# APPENDIX E.5

# WASTE ROCK GEOCHEMISTRY REPORTS AND STATUS UPDATE ON WASTE ROCK GEOCHEMISTRY PROGRAM

**Geochemical Characterization Program - Implementation Schedule Update**

| | | Refer to Report Section[1] | Description | Status |
|---|---|---|---|---|
| **1.0** | **DRILLING PROGRAM** | | | |
| **1.01** | **Execute Drilling Program** | 3.2.2, 3.3 | 2,000 - 3,000 m drill program utilizing rotary core rig focused on footwall and hanging wall of the deposit. | Program completed in Q3 2012. |
| **1.02** | **Core Logging** | 3.3 | Log and sample core in accordance to established methods. | Program completed in Q3 2012. |
| **1.03** | **Field Scale Geological Interpretation** | 3.3 | Utilizing new information obtained from drill logs, revise geological maps and cross-sections of the footwall and hanging wall of the deposit. | Rresults reported in 2013 and 2014 updates to the Waste Rock Management Plan. |
| **2.0** | **PREDICTIVE GEOCHEMICAL SAMPLING AND TESTING PROGRAMS** | | | |
| **2.01** | **Sampling** | 4.1, 4.5 | Systematic sampling of 2012 drill core of footwall and hanging wall based on established methods. | Program completed in Q3 2012. |
| **2.02** | **Static Testing** | 4.2, 4.5 | Static testing of select 2012 drill cores using established analytical methodologies. | Program completed in Q4 2012. |
| **2.03** | **Mineralogy** | 4.3, 4.5 | Detailed mineralogical characterization by R-XRD, optical microscopy, and SEM. | First phose of program completed in Q1 2013. Work still ongoing. |
| **2.04** | **PAG Segregation** | 4.5 | Ongoing synthesis of available data to assess importance and ability to segregate PAG materials. | Ongoing. |
| **2.05** | **Kinetic Testing - ongoing work** | 4.4 | Continuation of kinetic test initiated in May 2011. | Sellect humidity cells continue to run to present time. |
| **2.06** | **Kinetic Testing - from 2012 drill core** | 4.4, 4.5 | Continued expansion of laboratory kinetic test work program, | New humiidy cells selected and started in Q4 2014. |
| | | | Upgrade and ongoing sampling of lysimeters, monitoring wells, and seepage. | Program currently not active. Work to recommence once there is adequate development of waste rock storage area. |
| | | | Assess feasibility of field waste rock test piles. | Ongoing. |
| | | | If feasible, construct and sample test piles. | To be determined. |
| **3.0** | **WATER QUALITY PREDICTIONS - WASTE ROCK AND PIT** | | | |
| **3.01** | **Hydrology** | 5.4 | Collect additional hydrological data. | Hydrology station established near waste rock storage area to collect site specific data for the purpose of future water quality modeling. |
| **3.02** | **Source Terms** | 5.4 | Better quantify source terms for pit and waste rock models. | Ongoing. |
| **3.03** | **Proportion of PAG** | 5.4 | Better quantify proportion of PAG in waste rock pile and pit walls. | Ongoins. |
| **3.04** | **ARD On-Set Time** | 5.4 | Improve understanding of ARD on-set times. | Ongoing. |
| **3.05** | **Surface Areas and Permafrost** | 5.4 | Improve understanding of surface area scaling values, active zone thickness, and water infiltration into waste rock pile. Conduct thermal modeling of waste rock pile. | Work to commence once there is adequate development of waste rock storage area. |
| **3.06** | **Mineralogy** | 5.4 | Incorporate processes of metal sorption and solid phase precipitation behaviour. | Ongoing. |
| **4.0** | **REPORTING UPDATES** | | | |
| **4.01** | **Interim Waste Rock Geochemical Characterization Report** | 7.2 | Annual report updates that present latest results of geochemical characterization program including waste rock geochemistry, waste rock and pit water quality modeling , and related studies. Reports to be provided March 31 of each year. | Technical updates provided in QIA/NWB Annual Reports. |
| **4.02** | **Waste Rock Water Quality Modeling Report** | 7.2 | | Planned for 2016-2017 once there is sufficient data available. |
| **4.03** | **Open Pit Water Quality Modeling Report** | 7.2 | | Planned for 2016-2017 once there is sufficient data available. |

Note: Geological and geochemical testing program report originally presented in Appendix 3 of the April 2014 revision to the Life-of-Mine Waste Rock Management Plan.

**MEMO**


| | | | |
|---|---|---|---|
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**Subject** **Mary River Project**
**Review of 2014 Deposit 1 Mine Waste Rock ARD Testing Results**

## 1.0 INTRODUCTION

Baffinland Iron Mines Corporation (Baffinland) began producing iron ore at their Baffin Island Mary River Project (the Project) in September 2014. Amec Foster Wheeler Environment & Infrastructure, a division of Amec Foster Wheeler Americas Limited (Amec Foster Wheeler) has been retained by Baffinland to provide support in metal leaching/acid rock drainage (ML/ARD) characterization of waste rock for the Project. The objective of this memorandum is to provide a data review of ARD characterization results for mine waste rock produced during mining at Mary River Deposit 1 in 2014.

## 2.0 BACKGROUND

Waste rock for the overall Mary River project has been previously characterized for ML/ARD with documentation provided in AMEC (2014a). The characterization for the overall project was subsequently evaluated in the context of a revised initial five year mine plan established based on a lower iron ore production rate (AMEC 2014b). This work indicated that the Mary River Deposit 1 waste rock is characterized as having low neutralization potential (NP) and generally low acid potential (AP) based on a low sulphide content. It has been previously estimated that a total sulphur content of >0.25% was a strong predictor of potentially acid generating (PAG) material on the basis of a neutralization potential ratio (NP/AP) of <2.

Total sulphur has been identified as a good predictor of sulphide content for these materials. Subject to an on-going study, the modified Sobek NP has been identified as a more suitable estimate of NP than carbonate NP (CarbNP) due to the presence of iron carbonates in some materials and the generally low sulphide content and corresponding low sulphide oxidation rates in these materials.

Baffinland has implemented a waste rock screening program for PAG rock based on analysis of blast hole cuttings and on-site laboratory analysis of total sulphur. Total sulphur provides an estimate of the maximum potential acidity (MPA) of a sample. Total carbon is also determined in the analysis which can be used to estimate the carbonate content and CarbNP of the sample. However, as identified above CarbNP is not considered a good predictor of effective NP in the waste rock. A threshold of 0.2% total sulphur in blast hole cuttings has been set by Baffinland as an indicator of PAG rock. The on-site laboratory is operated by SGS. Selected samples have also

been analyzed for modified Sobek NP for periodic checks on the NP/MPA ratio of the tested material.

## 3.0 DATA REVIEW

Available 2014 blast hole cutting data for Deposit 1 waste rock provided by Baffinland is attached in Table 1. Based on review of the data the following is noted:

- A total of 161 blast hole cuttings samples of waste rock were analysed for total sulphur and total carbon;
- Only two of the samples exceeded a total sulphur concentration of 0.2% which has been identified as a strong indicator of potentially acid generating (PAG) waste rock;
- Total carbon content varies and has not been applied as an estimate of neutralization potential due to the presence of iron carbonates in some materials and the previous identification of the modified Sobek NP as a better estimate of NP in these low sulphide materials;
- Overall, the low sulphur content is consistent with previous studies confirming the low sulphide nature of the deposit;
- Selected samples were additionally analysed for modified Sobek NP in order to determine the PAG character on the basis of NP/MPA <2;
- A subset of the samples selected for modified Sobek NP have a calculated NP/MPA <2 including one sample with a sulphur content of 0.02%; and,
- These check samples are potentially identifying materials that do not fit well with the defined PAG threshold of 0.25% total sulphur.

Possibilities to explain the apparent inconsistency with the previously defined PAG sulphur threshold include:

- The current modified Sobek NP testing could be under predicting NP in comparison to previous studies;
- Some materials encountered in early operations that occur topographically higher in the pit could be geologically distinct and not well represented in the existing data set which was predominantly based on testing of samples from deeper (topographically lower) volumes of the deposit; or,
- The current sampling preferentially represents waste in closer proximity to ore than previous sampling, resulting in some iron formation zones being defined as waste.

## 4.0 REFERENCES

AMEC, 2014a. Mine Rock ML/ARD Characterization Report – Deposit 1, Mary River Project.

