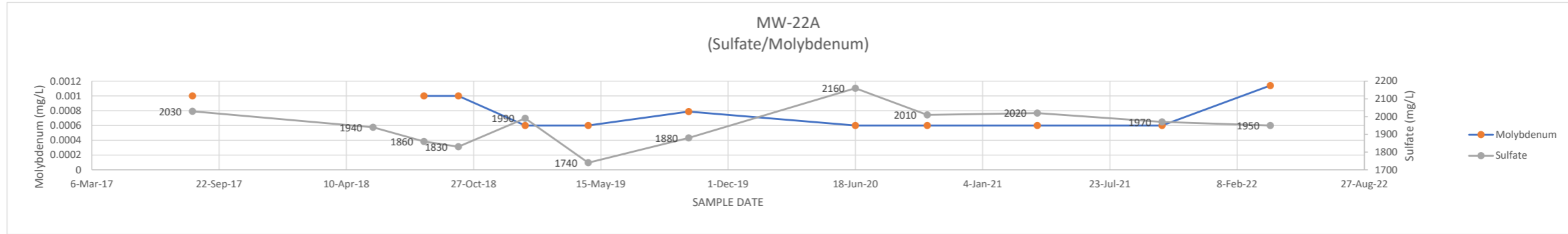


ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

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
1-Apr-22	1420	0.445

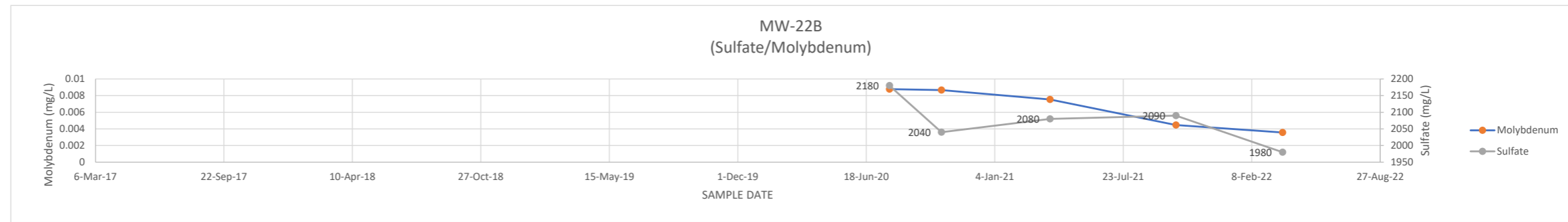


MW-22A	SULFATE	MOLYBDENUM
DATE		
11-Aug-17	2030	0.001
22-May-18	1940	
10-Aug-18	1860	0.001
3-Oct-18	1830	0.001
16-Jan-19	1990	0.0006
25-Apr-19	1740	0.0006
30-Sep-19	1880	0.000787
18-Jun-20	2160	0.0006
9-Oct-20	2010	0.0006
31-Mar-21	2020	0.0006
13-Oct-21	1970	0.0006
1-Apr-22	1950	0.00114

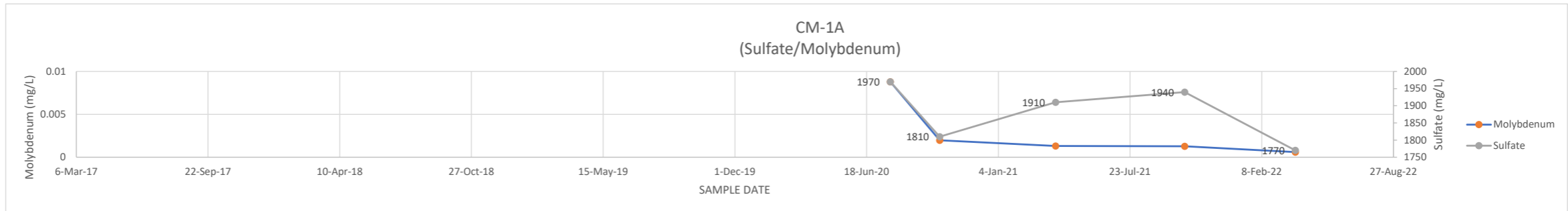


Value denoted in red from June 2022 resample

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
28-Mar-22	1980	0.00357

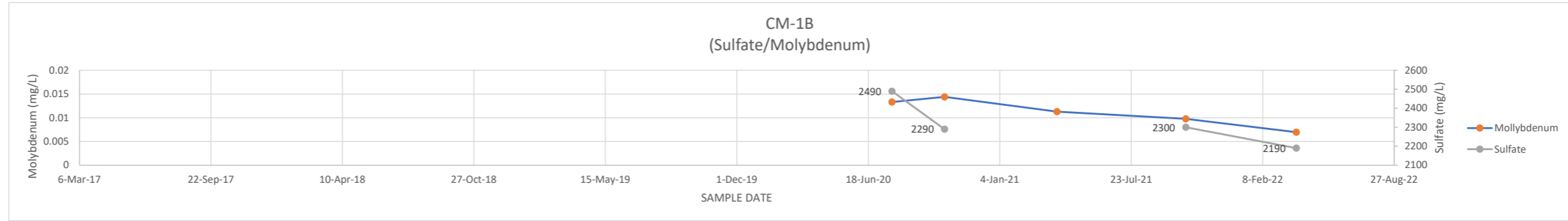


CM-1A	SULFATE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1970	0.0088
7-Oct-20	1810	0.00198
1-Apr-21	1910	0.00132
14-Oct-21	1940	0.00127
31-Mar-22	1770	0.0006

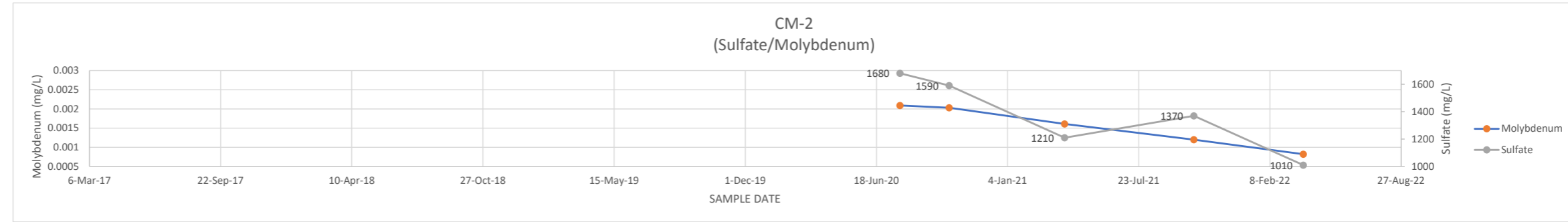


ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

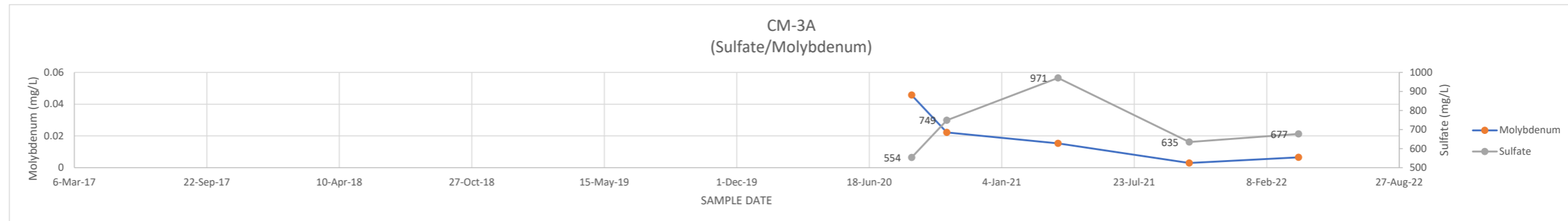
CM-1B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2490	0.0133
12-Oct-20	2290	0.0144
1-Apr-21		0.0113
14-Oct-21	2300	0.00976
31-Mar-22	2190	0.00696



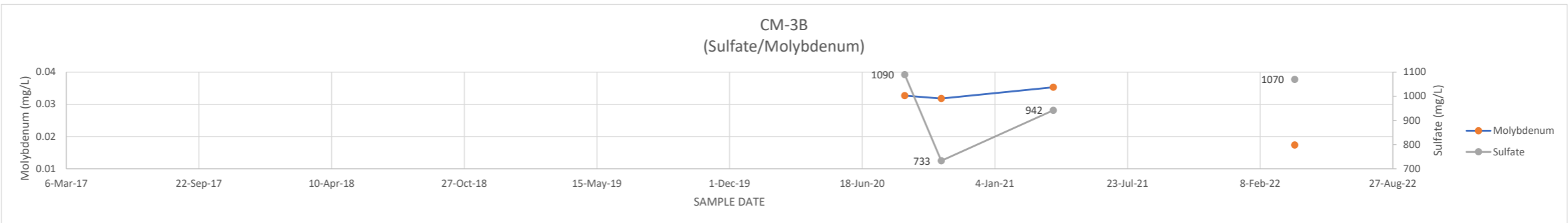
CM-2 DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1680	0.00209
7-Oct-20	1590	0.00203
1-Apr-21	1210	0.00161
15-Oct-21	1370	0.0012
31-Mar-22	1010	0.00082



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
28-Mar-22	677	0.00656

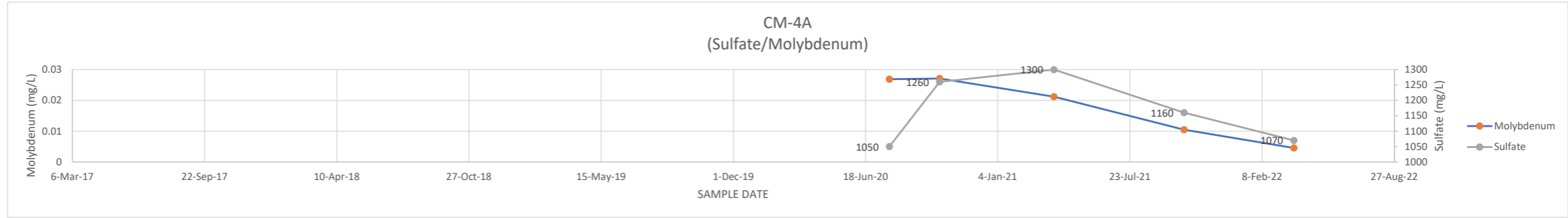


CM-3B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	1090	0.0327
15-Oct-20	733	0.0318
2-Apr-21	942	0.0353
11-Oct-21		
1-Apr-22	1070	0.0174

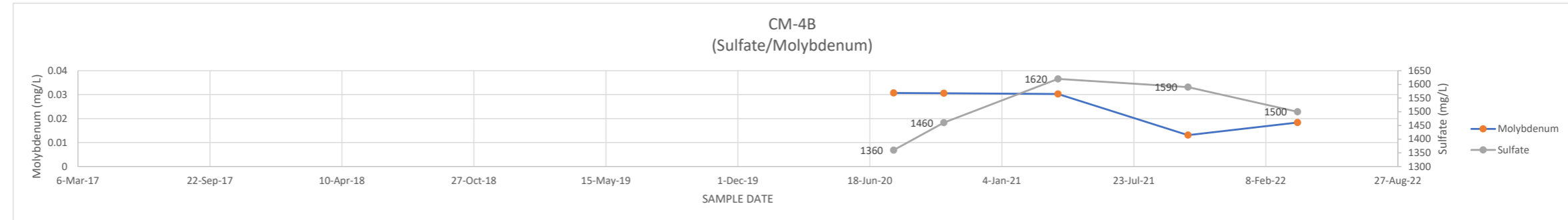


ATTACHMENT F-7
CHANGES IN SULFATE AND MOLYBDENUM CONCENTRATIONS

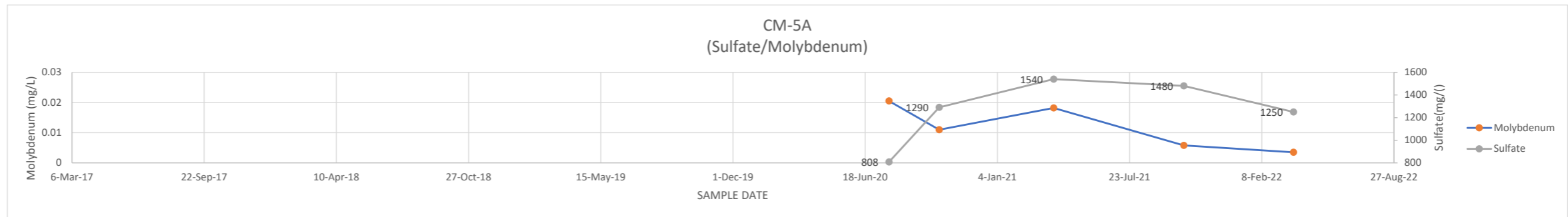
CM-4A DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1050	0.0269
8-Oct-20	1260	0.0271
30-Mar-21	1300	0.0212
13-Oct-21	1160	0.0105
28-Mar-22	1070	0.00455



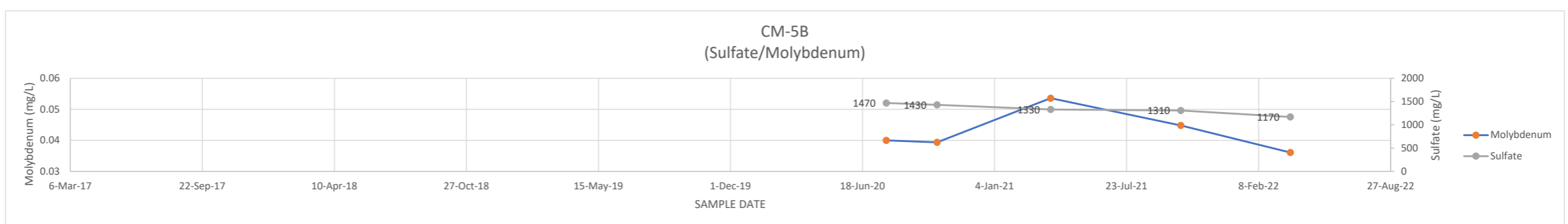
CM-4B DATE	SULFATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1360	0.0307
8-Oct-20	1460	0.0306
30-Mar-21	1620	0.0303
13-Oct-21	1590	0.0131
28-Mar-22	1500	0.0184



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
28-Mar-22	1250	0.00351



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
28-Mar-22	1170	0.0361



Yellow Indicates Reported Below shown value (MDL)

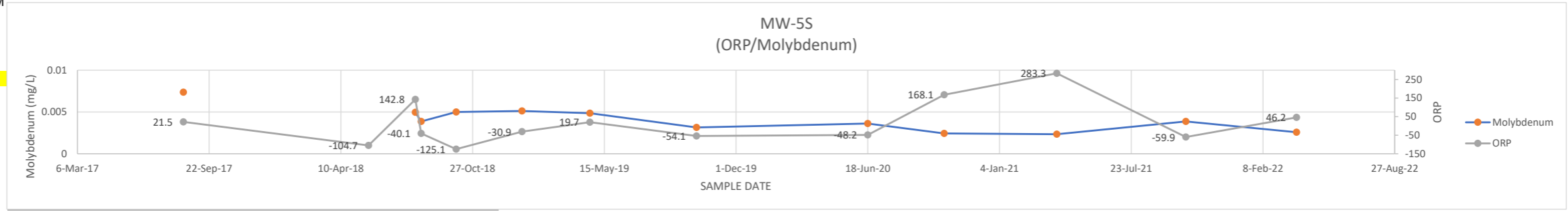
ATTACHMENT G

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

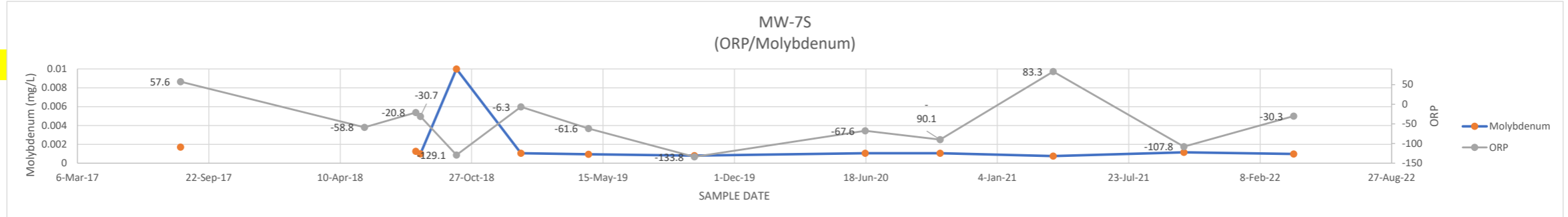
- G-1: CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS
- G-2: CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS
- G-3: CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS
- G-4: CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS
- G-5: CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS
- G-6: CHANGES IN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

ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

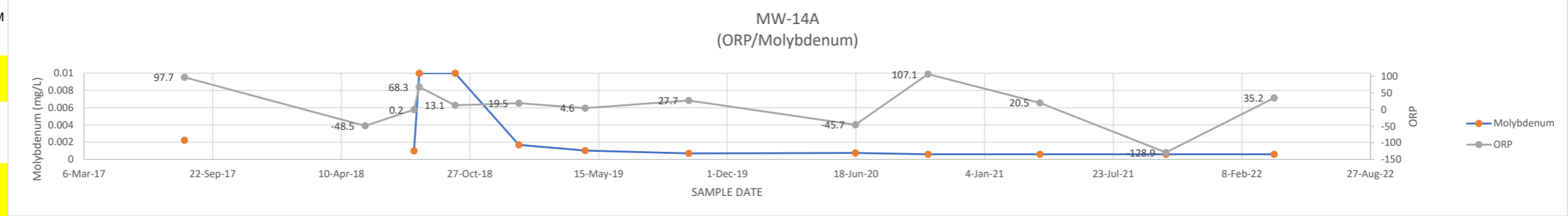
MW-5S	ORP	MOLYBDENUM
DATE		
14-Aug-17	21.5	0.00737
22-May-18	-104.7	
1-Aug-18	142.8	0.00497
10-Aug-18	-40.1	0.00387
2-Oct-18	-125.1	0.005
10-Jan-19	-30.9	0.00512
23-Apr-19	19.7	0.00485
2-Oct-19	-54.1	0.00315
18-Jun-20	-48.2	0.00361
12-Oct-20	168.1	0.00244
1-Apr-21	283.3	0.00234
14-Oct-21	-59.9	0.00387
31-Mar-22	46.2	0.00257



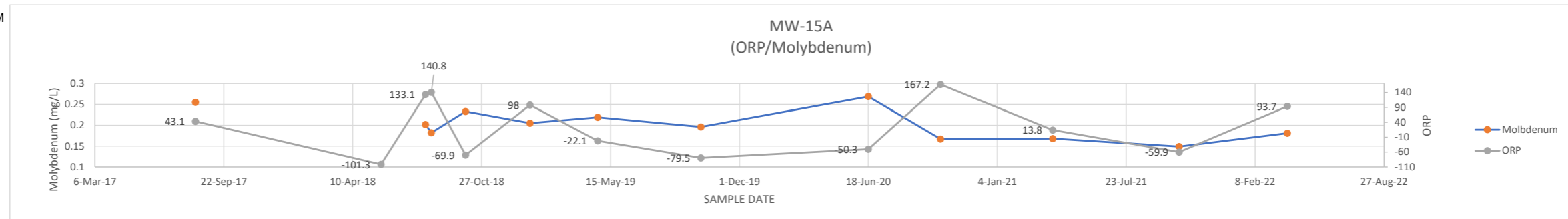
MW-7S	ORP	MOLYBDENUM
DATE		
10-Aug-17	57.6	0.00171
17-May-18	-58.8	
3-Aug-18	-20.8	0.00127
10-Aug-18	-30.7	0.001
4-Oct-18	-129.1	0.01
10-Jan-19	-6.3	0.00105
23-Apr-19	-61.6	0.000952
1-Oct-19	-133.8	0.000798
17-Jun-20	-67.6	0.00105
9-Oct-20	-90.1	0.00106
30-Mar-21	83.3	0.000755
15-Oct-21	-107.8	0.00115
31-Mar-22	-30.3	0.000973



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
30-Mar-22	35.2	0.0006

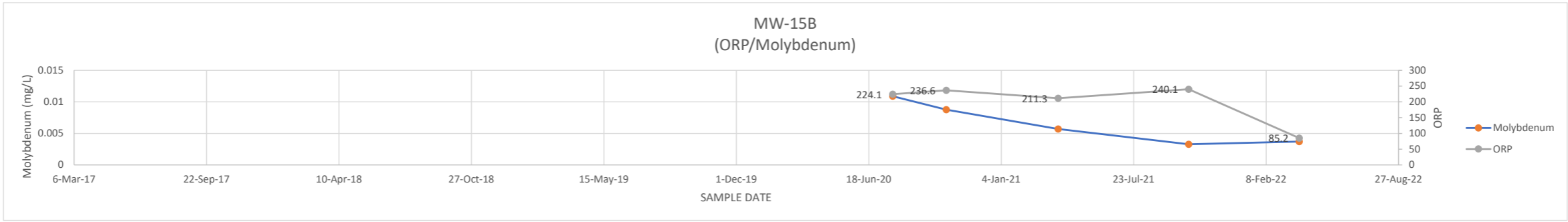


MW-15A	ORP	MOLYBDENUM
DATE		
9-Aug-17	43.1	0.255
24-May-18	-101.3	
1-Aug-18	133.1	0.202
10-Aug-18	140.8	0.182
2-Oct-18	-69.9	0.233
10-Jan-19	98	0.205
25-Apr-19	-22.1	0.219
2-Oct-19	-79.5	0.196
18-Jun-20	-50.3	0.269
8-Oct-20	167.2	0.167
31-Mar-21	13.8	0.168
13-Oct-21	-59.9	0.149
30-Mar-22	93.7	0.181

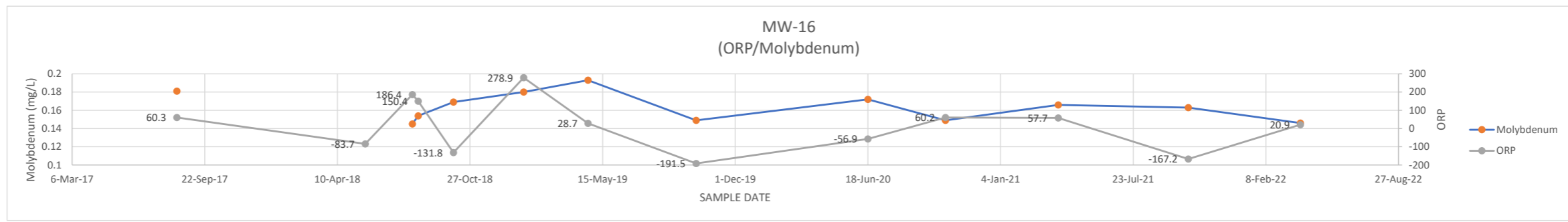


ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

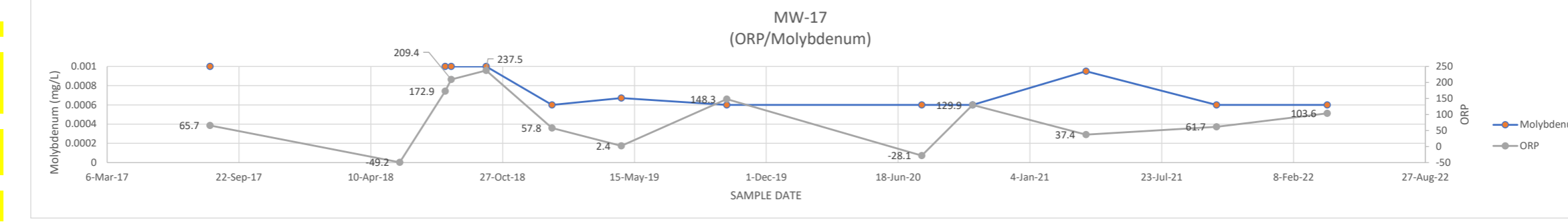
MW-15B	ORP	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	224.1	0.0109
13-Oct-20	236.6	0.00876
31-Mar-21	211.3	0.00571
14-Oct-21	240.1	0.00328
30-Mar-22	85.2	0.0037



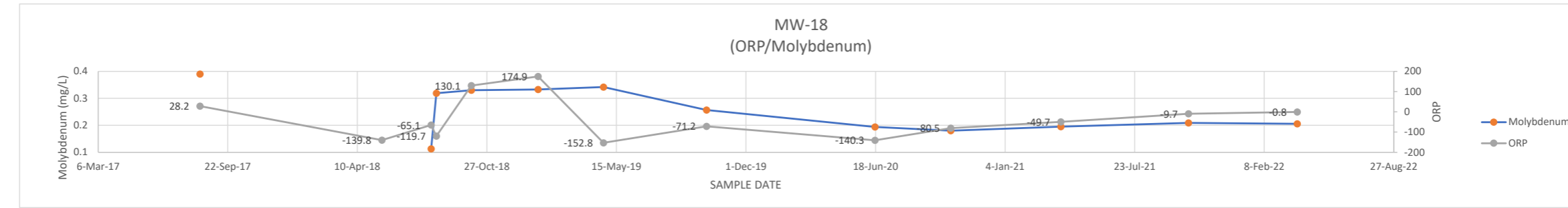
MW-16	ORP	MOLYBDENUM
DATE		
11-Aug-17	60.3	0.181
22-May-18	-83.7	
1-Aug-18	186.4	0.145
10-Aug-18	150.4	0.154
2-Oct-18	-131.8	0.169
16-Jan-19	278.9	0.18
23-Apr-19	28.7	0.193
3-Oct-19	-191.5	0.149
18-Jun-20	-56.9	0.172
13-Oct-20	60.2	0.149
1-Apr-21	57.7	0.166
14-Oct-21	-167.2	0.163
1-Apr-22	20.9	0.146



MW-17	ORP	MOLYBDENUM
DATE		
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
31-Mar-22	103.6	0.0006

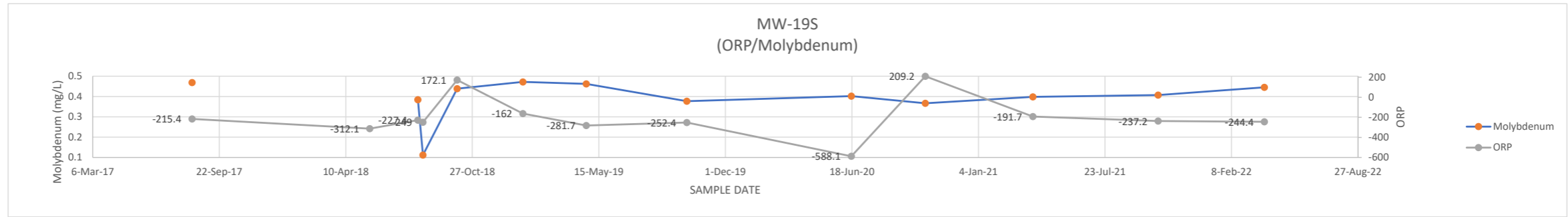


MW-18	ORP	MOLYBDENUM
DATE		
10-Aug-17	28.2	0.39
18-May-18	-139.8	
2-Aug-18	-65.1	0.113
10-Aug-18	-119.7	0.319
3-Oct-18	130.1	0.33
14-Jan-19	174.9	0.333
25-Apr-19	-152.8	0.342
1-Oct-19	-71.2	0.257
17-Jun-20	-140.3	0.194
12-Oct-20	-80.5	0.18
31-Mar-21	-49.7	0.195
14-Oct-21	-9.7	0.209
31-Mar-22	-0.8	0.206

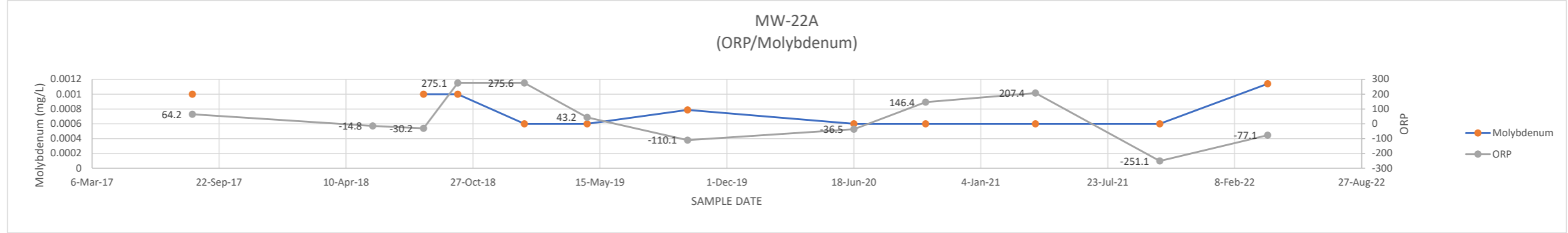


ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

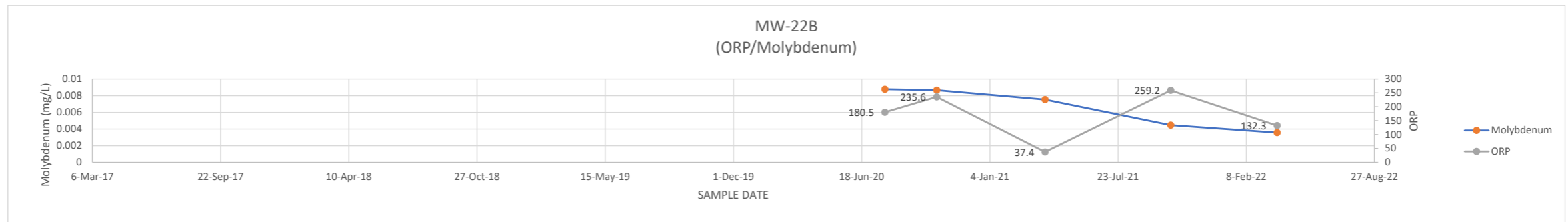
MW-19S DATE	ORP	MOLYBDENUM
10-Aug-17	-215.4	0.469
18-May-18	-312.1	
2-Aug-18	-227.4	0.384
10-Aug-18	-249	0.112
3-Oct-18	172.1	0.439
15-Jan-19	-162	0.472
25-Apr-19	-281.7	0.462
1-Oct-19	-252.4	0.377
17-Jun-20	-588.1	0.402
12-Oct-20	209.2	0.367
31-Mar-21	-191.7	0.398
15-Oct-21	-237.2	0.407
1-Apr-22	-244.4	0.445



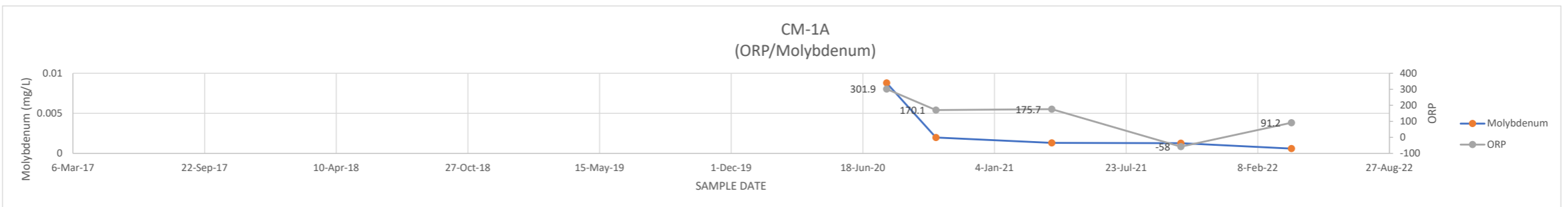
MW-22A DATE	ORP	MOLYBDENUM
11-Aug-17	64.2	0.001
22-May-18	-14.8	
10-Aug-18	-30.2	0.001
3-Oct-18	275.1	0.001
16-Jan-19	275.6	0.0006
25-Apr-19	43.2	0.0006
30-Sep-19	-110.1	0.000787
18-Jun-20	-36.5	0.0006
9-Oct-20	146.4	0.0006
31-Mar-21	207.4	0.0006
13-Oct-21	-251.1	0.0006
1-Apr-22	-77.1	0.00114