AMEC, 2014b. Mary River Deposit 1, 5-Year Pit ML/ARD Characterization.

**Attachment:**

Table 1 - Mary River Deposit 1 Open Pit Waste Rock Blast Hole Cuttings Results

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**ATTACHMENT**

Baffinland Iron Mines Corporation

**TABLE 1:**
**Mary River Deposit 1 Open Pit Waste Rock Blast Hole Cuttings Results**

| Sample Description and Identification | | | | | | | | | | ABA Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | Blast ID | Hole ID | Location | Easting | Northing | Elevation (masl) | Hole Depth (m) | Lithology | Class | Fizz Rating | C (%) | S (%) | NP ($tCaCO_3$/kt) | CarbNP ($tCaCO_3$/kt) | MPA ($tCaCO_3$/kt) | CarbNPR (CarbNP/MPA) | NPR (NP/MPA) |
| 2014 | N675001 | 45 | PIT | 563384.4 | 7914811.9 | 675.6 | 2.5 | Schist | WASTE | - | 0.04 | 0.01 | - | 3.3 | 0.31 | 11 | - |
| 2014 | N675001 | 48 | PIT | 563381.2 | 7914812.3 | 675.9 | 2.5 | Schist | WASTE | - | 0.04 | 0.02 | - | 3.3 | 0.63 | 5.3 | - |
| 2014 | N675001 | 49 | PIT | 563378.7 | 7914809.3 | 676.7 | 2.5 | Schist | WASTE | - | 0.01 | 0.01 | - | 0.8 | 0.31 | 2.7 | - |
| 2014 | N675001 | 53 | PIT | 563380.4 | 7914815.5 | 675.9 | 2.5 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675001 | 76 | PIT | 563374.5 | 7914813.1 | 677.0 | 2.5 | Schist | WASTE | - | 0.09 | < 0.01 | - | 7.5 | 0.31 | 24 | - |
| 2014 | N675001 | 201 | PIT | 563382.4 | 7914856.4 | 676.1 | 2.5 | Schist | WASTE | 1 | n.r. | 0.11 | 10 | - | 3.44 | - | 2.9 |
| 2014 | N675001 | 208 | PIT | 563366.7 | 7914842.5 | 675.8 | 2.5 | Schist | WASTE | 1 | 0.05 | 0.89 | 7 | 4.2 | 27.8 | 0.1 | 0.25 |
| 2014 | N675001 | 209 | PIT | 563369.3 | 7914845.4 | 675.6 | 2.5 | Schist | WASTE | 1 | 0.03 | 1.03 | 7 | 2.5 | 32.2 | 0.1 | 0.22 |
| 2014 | N675002 | 1003 | PIT | 563361.6 | 7914821.7 | 675.0 | 2.5 | Schist | WASTE | 1 | 0.02 | 0.06 | 2 | 1.7 | 1.88 | 0.9 | 1.1 |
| 2014 | N675003 | 75 | PIT | 563340.3 | 7914788.7 | 681.9 | 6.9 | Schist | WASTE | 1 | 0.02 | 0.06 | 2 | 1.7 | 1.88 | 0.9 | 1.1 |
| 2014 | N675004 | 23 | PIT | 563328.7 | 7914766.4 | 679.6 | 4.6 | Schist | WASTE | - | 0.04 | 0.03 | - | 3.3 | 0.94 | 3.6 | - |
| 2014 | N675004 | 57 | PIT | 563327.6 | 7914760.1 | 679.4 | 4.4 | Schist | WASTE | - | 0.04 | 0.01 | - | 3.3 | 0.31 | 11 | - |
| 2014 | N675004 | 58 | PIT | 563326.5 | 7914763.7 | 679.6 | 4.6 | Schist | WASTE | - | 0.09 | 0.01 | - | 7.5 | 0.31 | 24 | - |
| 2014 | N675004 | 60 | PIT | 563324.5 | 7914770.9 | 680.0 | 5.0 | Schist | WASTE | 1 | 0.08 | 0.17 | 3 | 6.7 | 5.31 | 1.3 | 0.56 |
| 2014 | N675004 | 139 | PIT | 563316.6 | 7914757.6 | 683.5 | 8.5 | Schist | WASTE | - | 0.06 | 0.02 | - | 5.0 | 0.63 | 8.0 | - |
| 2014 | N675005 | 10 | PIT | 563161.2 | 7914597.4 | 679.7 | 4.7 | Schist | WASTE | - | 0.32 | 0.05 | - | 26.7 | 1.56 | 17 | - |
| 2014 | N675005 | 38 | PIT | 563313.1 | 7914748.9 | 684.3 | 9.3 | Schist | WASTE | - | 0.10 | 0.03 | - | 8.3 | 0.94 | 8.9 | - |
| 2014 | N675005 | 40 | PIT | 563311.5 | 7914755.6 | 683.6 | 8.6 | Schist | WASTE | 1 | 0.05 | 0.02 | 1 | 4.2 | 0.63 | 6.7 | 1.6 |
| 2014 | N675005 | 41 | PIT | 563309.3 | 7914753.1 | 683.9 | 8.9 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675005 | 43 | PIT | 563311.2 | 7914746.0 | 684.9 | 9.9 | Schist | WASTE | - | 0.06 | 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675005 | 44 | PIT | 563312.0 | 7914742.3 | 685.1 | 10.1 | Schist | WASTE | - | 0.06 | 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675005 | 50 | PIT | 563317.3 | 7914720.9 | 678.8 | 3.8 | Schist | WASTE | - | 0.03 | 0.05 | - | 2.5 | 1.56 | 1.6 | - |
| 2014 | N675005 | 71 | PIT | 563315.6 | 7914717.2 | 678.9 | 3.9 | Schist | WASTE | - | 0.04 | 0.11 | - | 3.3 | 3.44 | 1.0 | - |
| 2014 | N675005 | 76 | PIT | 563310.5 | 7914736.2 | 685.4 | 10.4 | Schist | WASTE | - | 0.13 | 0.02 | - | 10.8 | 0.63 | 17 | - |
| 2014 | N675005 | 77 | PIT | 563309.2 | 7914739.4 | 685.4 | 10.4 | Schist | WASTE | - | 0.09 | 0.02 | - | 7.5 | 0.63 | 12 | - |
| 2014 | N675005 | 78 | PIT | 563308.9 | 7914744.1 | 685.4 | 10.4 | Schist | WASTE | - | 0.08 | 0.01 | - | 6.7 | 0.31 | 21 | - |
| 2014 | N675005 | 80 | PIT | 563307.1 | 7914750.6 | 684.5 | 9.5 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675005 | 82 | PIT | 563305.9 | 7914744.7 | 685.4 | 10.4 | Schist | WASTE | - | 0.11 | 0.01 | - | 9.2 | 0.31 | 29 | - |
| 2014 | N675005 | 83 | PIT | 563306.2 | 7914740.8 | 685.4 | 10.4 | Schist | WASTE | - | 0.10 | 0.03 | - | 8.3 | 0.94 | 8.9 | - |
| 2014 | N675005 | 84 | PIT | 563307.2 | 7914737.2 | 685.4 | 10.4 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675005 | 85 | PIT | 563308.3 | 7914733.8 | 685.4 | 10.4 | Schist | WASTE | - | 0.05 | 0.02 | - | 4.2 | 0.63 | 6.7 | - |
| 2014 | N675005 | 87 | PIT | 563310.8 | 7914725.8 | 681.3 | 6.3 | Schist | WASTE | - | 0.05 | 0.03 | - | 4.2 | 0.94 | 4.4 | - |
| 2014 | N675005 | 117 | PIT | 563305.2 | 7914734.6 | 685.4 | 10.4 | Schist | WASTE | - | 0.09 | 0.02 | - | 7.5 | 0.63 | 12 | - |
| 2014 | N675006 | 17 | PIT | 563159.3 | 7914599.5 | 679.0 | 4.0 | Schist | WASTE | 1 | 0.10 | 0.03 | 4 | 8.3 | 0.94 | 8.9 | 4.3 |
| 2014 | N675007 | 13 | PIT | 563171.8 | 7914581.5 | 683.0 | 8.0 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675007 | 21 | PIT | 563154.8 | 7914596.0 | 679.6 | 4.6 | Schist | WASTE | - | 0.23 | 0.02 | - | 19.2 | 0.63 | 31 | - |
| 2014 | N675007 | 22 | PIT | 563152.8 | 7914597.9 | 679.1 | 4.1 | Schist | WASTE | 1 | 0.38 | 0.03 | 4 | 31.7 | 0.94 | 34 | 4.3 |
| 2014 | N675007 | 23 | PIT | 563150.6 | 7914599.8 | 678.4 | 3.4 | Schist | WASTE | - | 0.07 | 0.02 | - | 5.8 | 0.63 | 9.3 | - |
| 2014 | N675007 | 24 | PIT | 563148.6 | 7914601.5 | 677.9 | 2.9 | Schist | WASTE | - | 0.07 | 0.02 | - | 5.8 | 0.63 | 9.3 | - |
| 2014 | N675007 | 25 | PIT | 563146.5 | 7914603.4 | 677.1 | 2.5 | Schist | WASTE | - | 0.08 | 0.13 | - | 6.7 | 4.06 | 1.6 | - |
| 2014 | N675007 | 26 | PIT | 563144.3 | 7914605.3 | 676.6 | 2.5 | Schist | WASTE | - | 0.02 | 0.01 | - | 1.7 | 0.31 | 5.3 | - |
| 2014 | N675007 | 27 | PIT | 563142.2 | 7914607.1 | 676.0 | 2.5 | Schist | WASTE | - | 0.03 | 0.01 | - | 2.5 | 0.31 | 8.0 | - |
| 2014 | N675007 | 28 | PIT | 563140.1 | 7914609.0 | 675.5 | 2.5 | Schist | WASTE | - | 0.03 | 0.02 | - | 2.5 | 0.63 | 4.0 | - |
| 2014 | N675007 | 31 | PIT | 563137.7 | 7914606.0 | 675.8 | 2.5 | Schist | WASTE | - | 0.12 | 0.01 | - | 10.0 | 0.31 | 32 | - |
| 2014 | N675007 | 32 | PIT | 563139.6 | 7914604.2 | 676.3 | 2.5 | Schist | WASTE | - | 0.08 | 0.01 | - | 6.7 | 0.31 | 21 | - |
| 2014 | N675007 | 33 | PIT | 563141.8 | 7914602.4 | 676.8 | 2.5 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675007 | 34 | PIT | 563143.9 | 7914600.3 | 677.2 | 2.5 | Schist | WASTE | - | 0.06 | 0.1 | - | 5.0 | 3.13 | 1.6 | - |
| 2014 | N675007 | 35 | PIT | 563146.1 | 7914598.7 | 677.6 | 2.6 | Schist | WASTE | - | 0.05 | 0.02 | - | 4.2 | 0.63 | 6.7 | - |
| 2014 | N675007 | 36 | PIT | 563148.2 | 7914596.9 | 678.3 | 3.3 | Schist | WASTE | - | 0.03 | 0.01 | - | 2.5 | 0.31 | 8.0 | - |
| 2014 | N675007 | 39 | PIT | 563319.1 | 7914715.9 | 679.1 | 4.1 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675007 | 64 | PIT | 563181.7 | 7914562.9 | 684.1 | 9.1 | Schist | WASTE | - | 0.05 | 0.02 | - | 4.2 | 0.63 | 6.7 | - |
| 2014 | N675007 | 65 | PIT | 563179.6 | 7914564.7 | 684.0 | 9.0 | Schist | WASTE | - | 0.04 | 0.01 | - | 3.3 | 0.31 | 11 | - |
| 2014 | N675007 | 77 | PIT | 563153.9 | 7914586.8 | 680.6 | 5.6 | Schist | WASTE | - | 0.03 | 0.01 | - | 2.5 | 0.31 | 8.0 | - |
| 2014 | N675007 | 78 | PIT | 563317.3 | 7914720.9 | 678.8 | 3.8 | Schist | WASTE | - | 0.01 | < 0.01 | - | 0.8 | 0.31 | 2.7 | - |
| 2014 | N675007 | 79 | PIT | 563150.0 | 7914590.5 | 679.3 | 4.3 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |

Baffinland Iron Mines Corporation

AMEC Foster Wheeler

**TABLE 1:**
**Mary River Deposit 1 Open Pit Waste Rock Blast Hole Cuttings Results**

| Sample Description and Identification | | | | | | | | | | ABA Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | Blast ID | Hole ID | Location | Easting | Northing | Elevation (masl) | Hole Depth (m) | Lithology | Class | Fizz Rating | C (%) | S (%) | NP ($tCaCO_3$/kt) | CarbNP ($tCaCO_3$/kt) | MPA ($tCaCO_3$/kt) | CarbNPR (CarbNP/MPA) | NPR (NP/MPA) |
| 2014 | N675007 | 80 | PIT | 563147.7 | 7914592.3 | 678.9 | 3.9 | Schist | WASTE | - | 0.12 | 0.02 | - | 10.0 | 0.63 | 16 | - |
| 2014 | N675007 | 81 | PIT | 563313.9 | 7914735.1 | 685.4 | 10.4 | Schist | WASTE | - | 0.07 | 0.01 | - | 5.8 | 0.31 | 19 | - |
| 2014 | N675007 | 82 | PIT | 563143.6 | 7914595.9 | 677.4 | 2.5 | Schist | WASTE | - | 0.06 | 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675007 | 83 | PIT | 563141.3 | 7914597.6 | 677.1 | 2.5 | Schist | WASTE | - | 0.04 | 0.01 | - | 3.3 | 0.31 | 11 | - |
| 2014 | N675007 | 84 | PIT | 563139.1 | 7914599.8 | 676.7 | 2.5 | Schist | WASTE | - | 0.03 | 0.01 | - | 2.5 | 0.31 | 8.0 | - |
| 2014 | N675007 | 85 | PIT | 563137.1 | 7914601.4 | 676.5 | 2.5 | Schist | WASTE | - | 0.06 | 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675007 | 86 | PIT | 563135.1 | 7914603.3 | 675.8 | 2.5 | Schist | WASTE | - | 0.07 | 0.02 | - | 5.8 | 0.63 | 9.3 | - |
| 2014 | N675007 | 89 | PIT | 563132.5 | 7914600.3 | 675.6 | 2.5 | Schist | WASTE | - | 0.01 | < 0.01 | - | 0.8 | 0.31 | 2.7 | - |
| 2014 | N675007 | 90 | PIT | 563134.5 | 7914598.4 | 676.3 | 2.5 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675007 | 91 | PIT | 563136.8 | 7914596.7 | 676.6 | 2.5 | Schist | WASTE | - | 0.02 | 0.01 | - | 1.7 | 0.31 | 5.3 | - |
| 2014 | N675007 | 92 | PIT | 563138.9 | 7914594.8 | 676.9 | 2.5 | Schist | WASTE | - | 0.07 | 0.02 | - | 5.8 | 0.63 | 9.3 | - |
| 2014 | N675007 | 93 | PIT | 563141.3 | 7914592.9 | 677.5 | 2.5 | Schist | WASTE | - | 0.06 | 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675007 | 94 | PIT | 563143.2 | 7914591.1 | 678.1 | 3.1 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675007 | 95 | PIT | 563145.2 | 7914589.4 | 678.8 | 3.8 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675007 | 96 | PIT | 563147.6 | 7914587.5 | 679.4 | 4.4 | Schist | WASTE | - | 0.03 | 0.01 | - | 2.5 | 0.31 | 8.0 | - |
| 2014 | N675007 | 97 | PIT | 563149.6 | 7914585.7 | 680.1 | 5.1 | Schist | WASTE | - | 0.05 | < 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675007 | 98 | PIT | 563319.5 | 7914712.5 | 679.3 | 4.3 | Schist | WASTE | - | 0.04 | 0.01 | - | 3.3 | 0.31 | 11 | - |
| 2014 | N675007 | 135 | PIT | 563316.0 | 7914727.5 | 680.5 | 5.5 | Schist | WASTE | - | 0.04 | 0.02 | - | 3.3 | 0.63 | 5.3 | - |
| 2014 | N675007 | 136 | PIT | 563147.6 | 7914583.4 | 679.9 | 4.9 | Schist | WASTE | - | 0.02 | 0.01 | - | 1.7 | 0.31 | 5.3 | - |
| 2014 | N675007 | 139 | PIT | 563281.3 | 7914685.3 | 678.1 | 3.1 | Schist | WASTE | - | 0.11 | 0.01 | - | 9.2 | 0.31 | 29 | - |
| 2014 | N675007 | 140 | PIT | 563139.3 | 7914590.5 | 677.3 | 2.5 | Schist | WASTE | - | 0.04 | 0.02 | - | 3.3 | 0.63 | 5.3 | - |
| 2014 | N675007 | 141 | PIT | 563136.9 | 7914592.5 | 676.7 | 2.5 | Schist | WASTE | - | 0.08 | 0.01 | - | 6.7 | 0.31 | 21 | - |
| 2014 | N675007 | 142 | PIT | 563134.9 | 7914594.3 | 676.3 | 2.5 | Schist | WASTE | - | 0.04 | 0.01 | - | 3.3 | 0.31 | 11 | - |
| 2014 | N675007 | 143 | PIT | 563132.9 | 7914596.3 | 675.9 | 2.5 | Schist | WASTE | - | 0.04 | < 0.01 | - | 3.3 | 0.31 | 11 | - |
| 2014 | N675007 | 144 | PIT | 563130.7 | 7914598.1 | 675.2 | 2.5 | Schist | WASTE | - | 0.15 | 0.01 | - | 12.5 | 0.31 | 40 | - |
| 2014 | N675007 | 146 | PIT | 563128.2 | 7914595.3 | 675.3 | 2.5 | Schist | WASTE | - | 0.08 | 0.01 | - | 6.7 | 0.31 | 21 | - |
| 2014 | N675007 | 147 | PIT | 563130.1 | 7914593.4 | 675.6 | 2.5 | Schist | WASTE | - | 0.02 | 0.01 | - | 1.7 | 0.31 | 5.3 | - |
| 2014 | N675007 | 148 | PIT | 563132.5 | 7914591.5 | 676.2 | 2.5 | Schist | WASTE | - | 0.03 | 0.01 | - | 2.5 | 0.31 | 8.0 | - |
| 2014 | N675007 | 149 | PIT | 563134.3 | 7914589.6 | 676.8 | 2.5 | Schist | WASTE | - | 0.03 | < 0.01 | - | 2.5 | 0.31 | 8.0 | - |
| 2014 | N675007 | 152 | PIT | 563140.9 | 7914584.3 | 678.2 | 3.2 | Schist | WASTE | - | 0.46 | < 0.01 | - | 38.3 | 0.31 | 123 | - |
| 2014 | N675007 | 153 | PIT | 563142.6 | 7914582.2 | 678.8 | 3.8 | Schist | WASTE | - | 0.03 | 0.02 | - | 2.5 | 0.63 | 4.0 | - |
| 2014 | N675007 | 154 | PIT | 563314.3 | 7914733.3 | 685.2 | 10.2 | Schist | WASTE | - | 0.05 | 0.02 | - | 4.2 | 0.63 | 6.7 | - |
| 2014 | N675007 | 155 | PIT | 563317.2 | 7914724.6 | 679.1 | 4.1 | Schist | WASTE | - | 0.03 | 0.02 | - | 2.5 | 0.63 | 4.0 | - |
| 2014 | N675007 | 161 | PIT | 563159.8 | 7914567.5 | 682.6 | 7.6 | Schist | WASTE | - | 0.06 | 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675007 | 191 | PIT | 563142.5 | 7914577.6 | 679.3 | 4.3 | Schist | WASTE | - | 0.04 | 0.01 | - | 3.3 | 0.31 | 11 | - |
| 2014 | N675007 | 192 | PIT | 563140.4 | 7914579.5 | 678.6 | 3.6 | Schist | WASTE | - | 0.04 | 0.01 | - | 3.3 | 0.31 | 11 | - |
| 2014 | N675007 | 193 | PIT | 563138.1 | 7914581.3 | 678.1 | 3.1 | Schist | WASTE | - | 0.22 | 0.01 | - | 18.3 | 0.31 | 59 | - |
| 2014 | N675007 | 194 | PIT | 563136.1 | 7914582.9 | 677.4 | 2.5 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675007 | 195 | PIT | 563134.1 | 7914584.6 | 677.1 | 2.5 | Schist | WASTE | - | 0.05 | 0.02 | - | 4.2 | 0.63 | 6.7 | - |
| 2014 | N675007 | 196 | PIT | 563131.7 | 7914586.7 | 676.5 | 2.5 | Schist | WASTE | - | 0.09 | 0.01 | - | 7.5 | 0.31 | 24 | - |
| 2014 | N675007 | 197 | PIT | 563127.8 | 7914590.4 | 675.5 | 2.5 | Schist | WASTE | - | 0.06 | 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675007 | 198 | PIT | 563127.8 | 7914590.2 | 675.6 | 2.5 | Schist | WASTE | - | 0.07 | 0.01 | - | 5.8 | 0.31 | 19 | - |
| 2014 | N675007 | 199 | PIT | 563125.8 | 7914592.2 | 675.0 | 2.5 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675007 | 200 | PIT | 563124.9 | 7914587.4 | 675.3 | 2.5 | Schist | WASTE | - | 0.09 | 0.01 | - | 7.5 | 0.31 | 24 | - |
| 2014 | N675007 | 201 | PIT | 563127.4 | 7914585.8 | 675.8 | 2.5 | Schist | WASTE | - | 0.09 | 0.01 | - | 7.5 | 0.31 | 24 | - |
| 2014 | N675007 | 202 | PIT | 563129.3 | 7914583.9 | 676.2 | 2.5 | Schist | WASTE | - | 0.06 | < 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675007 | 203 | PIT | 563131.7 | 7914582.1 | 677.0 | 2.5 | Schist | WASTE | - | 0.01 | < 0.01 | - | 0.8 | 0.31 | 2.7 | - |
| 2014 | N675007 | 204 | PIT | 563133.6 | 7914580.1 | 677.4 | 2.5 | Schist | WASTE | - | 0.06 | 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675007 | 205 | PIT | 563135.9 | 7914578.4 | 677.9 | 2.9 | Schist | WASTE | - | 0.07 | 0.02 | - | 5.8 | 0.63 | 9.3 | - |
| 2014 | N675007 | 206 | PIT | 563137.8 | 7914576.6 | 678.3 | 3.3 | Schist | WASTE | - | 0.07 | 0.01 | - | 5.8 | 0.31 | 19 | - |
| 2014 | N675007 | 207 | PIT | 563140.3 | 7914574.4 | 679.0 | 4.0 | Schist | WASTE | - | 0.02 | 0.02 | - | 1.7 | 0.63 | 2.7 | - |
| 2014 | N675008 | 18 | PIT | 563163.4 | 7914607.3 | 679.2 | 2.5 | Schist | WASTE | - | 0.23 | 0.01 | - | 19.2 | 0.31 | 61 | - |

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**TABLE 1:**
**Mary River Deposit 1 Open Pit Waste Rock Blast Hole Cuttings Results**

| Sample Description and Identification | | | | | | | | | | ABA Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | Blast ID | Hole ID | Location | Easting | Northing | Elevation (masl) | Hole Depth (m) | Lithology | Class | Fizz Rating | C (%) | S (%) | NP ($tCaCO_3$/kt) | CarbNP ($tCaCO_3$/kt) | MPA ($tCaCO_3$/kt) | CarbNPR (CarbNP/MPA) | NPR (NP/MPA) |
| 2014 | N675008 | 57 | PIT | 563122.7 | 7914573.8 | 675.4 | 2.5 | Schist | WASTE | - | 0.09 | 0.01 | - | 7.5 | 0.31 | 24 | - |
| 2014 | N675008 | 58 | PIT | 563125.4 | 7914571.5 | 676.0 | 2.5 | Schist | WASTE | - | 0.10 | 0.01 | - | 8.3 | 0.31 | 27 | - |
| 2014 | N675008 | 60 | PIT | 563131.4 | 7914566.5 | 677.6 | 2.6 | Schist | WASTE | - | 0.06 | 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675008 | 88 | PIT | 563126.5 | 7914566.8 | 676.6 | 2.5 | Schist | WASTE | - | 0.08 | 0.01 | - | 6.7 | 0.31 | 21 | - |
| 2014 | N675008 | 89 | PIT | 563123.8 | 7914569.1 | 675.9 | 2.5 | Schist | WASTE | - | 0.07 | 0.01 | - | 5.8 | 0.31 | 19 | - |
| 2014 | N675008 | 90 | PIT | 563120.9 | 7914571.4 | 675.2 | 2.5 | Schist | WASTE | - | 0.06 | 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675008 | 91 | PIT | 563119.0 | 7914569.5 | 674.9 | 2.5 | Schist | WASTE | - | 0.07 | 0.01 | - | 5.8 | 0.31 | 19 | - |
| 2014 | N675008 | 92 | PIT | 563121.7 | 7914566.9 | 675.7 | 2.5 | Schist | WASTE | - | 0.06 | < 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675008 | 93 | PIT | 563124.9 | 7914564.4 | 676.5 | 2.5 | Schist | WASTE | - | 0.07 | < 0.01 | - | 5.8 | 0.31 | 19 | - |
| 2014 | N675008 | 122 | PIT | 563122.9 | 7914562.5 | 676.0 | 2.5 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675008 | 123 | PIT | 563119.9 | 7914565.1 | 675.2 | 2.5 | Schist | WASTE | - | 0.08 | 0.01 | - | 6.7 | 0.31 | 21 | - |
| 2014 | N675008 | 124 | PIT | 563117.4 | 7914567.5 | 674.7 | 2.5 | Schist | WASTE | - | 0.10 | 0.01 | - | 8.3 | 0.31 | 27 | - |
| 2014 | N675008 | 125 | PIT | 563118.0 | 7914562.7 | 675.2 | 2.5 | Schist | WASTE | - | 0.11 | 0.01 | - | 9.2 | 0.31 | 29 | - |
| 2014 | N675008 | 126 | PIT | 563121.4 | 7914560.2 | 675.8 | 2.5 | Schist | WASTE | - | 0.11 | 0.01 | - | 9.2 | 0.31 | 29 | - |
| 2014 | N675008 | 155 | PIT | 563119.4 | 7914558.3 | 675.6 | 2.5 | Schist | WASTE | - | 0.09 | 0.01 | - | 7.5 | 0.31 | 24 | - |
| 2014 | N675008 | 156 | PIT | 563116.3 | 7914560.8 | 675.1 | 2.5 | Schist | WASTE | - | 0.09 | 0.01 | - | 7.5 | 0.31 | 24 | - |
| 2014 | N675008 | 157 | PIT | 563114.7 | 7914558.7 | 674.7 | 2.5 | Schist | WASTE | - | 0.10 | 0.01 | - | 8.3 | 0.31 | 27 | - |
| 2014 | N675008 | 158 | PIT | 563117.6 | 7914556.1 | 675.4 | 2.5 | Schist | WASTE | - | 0.05 | 0.01 | - | 4.2 | 0.31 | 13 | - |
| 2014 | N675008 | 161 | PIT | 563185.8 | 7914614.2 | 684.6 | 9.6 | Schist | WASTE | 1 | 0.06 | 0.02 | 2 | 5.0 | 0.63 | 8.0 | 3.2 |
| 2014 | N675008 | 186 | PIT | 563169.4 | 7914594.3 | 681.8 | 6.8 | Schist | WASTE | - | 0.08 | 0.01 | - | 6.7 | 0.31 | 21 | - |
| 2014 | N675008 | 187 | PIT | 563168.2 | 7914593.3 | 681.7 | 6.7 | Schist | WASTE | - | 0.06 | < 0.01 | - | 5.0 | 0.31 | 16 | - |
| 2014 | N675009 | 239 | PIT | 563302.5 | 7914670.5 | 679.5 | 4.5 | Schist | WASTE | - | 0.04 | 0.02 | - | 3.3 | 0.63 | 5.3 | - |
| 2014 | N675010 | 110 | PIT | 563123.7 | 7914514.6 | 681.2 | 6.2 | Schist | WASTE | - | 0.76 | 0.03 | - | 63.3 | 0.94 | 68 | - |
| 2014 | N675010 | 139 | PIT | 563117.4 | 7914515.3 | 679.2 | 4.2 | Schist | WASTE | - | 0.72 | 0.01 | - | 60.0 | 0.31 | 192 | - |
| 2014 | N675010 | 182 | PIT | 563126.3 | 7914541.4 | 677.6 | 2.6 | Schist | WASTE | - | 0.21 | 0.02 | - | 17.5 | 0.63 | 28 | - |
| 2014 | N675010 | 214 | PIT | 563114.4 | 7914539.7 | 675.3 | 2.5 | Schist | WASTE | 1 | n.r. | 0.13 | -2 | - | 4.06 | - | -0.49 |