MW-22B 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	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
28-Mar-22	132.3	0.00357

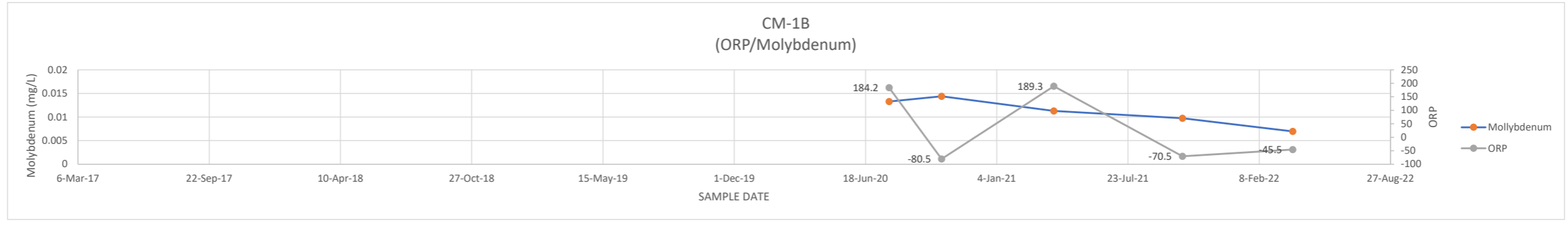


CM-1A DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	301.9	0.0088
7-Oct-20	170.1	0.00198
1-Apr-21	175.7	0.00132
14-Oct-21	-58	0.00127
31-Mar-22	91.2	0.0006

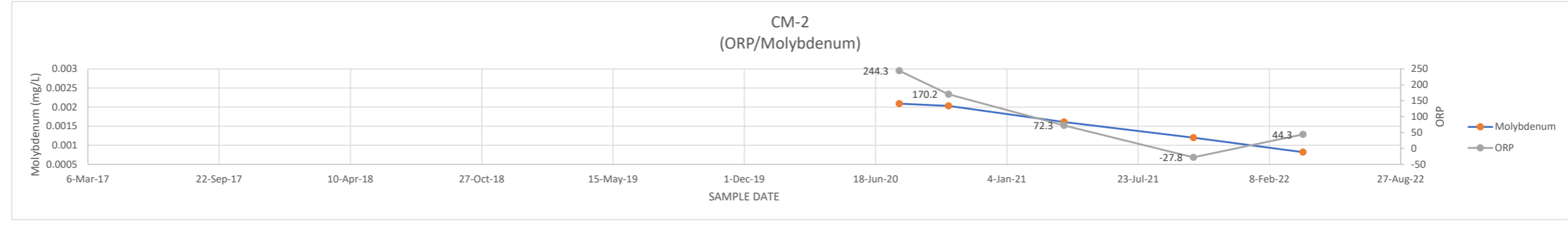


ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

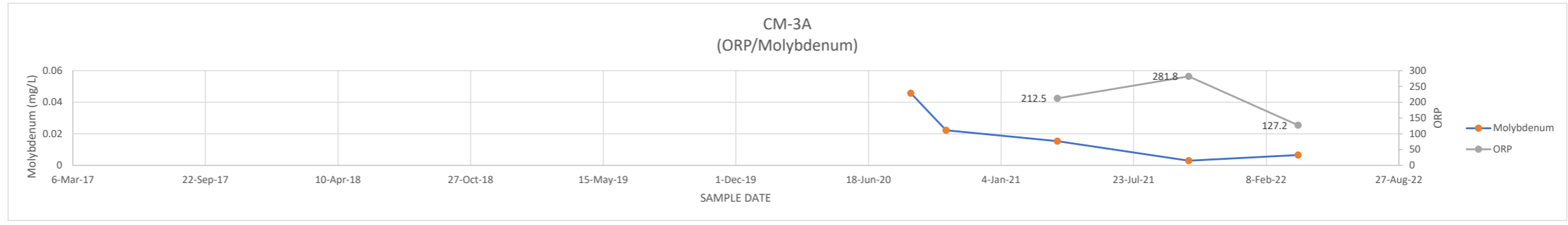
CM-1B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	184.2	0.0133
12-Oct-20	-80.5	0.0144
1-Apr-21	189.3	0.0113
14-Oct-21	-70.5	0.00976
31-Mar-22	-45.5	0.00696



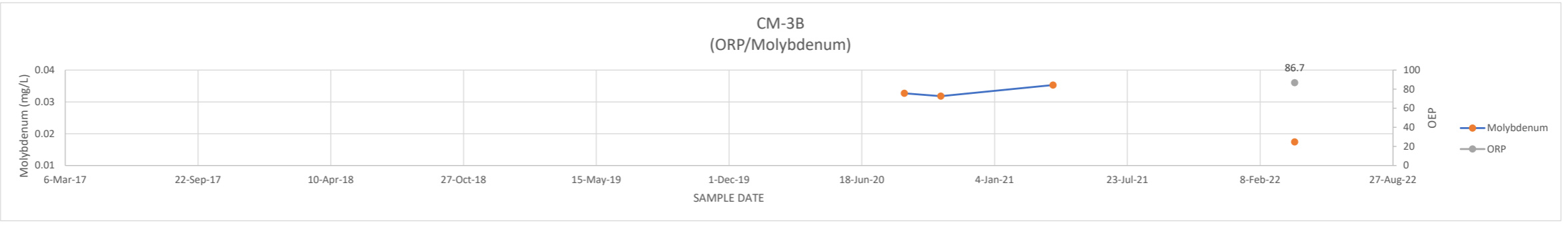
CM-2 DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	244.3	0.00209
7-Oct-20	170.2	0.00203
1-Apr-21	72.3	0.00161
15-Oct-21	-27.8	0.0012
31-Mar-22	44.3	0.00082



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
28-Mar-22	127.2	0.00656

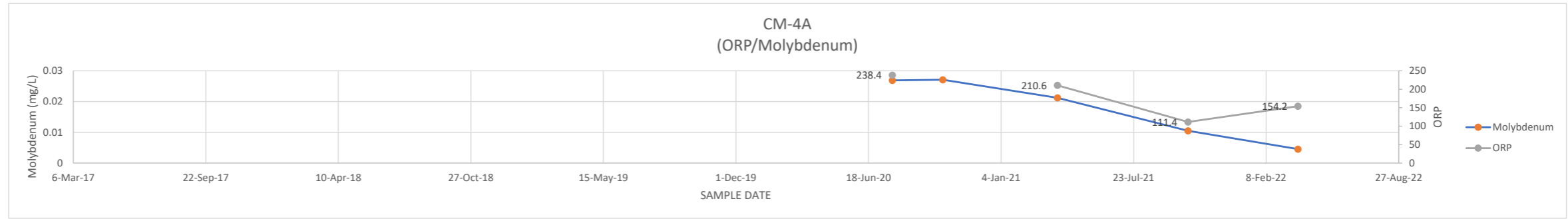


CM-3B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22	86.7	0.0174

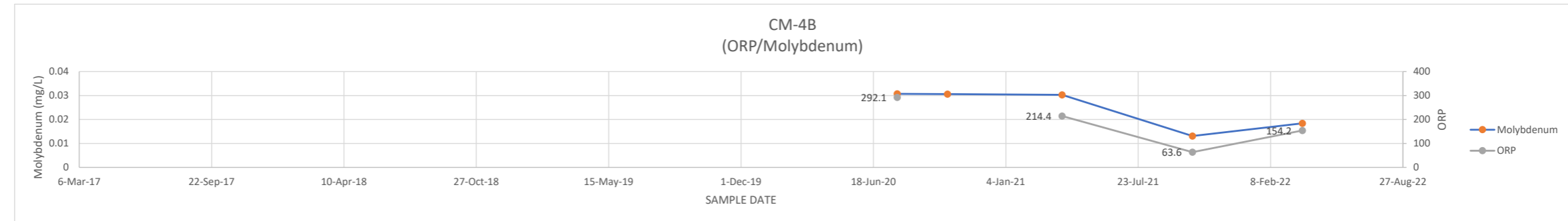


ATTACHMENT G-1
CHANGES IN ORP AND MOLYBDENUM CONCENTRATIONS

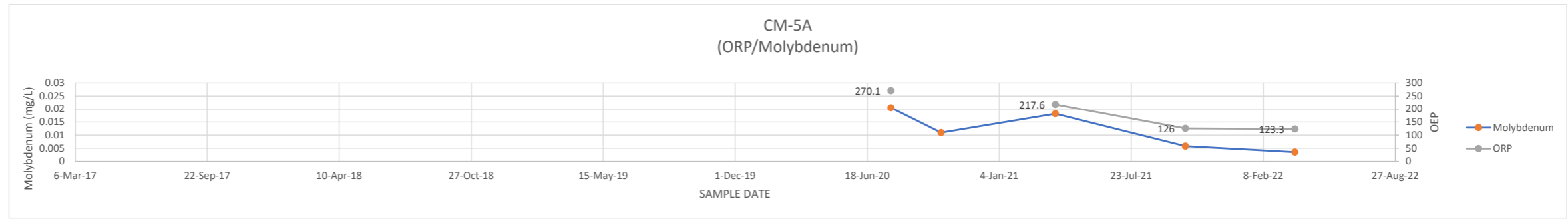
CM-4A DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	238.4	0.0269
8-Oct-20		0.0271
30-Mar-21	210.6	0.0212
13-Oct-21	111.4	0.0105
28-Mar-22	154.2	0.00455



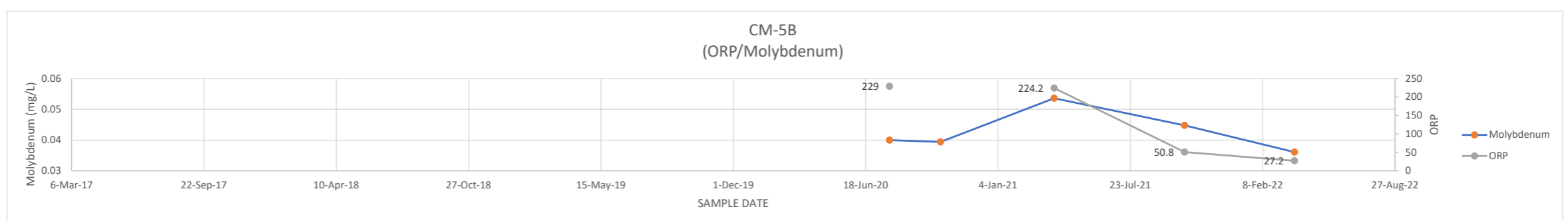
CM-4B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	292.1	0.0307
8-Oct-20		0.0306
30-Mar-21	214.4	0.0303
13-Oct-21	63.6	0.0131
28-Mar-22	154.2	0.0184



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
28-Mar-22	123.3	0.00351



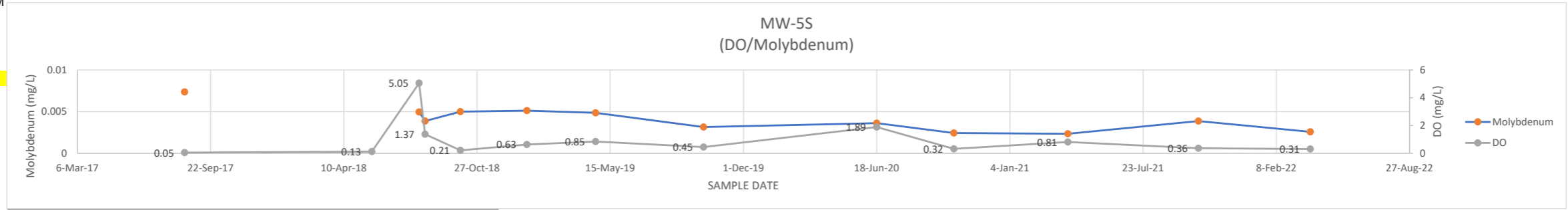
CM-5B DATE	ORP	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	229	0.04
9-Oct-20		0.0394
30-Mar-21	224.2	0.0536
13-Oct-21	50.8	0.0448
28-Mar-22	27.2	0.0361



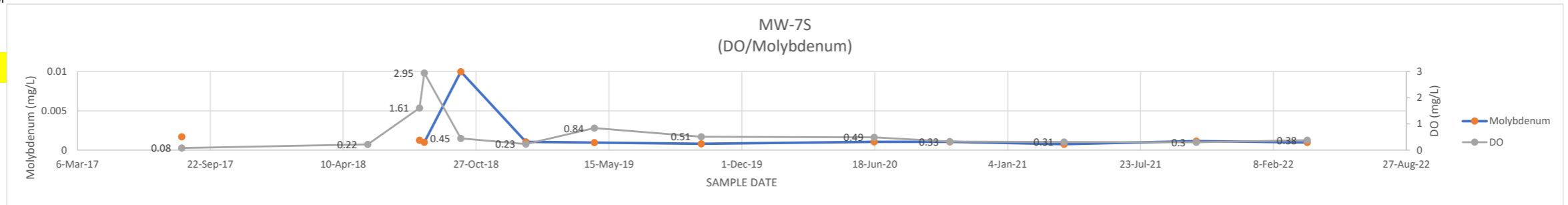
Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

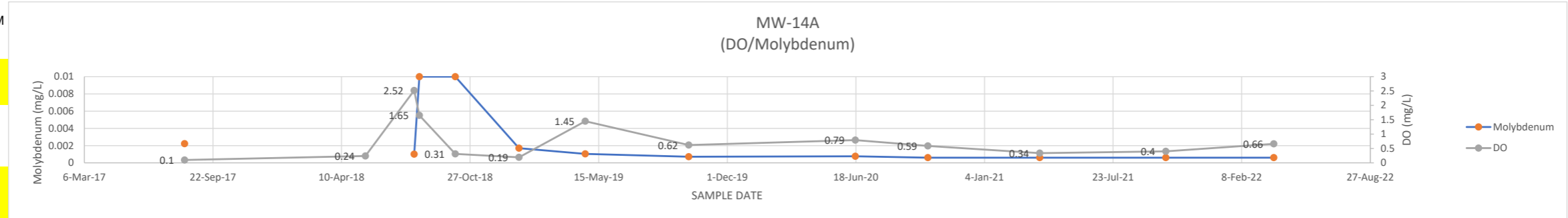
MW-5S	DO	MOLYBDENUM
DATE		
14-Aug-17	0.05	0.00737
22-May-18	0.13	
1-Aug-18	5.05	0.00497
10-Aug-18	1.37	0.00387
2-Oct-18	0.21	0.005
10-Jan-19	0.63	0.00512
23-Apr-19	0.85	0.00485
2-Oct-19	0.45	0.00315
18-Jun-20	1.89	0.00361
12-Oct-20	0.32	0.00244
1-Apr-21	0.81	0.00234
14-Oct-21	0.36	0.00387
31-Mar-22	0.31	0.00257



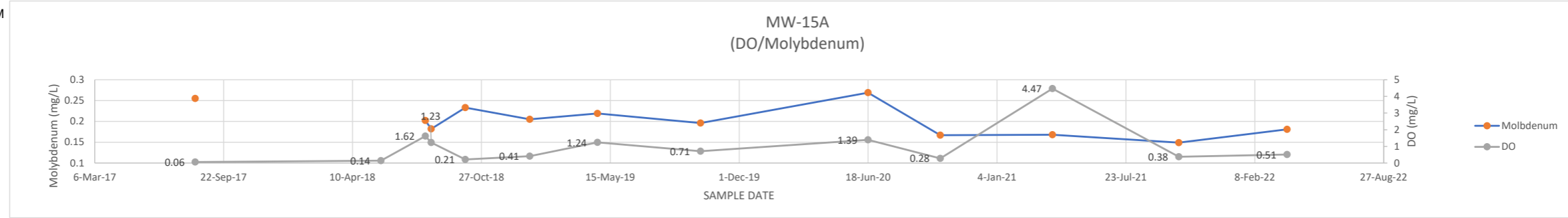
MW-7S	DO	MOLYBDENUM
DATE		
10-Aug-17	0.08	0.00171
17-May-18	0.22	
3-Aug-18	1.61	0.00127
10-Aug-18	2.95	0.001
4-Oct-18	0.45	0.01
10-Jan-19	0.23	0.00105
23-Apr-19	0.84	0.000952
1-Oct-19	0.51	0.000798
17-Jun-20	0.49	0.00105
9-Oct-20	0.33	0.00106
30-Mar-21	0.31	0.000755
15-Oct-21	0.3	0.00115
31-Mar-22	0.38	0.000973



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
30-Mar-22	0.66	0.0006

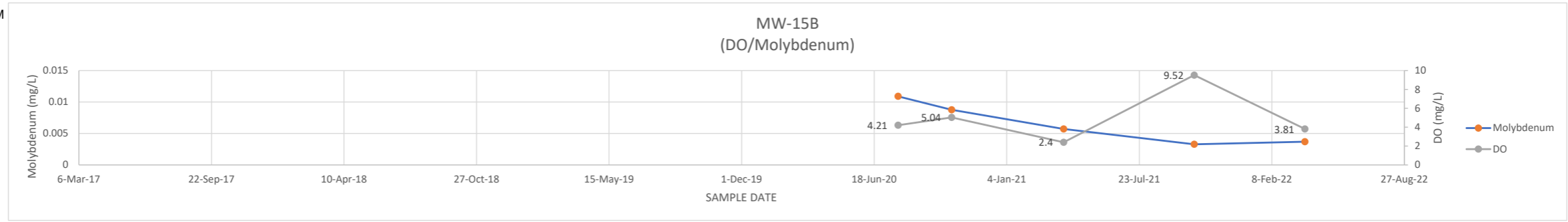


MW-15A	DO	MOLYBDENUM
DATE		
9-Aug-17	0.06	0.255
24-May-18	0.14	
1-Aug-18	1.62	0.202
10-Aug-18	1.23	0.182
2-Oct-18	0.21	0.233
10-Jan-19	0.41	0.205
25-Apr-19	1.24	0.219
2-Oct-19	0.71	0.196
18-Jun-20	1.39	0.269
8-Oct-20	0.28	0.167
31-Mar-21	4.47	0.168
13-Oct-21	0.38	0.149
30-Mar-22	0.51	0.181

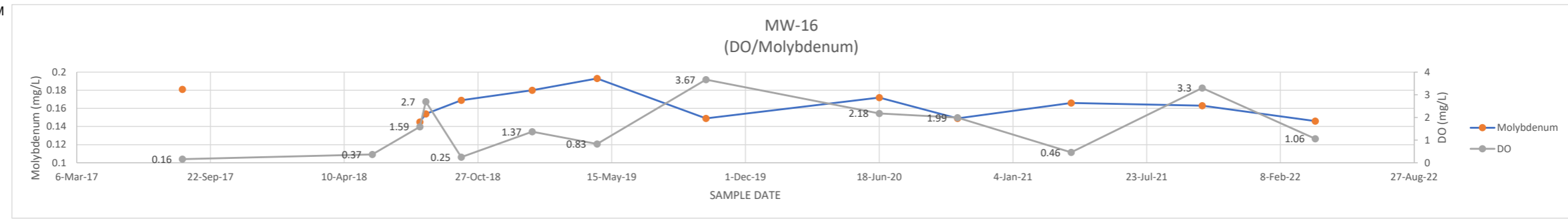


ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

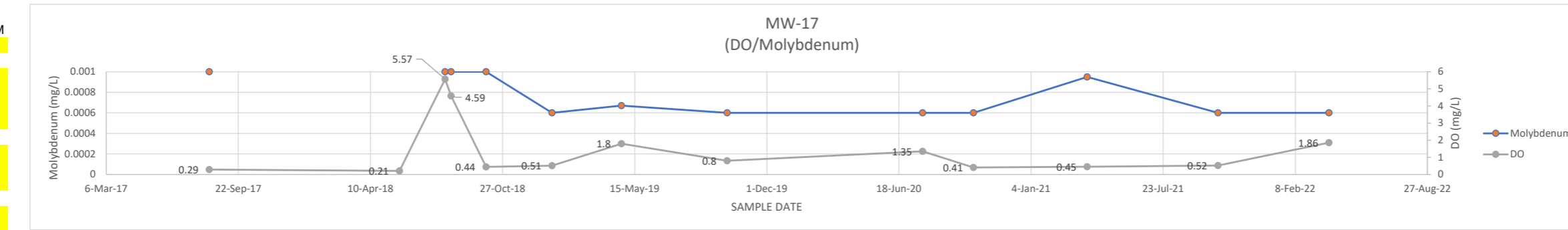
MW-15B	DO	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4.21	0.0109
13-Oct-20	5.04	0.00876
31-Mar-21	2.4	0.00571
14-Oct-21	9.52	0.00328
30-Mar-22	3.81	0.0037



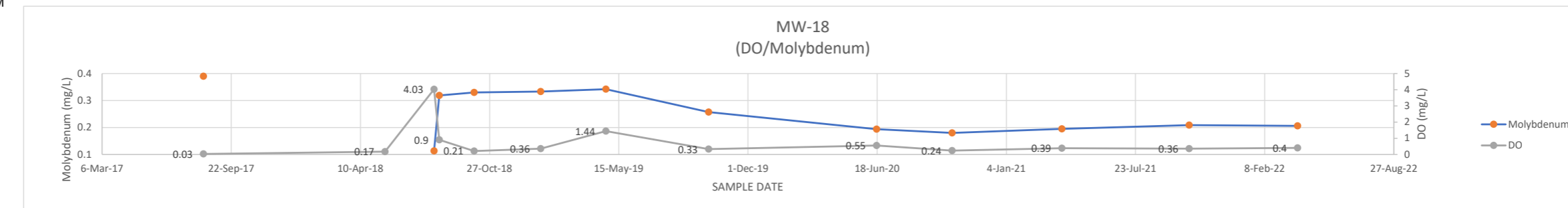
MW-16	DO	MOLYBDENUM
DATE		
11-Aug-17	0.16	0.181
22-May-18	0.37	
1-Aug-18	1.59	0.145
10-Aug-18	2.7	0.154
2-Oct-18	0.25	0.169
16-Jan-19	1.37	0.18
23-Apr-19	0.83	0.193
3-Oct-19	3.67	0.149
18-Jun-20	2.18	0.172
13-Oct-20	1.99	0.149
1-Apr-21	0.46	0.166
14-Oct-21	3.3	0.163
1-Apr-22	1.06	0.146



MW-17	DO	MOLYBDENUM
DATE		
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
31-Mar-22	1.86	0.0006

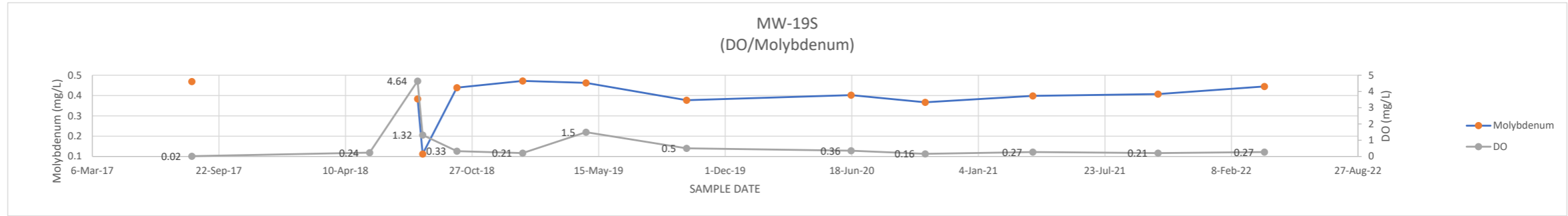


MW-18	ORP	MOLYBDENUM
DATE		
10-Aug-17	0.03	0.39
18-May-18	0.17	
2-Aug-18	4.03	0.113
10-Aug-18	0.9	0.319
3-Oct-18	0.21	0.33
14-Jan-19	0.36	0.333
25-Apr-19	1.44	0.342
1-Oct-19	0.33	0.257
17-Jun-20	0.55	0.194
12-Oct-20	0.24	0.18
31-Mar-21	0.39	0.195
14-Oct-21	0.36	0.209
31-Mar-22	0.4	0.206

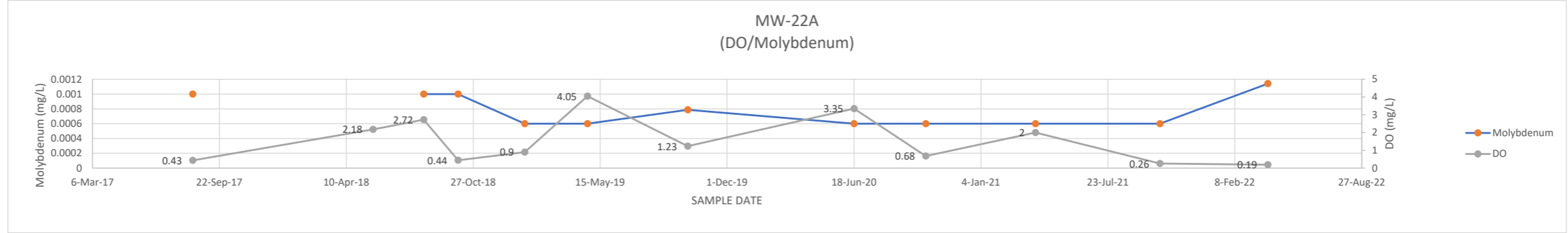


ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

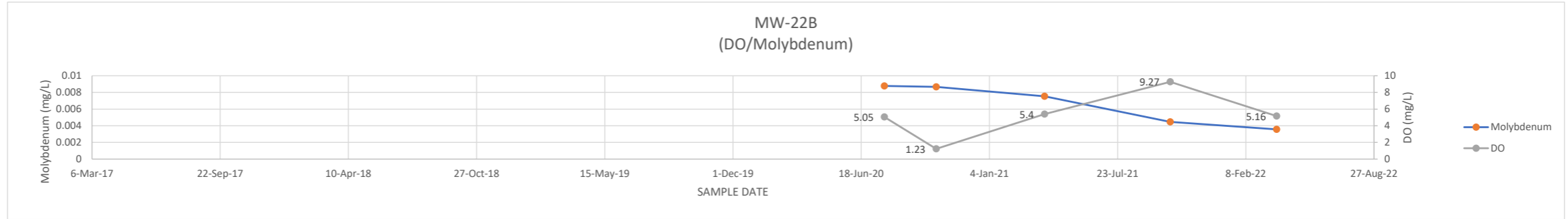
MW-19S	DO	MOLYBDENUM
DATE		
10-Aug-17	0.02	0.469
18-May-18	0.24	
2-Aug-18	4.64	0.384
10-Aug-18	1.32	0.112
3-Oct-18	0.33	0.439
15-Jan-19	0.21	0.472
25-Apr-19	1.5	0.462
1-Oct-19	0.5	0.377
17-Jun-20	0.36	0.402
12-Oct-20	0.16	0.367
31-Mar-21	0.27	0.398
15-Oct-21	0.21	0.407
1-Apr-22	0.27	0.445



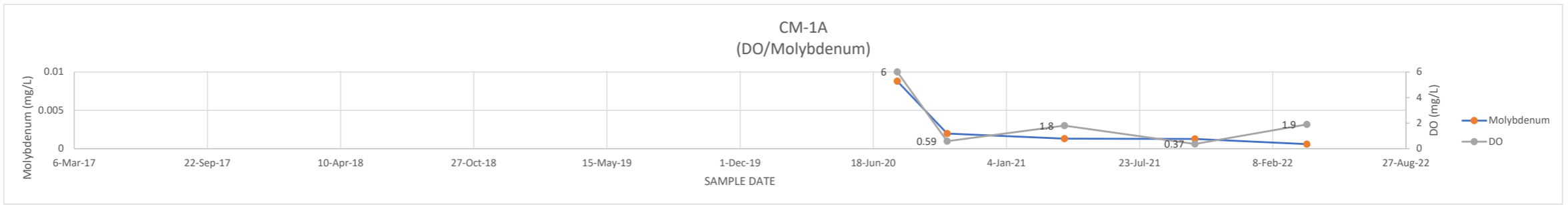
MW-22A	DO	MOLYBDENUM
DATE		
11-Aug-17	0.43	0.001
22-May-18	2.18	
10-Aug-18	2.72	0.001
3-Oct-18	0.44	0.001
16-Jan-19	0.9	0.0006
25-Apr-19	4.05	0.0006
30-Sep-19	1.23	0.000787
18-Jun-20	3.35	0.0006
9-Oct-20	0.68	0.0006
31-Mar-21	2	0.0006
13-Oct-21	0.26	0.0006
1-Apr-22	0.19	0.00114



MW-22B	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	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
28-Mar-22	5.16	0.00357

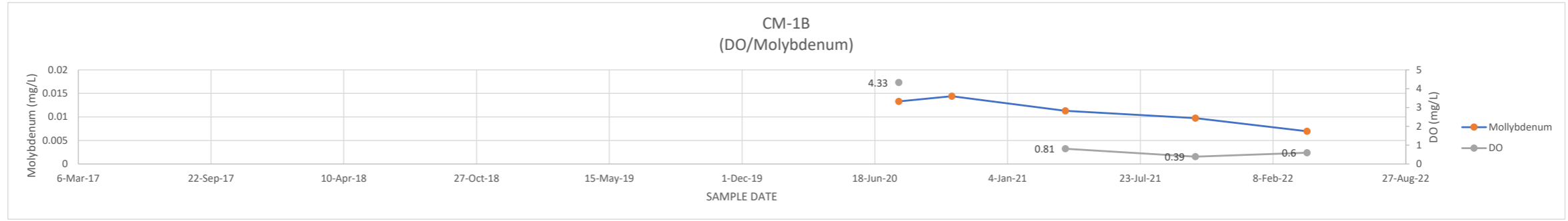


CM-1A	DO	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	6	0.0088
7-Oct-20	0.59	0.00198
1-Apr-21	1.8	0.00132
14-Oct-21	0.37	0.00127
31-Mar-22	1.9	0.0006

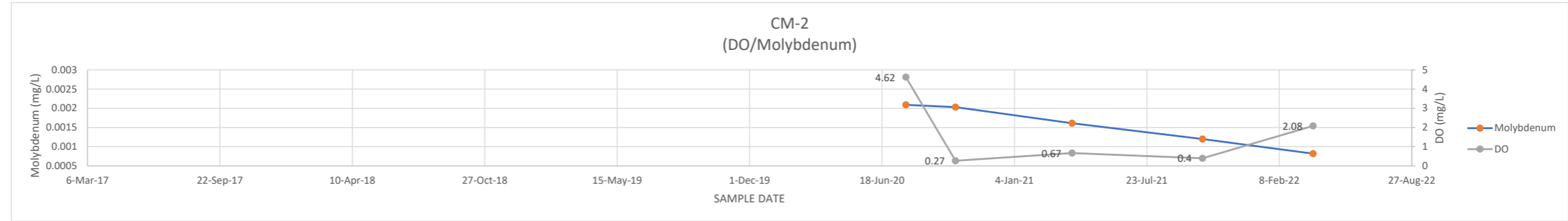


ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

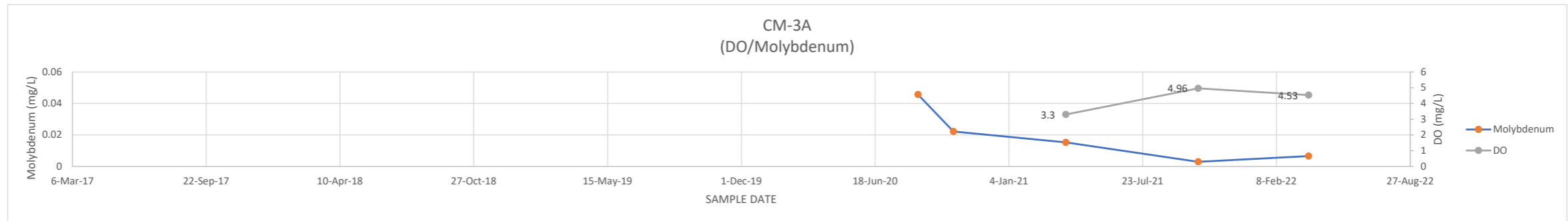
CM-1B DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4.33	0.0133
12-Oct-20		0.0144
1-Apr-21	0.81	0.0113
14-Oct-21	0.39	0.00976
31-Mar-22	0.6	0.00696