| 2014 | N675010 | 219 | PIT | 563115.9 | 7914545.2 | 675.5 | 2.5 | Schist | WASTE | - | 0.09 | < 0.01 | - | 7.5 | 0.31 | 24 | - |
| 2014 | N675010 | 225 | PIT | 563115.3 | 7914548.5 | 675.6 | 2.5 | Schist | WASTE | - | 0.08 | < 0.01 | - | 6.7 | 0.31 | 21 | - |
| 2014 | N675010 | 226 | PIT | 563116.4 | 7914549.8 | 675.5 | 2.5 | Schist | WASTE | - | 0.17 | 0.01 | - | 14.2 | 0.31 | 45 | - |
| 2014 | N675010 | 227 | PIT | 563114.4 | 7914551.4 | 675.2 | 2.5 | Schist | WASTE | - | 0.07 | 0.01 | - | 5.8 | 0.31 | 19 | - |
| 2014 | N675014 | 311 | PIT | 563196.3 | 7914601.9 | 684.5 | 9.5 | Schist | WASTE | 1 | 0.07 | 0.06 | 3 | 5.8 | 1.88 | 3.1 | 1.6 |
| 2014 | N675PS003 | 4015 | PIT | 563241.2 | 7914677.5 | 685.0 | 10.0 | Schist | WASTE | - | 0.17 | 0.03 | - | 14.2 | 0.94 | 15 | - |
| 2014 | N675PS003 | 4022 | PIT | 563231.7 | 7914666.7 | 685.1 | 10.1 | Schist | WASTE | - | 0.09 | 0.04 | - | 7.5 | 1.25 | 6.0 | - |
| 2014 | N675PS003 | 4026 | PIT | 563226.8 | 7914660.8 | 684.7 | 9.7 | Schist | WASTE | - | 0.26 | 0.02 | - | 21.7 | 0.63 | 35 | - |
| 2014 | N675PS004 | 20 | PIT | 563189.7 | 7914618.4 | 684.5 | 9.5 | Schist | WASTE | - | 0.09 | 0.06 | - | 7.5 | 1.88 | 4.0 | - |
| 2014 | N675PS004 | 36 | PIT | 563174.0 | 7914600.2 | 683.2 | 8.2 | Schist | WASTE | - | 0.07 | 0.01 | - | 5.8 | 0.31 | 19 | - |
| 2014 | N685001 | 141 | PIT | 563262.5 | 7914710.6 | 687.7 | 2.7 | Schist | WASTE | - | 0.03 | 0.02 | - | 2.5 | 0.63 | 4.0 | - |
| 2014 | N685001 | 142 | PIT | 563264.3 | 7914713.4 | 687.4 | 2.5 | Schist | WASTE | - | 0.08 | 0.02 | - | 6.7 | 0.63 | 11 | - |
| 2014 | N685001 | 143 | PIT | 563266.4 | 7914715.8 | 687.1 | 2.5 | Schist | WASTE | - | 0.13 | 0.03 | - | 10.8 | 0.94 | 12 | - |
| 2014 | N685001 | 152 | PIT | 563269.8 | 7914723.7 | 686.1 | 2.5 | Schist | WASTE | - | 0.04 | 0.02 | - | 3.3 | 0.63 | 5.3 | - |
| 2014 | N685001 | 153 | PIT | 563267.3 | 7914720.9 | 686.5 | 2.5 | Schist | WASTE | - | 0.04 | 0.02 | - | 3.3 | 0.63 | 5.3 | - |
| 2014 | N685001 | 154 | PIT | 563265.8 | 7914718.5 | 686.8 | 2.5 | Schist | WASTE | - | 0.07 | 0.09 | - | 5.8 | 2.81 | 2.1 | - |
| 2014 | N685001 | 155 | PIT | 563263.6 | 7914716.1 | 687.3 | 2.5 | Schist | WASTE | - | 0.04 | 0.04 | - | 3.3 | 1.25 | 2.7 | - |
| 2014 | N685001 | 156 | PIT | 563261.5 | 7914713.4 | 687.5 | 2.5 | Schist | WASTE | - | 0.06 | 0.04 | - | 5.0 | 1.25 | 4.0 | - |
| 2014 | N685001 | 158 | PIT | 563260.9 | 7914716.0 | 687.5 | 2.5 | Schist | WASTE | - | 0.09 | 0.04 | - | 7.5 | 1.25 | 6.0 | - |
| 2014 | N685001 | 159 | PIT | 563262.1 | 7914719.1 | 687.0 | 2.5 | Schist | WASTE | - | 0.10 | 0.04 | - | 8.3 | 1.25 | 6.7 | - |
| 2014 | N685001 | 160 | PIT | 563264.6 | 7914721.4 | 686.7 | 2.5 | Schist | WASTE | - | 0.06 | 0.04 | - | 5.0 | 1.25 | 4.0 | - |
| 2014 | N685001 | 152D | PIT | 563269.8 | 7914723.7 | 686.1 | 2.5 | Schist | WASTE | - | 0.04 | 0.02 | - | 3.3 | 0.63 | 5.3 | - |
| 2014 | N685002 | 99 | PIT | 563261.5 | 7914700.6 | 689.8 | 4.8 | Schist | WASTE | - | 0.08 | 0.03 | - | 6.7 | 0.94 | 7.1 | - |
| 2014 | N685002 | 102 | PIT | 563263.0 | 7914705.8 | 689.4 | 4.4 | Schist | WASTE | - | 0.05 | 0.04 | - | 4.2 | 1.25 | 3.3 | - |
| 2014 | N685002 | 104 | PIT | 563258.6 | 7914700.7 | 689.6 | 4.6 | Schist | WASTE | - | 0.07 | 0.03 | - | 5.8 | 0.94 | 6.2 | - |
| 2014 | N685002 | 129 | PIT | 563256.0 | 7914700.9 | 689.1 | 4.1 | Schist | WASTE | - | 0.14 | 0.03 | - | 11.7 | 0.94 | 12 | - |
| 2014 | N685002 | 130 | PIT | 563258.1 | 7914703.4 | 688.6 | 3.6 | Schist | WASTE | - | 0.06 | 0.03 | - | 5.0 | 0.94 | 5.3 | - |
| 2014 | N685002 | 160 | PIT | 563251.6 | 7914704.4 | 688.7 | 3.7 | Schist | WASTE | - | 0.10 | 0.04 | - | 8.3 | 1.25 | 6.7 | - |