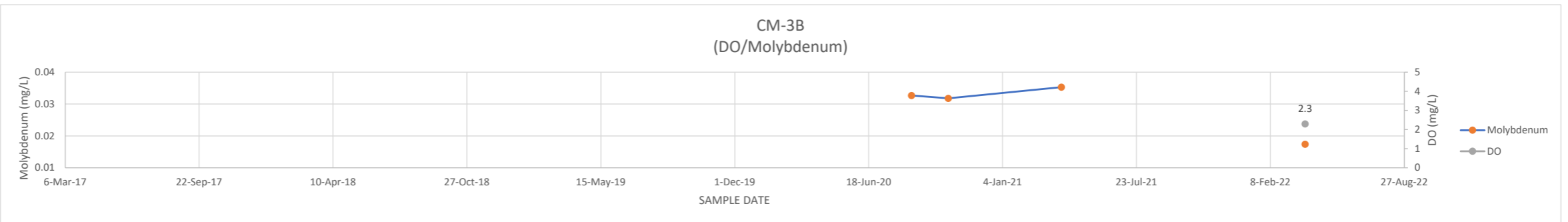
CM-2 DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4.62	0.00209
7-Oct-20	0.27	0.00203
1-Apr-21	0.67	0.00161
15-Oct-21	0.4	0.0012
31-Mar-22	2.08	0.00082



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
28-Mar-22	4.53	0.00656

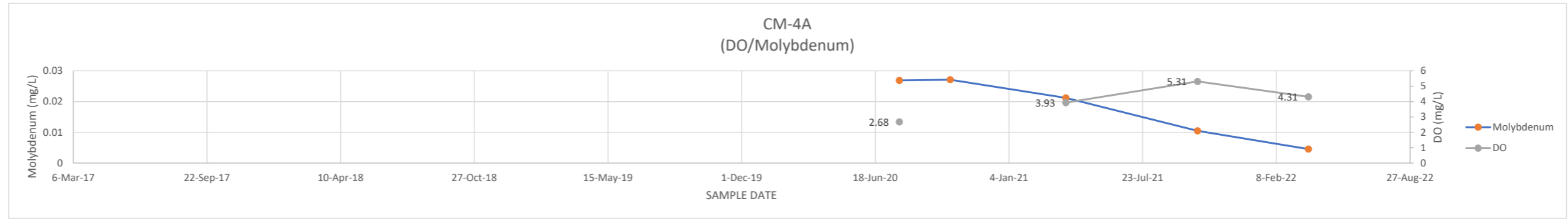


CM-3B DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22	2.3	0.0174

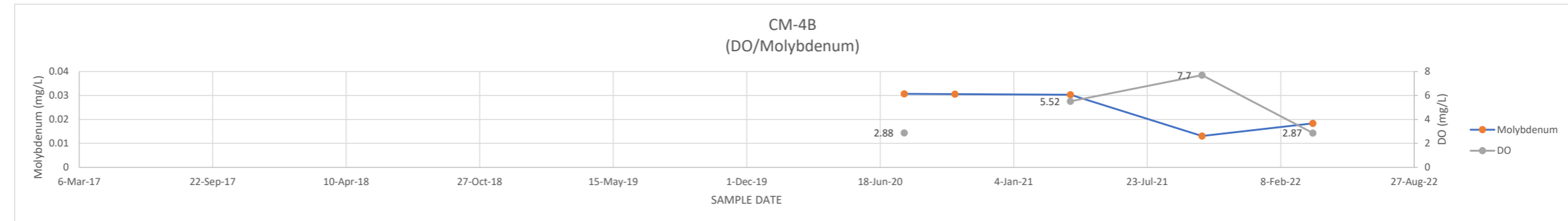


ATTACHMENT G-2
CHANGES IN DO AND MOLYBDENUM CONCENTRATIONS

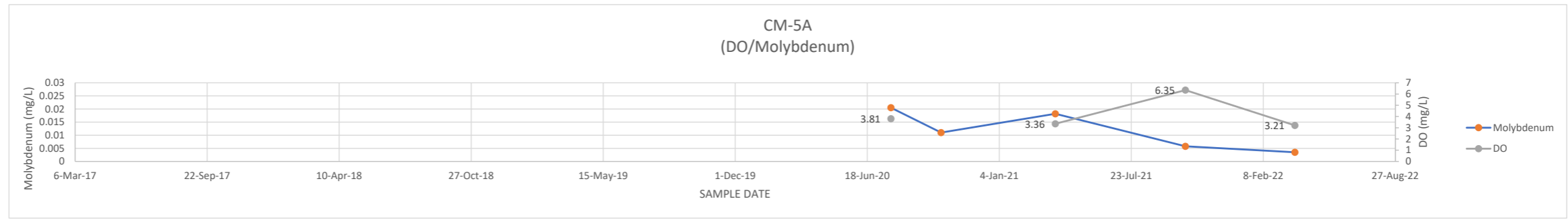
CM-4A DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2.68	0.0269
8-Oct-20		0.0271
30-Mar-21	3.93	0.0212
13-Oct-21	5.31	0.0105
28-Mar-22	4.31	0.00455



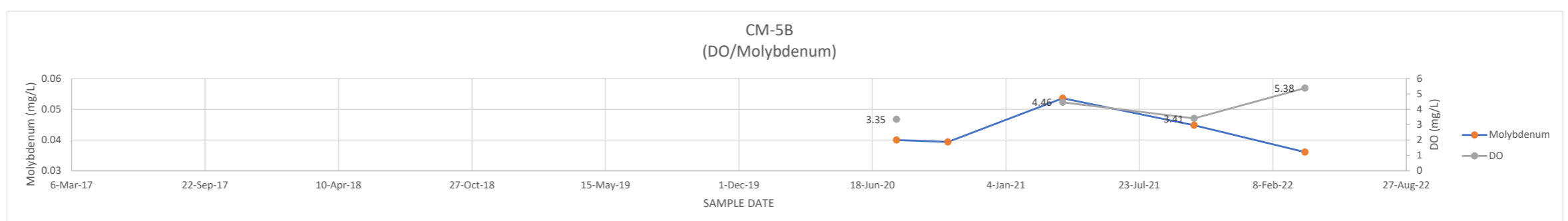
CM-4B DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2.88	0.0307
8-Oct-20		0.0306
30-Mar-21	5.52	0.0303
13-Oct-21	7.7	0.0131
28-Mar-22	2.87	0.0184



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
28-Mar-22	3.21	0.00351



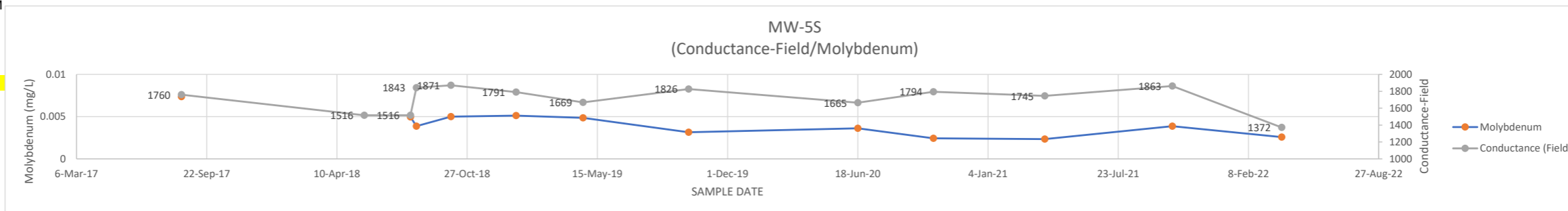
CM-5B DATE	DO	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3.35	0.04
9-Oct-20		0.0394
30-Mar-21	4.46	0.0536
13-Oct-21	3.41	0.0448
28-Mar-22	5.38	0.0361



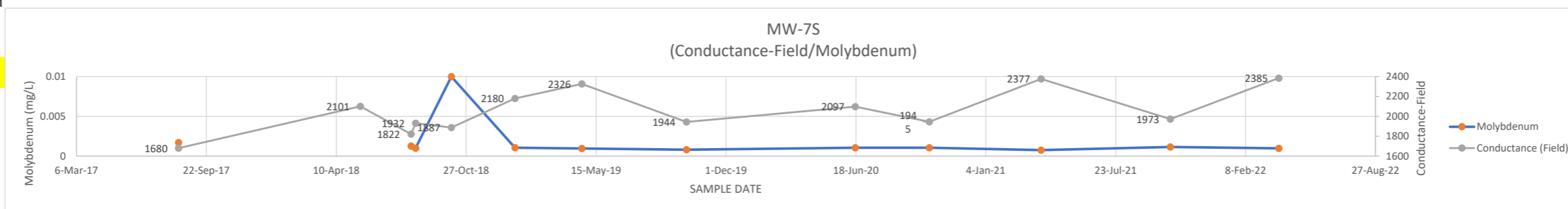
Yellow Indicates Reported Below shown value (MDL)

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

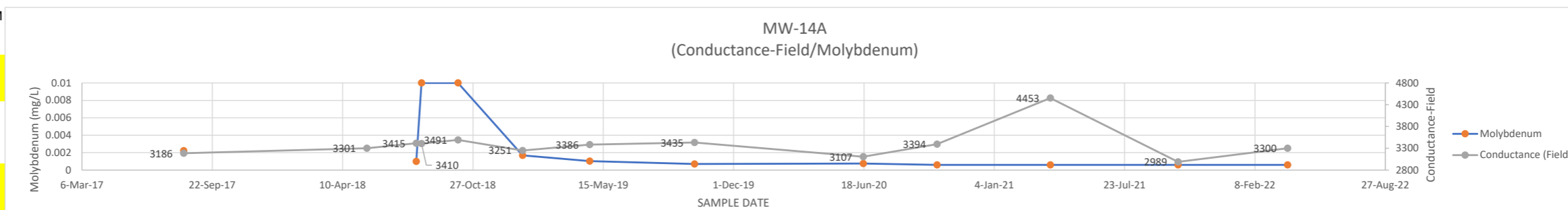
MW-5S	COND-Field	MOLYBDENUM
DATE		
14-Aug-17	1760	0.00737
22-May-18	1516	
1-Aug-18	1516	0.00497
10-Aug-18	1843	0.00387
2-Oct-18	1871	0.005
10-Jan-19	1791	0.00512
23-Apr-19	1669	0.00485
2-Oct-19	1826	0.00315
18-Jun-20	1665	0.00361
12-Oct-20	1794	0.00244
1-Apr-21	1745	0.00234
14-Oct-21	1863	0.00387
31-Mar-22	1372	0.00257



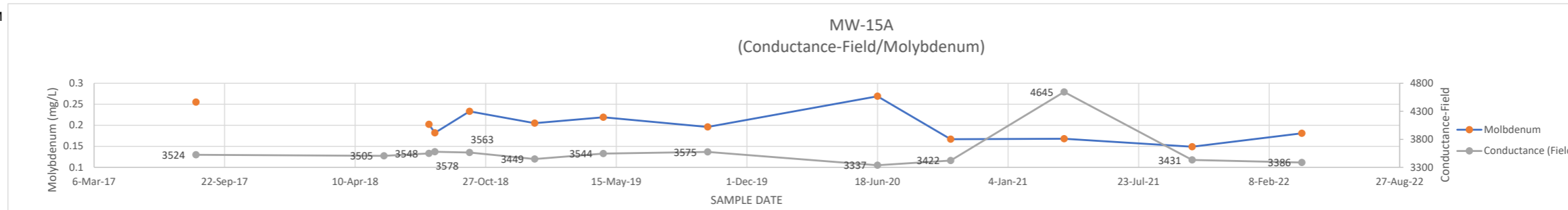
MW-7S	COND-Field	MOLYBDENUM
DATE		
10-Aug-17	1680	0.00171
17-May-18	2101	
3-Aug-18	1822	0.00127
10-Aug-18	1932	0.001
4-Oct-18	1887	0.01
10-Jan-19	2180	0.00105
23-Apr-19	2326	0.000952
1-Oct-19	1944	0.000798
17-Jun-20	2097	0.00105
9-Oct-20	1945	0.00106
30-Mar-21	2377	0.000755
15-Oct-21	1973	0.00115
31-Mar-22	2385	0.000973



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
30-Mar-22	3300	0.0006

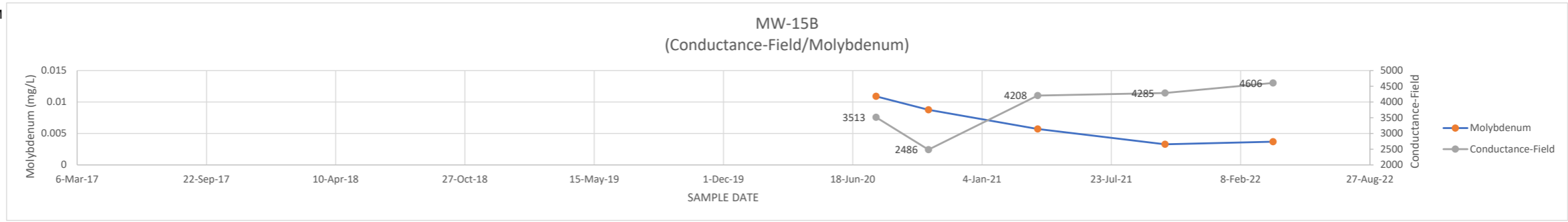


MW-15A	COND-Field	MOLYBDENUM
DATE		
9-Aug-17	3524	0.255
24-May-18	3505	
1-Aug-18	3548	0.202
10-Aug-18	3578	0.182
2-Oct-18	3563	0.233
10-Jan-19	3449	0.205
25-Apr-19	3544	0.219
2-Oct-19	3575	0.196
18-Jun-20	3337	0.269
8-Oct-20	3422	0.167
31-Mar-21	4645	0.168
13-Oct-21	3431	0.149
30-Mar-22	3386	0.181

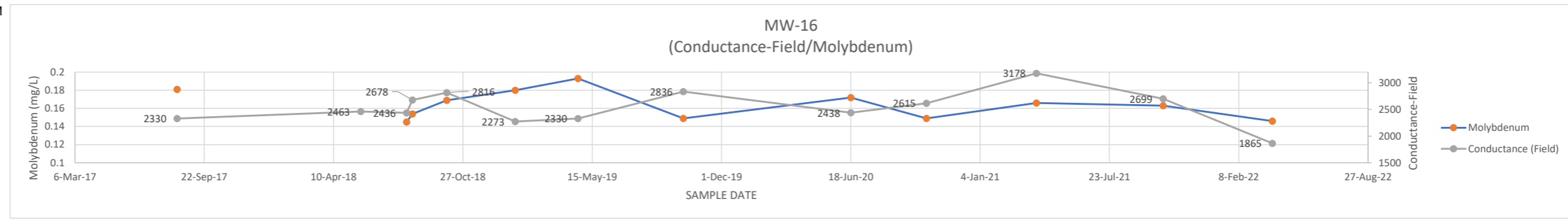


ATTACHMENT G-3
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

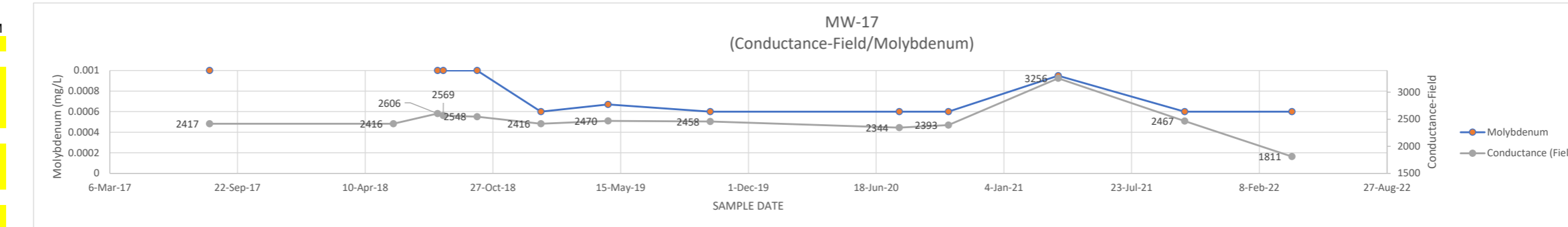
MW-15B	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3513	0.0109
13-Oct-20	2486	0.00876
31-Mar-21	4208	0.00571
14-Oct-21	4285	0.00328
30-Mar-22	4606	0.0037



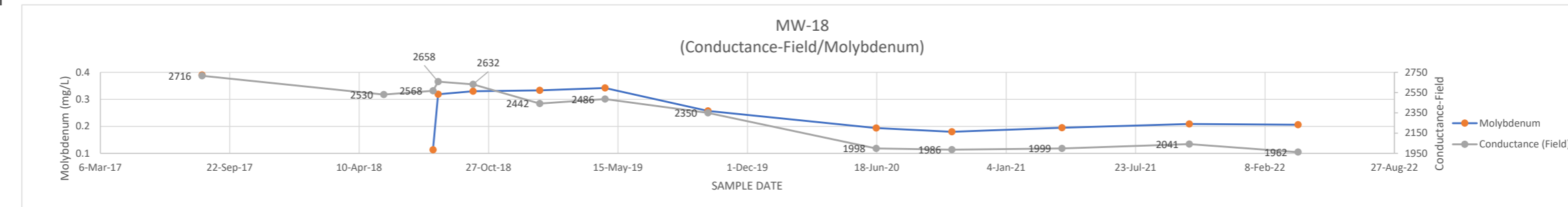
MW-16	COND-Field	MOLYBDENUM
DATE		
11-Aug-17	2330	0.181
22-May-18	2463	
1-Aug-18	2436	0.145
10-Aug-18	2678	0.154
2-Oct-18	2816	0.169
16-Jan-19	2273	0.18
23-Apr-19	2330	0.193
3-Oct-19	2836	0.149
18-Jun-20	2438	0.172
13-Oct-20	2615	0.149
1-Apr-21	3178	0.166
14-Oct-21	2699	0.163
1-Apr-22	1865	0.146



MW-17	COND-Field	MOLYBDENUM
DATE		
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
31-Mar-22	1811	0.0006

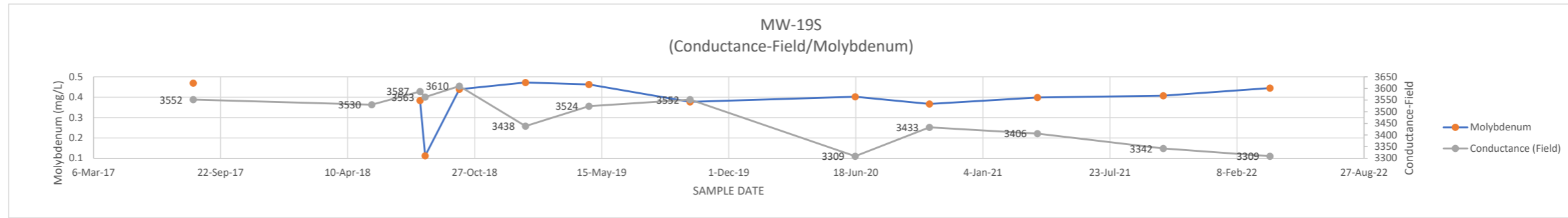


MW-18	COND-Field	MOLYBDENUM
DATE		
10-Aug-17	2716	0.39
18-May-18	2530	
2-Aug-18	2568	0.113
10-Aug-18	2658	0.319
3-Oct-18	2632	0.33
14-Jan-19	2442	0.333
25-Apr-19	2486	0.342
1-Oct-19	2350	0.257
17-Jun-20	1998	0.194
12-Oct-20	1986	0.18
31-Mar-21	1999	0.195
14-Oct-21	2041	0.209
31-Mar-22	1962	0.206

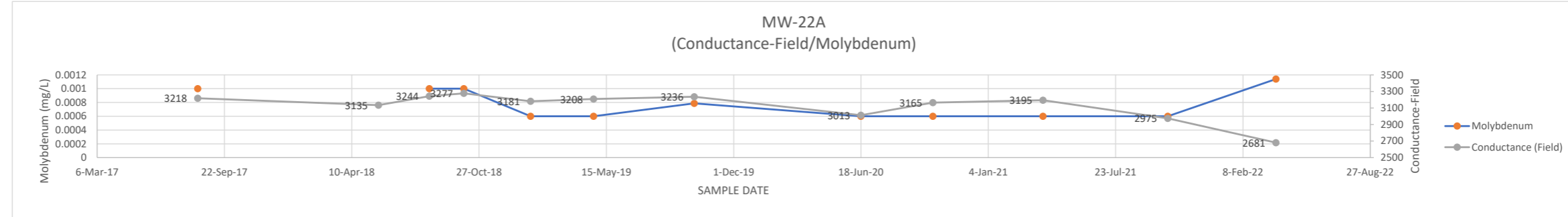


ATTACHMENT G-3
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

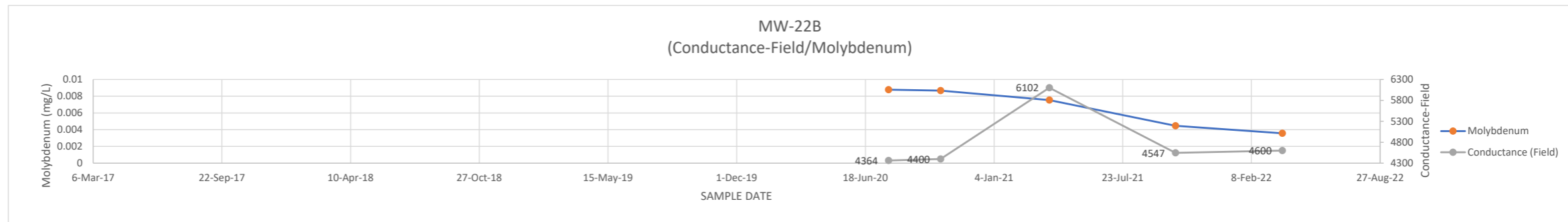
MW-19S DATE	COND-Field	MOLYBDENUM
10-Aug-17	3552	0.469
18-May-18	3530	
2-Aug-18	3587	0.384
10-Aug-18	3563	0.112
3-Oct-18	3610	0.439
15-Jan-19	3438	0.472
25-Apr-19	3524	0.462
1-Oct-19	3552	0.377
17-Jun-20	3309	0.402
12-Oct-20	3433	0.367
31-Mar-21	3406	0.398
15-Oct-21	3342	0.407
1-Apr-22	3309	0.445



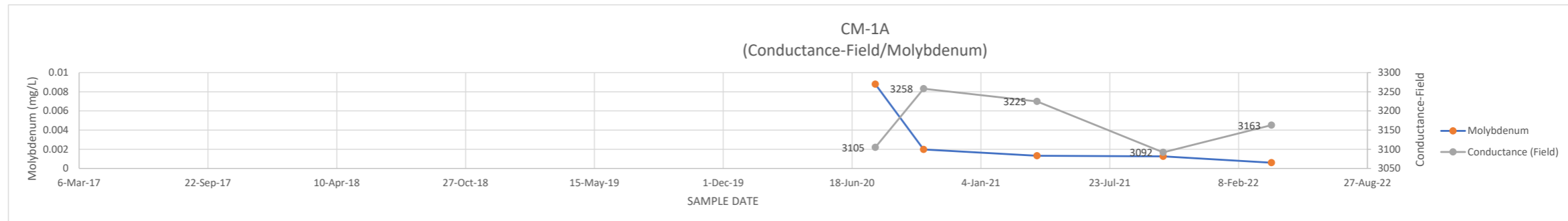
MW-22A DATE	COND-Field	MOLYBDENUM
11-Aug-17	3218	0.001
22-May-18	3135	
10-Aug-18	3244	0.001
3-Oct-18	3277	0.001
16-Jan-19	3181	0.0006
25-Apr-19	3208	0.0006
30-Sep-19	3236	0.000787
18-Jun-20	3013	0.0006
9-Oct-20	3165	0.0006
31-Mar-21	3195	0.0006
13-Oct-21	2975	0.0006
1-Apr-22	2681	0.00114



MW-22B 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	4364	0.00878
13-Oct-20	4400	0.00866
31-Mar-21	6102	0.00753
13-Oct-21	4547	0.00446
28-Mar-22	4600	0.00357

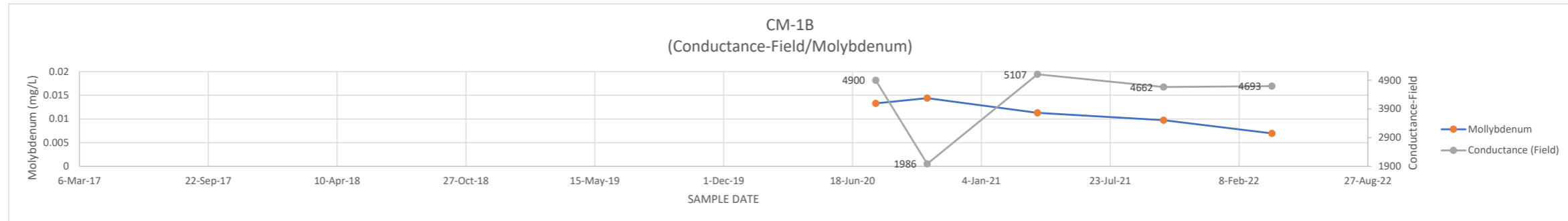


CM-1A DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3105	0.0088
7-Oct-20	3258	0.00198
1-Apr-21	3225	0.00132
14-Oct-21	3092	0.00127
31-Mar-22	3163	0.0006

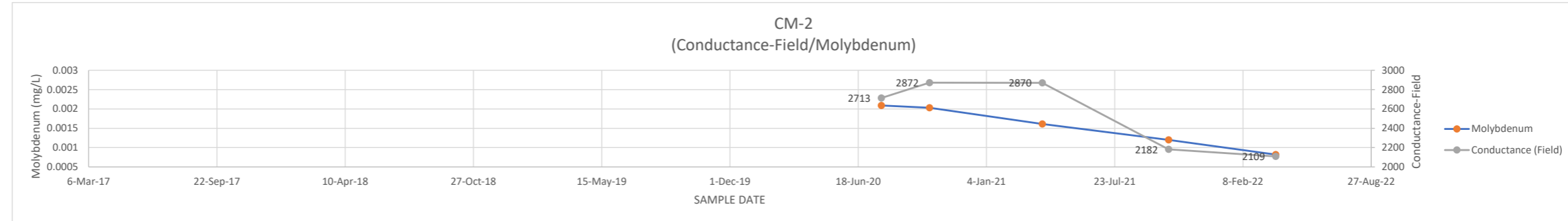


ATTACHMENT G-3
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

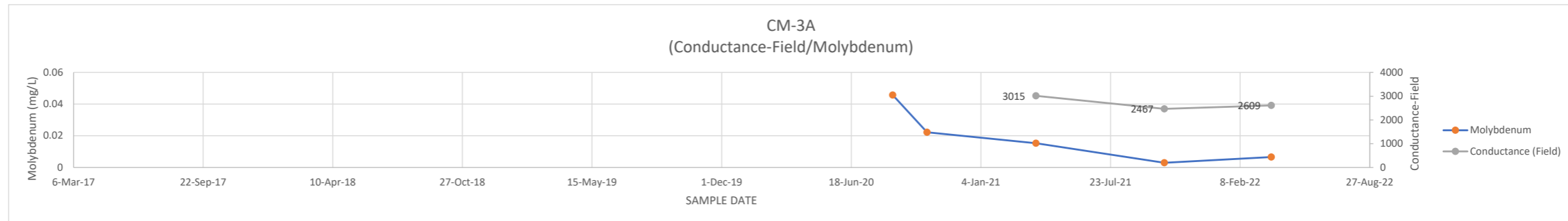
CM-1B DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4900	0.0133
12-Oct-20	1986	0.0144
1-Apr-21	5107	0.0113
14-Oct-21	4662	0.00976
31-Mar-22	4693	0.00696



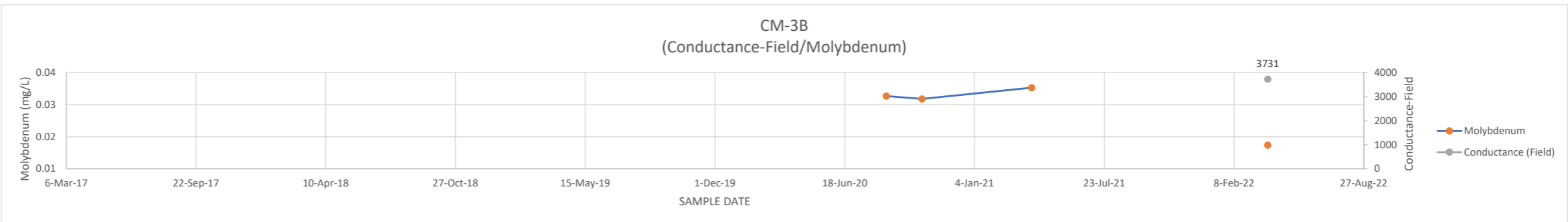
CM-2 DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2713	0.00209
7-Oct-20	2872	0.00203
1-Apr-21	2870	0.00161
15-Oct-21	2182	0.0012
31-Mar-22	2109	0.00082



CM-3A 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		
21-Aug-20		0.0457
13-Oct-20		0.0222
30-Mar-21	3015	0.0153
14-Oct-21	2467	0.00297
28-Mar-22	2609	0.00656

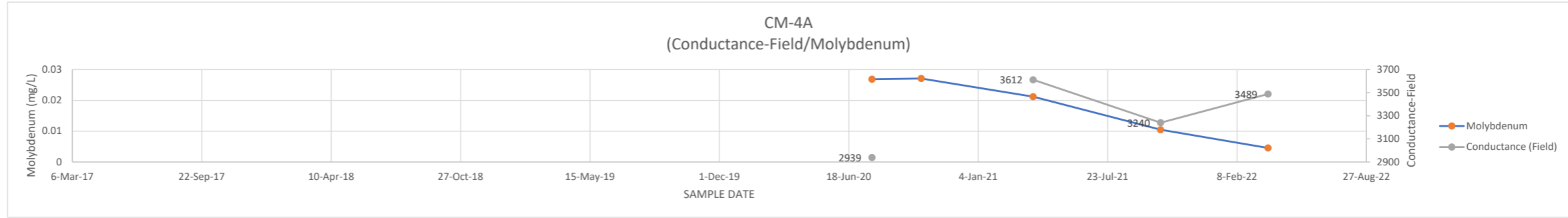


CM-3B DATE	COND-Field	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22	3731	0.0174

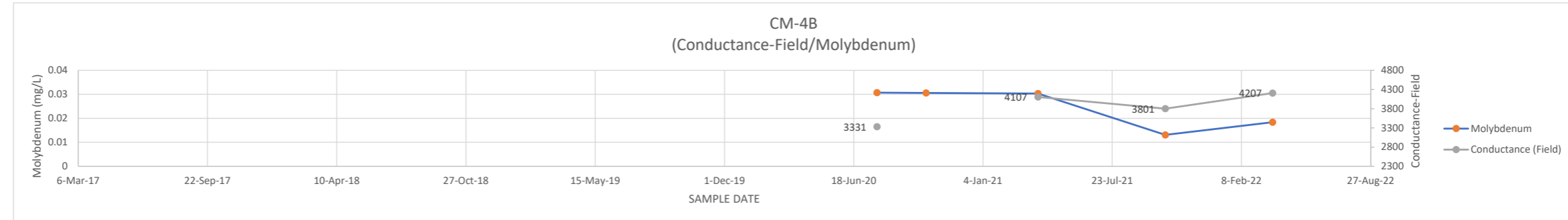


ATTACHMENT G-3
CHANGES IN CONDUCTANCE (FIELD) AND MOLYBDENUM CONCENTRATIONS

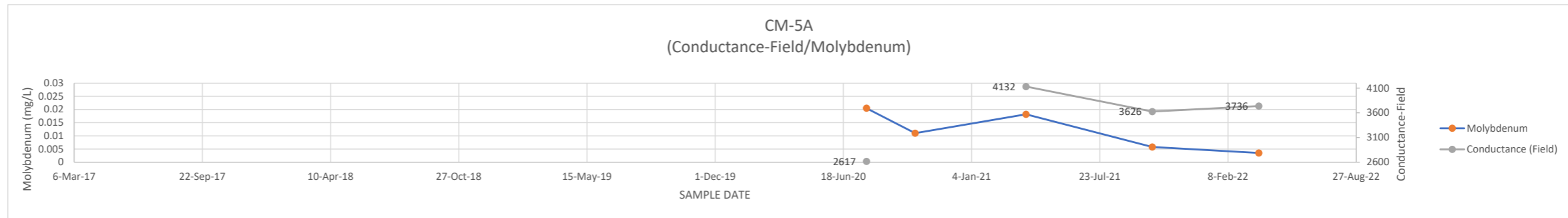
CM-4A	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	2939	0.0269
8-Oct-20		0.0271
30-Mar-21	3612	0.0212
13-Oct-21	3240	0.0105
28-Mar-22	3489	0.00455