n.r.= not reported.

**MEMO**

| | | | |
|---|---|---|---|
| To | **Jim Millard (Baffinland)** | File no | **TC123908** |
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**Subject** **Mary River Project**
**Review and Recommendations for Existing Mine Rock Humidity Cell Program**

## 1.0 INTRODUCTION

Amec Foster Wheeler Environment & Infrastructure, a division of Amec Foster Wheeler Americas Limited (Amec Foster Wheeler) has been retained by Baffinland Iron Mines Corporation (Baffinland) to conduct ML/ARD characterization of mine rock for the Mary River Project. On-going studies in support of this project include humidity cell testing of selected mine rock samples. The objective of this technical memorandum is to provide a review of mine rock humidity cell results.

## 2.0 HUMIDITY CELL OVERVIEW

The mine rock humidity cell testing program includes 11 standard humidity cells and eight carbonate depleted cells (nineteen cells in total). Eight of the nineteen humidity cells have been terminated, as recommended by AMEC in June 2014. At that time, AMEC also recommended the initiation of two new standard humidity cells (16628 and 16634) to represent previously untested mineralized waste materials expected to be present in generally low tonnages. The operational status of all nineteen mine rock humidity cells is provided in Table 1. Previous documentation and analysis of mine rock humidity cell data is provided in the document *Mine Rock ML/ARD Geochemical Characterization Report – Deposit 1, Mary River Project* (AMEC 2014).

A representative set of samples were selected for humidity cell analysis based on the 2010 static testing program. The samples for humidity cell testing were selected primarily on the basis of refining the limits of PAG and non-PAG materials and to better understand the effectiveness of non-carbonate NP in limiting ARD. The samples are well distributed spatially across the deposit and covered a range of metal contents. The representativity of the humidity cells in relation to AP, NP and metal contents are provided graphically in Appendix A.

### 2.1 Standard Humidity Cells

The purpose of testing using standard humidity cells (herein referred to as ‘humidity cells’) was to assess the ARD on-set time of PAG samples with different ranges of AP and NP contents. A second objective was to more carefully assess the threshold between PAG and non-PAG materials, which have been defined only on the basis of ABA static testing and assuming all materials with an NPR of <2 are PAG. Humidity cell testing of materials with an NPR between

1 and 2 may provide better information on what the appropriate NPR threshold to segregate acid generating from non-acid generating rock will be and how effective categorization of PAG and non-PAG on the basis of NP is for these generally low sulphide oxidation rate and low NP materials.

A humidity cell program was previously conducted for 53 weeks on ten rock samples from the Mary River project in early 2008 (Knight Piésold, 2008). Five of the samples each represented a single lithology, while the others were of mixed lithology or consisted of composites of two or more lithologies. In addition, one of the samples had a sulphide content of 5% which is considered high for mine rock at the project site.

The current standard humidity cell testing program was initiated in May 2011. Selection of samples was primarily focused on the three main lithologies (gneiss, schist and volcanic tuff) and covered a range of sulphide and metals content. An upper sulphide content limit of around 1% was considered to be representative of most of the PAG rocks based on available ABA data. Representative rock samples with NPR less than 2 were selected from the major hanging wall and footwall lithologies. Several non-PAG samples (NPR >2) have also been included to provide information on the broader range of rock compositions expected in the future mine rock stockpile.

Static test results for the humidity cell samples are presented in Table 2. Nine rock samples representing major lithologies of hanging wall and footwall rock were selected for humidity cell testing based on the waste subdivisions available at the time. Samples have since been categorized according to updated waste type subdivisions (FW, FWS, HW, HWS, IW – see AMEC 2014). A single sample of magnetite dominant ore was also included in the program.

## 2.2 Neutralization Potential Depleted Humidity Cells

The results of ABA testing on the Mary River Deposit No.1 samples indicated that the carbonate NP of the samples was generally lower compared to the modified Sobek NP. A significant number of samples (approximately 76%) had carbonate NP that was 20% or less than the Sobek NP. These results suggest silicate minerals as the long-term source of NP when the carbonate minerals are exhausted. Silicate minerals are able to buffer the mine waste pH at near neutral conditions under low acid generation rates (Mattson, 2009; Miller et al., 2010); however, effectiveness of silicate NP is dependent on the material and particularly the specific minerals present, and sulphide reaction rates.

To test the effectiveness of silicate NP specialized carbonate NP-depleted humidity cells were initiated in September 2011. These cells are being operated to assess the drainage chemistry of mine rock devoid of carbonate neutralization capacity. Samples were subjected to a sodium acetate leach prior to placement in the cells in order to dissolve carbonate minerals prior to testing.

Eight samples from the major lithologies (gneiss, schist and volcanic tuff) were selected for the NP-depleted humidity cells (Table 2).

### 2.3 Mineralized Waste Humidity Cells

In 2014, Amec Foster Wheeler initiated two additional humidity cells representing mineralized waste; one typical banded iron formation mine rock sample and one typical high grade iron formation mine rock sample. These were initiated to better assess the possible future impact of these previously untested, low tonnage materials (expected to make up less than 1% of the mine rock).

## 3.0 RESULTS AND ANALYSIS

A summary of ABA and key metal characteristics (Cu, Ni and Zn) for each cell are provided in Table 2. Summary static data for the cells and statistical distribution of the cells in comparison to the range of selected ABA and metals data are provided in Appendix A. Humidity cell data plots for the nineteen cells are presented in Appendix B.

Overall, the humidity cell results continue to confirm a protracted period of generally neutral pH (with a few exceptions) over the duration of testing (now at over 3.5 years of operation) indicating that PAG mine rock is expected to exhibit a long lag time to acid on-set even in the absence of neutralization capacity from carbonates.