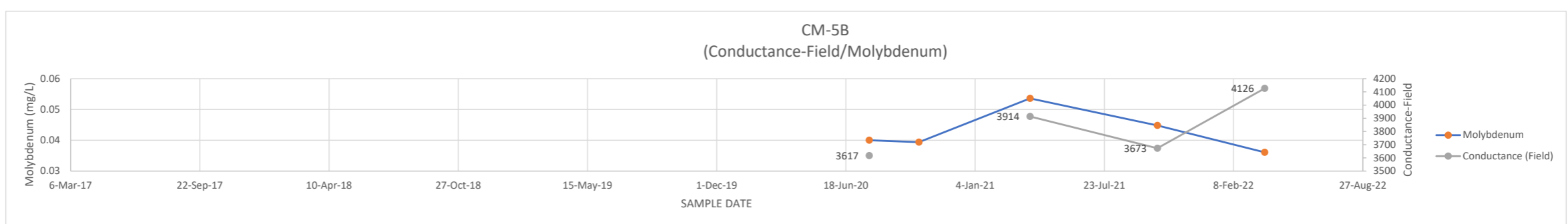
CM-4B	COND-Field	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	3331	0.0307
8-Oct-20		0.0306
30-Mar-21	4107	0.0303
13-Oct-21	3801	0.0131
28-Mar-22	4207	0.0184



CM-5A	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	2617	0.0205
8-Oct-20		0.011
30-Mar-21	4132	0.0182
13-Oct-21	3626	0.0058
28-Mar-22	3736	0.00351



CM-5B	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	3617	0.04
9-Oct-20		0.0394
30-Mar-21	3914	0.0536
13-Oct-21	3673	0.0448
28-Mar-22	4126	0.0361

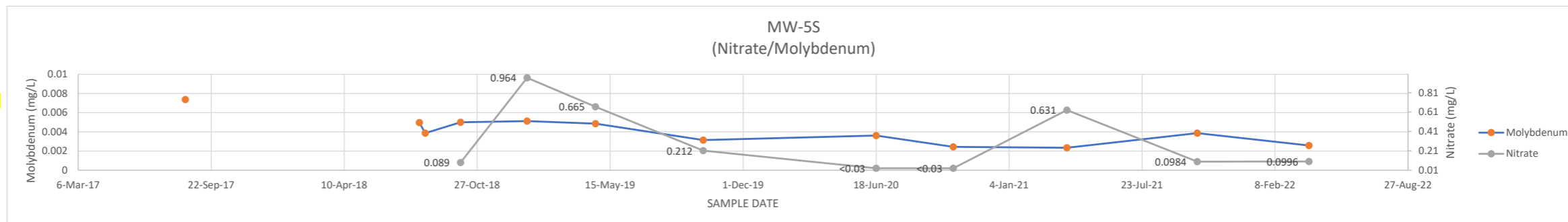


Yellow Indicates Reported Below shown value (MDL)

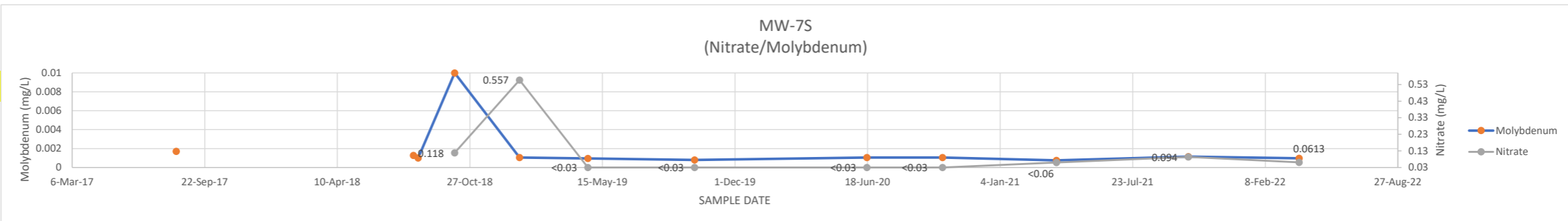
ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

MW-5S DATE	NITRATE	MOLYBDENUM
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
31-Mar-22	0.0996	0.00257

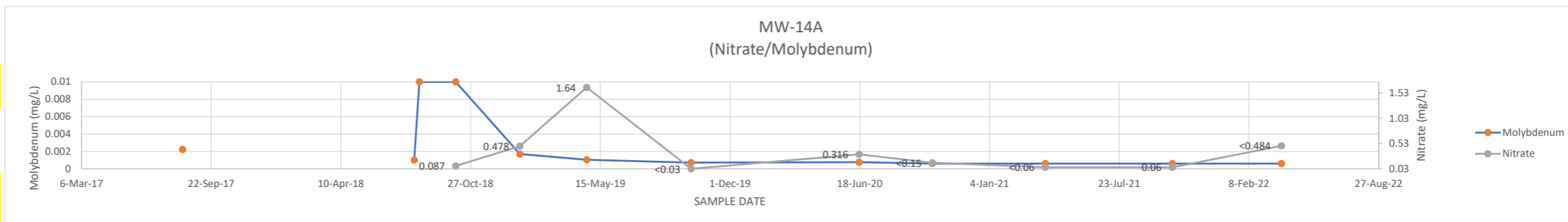
Value denoted in red from June 2022 resample



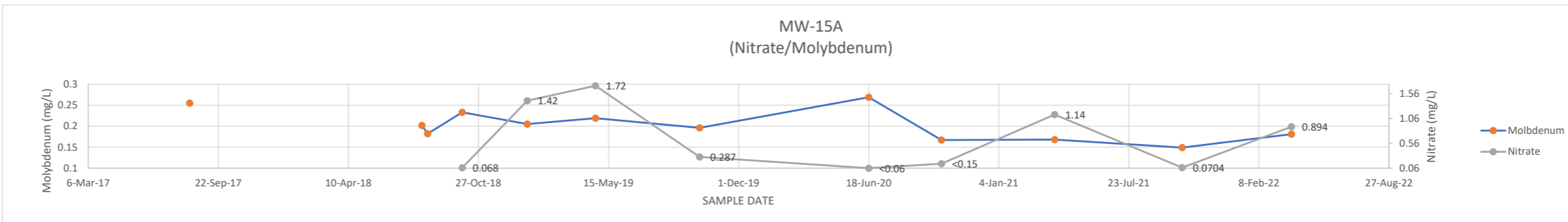
MW-7S DATE	NITRATE	MOLYBDENUM
10-Aug-17		0.00171
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18	0.118	0.01
10-Jan-19	0.557	0.00105
23-Apr-19	0.03	0.000952
1-Oct-19	0.03	0.000798
17-Jun-20	0.03	0.00105
9-Oct-20	0.03	0.00106
30-Mar-21	0.06	0.000755
15-Oct-21	0.094	0.00115
31-Mar-22	0.0613	0.000973



MW-14A DATE	NITRATE	MOLYBDENUM
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
30-Mar-22	0.484	0.0006

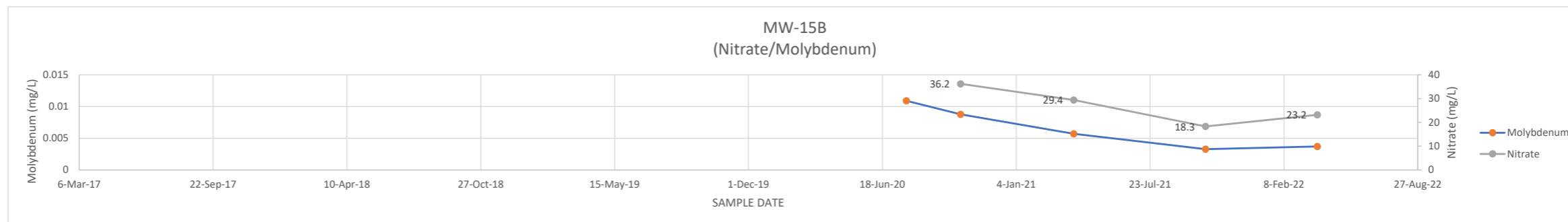


MW-15A DATE	NITRATE	MOLYBDENUM
9-Aug-17		0.255
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18	0.068	0.233
10-Jan-19	1.42	0.205
25-Apr-19	1.72	0.219
2-Oct-19	0.287	0.196
18-Jun-20	0.06	0.269
8-Oct-20	0.15	0.167
31-Mar-21	1.14	0.168
13-Oct-21	0.0704	0.149
30-Mar-22	0.894	0.181

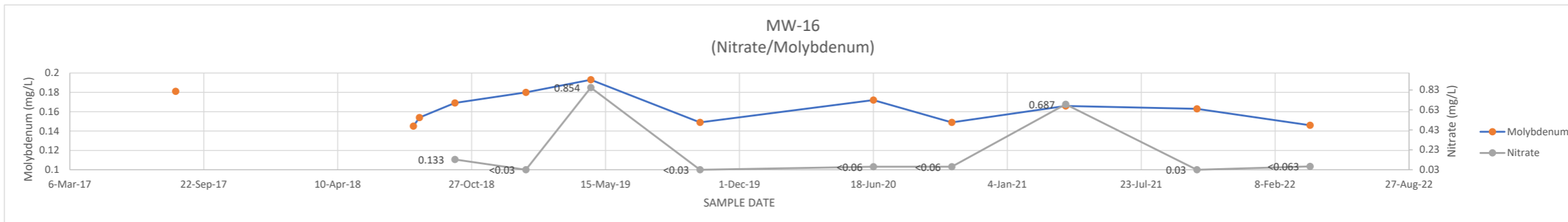


ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

MW-15B	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			0.0109
13-Oct-20	36.2	0.00876	
31-Mar-21	29.4	0.00571	
14-Oct-21	18.3	0.00328	
30-Mar-22	23.2	0.0037	

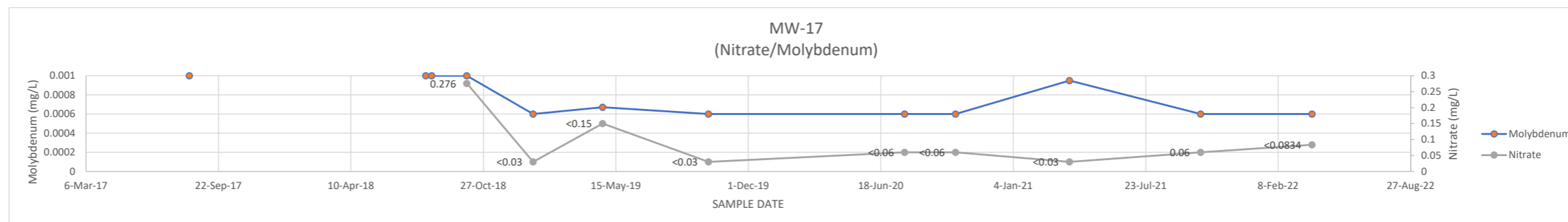


MW-16	DATE	NITRATE	MOLYBDENUM
11-Aug-17			0.181
22-May-18			
1-Aug-18			0.145
10-Aug-18			0.154
2-Oct-18	0.133	0.169	
16-Jan-19	0.03	0.18	
23-Apr-19	0.854	0.193	
3-Oct-19	0.03	0.149	
18-Jun-20	0.06	0.172	
13-Oct-20	0.06	0.149	
1-Apr-21	0.687	0.166	
14-Oct-21	0.03	0.163	
1-Apr-22	0.063	0.146	



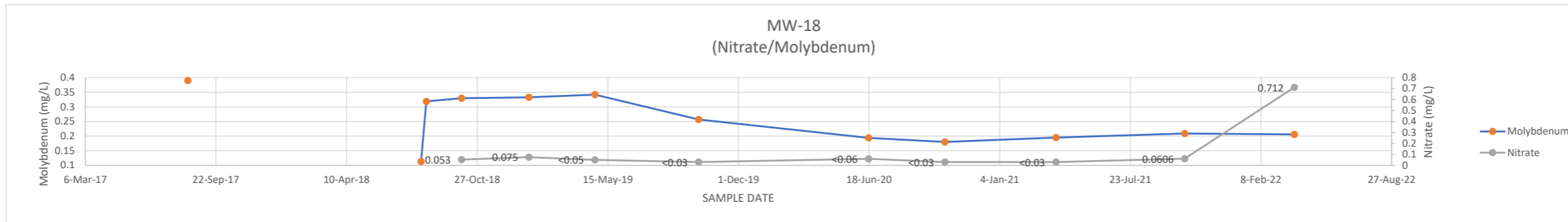
Value denoted in red from June 2022 resample

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	
31-Mar-22	0.0834	0.0006	



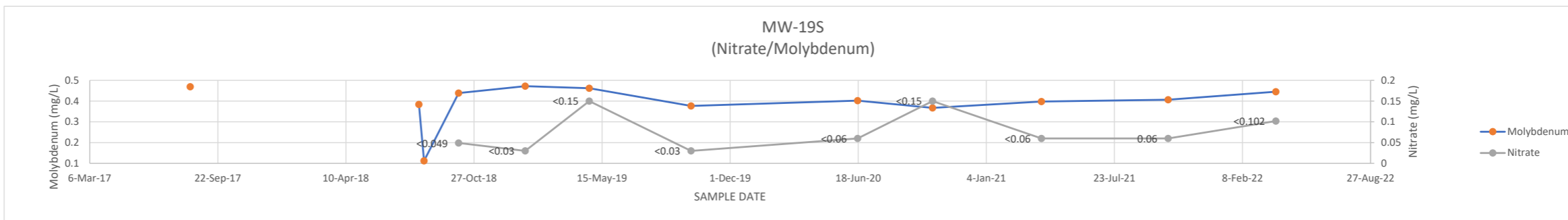
Value denoted in red from June 2022 resample

MW-18	DATE	NITRATE	MOLYBDENUM
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	
31-Mar-22	0.712	0.206	

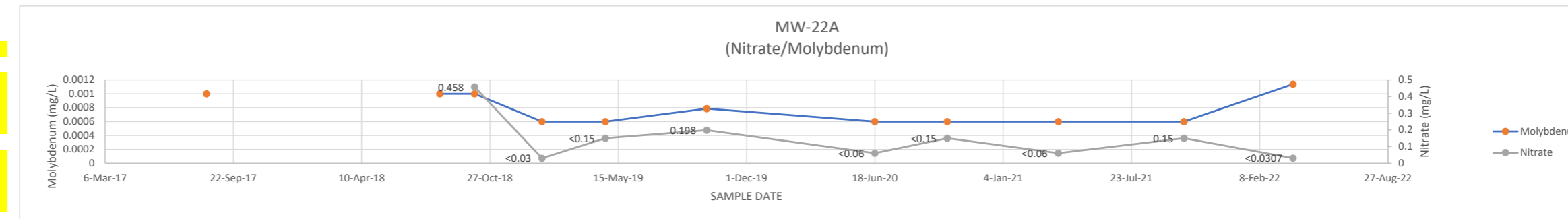


ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

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
1-Apr-22	0.102	0.445

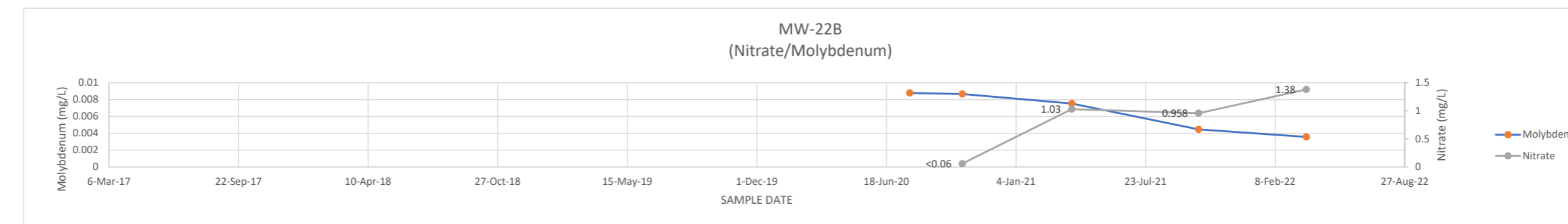


MW-22A	NITRATE	MOLYBDENUM
DATE		
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18	0.458	0.001
16-Jan-19	0.03	0.0006
25-Apr-19	0.15	0.0006
30-Sep-19	0.198	0.000787
18-Jun-20	0.06	0.0006
9-Oct-20	0.15	0.0006
31-Mar-21	0.06	0.0006
13-Oct-21	0.15	0.0006
1-Apr-22	0.0307	0.00114

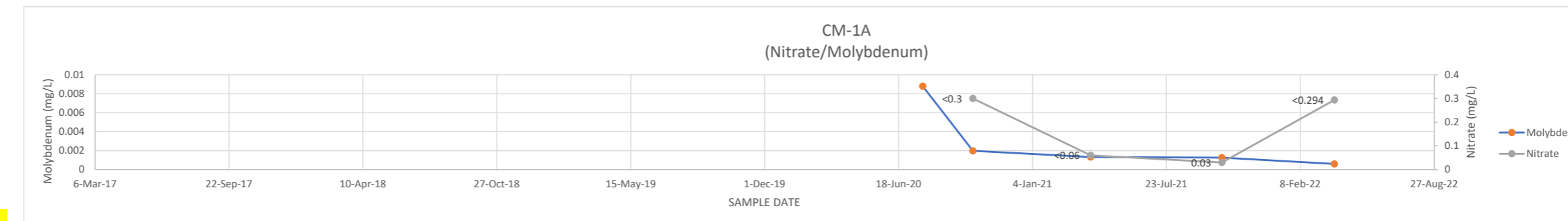


Value denoted in red from June 2022 resample

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
28-Mar-22	1.38	0.00357

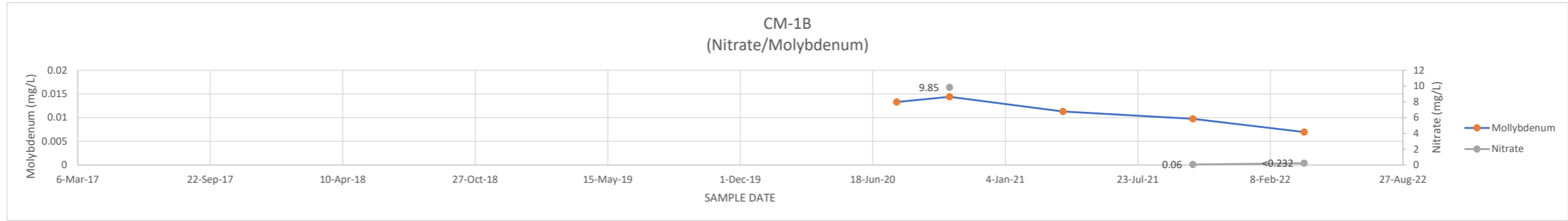


CM-1A	NITRATE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0088
7-Oct-20	0.3	0.00198
1-Apr-21	0.06	0.00132
14-Oct-21	0.03	0.00127
31-Mar-22	0.294	0.0006

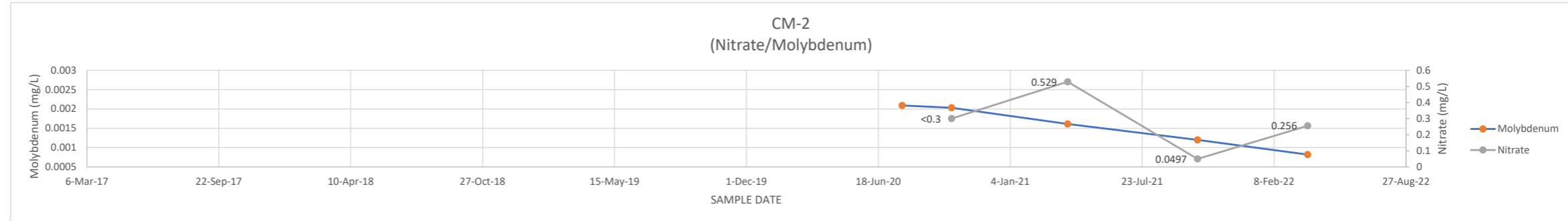


ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

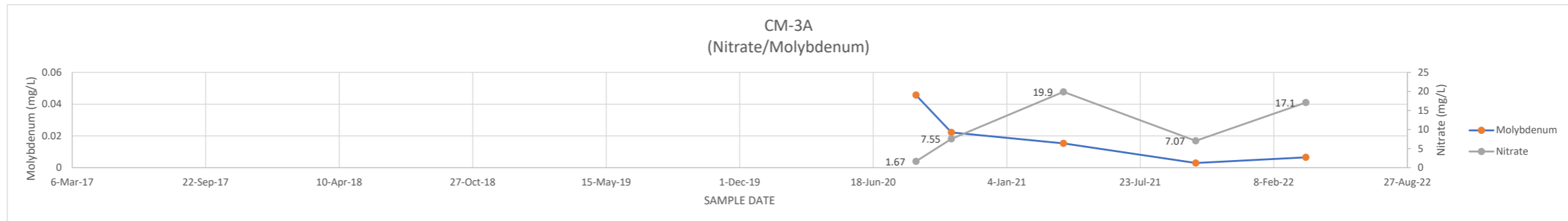
CM-1B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0133
12-Oct-20	9.85	0.0144
1-Apr-21		0.0113
14-Oct-21	0.06	0.00976
31-Mar-22	0.232	0.00696



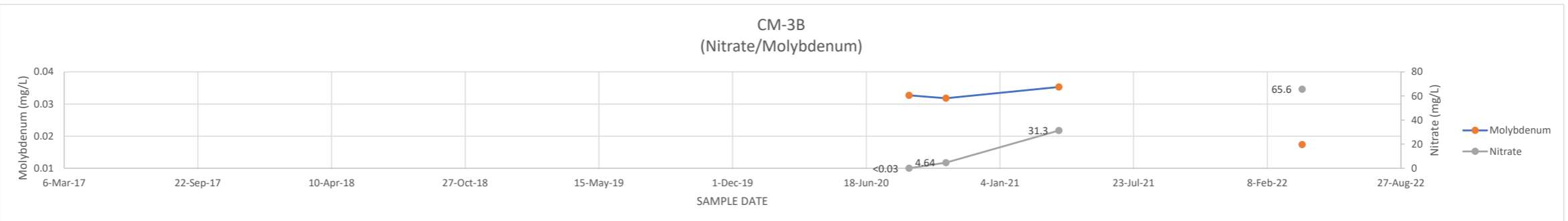
CM-2 DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00209
7-Oct-20	0.3	0.00203
1-Apr-21	0.529	0.00161
15-Oct-21	0.0497	0.0012
31-Mar-22	0.256	0.00082



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
28-Mar-22	17.1	0.00656

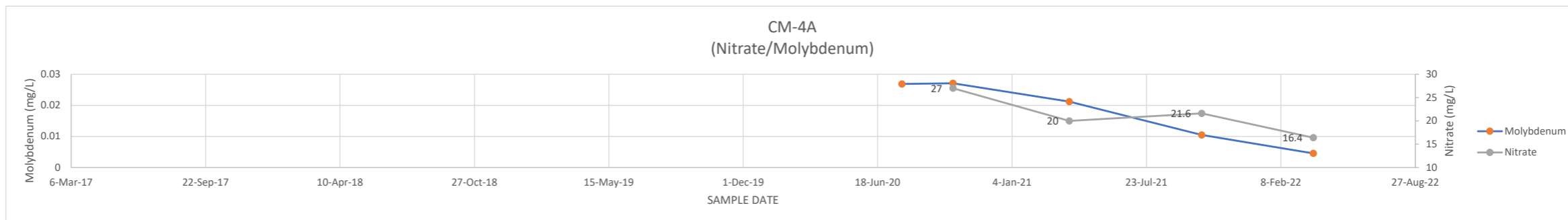


CM-3B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	0.03	0.0327
15-Oct-20	4.64	0.0318
2-Apr-21	31.3	0.0353
11-Oct-21		
1-Apr-22	65.6	0.0174

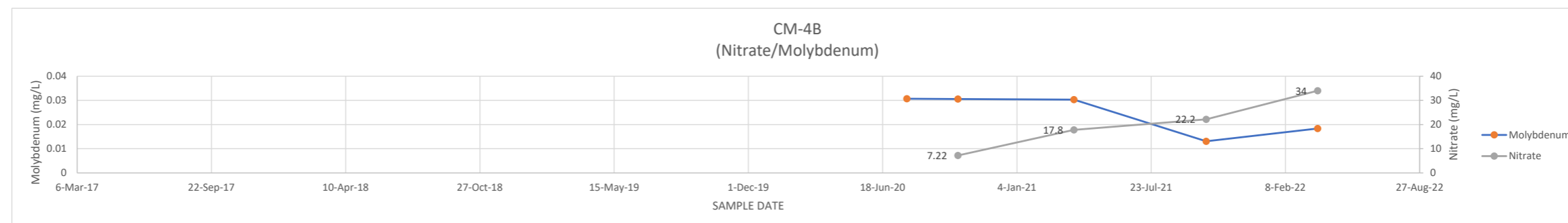


ATTACHMENT G-4
CHANGES IN NITRATE AND MOLYBDENUM CONCENTRATIONS

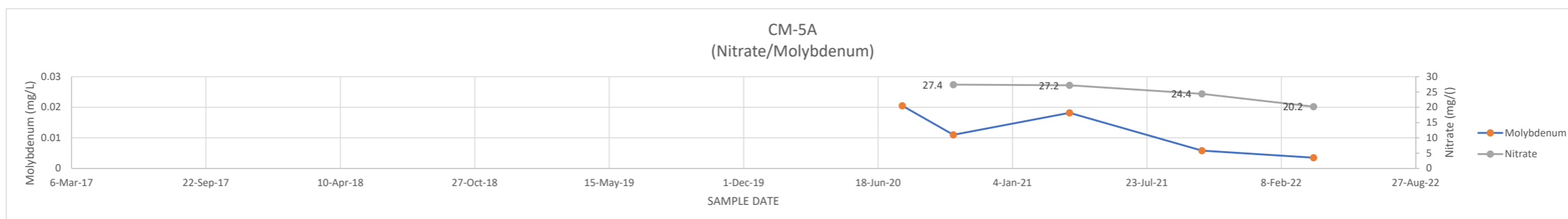
CM-4A DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0269
8-Oct-20	27	0.0271
30-Mar-21	20	0.0212
13-Oct-21	21.6	0.0105
28-Mar-22	16.4	0.00455



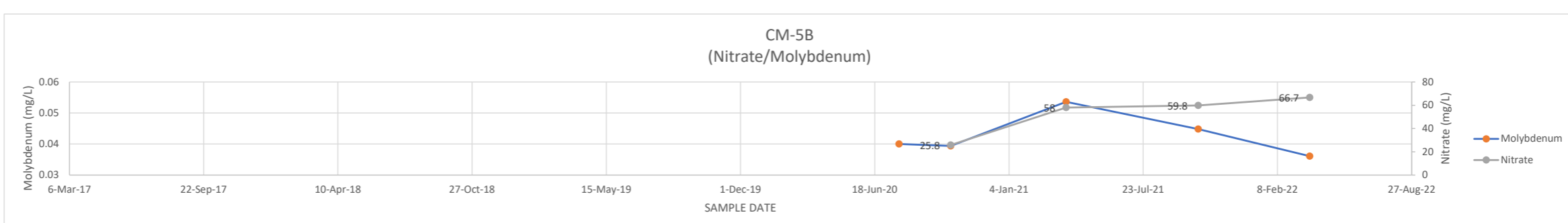
CM-4B DATE	NITRATE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0307
8-Oct-20	7.22	0.0306
30-Mar-21	17.8	0.0303
13-Oct-21	22.2	0.0131
28-Mar-22	34	0.0184



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
28-Mar-22	20.2	0.00351



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
28-Mar-22	66.7	0.0361

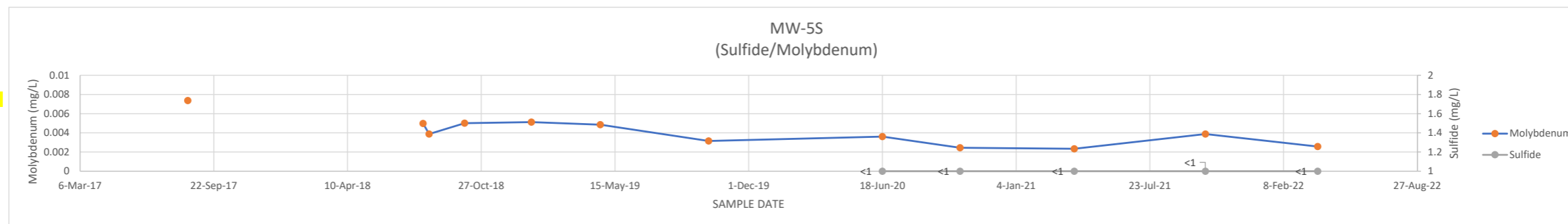


Yellow Indicates Reported Below shown value (MDL)

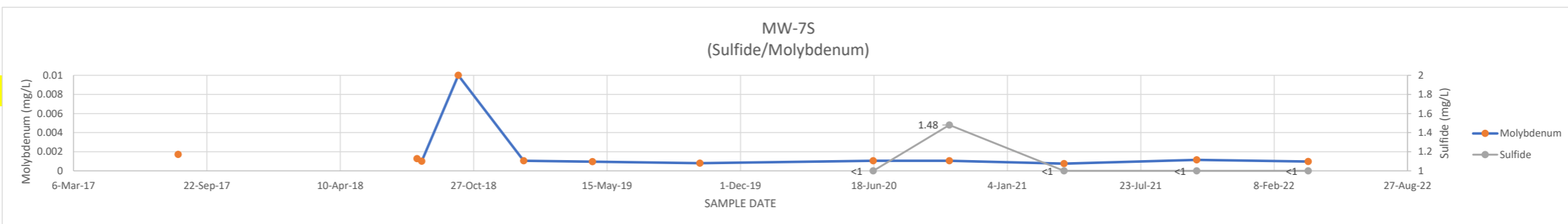
ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

MW-5S	DATE	SULFIDE	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	1	0.00361
	12-Oct-20	1	0.00244
	1-Apr-21	1	0.00234
	14-Oct-21	1	0.00387
	31-Mar-22	1	0.00257

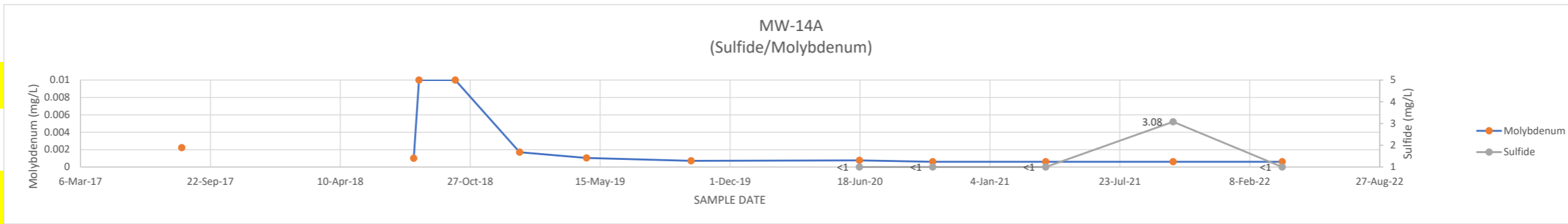
Value denoted in red from June 2022 resample