### 3.1 Hanging wall and Footwall Humidity Cells

Based on 170 to 190 weeks of data for standard humidity cells and 150 to 180 weeks for NP depleted humidity cells the following observations are made regarding the hanging wall and footwall humidity cells:

- The pH of all humidity cells exhibited a generally steady trend or exhibited a slight decline over test duration;
- The pH of most cells were in the range of pH 5.5 to 7;
- A single low sulphide (0.06% sulphide) NP depleted cell (MRARD10-82) exhibited a fairly steady pH of around 5 over the duration of testing. This cell may be of very low reactivity and could be responding to the weakly acidic pH of the DI water used to flush the humidity cells;
- Three cells exhibited slowly declining pH throughout testing reaching a minimum measured weakly acidic pH between 4.5 and 5 after between 1 and 3 years of operation. The cell (5178) that reached the lowest pH within the first year of operation contained the highest sulphide content (0.9%) of all of the humidity cells;
- Sulphate release rates for most cells generally declined in the first 20 weeks of operation and subsequently exhibited a stable trend or continued to steadily decline at a slower rate;
- A few cells have indicated a possible slight increasing trend in sulphate release after 100 weeks of operation;

- Sulphate release rate weakly correlates to sulphide content;
- The highest steady sulphate release rates are relatively low in the range of 6 to 20 mg/kg/wk which corresponds to humidity cells with 0.2 to 1.0 % sulphide;
- The rest of the humidity cells, including a cell with a sulphide content of 0.6%, exhibited sulphate release rates of less than 3 mg/kg/wk;
- A single humidity cell at approximately 150 weeks of operation (MRARD10-051) exhibited a spurious spike in sulphate and associated metals release (especially Fe). This is inferred to represent sudden activation of a minute sulphide grain (e.g. 0.5 mg as pyrite) in this cell at that time;
- The ratio $(Ca+Mg)/SO_4$ for most humidity cells is in the range of 1 to 2, which is suggestive of sulphide oxidation and neutralization by carbonate dissolution; however, the cells are known to be largely or fully carbonate depleted and therefore the Ca and Mg in this case is inferred to originate from the dissolution of non-carbonate minerals.
- The non-carbonate related dissolution in the majority of cells is further confirmed by inspection of the Mg/Ca (molar) ratio which confirms Mg in excess of Ca on a molar basis which would generally not be the case for carbonate dissolution;
- One cell (5171) with low but relatively elevated carbonate NP for the test materials (2.8 kg $CaCO_3$/t) notably has a steady $(Ca+Mg)/SO_4$ ratio of 3 suggesting sulphide oxidation is low enough that a significant component of the carbonate NP is being depleted by the DI water flush alone;
- For all cells except those with pH <5, 12 elements (Ag, Al, As, Be, Bi, Cr, Li, Pb, Sb, Tl, W and Zn) had leachate concentrations that were generally at or near detection; and,
- Metal release rates are generally the highest in the lower pH humidity cells with notable release rates for Cd, Co, Cu, Ni, Pb and Zn in cells MRARD10-055 and 5178 which also contain near worst case solid concentrations for these metals in Deposit 1 mine rock;

### 3.2 Mineralized Waste Humidity Cells

Based on 21 weeks of data for the mineralized waste humidity cells the following observations are provided:

- The pH of the banded iron formation humidity cell was weakly acidic at between pH 4.2 and pH 4.8 and generally steady or possibly declining slightly over the test period;
- The pH of the high grade iron formation mine rock cell was generally steady and circum-neutral between pH 6 and 7 over the test period;

- Sulphate release rates were in the range of 30 mg/kg/wk and declining in both cells over the duration of testing;

Metal release rates are higher for the low pH banded iron formation cell as expected; however, in general steady state release rates have not been achieved for either cell and therefore the data will be reviewed again after 40 weeks and assessed further at that time.

## 4.0 REFERENCES

AMEC, 2014. Mine Rock ML/ARD Characterization Report – Deposit 1, Mary River Project.

Knight Piésold. 2008. Baffinland Iron Mines Corporation, Mary River Project Environmental Characterization of Deposit No.1 Waste Rock, Ore & Construction Material. Ref. No. NB102-00181/11-7. Draft Report, Prepared for Baffinland Ion Mines Corporation.

Matson. 2009. Assessing the Availability and Source of Non-carbonate Neutralization Potential by Pre-treatment of Kinetic Test Samples. Proceeding 8th International Conference Acid Rock Drainage (ICARD). June 2009. Skellefteå. Sweden. http://www.proceedings-stfandicard-2009.com/

Miller, S.D. Stewart, S.W. Rusdinar, Y. Schuman. et al. 2010. Methods for Estimation of Long-Term Non-Carbonate Neutralization of Acid Rock Drainage. Science of the total Environment 408, pp. 2129-2135.

**Tables:**

Table 1 – Mine Rock Humidity Cell Operational Status
Table 2 – Mine Rock Humidity Cell Static Data

**Appendices**

Appendix A – Mine Rock Humidity Cell Static Data Plots
- Static Data ABA Plots
- Static Data Cumulative Frequency Plots

Appendix B – Mine Rock Humidity Cell Results
- Hanging Wall Humidity Cell Plots
- Footwall Humidity Cell Plots
- Mineralized Waste Humidity Cell Plots

# TABLES

Baffinland Iron Mines Corporation

amec foster wheeler

**TABLE 1:**
**Mine Rock Humidity Cell Operational Status**

| Humidity Cell | Type | Lithology | Weeks in Operation | Status |
|---|---|---|---|---|
| 5171 | Standard HC | FW-Metasediment | 191 | Ongoing |
| 5178 | Standard HC | FW-Schist | 194 | Ongoing |
| MRARD 10-030 | Standard HC | FW-Gneiss | 194 | Ongoing |
| MRARD 10-055 | Standard HC | FWS-Gneiss | 194 | Ongoing |
| MRARD 10-074 | Standard HC | FWS-Gneiss | 194 | Ongoing |
| MRARD 10-080 | Standard HC | HWS-Volcanic Tuff | 170 | Terminated |
| MRARD 10-092 | Standard HC | HWS-Schist | 194 | Ongoing |
| MRARD 10-105 | Standard HC | HWS-Volcanic Tuff | 170 | Terminated |
| MRARD 10-120 | Standard HC | OZ-Schist | 170 | Terminated |
| 16628 | Standard HC | HWS - High Grade Iron Formation | 21 | Ongoing |
| 16634 | Standard HC | Internal Waste - Banded Iron Formation | 21 | Ongoing |
| 5172 | NP Depleted HC | FW-Metasediment | 154 | Terminated |
| 5174 | NP Depleted HC | FW-Gniess | 154 | Terminated |
| MRARD10-026 | NP Depleted HC | HWS-Schist | 178 | Ongoing |
| MRARD10-048 | NP Depleted HC | FW-Schist | 178 | Ongoing |
| MRARD10-051 | NP Depleted HC | HWS-Volcanic Tuff | 154 | Terminated |
| MRARD10-057 | NP Depleted HC | FWS-Gniess | 154 | Terminated |
| MRARD10-082 | NP Depleted HC | HW-Volcanic Tuff | 178 | Ongoing |
| MRARD10-123 | NP Depleted HC | FWS-Gniess | 154 | Terminated |