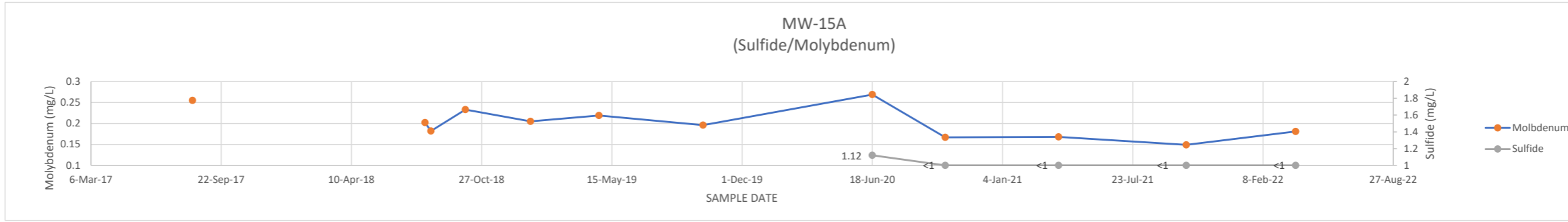
MW-7S	DATE	SULFIDE	MOLYBDENUM
	10-Aug-17		0.00171
	17-May-18		
	3-Aug-18		0.00127
	10-Aug-18		0.001
	4-Oct-18		0.01
	10-Jan-19		0.00105
	23-Apr-19		0.000952
	1-Oct-19		0.000798
	17-Jun-20	1	0.00105
	9-Oct-20	1.48	0.00106
	30-Mar-21	1	0.000755
	15-Oct-21	1	0.00115
	31-Mar-22	1	0.000973



MW-14A	DATE	SULFIDE	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	1	0.00076
	8-Oct-20	1	0.0006
	31-Mar-21	1	0.0006
	13-Oct-21	3.08	0.0006
	30-Mar-22	1	0.0006

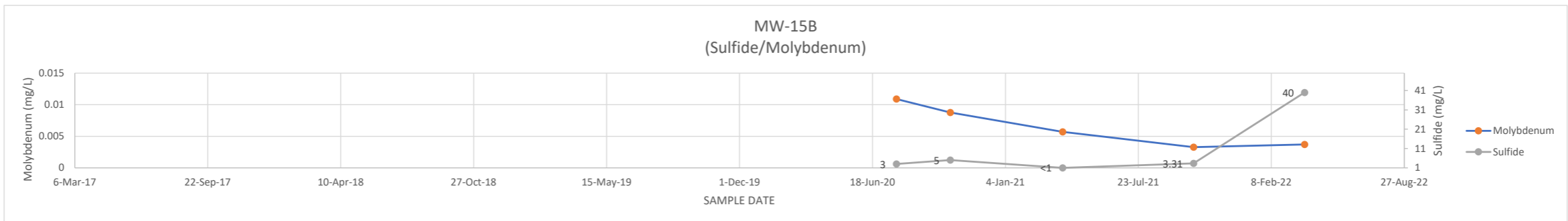


MW-15A	DATE	SULFIDE	MOLYBDENUM
	9-Aug-17		0.255
	24-May-18		
	1-Aug-18		0.202
	10-Aug-18		0.182
	2-Oct-18		0.233
	10-Jan-19		0.205
	25-Apr-19		0.219
	2-Oct-19		0.196
	18-Jun-20	1.12	0.269
	8-Oct-20	1	0.167
	31-Mar-21	1	0.168
	13-Oct-21	1	0.149
	30-Mar-22	1	0.181

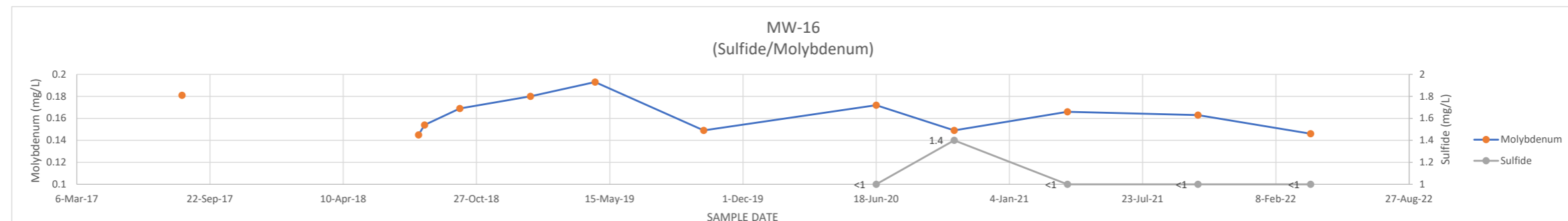


ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

MW-15B	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	3	0.0109	
13-Oct-20	5	0.00876	
31-Mar-21	1	0.00571	
14-Oct-21	3.31	0.00328	
30-Mar-22	40	0.0037	

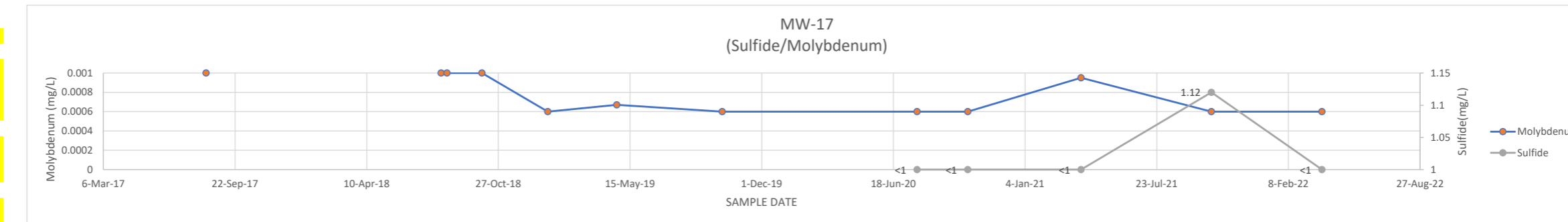


MW-16	DATE	SULFIDE	MOLYBDENUM
11-Aug-17			0.181
22-May-18			
1-Aug-18			0.145
10-Aug-18			0.154
2-Oct-18			0.169
16-Jan-19			0.18
23-Apr-19			0.193
3-Oct-19			0.149
18-Jun-20	1	0.172	
13-Oct-20	1.4	0.149	
1-Apr-21	1	0.166	
14-Oct-21	1	0.163	
1-Apr-22	1	0.146	



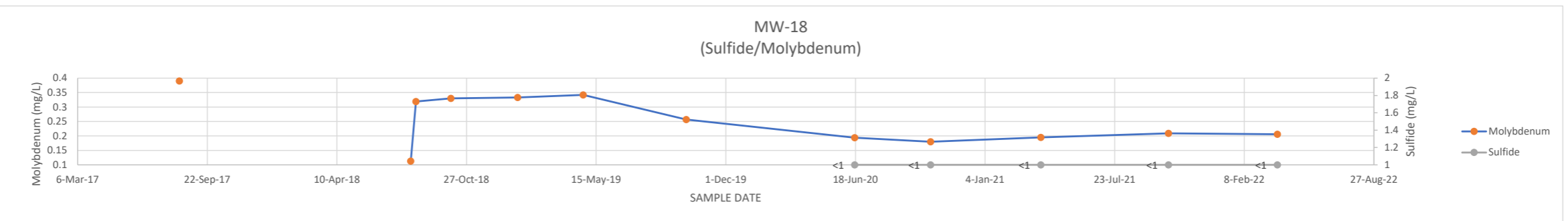
Value denoted in red from June 2022 resa

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	
31-Mar-22	1	0.0006	



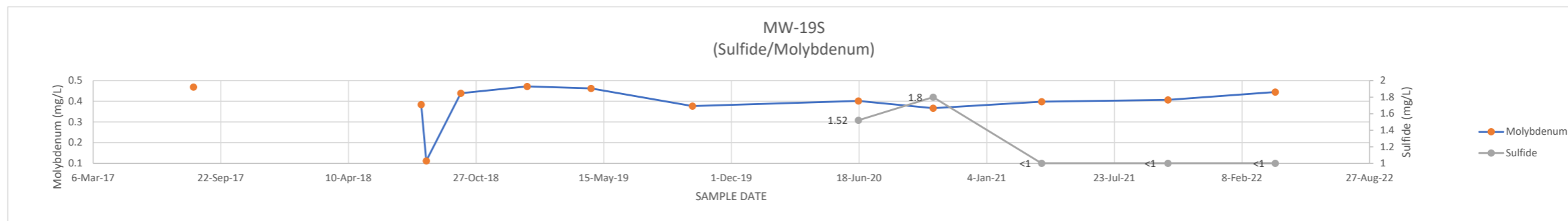
Value denoted in red from June 2022 resample

MW-18	DATE	SULFIDE	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	1	0.194	
12-Oct-20	1	0.18	
31-Mar-21	1	0.195	
14-Oct-21	1	0.209	
31-Mar-22	1	0.206	

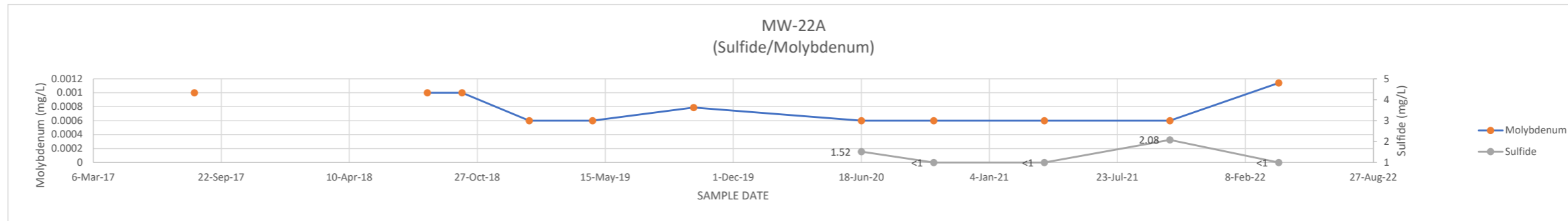


ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

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
1-Apr-22	1	0.445

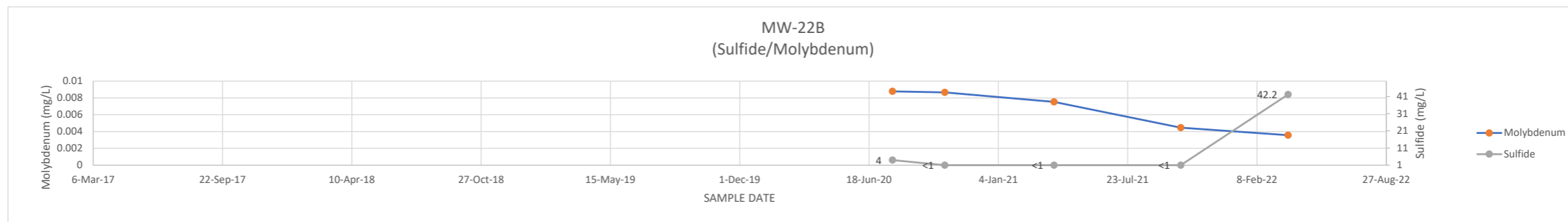


MW-22A	SULFIDE	MOLYBDENUM
DATE		
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18		0.001
16-Jan-19		0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20	1.52	0.0006
9-Oct-20	1	0.0006
31-Mar-21	1	0.0006
13-Oct-21	2.08	0.0006
1-Apr-22	1	0.00114

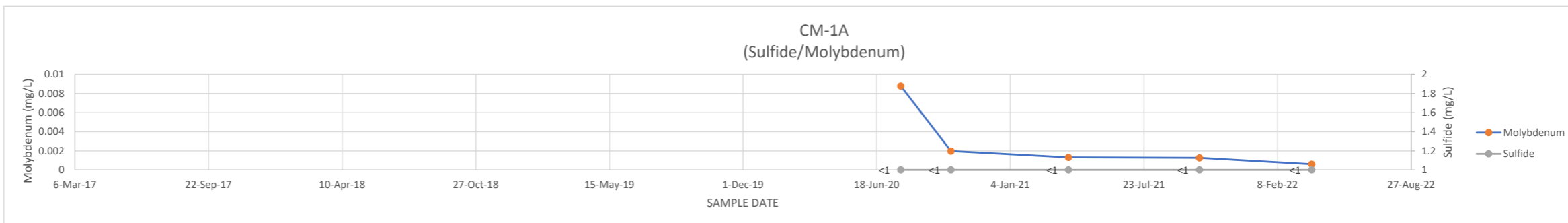


Value denoted in red from June 2022 resample

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
28-Mar-22	42.2	0.00357

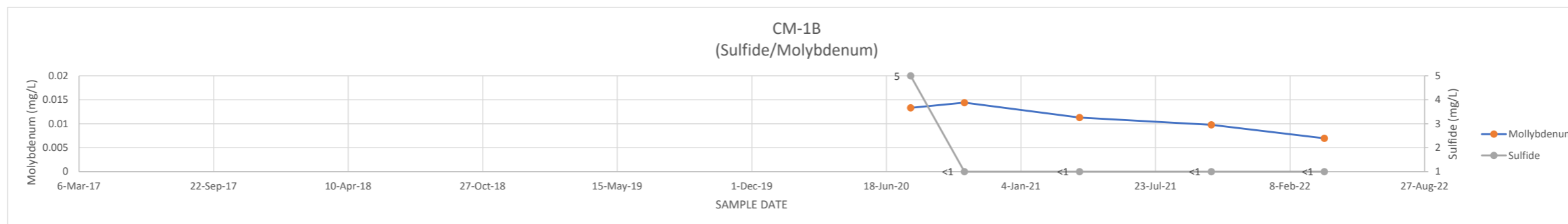


CM-1A	SULFIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1	0.0088
7-Oct-20	1	0.00198
1-Apr-21	1	0.00132
14-Oct-21	1	0.00127
31-Mar-22	1	0.0006

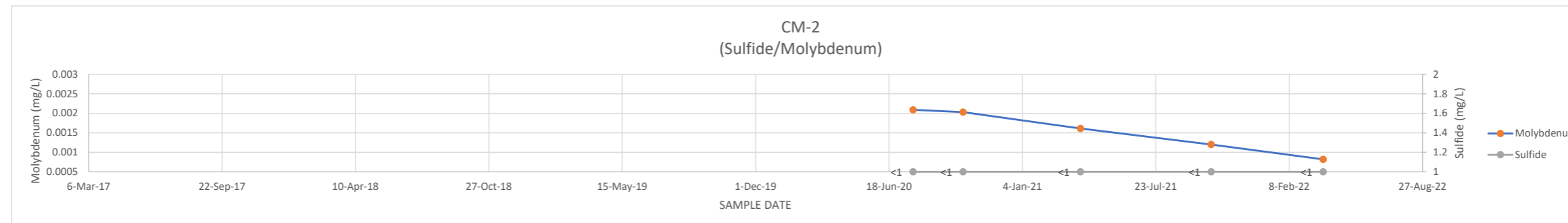


ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

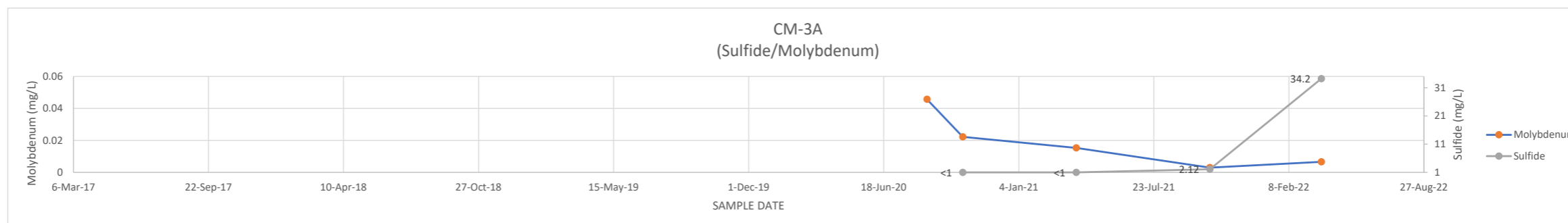
CM-1B DATE	SULFIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	5	0.0133
12-Oct-20	1	0.0144
1-Apr-21	1	0.0113
14-Oct-21	1	0.00976
31-Mar-22	1	0.00696



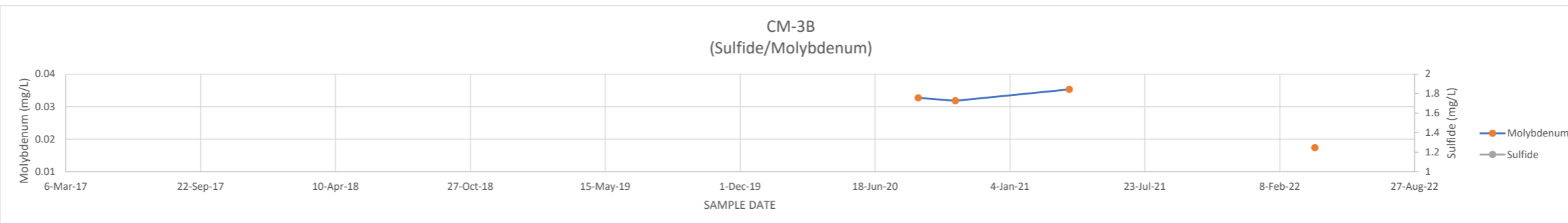
CM-2 DATE	SULFIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	1	0.00209
7-Oct-20	1	0.00203
1-Apr-21	1	0.00161
14-Oct-21	1	0.0012
31-Mar-22	1	0.00082



CM-3A 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		
21-Aug-20		0.0457
13-Oct-20	1	0.0222
30-Mar-21	1	0.0153
14-Oct-21	2.12	0.00297
28-Mar-22	34.2	0.00656

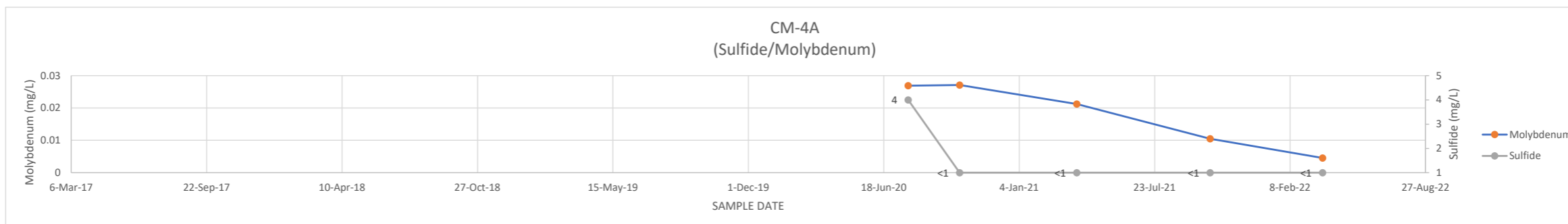


CM-3B DATE	SULFIDE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22		0.0174

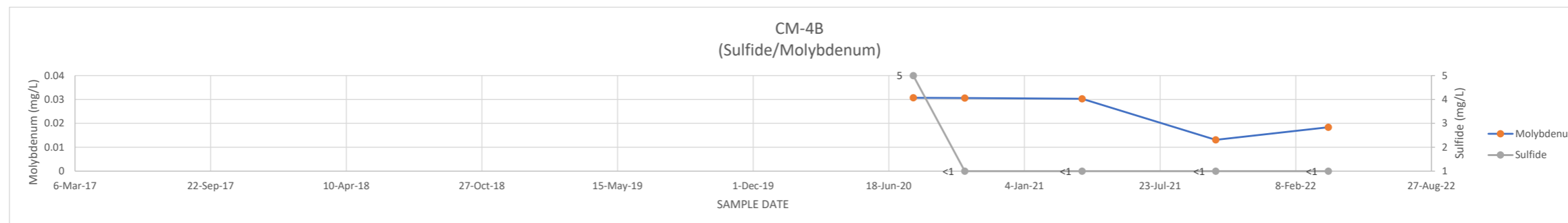


ATTACHMENT G-5
CHANGES IN SULFIDE AND MOLYBDENUM CONCENTRATIONS

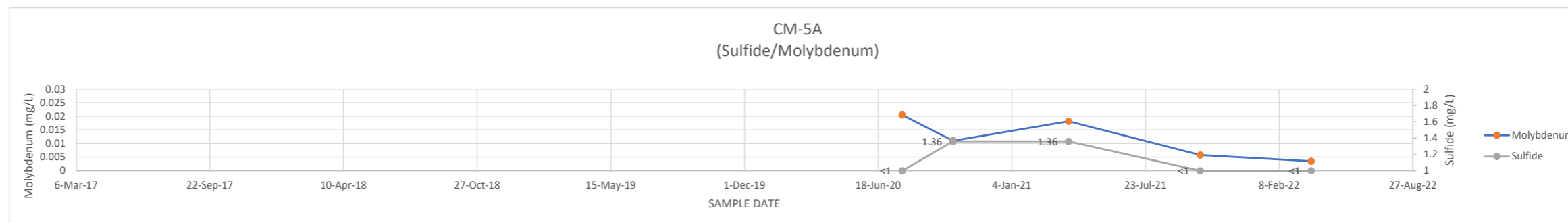
CM-4A	SULFLIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	4	0.0269
8-Oct-20	1	0.0271
30-Mar-21	1	0.0212
13-Oct-21	1	0.0105
28-Mar-22	1	0.00455



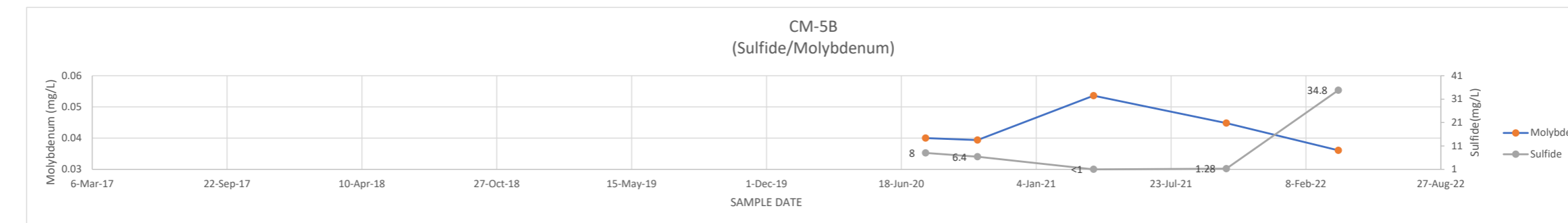
CM-4B	SULFLIDE	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	5	0.0307
8-Oct-20	1	0.0306
30-Mar-21	1	0.0303
13-Oct-21	1	0.0131
28-Mar-22	1	0.0184



CM-5A	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	0.0205
8-Oct-20	1.36	0.011
30-Mar-21	1.36	0.0182
13-Oct-21	1	0.0058
28-Mar-22	1	0.00351



CM-5B	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	8	0.04
9-Oct-20	6.4	0.0394
30-Mar-21	1	0.0536
13-Oct-21	1.28	0.0448
28-Mar-22	34.8	0.0361

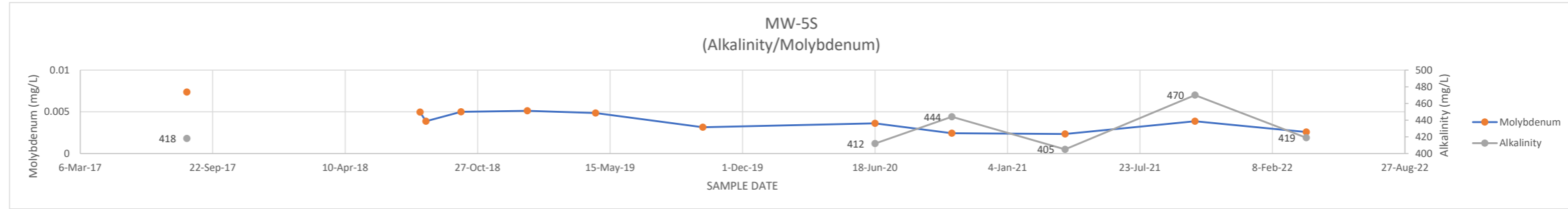


Yellow Indicates Reported Below shown value (MDL)

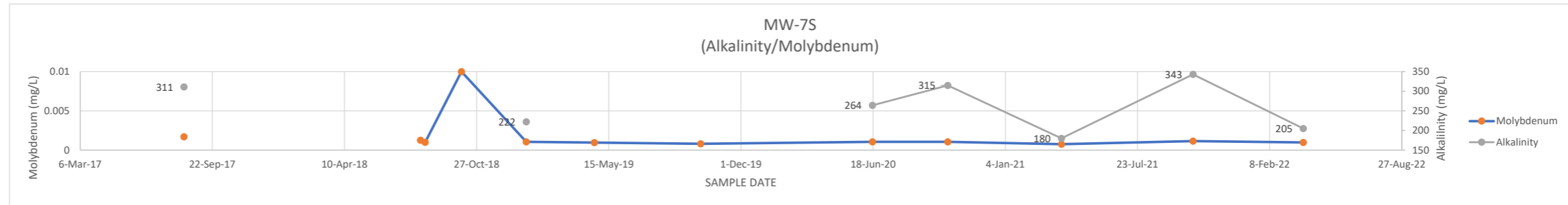
ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

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
31-Mar-22	419	0.00257

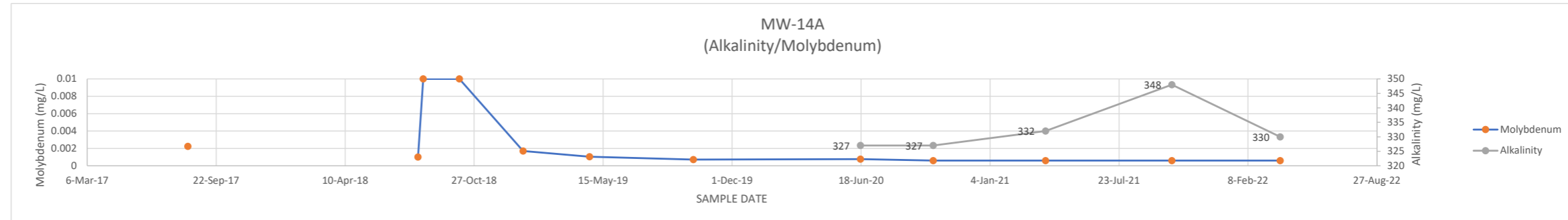
Value denoted in red from June 2022 resample



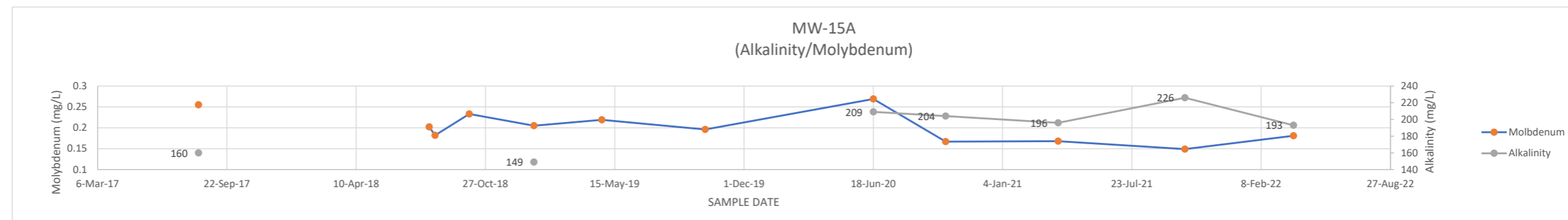
MW-7S DATE	ALKALINITY	MOLYBDENUM
10-Aug-17	311	0.00171
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18		0.01
10-Jan-19	222	0.00105
23-Apr-19		0.000952
1-Oct-19		0.000798
17-Jun-20	264	0.00105
9-Oct-20	315	0.00106
30-Mar-21	180	0.000755
15-Oct-21	343	0.00115
31-Mar-22	205	0.000973



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
30-Mar-22	330	0.0006

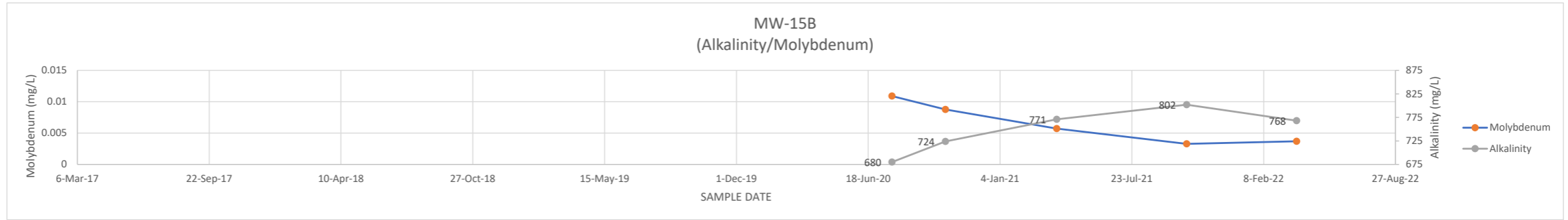


MW-15A DATE	ALKALINITY	MOLYBDENUM
9-Aug-17	160	0.255
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18		0.233
10-Jan-19	149	0.205
25-Apr-19		0.219
2-Oct-19		0.196
18-Jun-20	209	0.269
8-Oct-20	204	0.167
31-Mar-21	196	0.168
13-Oct-21	226	0.149
30-Mar-22	193	0.181

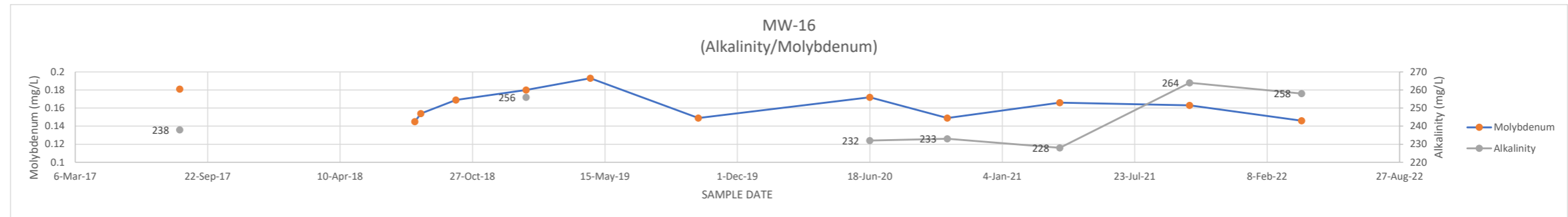


ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

MW-15B	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	680	0.0109
13-Oct-20	724	0.00876
31-Mar-21	771	0.00571
14-Oct-21	802	0.00328
30-Mar-22	768	0.0037

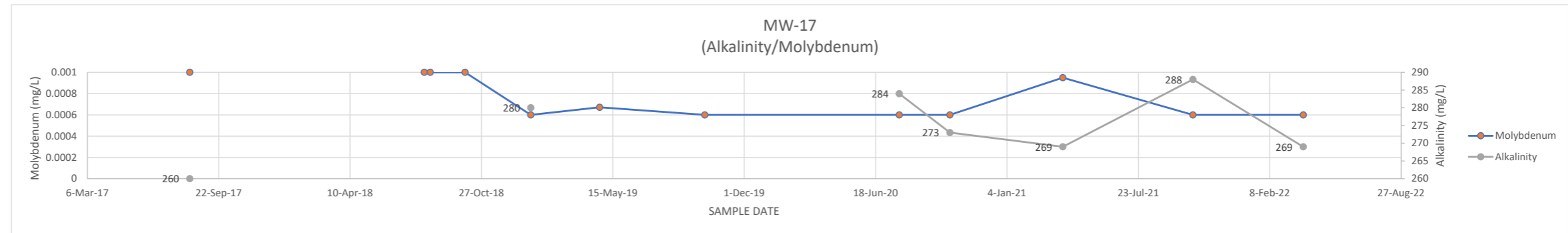


MW-16	ALKALINITY	MOLYBDENUM
DATE		
11-Aug-17	238	0.181
22-May-18		
1-Aug-18		0.145
10-Aug-18		0.154
2-Oct-18		0.169
16-Jan-19	256	0.18
23-Apr-19		0.193
3-Oct-19		0.149
18-Jun-20	232	0.172
13-Oct-20	233	0.149
1-Apr-21	228	0.166
14-Oct-21	264	0.163
1-Apr-22	258	0.146



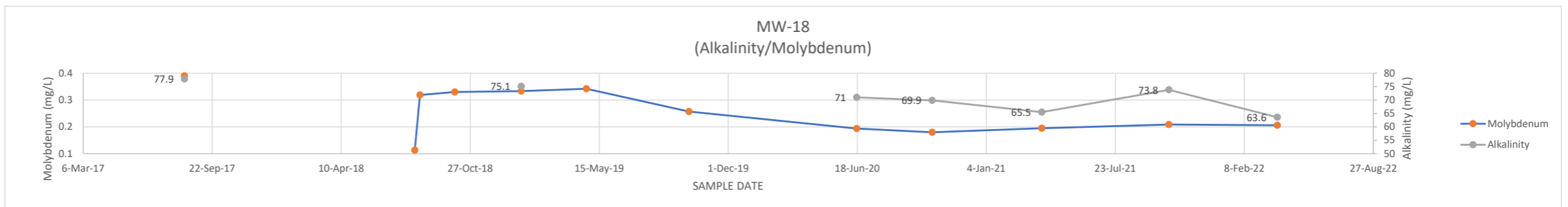
Value denoted in red from June 2022 resample

MW-17	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17	260	0.001
24-May-18		
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
31-Mar-22	269	0.0006



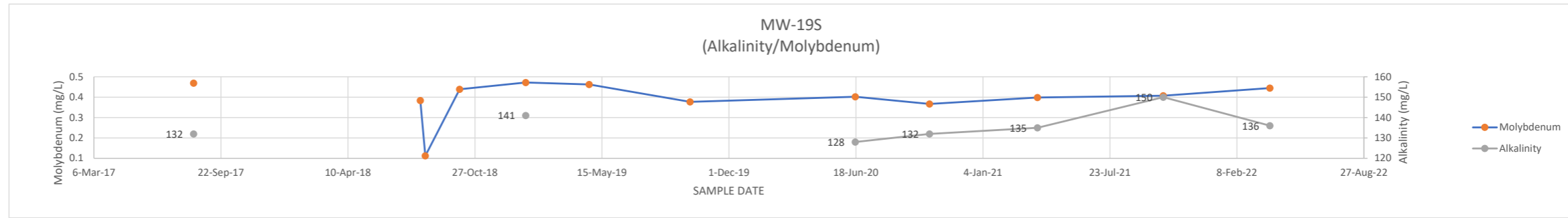
Value denoted in red from June 2022 resample

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
31-Mar-22	63.6	0.206

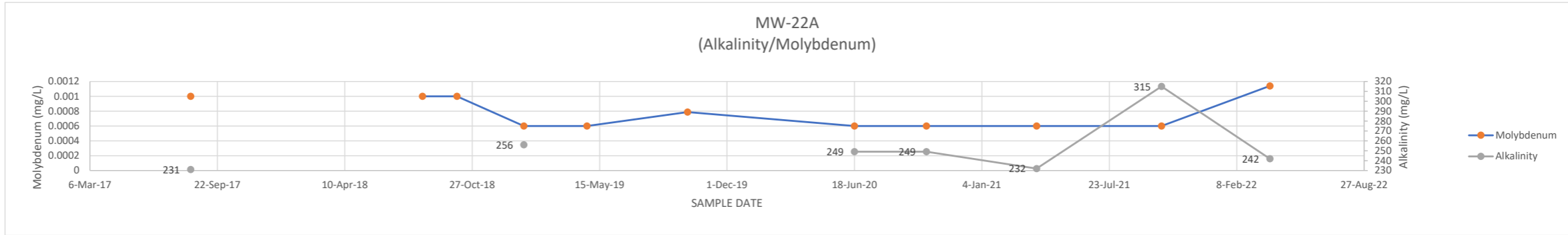


ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

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
1-Apr-22	136	0.445

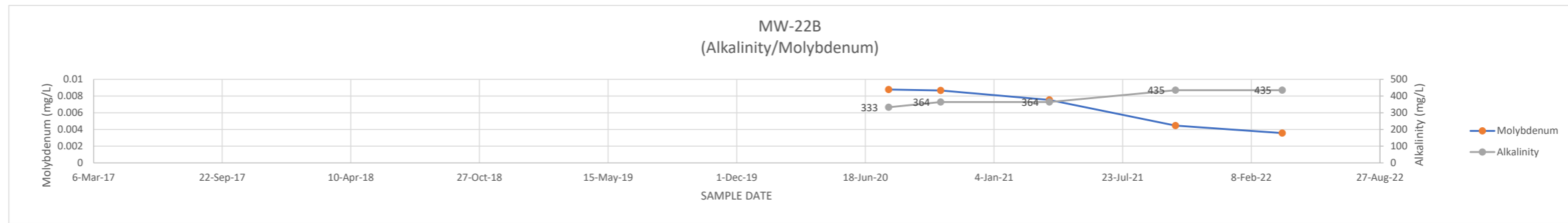


MW-22A	ALKALINITY	MOLYBDENUM
DATE		
11-Aug-17	231	0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18		0.001
16-Jan-19	256	0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20	249	0.0006
9-Oct-20	249	0.0006
31-Mar-21	232	0.0006
13-Oct-21	315	0.0006
1-Apr-22	242	0.00114

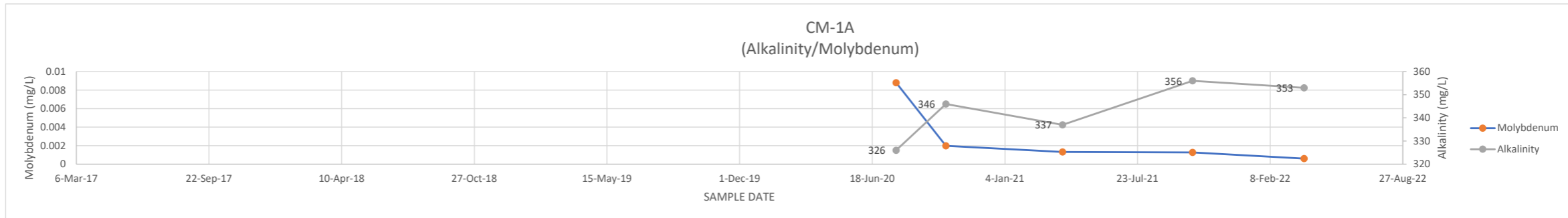


Value denoted in red from June 2022 resample

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
28-Mar-22	435	0.00357

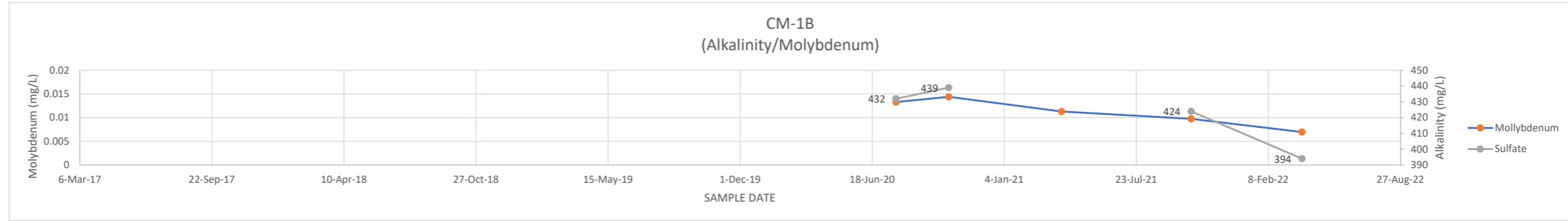


CM-1A	ALKALINITY	MOLYBDENUM
DATE		
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	326	0.0088
7-Oct-20	346	0.00198
1-Apr-21	337	0.00132
14-Oct-21	356	0.00127
31-Mar-22	353	0.0006

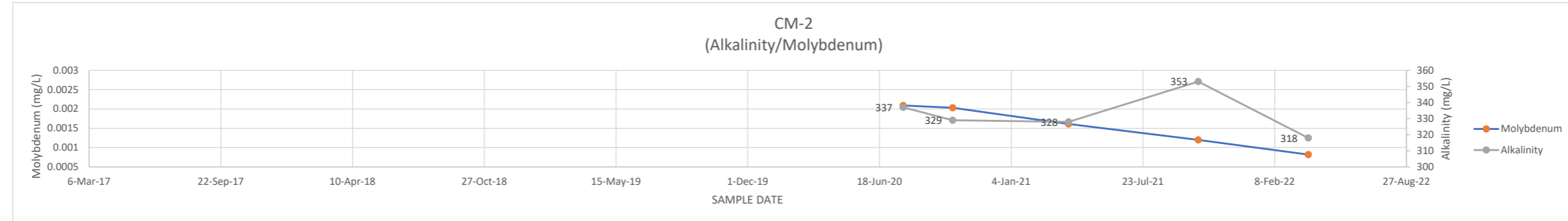


ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

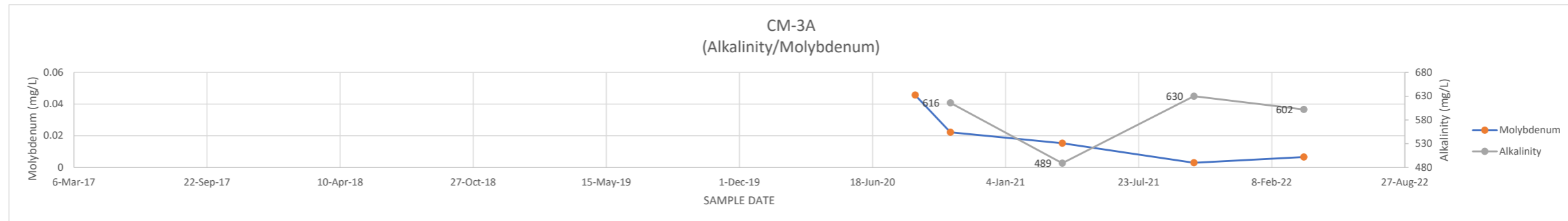
CM-1B DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	432	0.0133
12-Oct-20	439	0.0144
1-Apr-21		0.0113
14-Oct-21	424	0.00976
31-Mar-22	394	0.00696



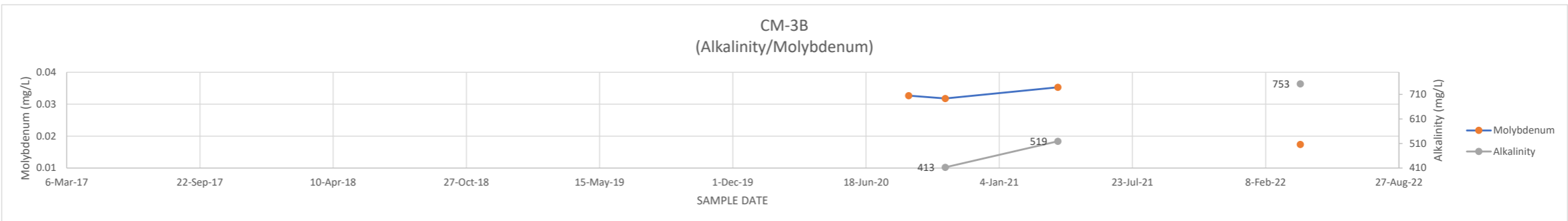
CM-2 DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	337	0.00209
7-Oct-20	329	0.00203
1-Apr-21	328	0.00161
15-Oct-21	353	0.0012
31-Mar-22	318	0.00082



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
28-Mar-22	602	0.00656

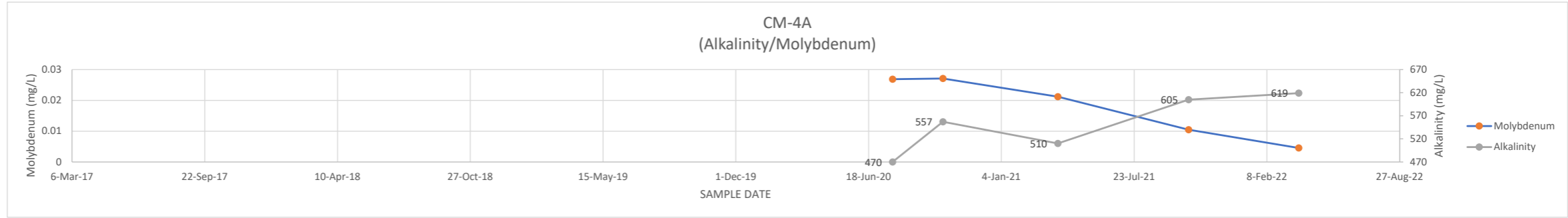


CM-3B DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20	413	0.0318
2-Apr-21	519	0.0353
11-Oct-21		
1-Apr-22	753	0.0174

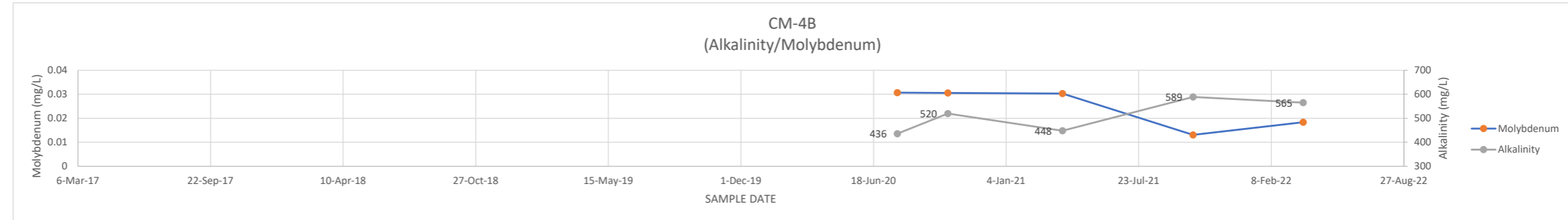


ATTACHMENT G-6
CHANGES IN ALKALINITY AND MOLYBDENUM CONCENTRATIONS

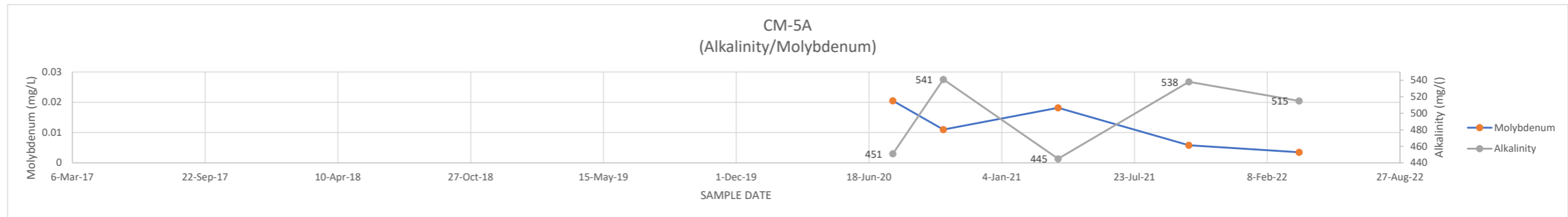
CM-4A DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	470	0.0269
8-Oct-20	557	0.0271
30-Mar-21	510	0.0212
13-Oct-21	605	0.0105
28-Mar-22	619	0.00455



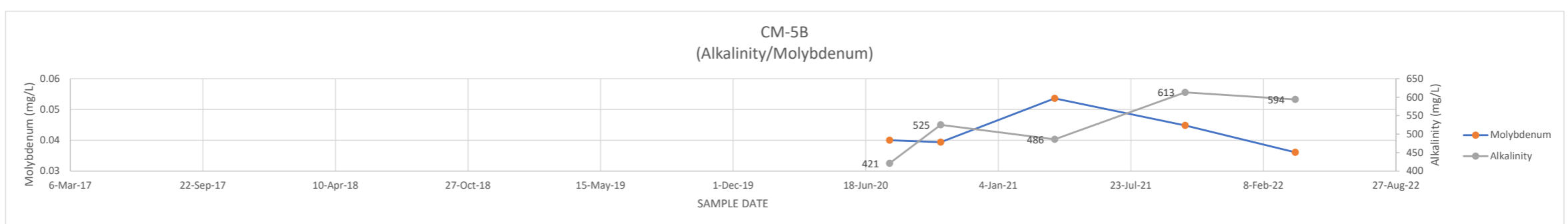
CM-4B DATE	ALKALINITY	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	436	0.0307
8-Oct-20	520	0.0306
30-Mar-21	448	0.0303
13-Oct-21	589	0.0131
28-Mar-22	565	0.0184



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
28-Mar-22	515	0.00351



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
28-Mar-22	594	0.0361



Yellow Indicates Reported Below shown value (MDL)

ATTACHMENT H

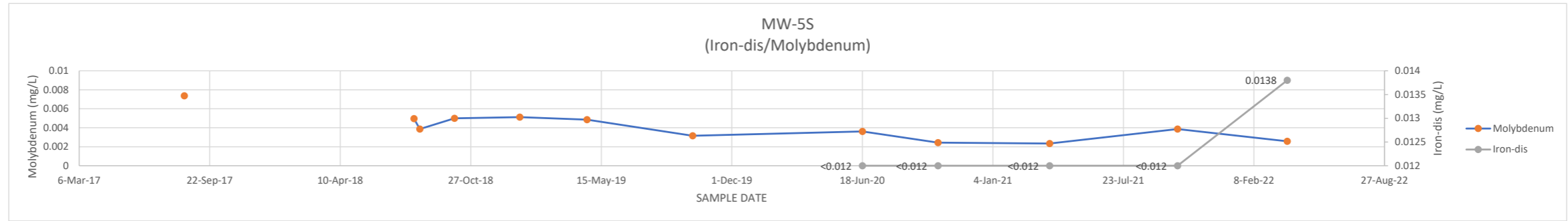
CHANGES IN IRON CONCENTRATION COMPARED TO CHANGES IN MONLYBDENUM CONCENTRATION OVER SAMPLING HISTORY

- 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

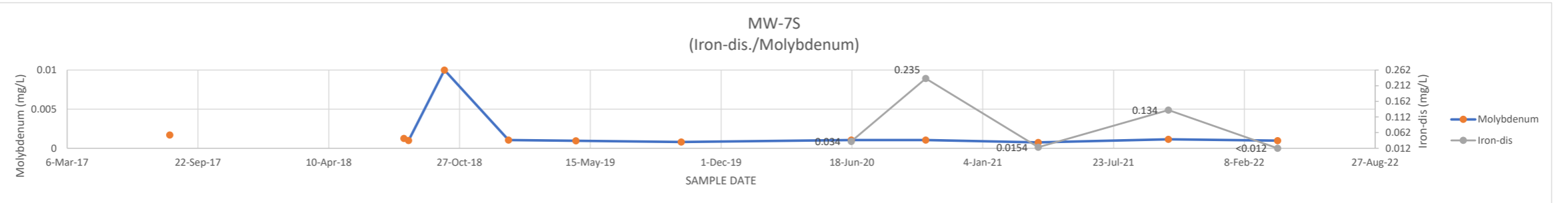
ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

MW-5S	DIS FE	MOLYBDENUM
DATE		0.00737
14-Aug-17		
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
31-Mar-22	0.0138	0.00257

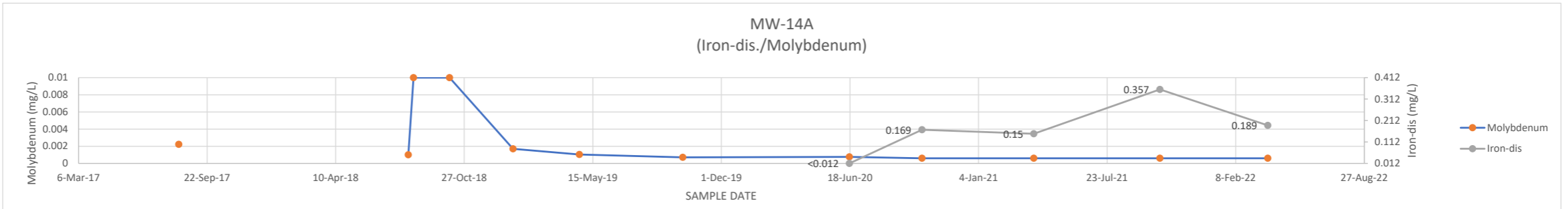
Value denoted in red from June 2022 resample



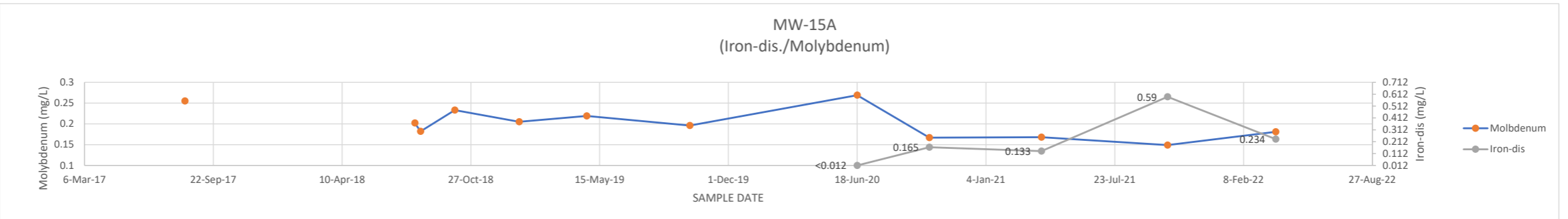
MW-7S	DIS FE	MOLYBDENUM
DATE		0.00171
10-Aug-17		
17-May-18		
3-Aug-18		0.00127
10-Aug-18		0.001
4-Oct-18		0.01
10-Jan-19		0.00105
23-Apr-19		0.000952
1-Oct-19		0.000798
17-Jun-20	0.034	0.00105
9-Oct-20	0.235	0.00106
30-Mar-21	0.0154	0.000755
15-Oct-21	0.134	0.00115
31-Mar-22	0.012	0.000973



MW-14A	DIS FE	MOLYBDENUM
DATE		0.00223
9-Aug-17		
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
30-Mar-22	0.189	0.0006

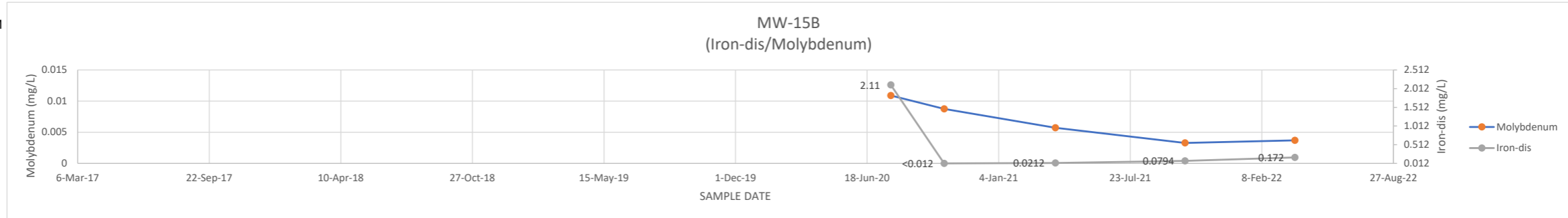


MW-15A	DIS FE	MOLYBDENUM
DATE		0.255
9-Aug-17		
24-May-18		
1-Aug-18		0.202
10-Aug-18		0.182
2-Oct-18		0.233
10-Jan-19		0.205
25-Apr-19		0.219
2-Oct-19		0.196
18-Jun-20	0.012	0.269
8-Oct-20	0.165	0.167
31-Mar-21	0.133	0.168
13-Oct-21	0.59	0.149
30-Mar-22	0.234	0.181

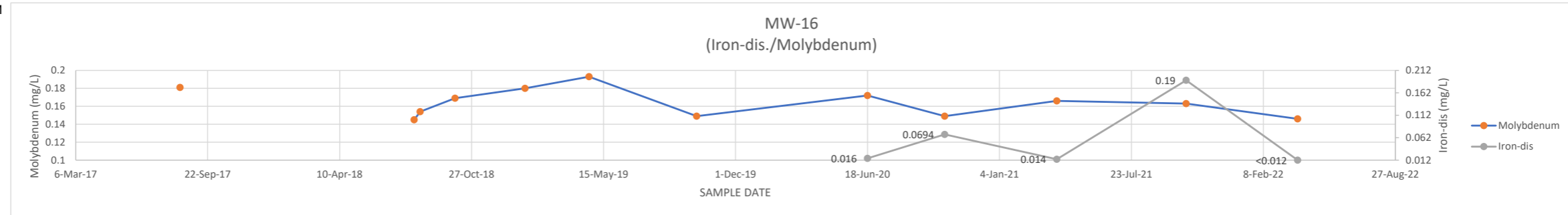


ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

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
30-Mar-22	0.172	0.0037

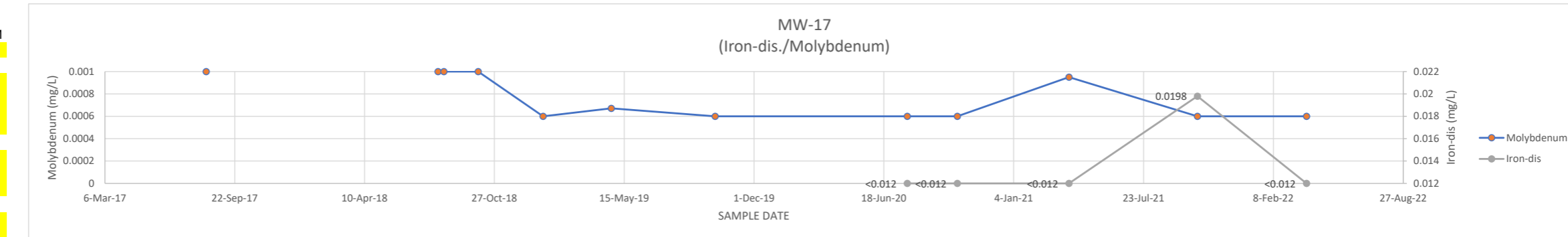


MW-16	DIS FE	MOLYBDENUM
DATE		
11-Aug-17		0.181
22-May-18		
1-Aug-18		0.145
10-Aug-18		0.154
2-Oct-18		0.169
16-Jan-19		0.18
23-Apr-19		0.193
3-Oct-19		0.149
18-Jun-20	0.016	0.172
13-Oct-20	0.0694	0.149
1-Apr-21	0.014	0.166
14-Oct-21	0.19	0.163
1-Apr-22	0.012	0.146



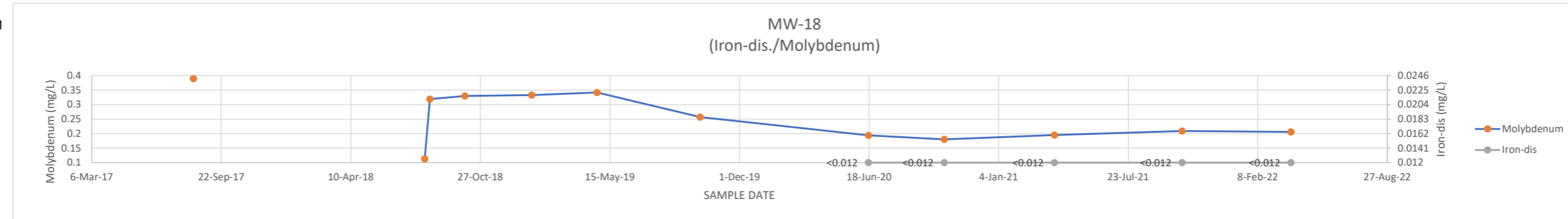
Value denoted in red from June 2022 resample

MW-17	DIS FE	MOLYBDENUM
DATE		
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	0.012	0.0006
9-Oct-20	0.012	0.0006
30-Mar-21	0.012	0.00095
14-Oct-21	0.0198	0.0006
31-Mar-22	0.012	0.0006



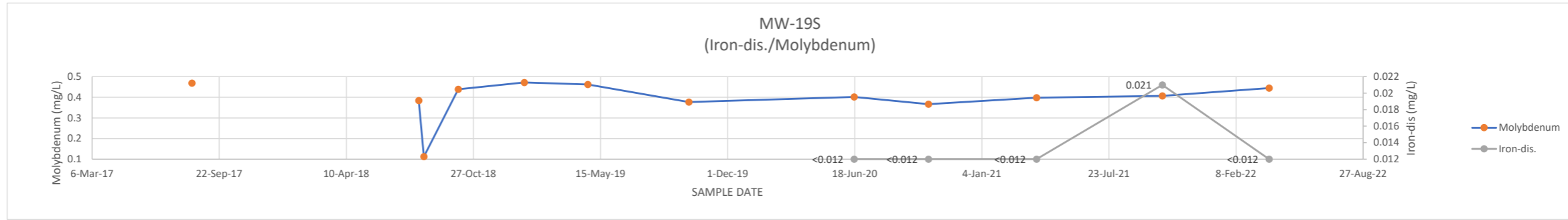
Value denoted in red from June 2022 resample

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
31-Mar-22	0.012	0.206

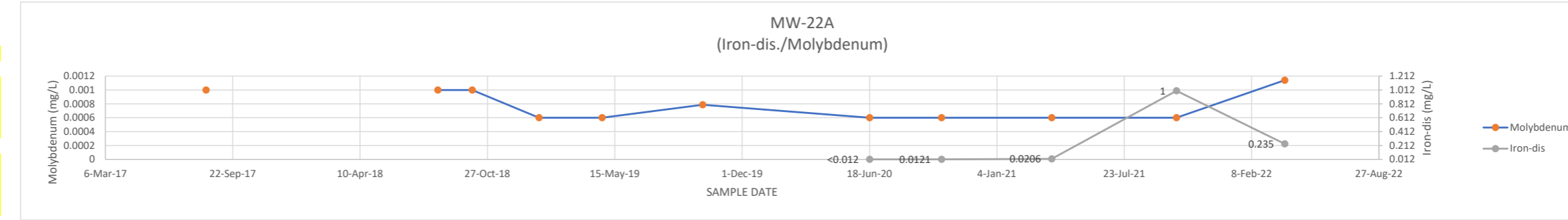


ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

MW-19S DATE	DIS FE	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	0.012	0.402
12-Oct-20	0.012	0.367
31-Mar-21	0.012	0.398
15-Oct-21	0.021	0.407
1-Apr-22	0.012	0.445

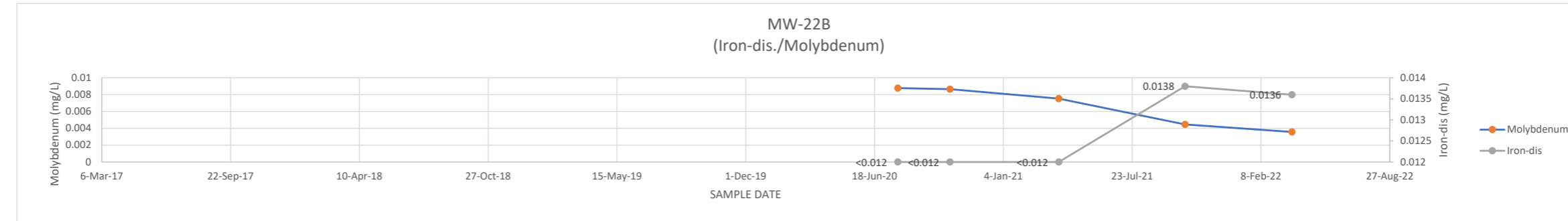


MW-22A DATE	DIS FE	MOLYBDENUM
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18		0.001
16-Jan-19		0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20	0.012	0.0006
9-Oct-20	0.0121	0.0006
31-Mar-21	0.0206	0.0006
13-Oct-21	1	0.0006
1-Apr-22	0.235	0.00114

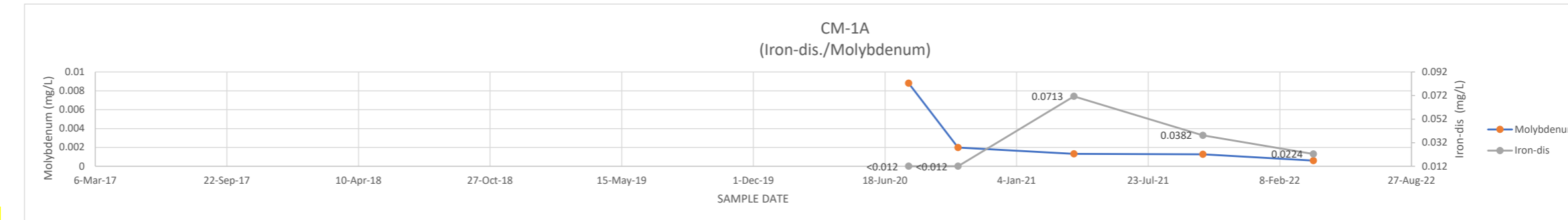


Value denoted in red from June 2022 resample

MW-22B 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	0.00878
13-Oct-20	0.012	0.00866
31-Mar-21	0.012	0.00753
13-Oct-21	0.0138	0.00446
28-Mar-22	0.0136	0.00357

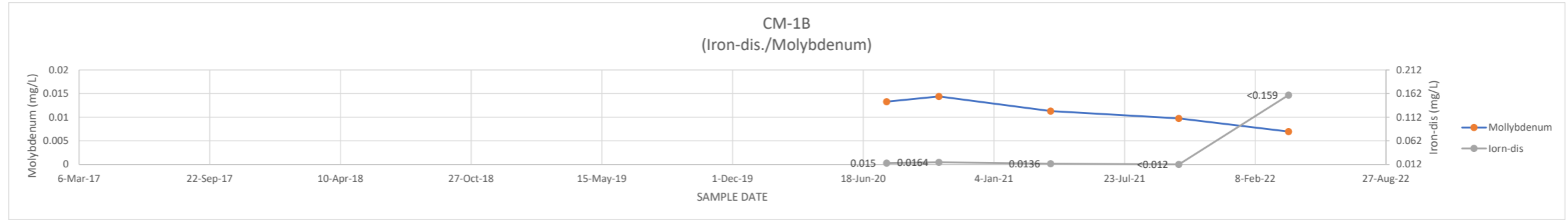


CM-1A DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.012	0.0088
7-Oct-20	0.012	0.00198
1-Apr-21	0.0713	0.00132
14-Oct-21	0.0382	0.00127
31-Mar-22	0.0224	0.0006

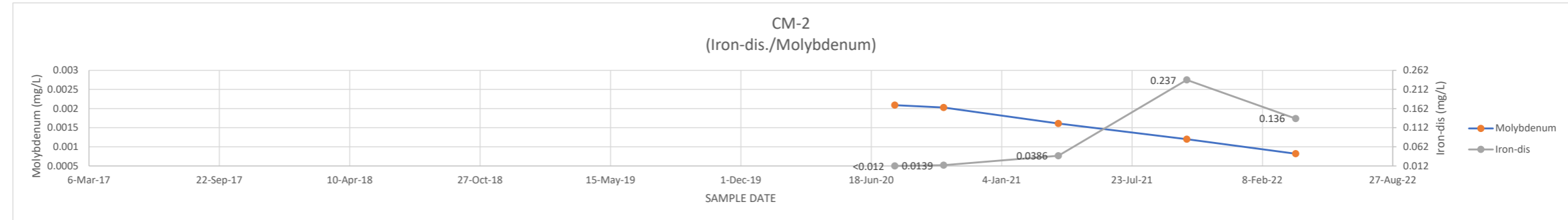


ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

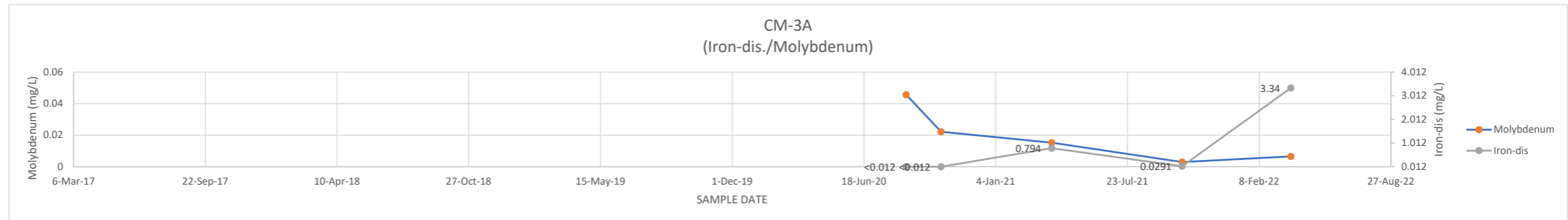
CM-1B DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.015	0.0133
12-Oct-20	0.0164	0.0144
1-Apr-21	0.0136	0.0113
14-Oct-21	0.012	0.00976
31-Mar-22	0.159	0.00696



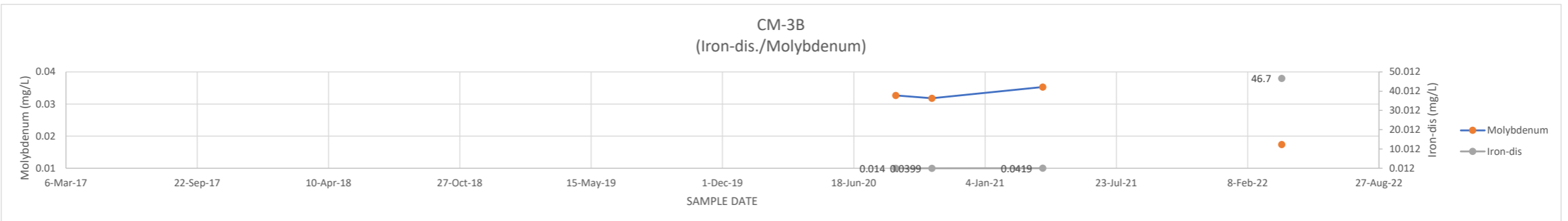
CM-2 DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.012	0.00209
7-Oct-20	0.0139	0.00203
1-Apr-21	0.0386	0.00161
15-Oct-21	0.237	0.0012
31-Mar-22	0.136	0.00082



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
28-Mar-22	3.34	0.00656

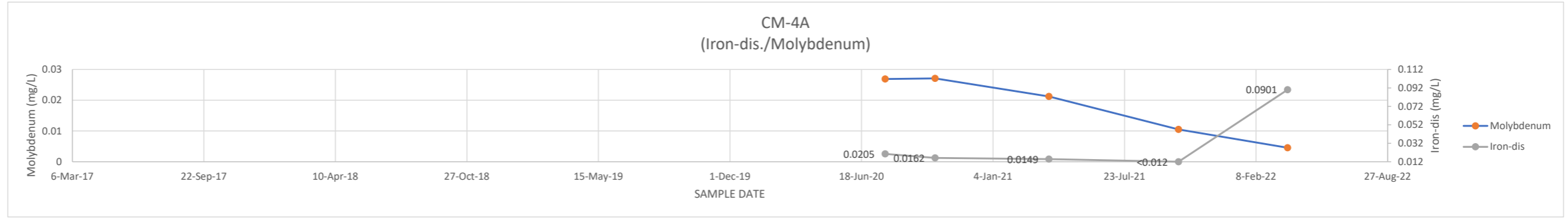


CM-3B DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20	0.014	0.0327
15-Oct-20	0.0399	0.0318
2-Apr-21	0.0419	0.0353
11-Oct-21		
1-Apr-22	46.7	0.0174

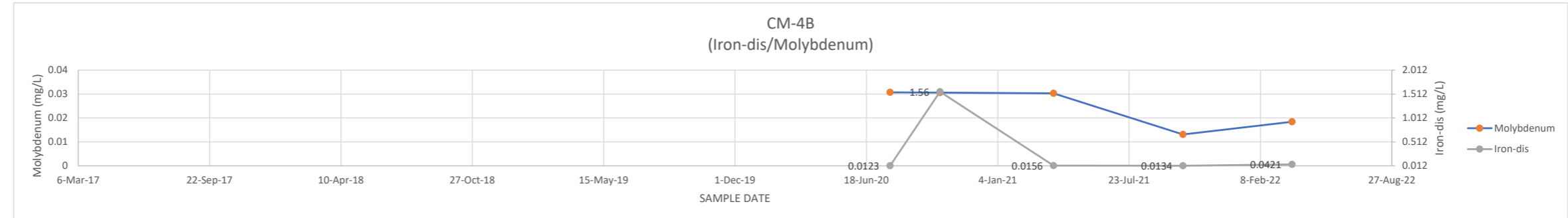


ATTACHMENT H-1
CHANGES IN IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

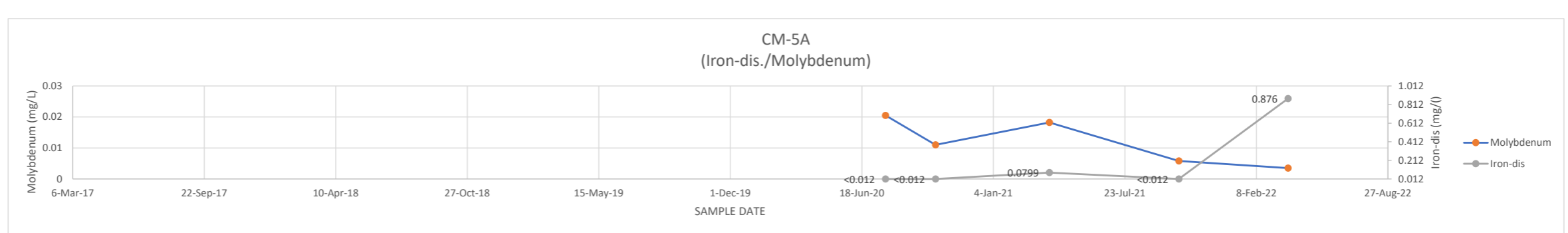
CM-4A DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.0205	0.0269
8-Oct-20	0.0162	0.0271
30-Mar-21	0.0149	0.0212
13-Oct-21	0.012	0.0105
28-Mar-22	0.0901	0.00455



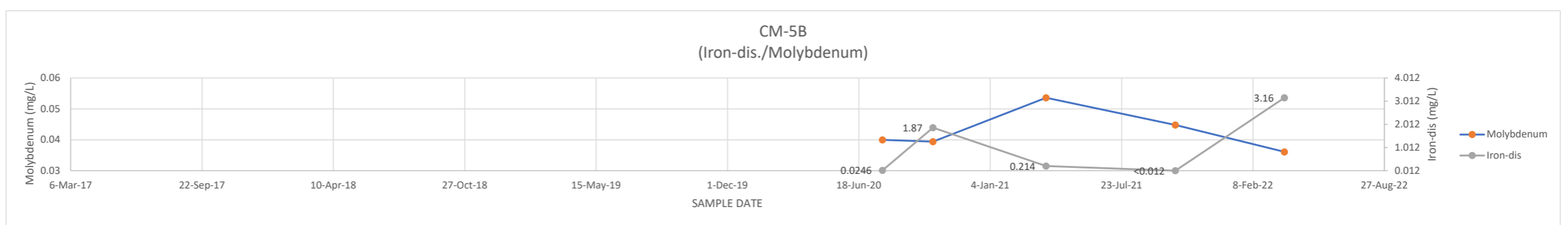
CM-4B DATE	DIS FE	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20	0.0123	0.0307
8-Oct-20	1.56	0.0306
30-Mar-21	0.0156	0.0303
13-Oct-21	0.0134	0.0131
28-Mar-22	0.0421	0.0184



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
28-Mar-22	0.876	0.00351



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
28-Mar-22	3.16	0.0361

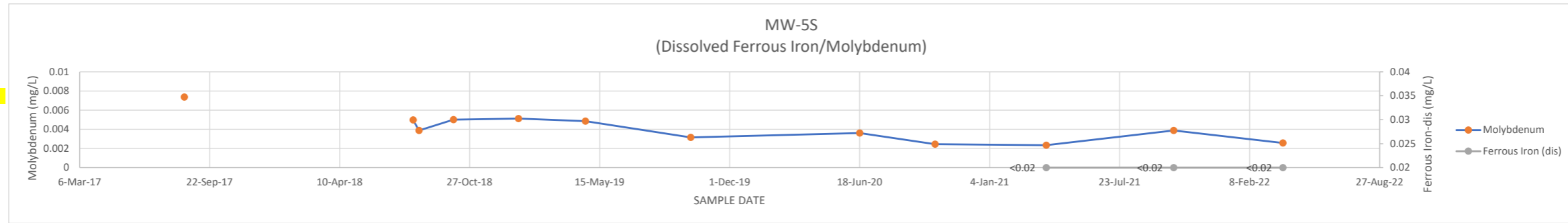


Yellow Indicates Reported Below shown value (MDL)

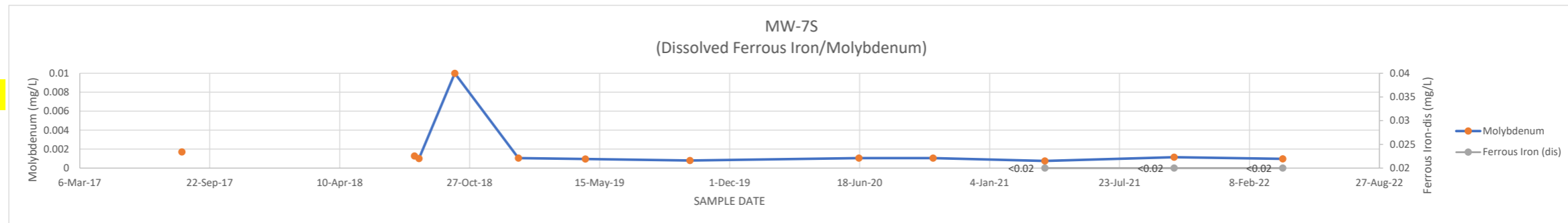
ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

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
31-Mar-22	0.02		0.00257

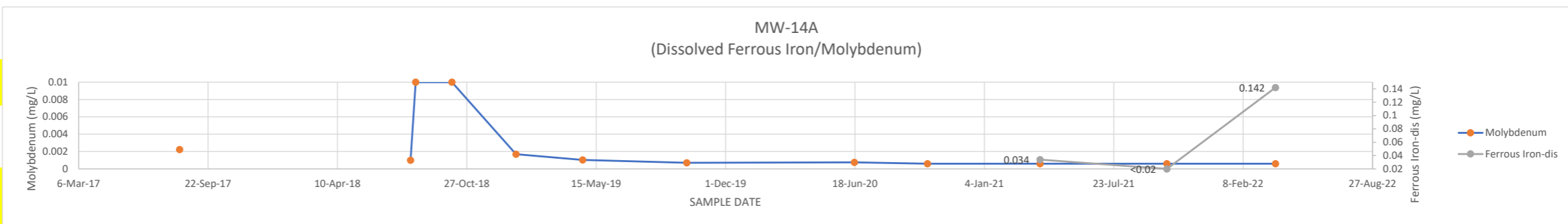
Value denoted in red from June 2022 resample



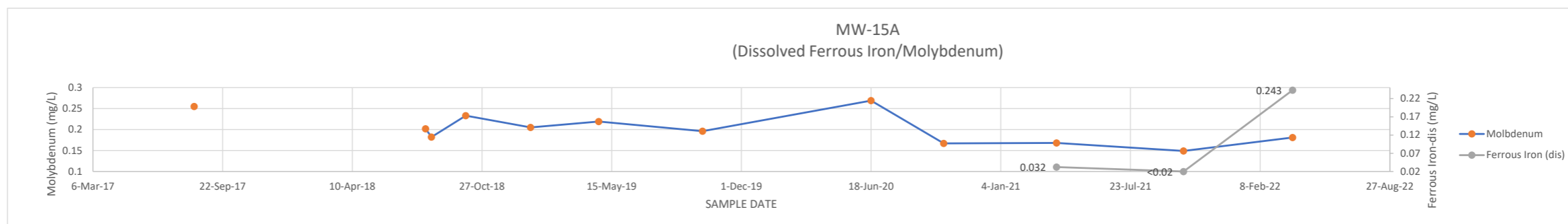
MW-7S	DATE	DIS FE(II)	MOLYBDENUM
10-Aug-17			0.00171
17-May-18			
3-Aug-18			0.00127
10-Aug-18			0.001
4-Oct-18			0.01
10-Jan-19			0.00105
23-Apr-19			0.000952
1-Oct-19			0.000798
17-Jun-20			0.00105
9-Oct-20			0.00106
30-Mar-21	0.02		0.000755
15-Oct-21	0.02		0.00115
31-Mar-22	0.02		0.000973



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
30-Mar-22	0.142		0.0006

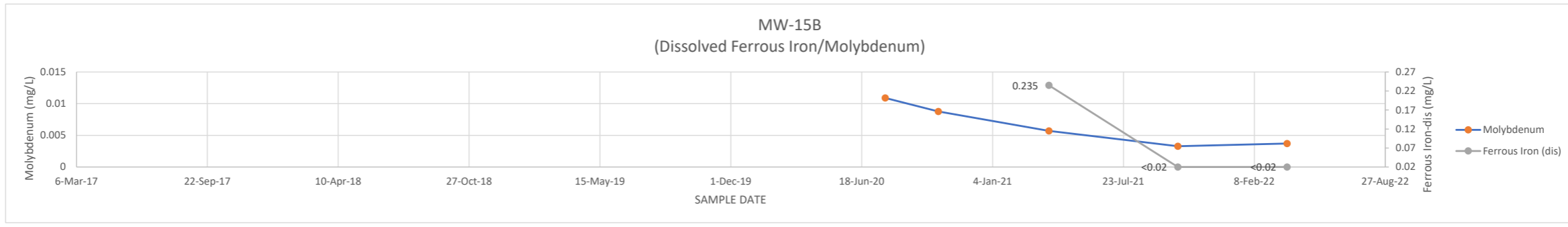


MW-15A	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			0.255
24-May-18			
1-Aug-18			0.202
10-Aug-18			0.182
2-Oct-18			0.233
10-Jan-19			0.205
25-Apr-19			0.219
2-Oct-19			0.196
18-Jun-20			0.269
8-Oct-20			0.167
31-Mar-21	0.032		0.168
13-Oct-21	0.02		0.149
30-Mar-22	0.243		0.181

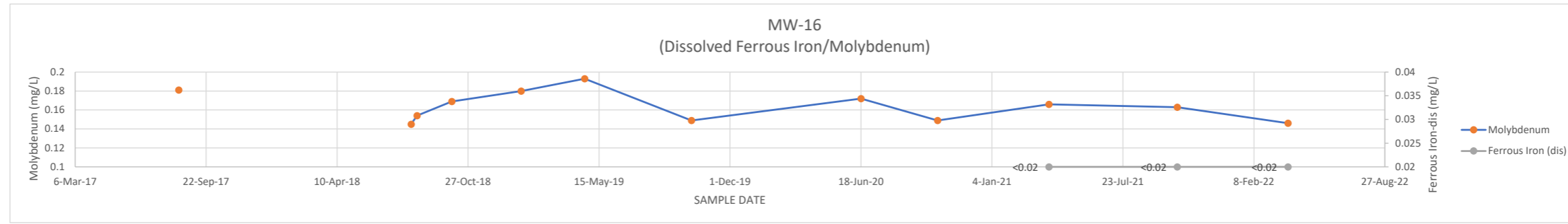


ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

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
30-Mar-22		0.02	0.0037

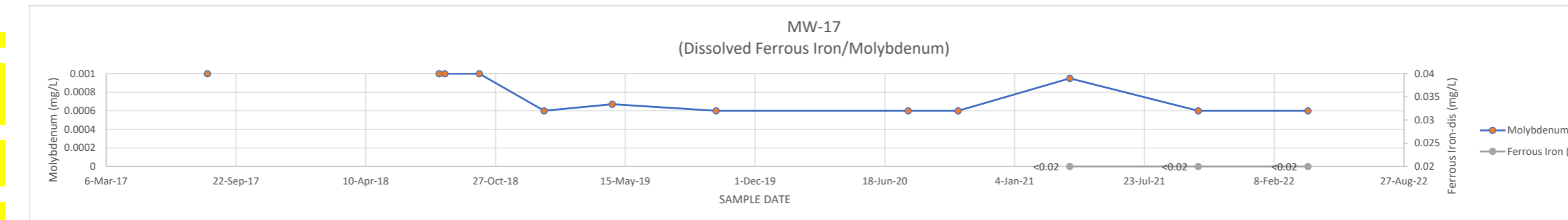


MW-16	DATE	DIS FE(II)	MOLYBDENUM
11-Aug-17			0.181
22-May-18			
1-Aug-18			0.145
10-Aug-18			0.154
2-Oct-18			0.169
16-Jan-19			0.18
23-Apr-19			0.193
3-Oct-19			0.149
18-Jun-20			0.172
13-Oct-20			0.149
1-Apr-21		0.02	0.166
14-Oct-21		0.02	0.163
1-Apr-22		0.02	0.146



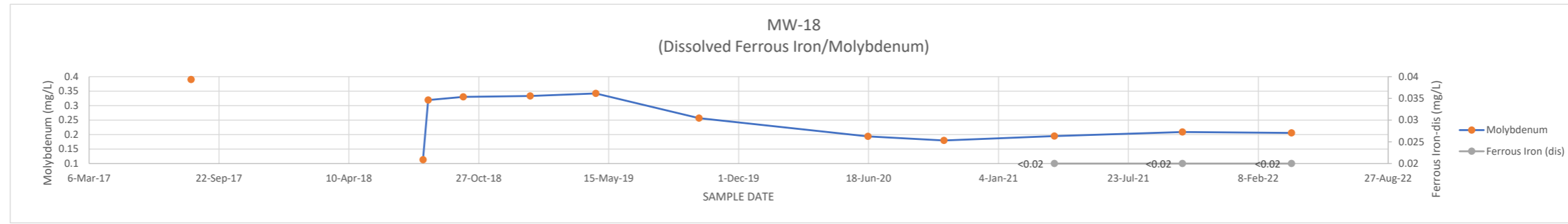
Value denoted in red from June 2022 resample

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
1-Apr-22		0.02	0.0006



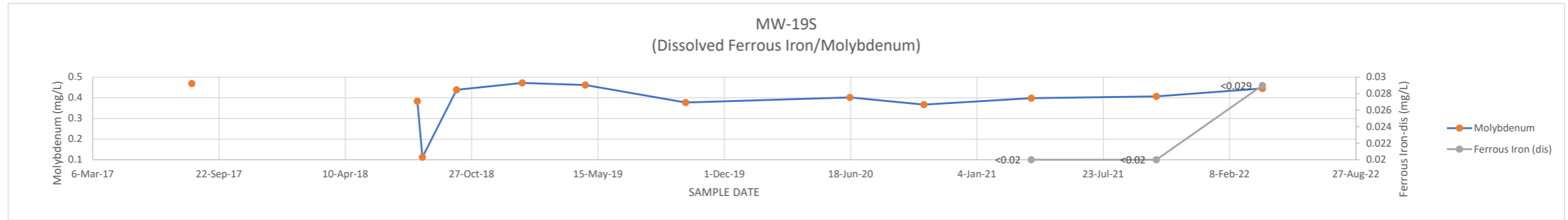
Value denoted in red from June 2022 resample

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
31-Mar-22		0.02	0.206

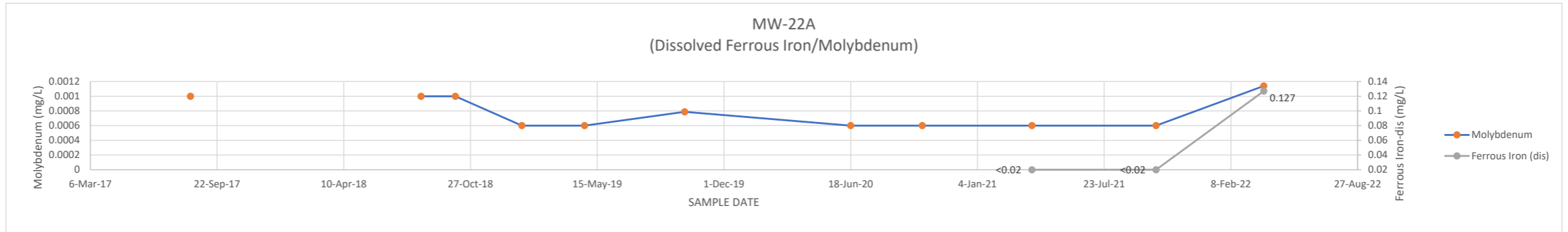


ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

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
	1-Apr-22	0.029	0.445

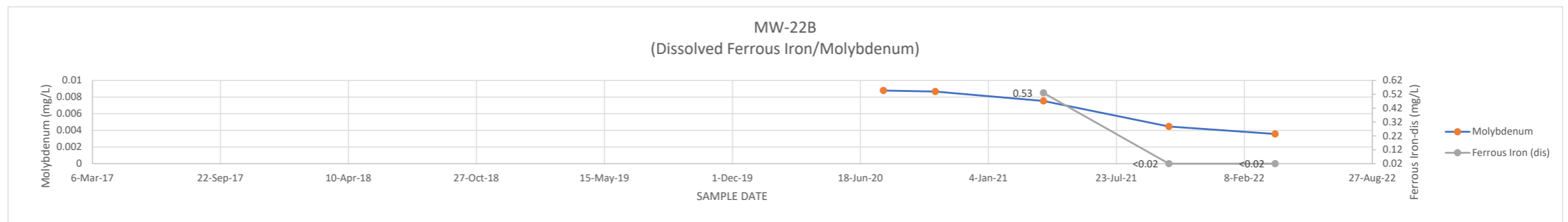


MW-22A	DATE	DIS FE(II)	MOLYBDENUM
	11-Aug-17		0.001
	22-May-18		
	10-Aug-18		0.001
	3-Oct-18		0.001
	16-Jan-19		0.0006
	25-Apr-19		0.0006
	30-Sep-19		0.000787
	18-Jun-20		0.0006
	9-Oct-20		0.0006
	31-Mar-21	0.02	0.0006
	13-Oct-21	0.02	0.0006
	1-Apr-22	0.127	0.00114

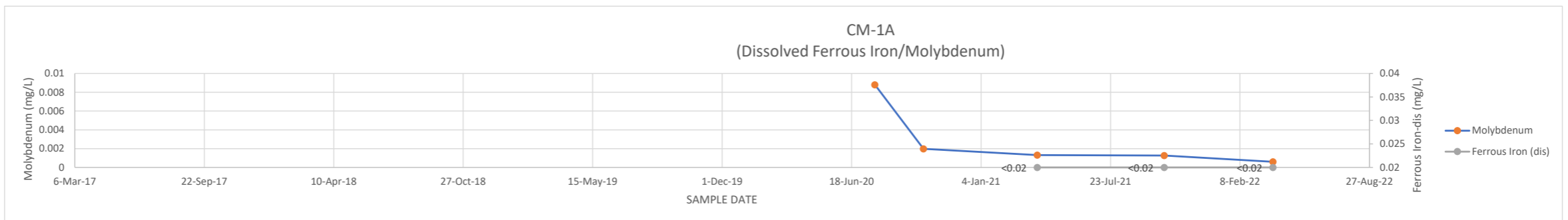


Value denoted in red from June 2022 resample

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
	28-Mar-22	0.02	0.00357

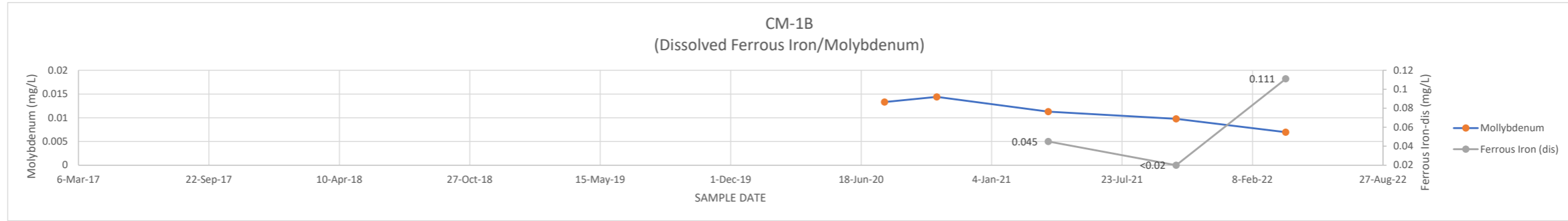


CM-1A	DATE	DIS FE(II)	MOLYBDENUM
	9-Aug-17		
	24-May-18		
	1-Aug-18		
	10-Aug-18		
	2-Oct-18		
	10-Jan-19		
	25-Apr-19		
	2-Oct-19		
	24-Jul-20		0.0088
	7-Oct-20		0.00198
	1-Apr-21	0.02	0.00132
	14-Oct-21	0.02	0.00127
	31-Mar-22	0.02	0.0006

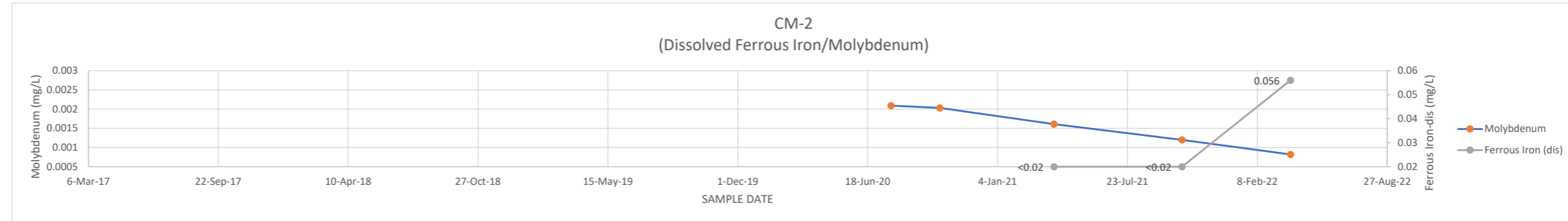


ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

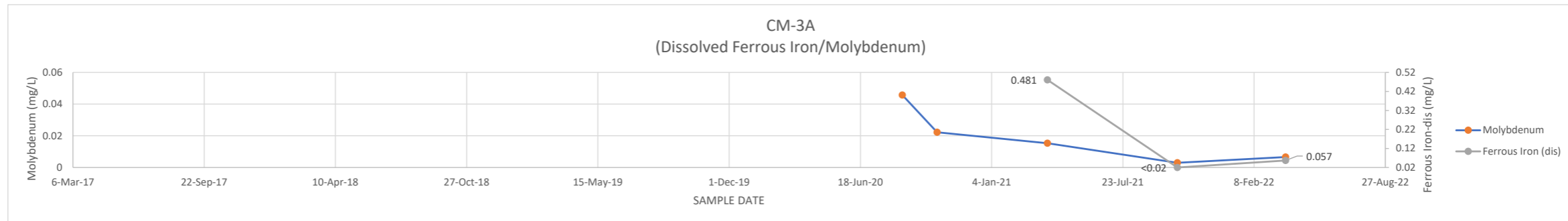
CM-1B	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0133
12-Oct-20			0.0144
1-Apr-21	0.045		0.0113
14-Oct-21	0.02		0.00976
31-Mar-22	0.111		0.00696



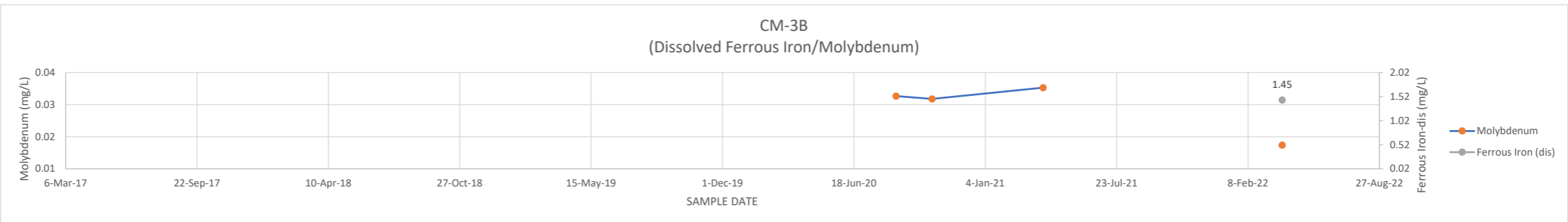
CM-2	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.00209
7-Oct-20			0.00203
1-Apr-21	0.02		0.00161
15-Oct-21	0.02		0.0012
31-Mar-22	0.056		0.00082



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
28-Mar-22	0.057		0.00656

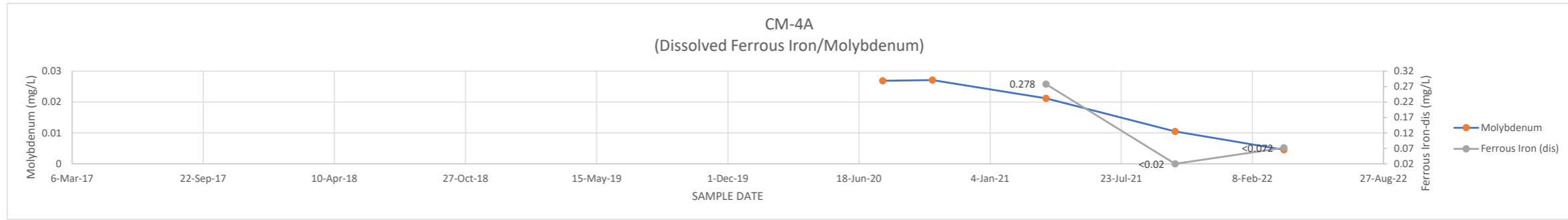


CM-3B	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
21-Aug-20			0.0327
15-Oct-20			0.0318
2-Apr-21			0.0353
11-Oct-21			
1-Apr-22	1.45		0.0174

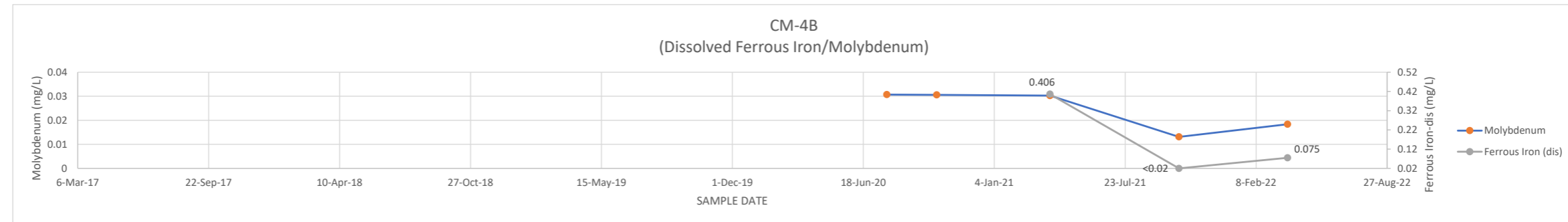


ATTACHMENT H-2
CHANGES IN FERROUS IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

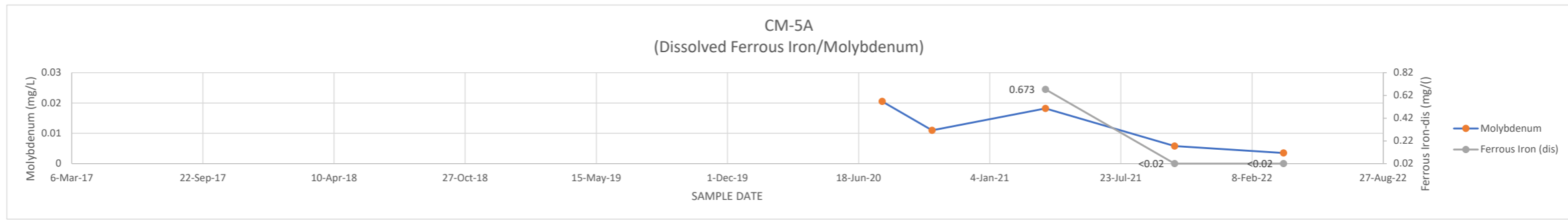
CM-4A	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0269
8-Oct-20			0.0271
30-Mar-21	0.278		0.0212
13-Oct-21	0.02		0.0105
28-Mar-22	0.072		0.00455



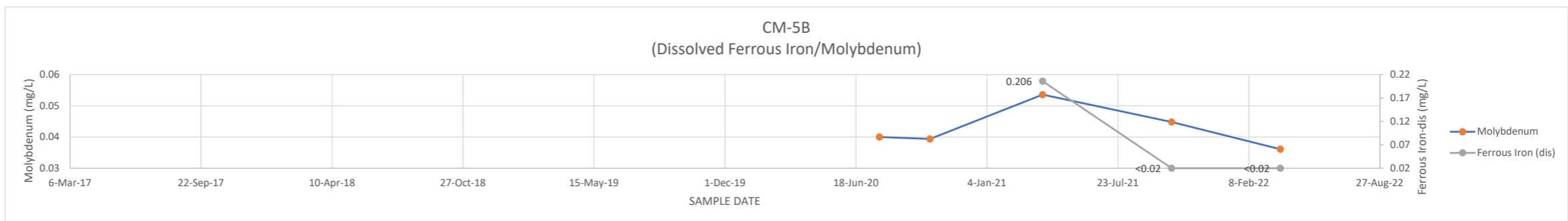
CM-4B	DATE	DIS FE(II)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0307
8-Oct-20			0.0306
30-Mar-21	0.406		0.0303
13-Oct-21	0.02		0.0131
28-Mar-22	0.075		0.0184



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
28-Mar-22	0.02		0.00351



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
28-Mar-22	0.02		0.0361

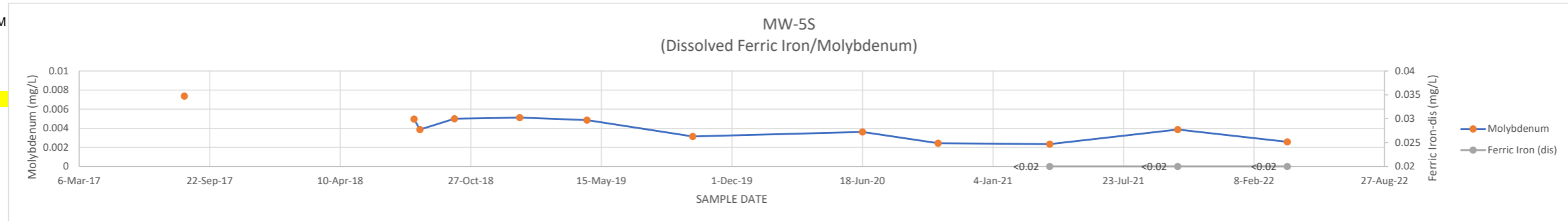


Yellow Indicates Reported Below shown value (MDL)

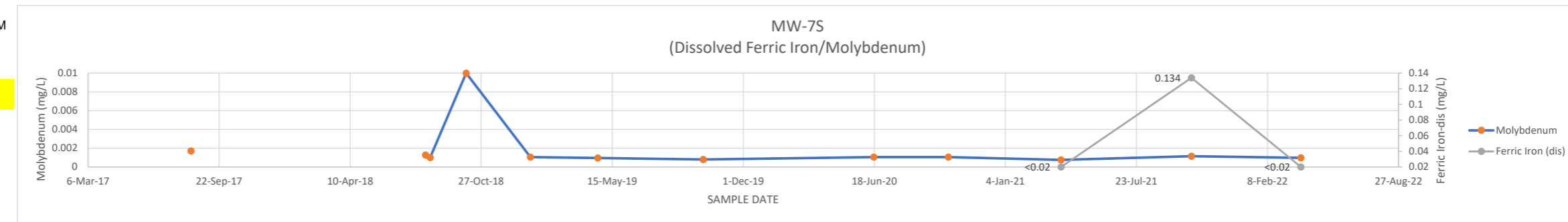
ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

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
	31-Mar-22	0.02	0.00257

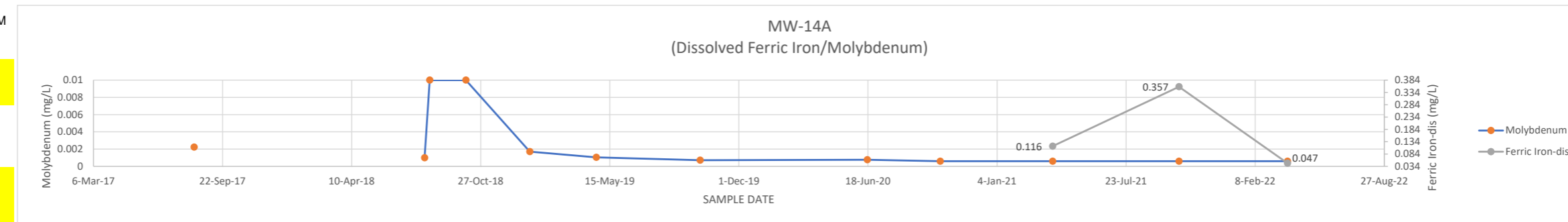
Value denoted in red from June 2022 resample



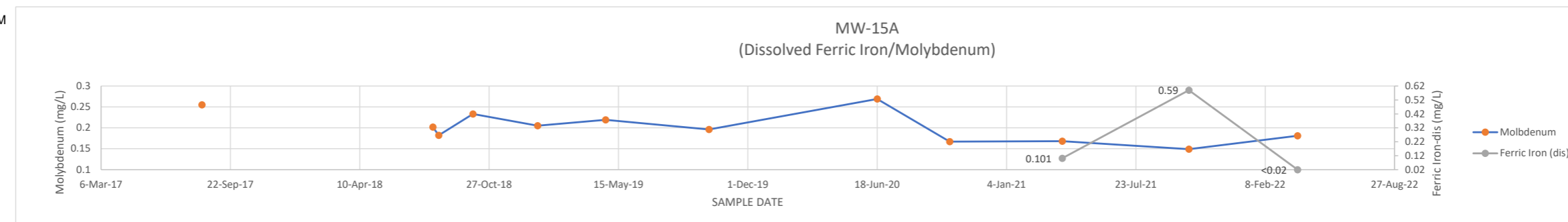
MW-7S	DATE	DIS (III)	MOLYBDENUM
	10-Aug-17		0.00171
	17-May-18		
	3-Aug-18		0.00127
	10-Aug-18		0.001
	4-Oct-18		0.01
	10-Jan-19		0.00105
	23-Apr-19		0.000952
	1-Oct-19		0.000798
	17-Jun-20		0.00105
	9-Oct-20		0.00106
	30-Mar-21	0.02	0.000755
	15-Oct-21	0.134	0.00115
	31-Mar-22	0.02	0.000973



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
	30-Mar-22	0.047	0.0006

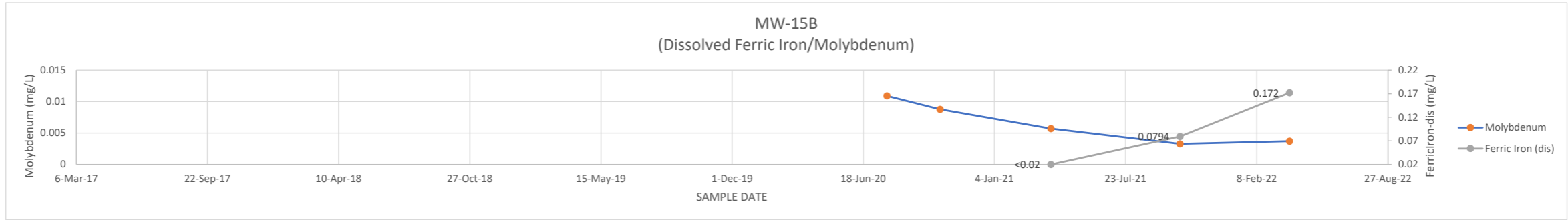


MW-15A	DATE	DIS (III)	MOLYBDENUM
	9-Aug-17		0.255
	24-May-18		
	1-Aug-18		0.202
	10-Aug-18		0.182
	2-Oct-18		0.233
	10-Jan-19		0.205
	25-Apr-19		0.219
	2-Oct-19		0.196
	18-Jun-20		0.269
	8-Oct-20		0.167
	31-Mar-21	0.101	0.168
	13-Oct-21	0.59	0.149
	30-Mar-22	0.02	0.181

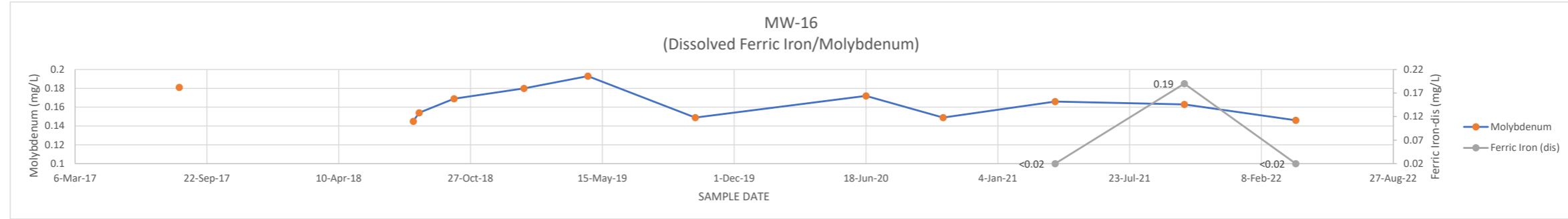


ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

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
30-Mar-22		0.172	0.0037

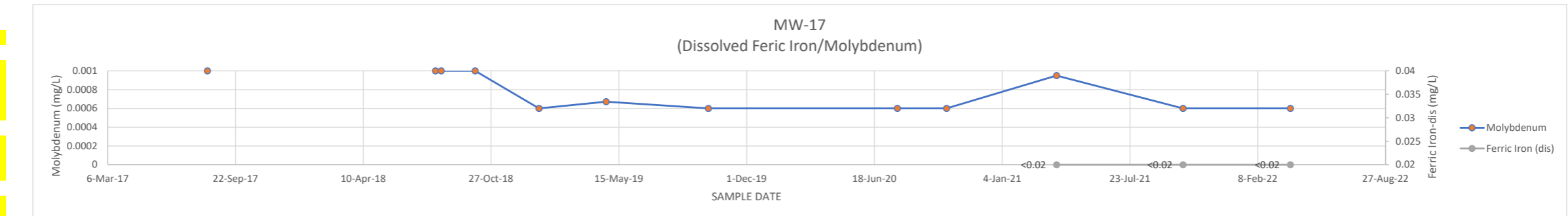


MW-16	DATE	DIS (III)	MOLYBDENUM
11-Aug-17			0.181
22-May-18			
1-Aug-18			0.145
10-Aug-18			0.154
2-Oct-18			0.169
16-Jan-19			0.18
23-Apr-19			0.193
3-Oct-19			0.149
18-Jun-20			0.172
13-Oct-20			0.149
1-Apr-21		0.02	0.166
14-Oct-21		0.19	0.163
1-Apr-22		0.02	0.146



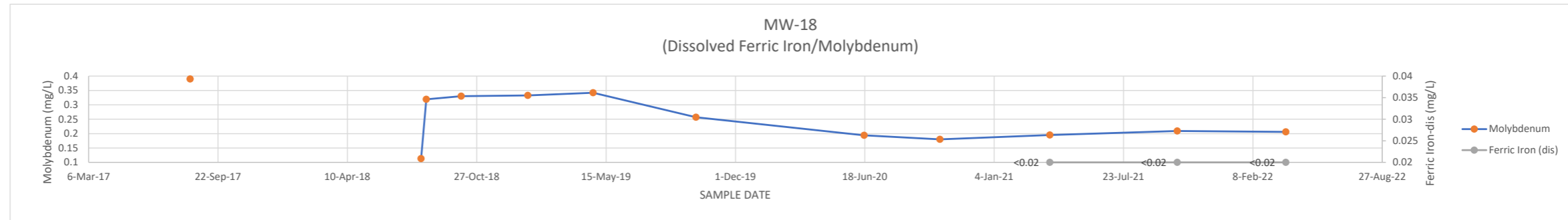
Value denoted in red from June 2022 resample

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
31-Mar-22		0.02	0.0006



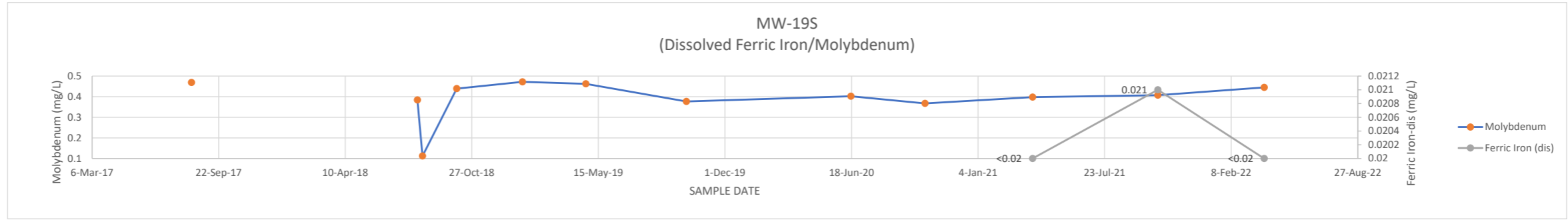
Value denoted in red from June 2022 resample

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
31-Mar-22		0.02	0.206

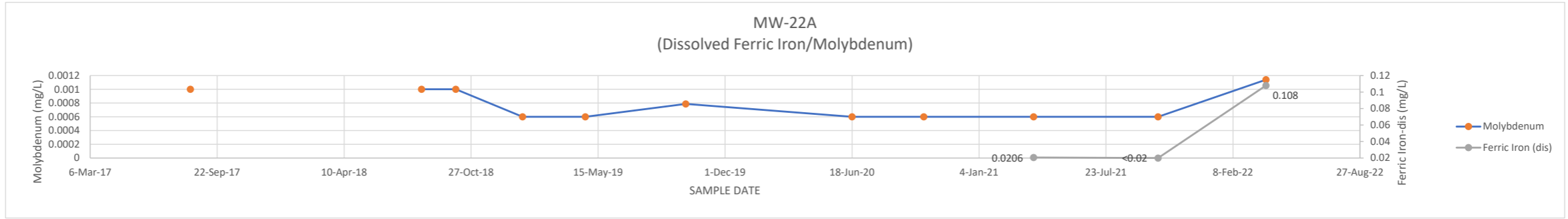


ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

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
1-Apr-22	0.02	0.445

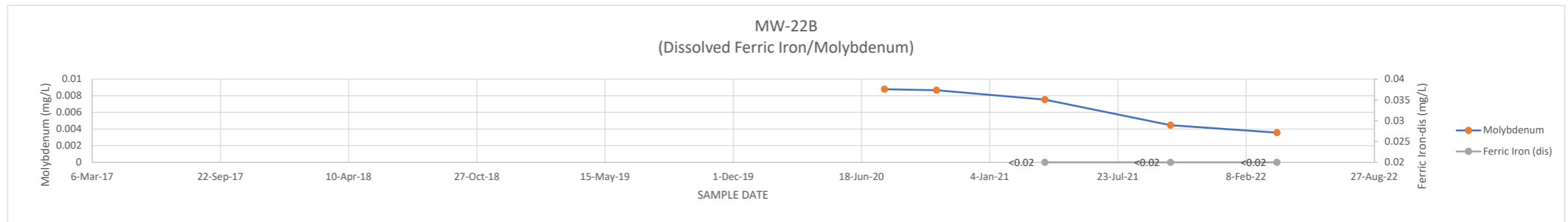


MW-22A DATE	DIS (III)	MOLYBDENUM
11-Aug-17		0.001
22-May-18		
10-Aug-18		0.001
3-Oct-18		0.001
16-Jan-19		0.0006
25-Apr-19		0.0006
30-Sep-19		0.000787
18-Jun-20		0.0006
9-Oct-20		0.0006
31-Mar-21	0.0206	0.0006
13-Oct-21	0.02	0.0006
1-Apr-22	0.108	0.00114

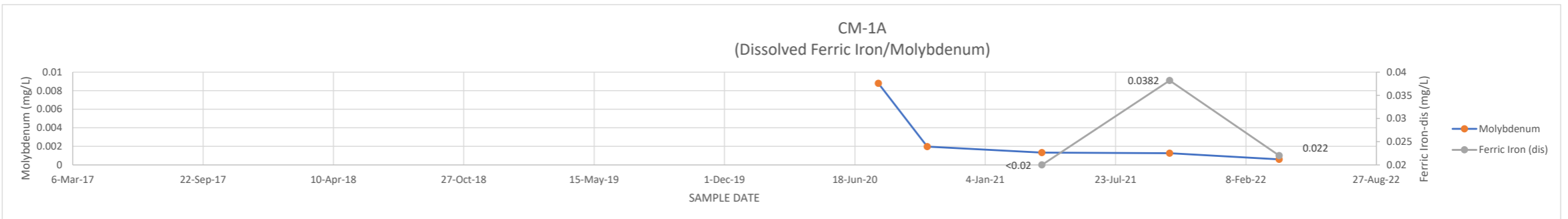


Value denoted in red from June 2022 resample

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
28-Mar-22	0.02	0.00357

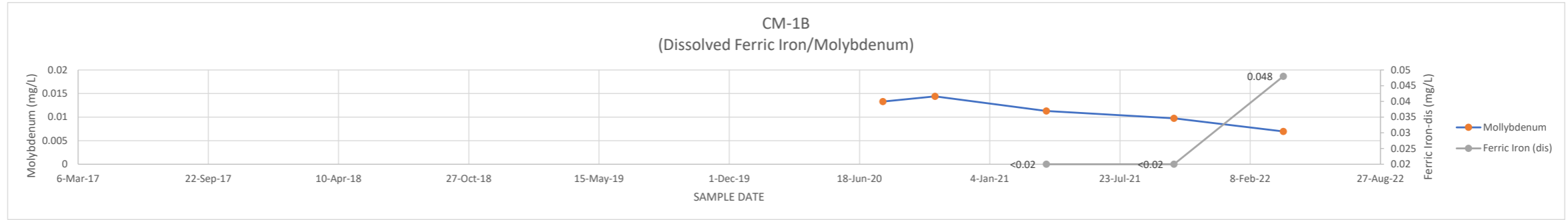


CM-1A DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0088
7-Oct-20		0.00198
1-Apr-21	0.02	0.00132
14-Oct-21	0.0382	0.00127
31-Mar-22	0.022	0.0006

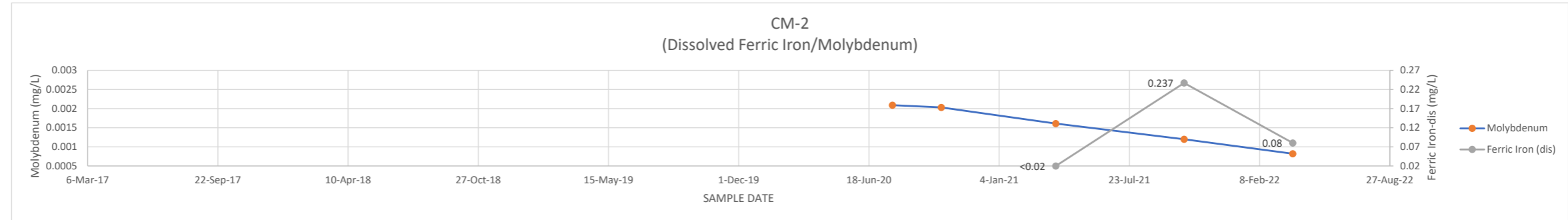


ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

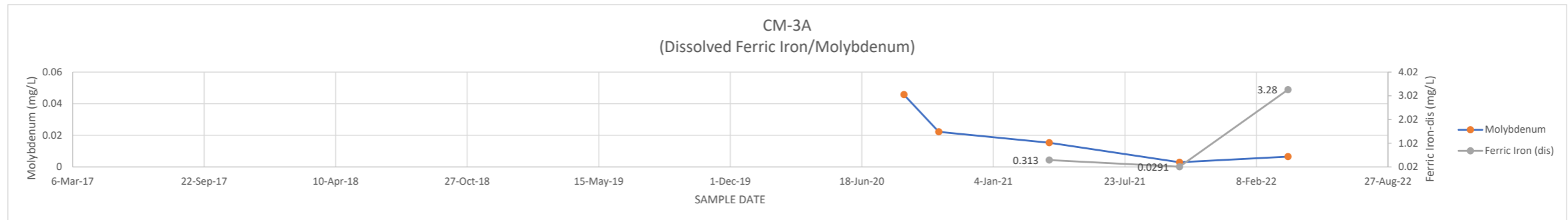
CM-1B DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.0133
12-Oct-20		0.0144
1-Apr-21	0.02	0.0113
14-Oct-21	0.02	0.00976
31-Mar-22	0.048	0.00696



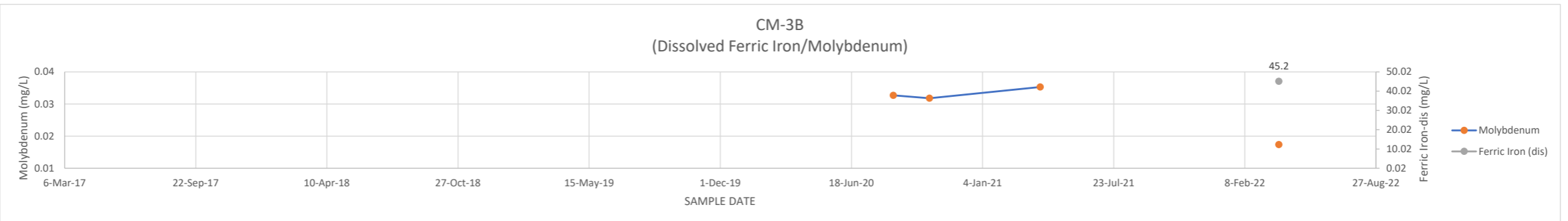
CM-2 DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
24-Jul-20		0.00209
7-Oct-20		0.00203
1-Apr-21	0.02	0.00161
15-Oct-21	0.237	0.0012
31-Mar-22	0.08	0.00082



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
28-Mar-22	3.28	0.00656

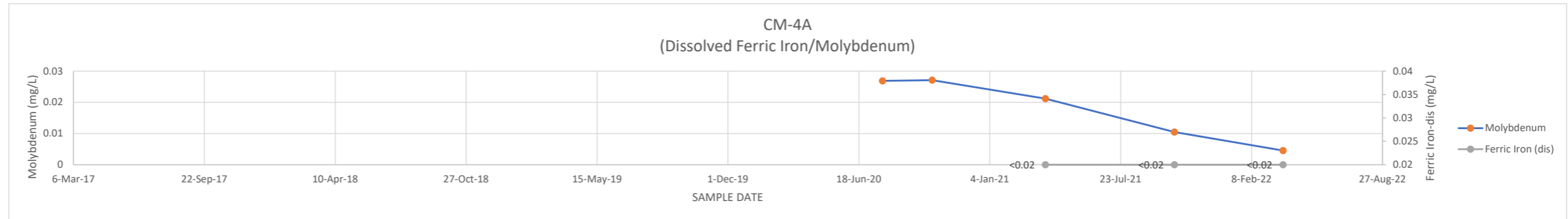


CM-3B DATE	DIS (III)	MOLYBDENUM
9-Aug-17		
24-May-18		
1-Aug-18		
10-Aug-18		
2-Oct-18		
10-Jan-19		
25-Apr-19		
2-Oct-19		
21-Aug-20		0.0327
15-Oct-20		0.0318
2-Apr-21		0.0353
11-Oct-21		
1-Apr-22	45.2	0.0174

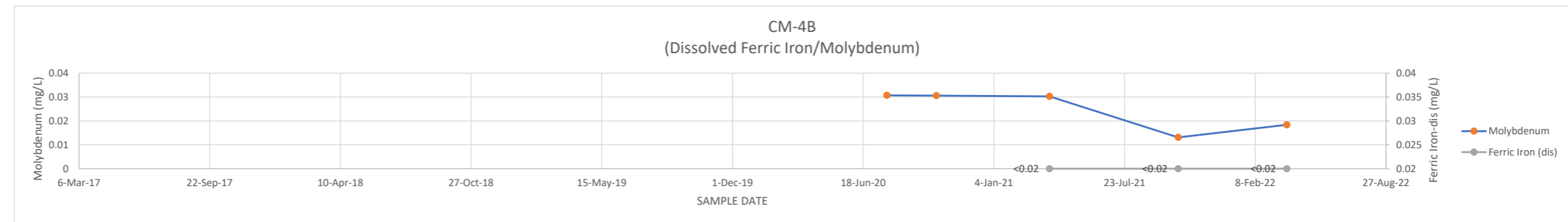


ATTACHMENT H-3
CHANGES IN FERRIC IRON (DISSOLVED) AND MOLYBDENUM CONCENTRATIONS

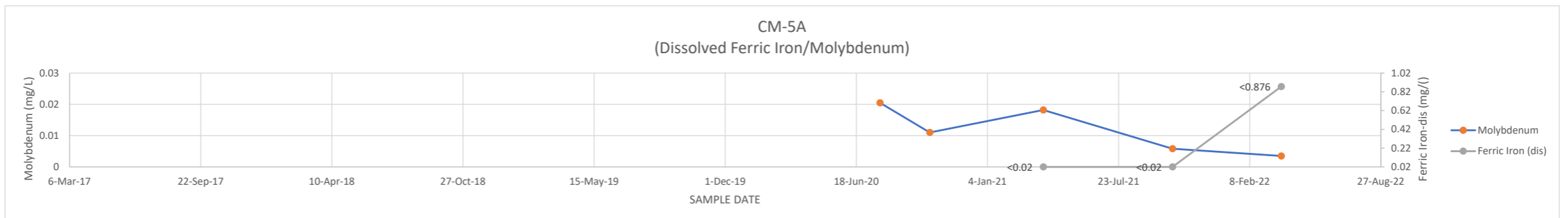
CM-4A	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0269
8-Oct-20			0.0271
30-Mar-21		0.02	0.0212
13-Oct-21		0.02	0.0105
28-Mar-22		0.02	0.00455



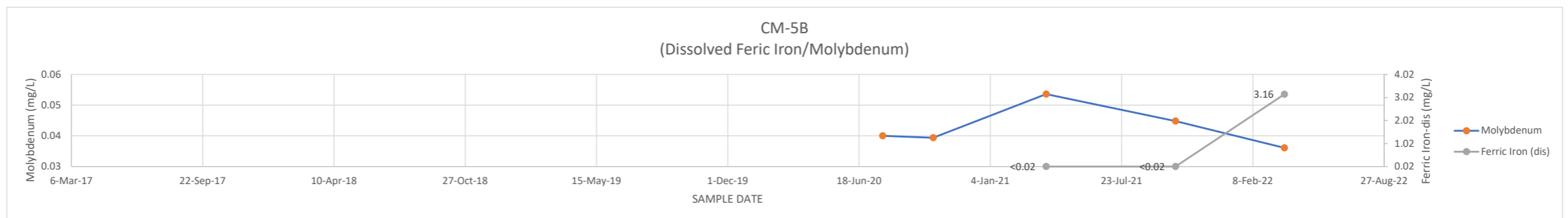
CM-4B	DATE	DIS (III)	MOLYBDENUM
9-Aug-17			
24-May-18			
1-Aug-18			
10-Aug-18			
2-Oct-18			
10-Jan-19			
25-Apr-19			
2-Oct-19			
24-Jul-20			0.0307
8-Oct-20			0.0306
30-Mar-21		0.02	0.0303
13-Oct-21		0.02	0.0131
28-Mar-22		0.02	0.0184



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
28-Mar-22		0.876	0.00351



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
28-Mar-22		3.16	0.0361



Yellow Indicates Reported Below shown value (MDL)