Baffinland Iron Mines Corporation

**TABLE 2:**
**Mine Rock Humidity Cell Static Data**

| Sample ID | Borehole ID | Waste Classification | Lithology | Humidity Cell Type | Total Sulphur | Sulphide | AP* | NP | CarbNP** | Non CarbNP | Non CarbNP | NPR | CarbNPR | Cu | Ni | Zn | Cu | Ni | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | % | | kg $CaCO_3$/t | | | | % | | | ppm | | | Percentile of All Data | | |
| MRARD10-055 | MR1-08-159 | Footwall Schist | Gniess | Standard | 0.36 | 0.29 | 9.1 | 9.6 | 0.083 | 9.5 | 99 | 1.1 | 0.055 | 30 | 50 | 722 | 0.60 | 0.60 | 1.00 |
| MRARD10-057 | MR1-08-161 | Footwall Schist | Gniess | NP Depleted[1] | 0.19 | 0.05 | 1.5 | 15 | 0.083 | 14.9 | 99 | 10 | 1.3 | 29 | 15 | 24 | 0.59 | 0.30 | 0.26 |
| MRARD10-074 | MR1-08-149 | Footwall Schist | Gniess | Standard | 0.66 | 0.58 | 18 | 8.0 | 1.6 | 6.4 | 80 | 0.44 | 0.087 | 22 | 37 | 32 | 0.51 | 0.53 | 0.39 |
| MRARD10-123 | MR1-08-155 | Footwall Schist | Gniess | NP Depleted[1] | 0.42 | 0.27 | 8 | 21 | 0.083 | 21 | 100 | 2.5 | 0.18 | 31 | 6.0 | 21 | 0.62 | 0.08 | 0.21 |
| MRARD10-048 | MR1-08-163 | Footwall Schist | Schist | NP Depleted[1] | 0.19 | 0.11 | 3.3 | 5 | 0.083 | 5.3 | 98 | 1.6 | 1.0 | 48 | 130 | 42 | 0.73 | 0.83 | 0.53 |
| 5174 | ARD-2B-NW | Footwall Waste | Gniess | NP Depleted[1] | 0.061 | 0.011 | 0.3 | 4.2 | 0.083 | 4.1 | 98 | 12 | 5.1 | 17 | 5.7 | 30 | 0.44 | 0.08 | 0.35 |
| MRARD10-030 | MR1-09-170 | Footwall Waste | Gniess | Standard | 0.27 | 0.19 | 5.9 | 12 | 0.83 | 11.4 | 93 | 2.1 | 0.21 | 5.8 | 46 | 14 | 0.19 | 0.58 | 0.11 |
| 5171 | ARD-2A-SE | Footwall Waste | Metasediment | Standard | 0.40 | 0.23 | 7.2 | 9.0 | 2.8 | 6.2 | 69 | 1.3 | 0.63 | 92 | 4.0 | 26 | 0.86 | 0.02 | 0.28 |
| 5172 | ARD-2A-SE | Footwall Waste | Metasediment | NP Depleted[1] | 0.12 | 0.015 | 0.5 | 6 | 0.083 | 5.6 | 99 | 12 | 5.0 | 43 | 5.1 | 17 | 0.70 | 0.06 | 0.16 |
| 5178 | ARD-2B-NW | Footwall Waste | Schist | Standard | 1.5 | 0.91 | 28 | 23 | 1.5 | 21.1 | 93 | 0.79 | 0.053 | 67 | 620 | 100 | 0.80 | 0.99 | 0.94 |
| MRARD10-026 | MR1-09-173 | Hanging Wall Schist | Schist | NP Depleted[1] | 0.67 | 0.21 | 6.6 | 14 | 0.083 | 13.9 | 99 | 2.1 | 0.38 | 33 | 110 | 51 | 0.64 | 0.77 | 0.67 |
| MRARD10-092 | MR1-08-142 | Hanging Wall Schist | Schist | Standard | 0.59 | 0.31 | 9.7 | 23 | 0.083 | 23.3 | 100 | 2.4 | 0.052 | 2.3 | 45 | 30 | 0.07 | 0.58 | 0.35 |
| MRARD10-051 | MR1-08-158 | Hanging Wall Schist | Volcanic Tuff | NP Depleted[1] | 0.65 | 0.39 | 12.2 | 14 | 0.083 | 13.9 | 99 | 1.1 | 0.27 | 98 | 48 | 38 | 0.88 | 0.59 | 0.46 |
| MRARD10-080 | MR1-08-149 | Hanging Wall Schist | Volcanic Tuff | Standard | 1.3 | 1.0 | 31 | 20 | 0.13 | 20.2 | 99 | 0.65 | 0.024 | 8.8 | 46 | 12 | 0.28 | 0.58 | 0.08 |
| MRARD10-105 | MR1-08-141 | Hanging Wall Schist | Volcanic Tuff | Standard | 0.87 | 0.61 | 19 | 16 | 1.3 | 14.4 | 92 | 0.82 | 0.28 | 9.4 | 6.9 | 9.4 | 0.30 | 0.11 | 0.06 |
| MRARD10-082 | MR1-08-150 | Hanging Wall Waste | Volcanic Tuff | NP Depleted[1] | 0.12 | 0.06 | 1.7 | 7 | 0.83 | 5.8 | 87 | 3.8 | 1.6 | 7.7 | 6.8 | 3.8 | 0.25 | 0.11 | 0.01 |
| MRARD10-120 | MR1-08-148 | Ore Zone | Iron Formation | Standard | 0.46 | 0.30 | 9.4 | 5.6 | 1.1 | 4.5 | 81 | 0.60 | 0.12 | 4.5 | 20 | 9.9 | 0.14 | 0.37 | 0.07 |
| 16634 | MR1 08 159 | Mineralized Waste | Banded Iron Formation | Standard | 0.53 | 0.50 | 16 | 6.2 | 0.42 | 5.8 | 93 | 0.40 | 0.037 | 23 | 6.3 | 7.8 | 0.52 (0.71 **[2]**) | 0.091 (0.33 **[2]**) | 0.042 (0.57 **[2]**) |
| 16628 | MR1 08 154 | Mineralized Waste | High Grade Iron Formation | Standard | 0.97 | 0.88 | 28 | 13 | 12 | 1.0 | 7.3 | 0.48 | 0.45 | 56 | 16 | 6.2 | 0.77 (0.72 **[2]**) | 0.32 (0.45 **[2]**) | 0.023 (0.09 **[2]**) |

* Calculated from sulphide sulphur

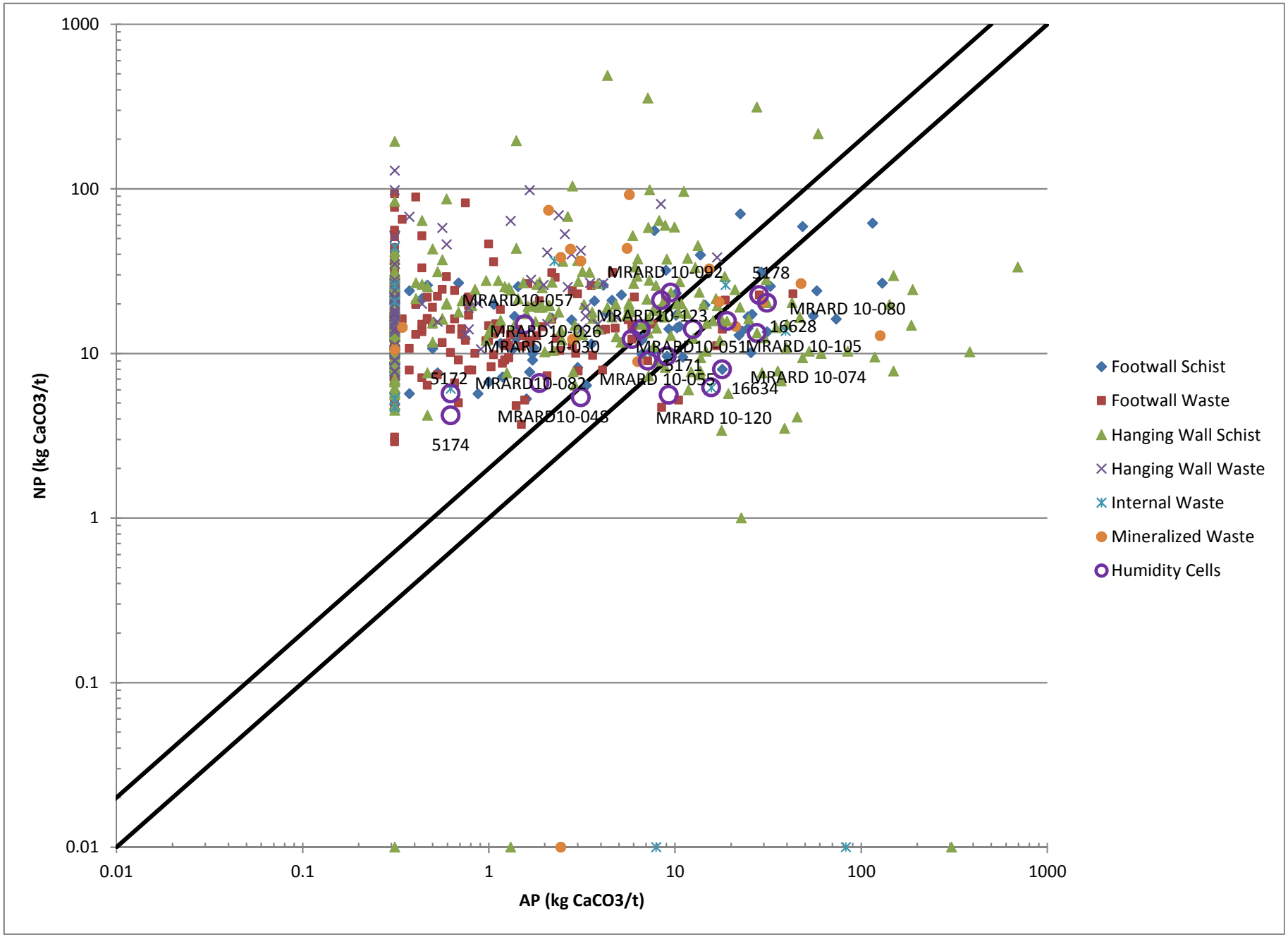
**Calculated from minimum between total carbon and carbonate carbon

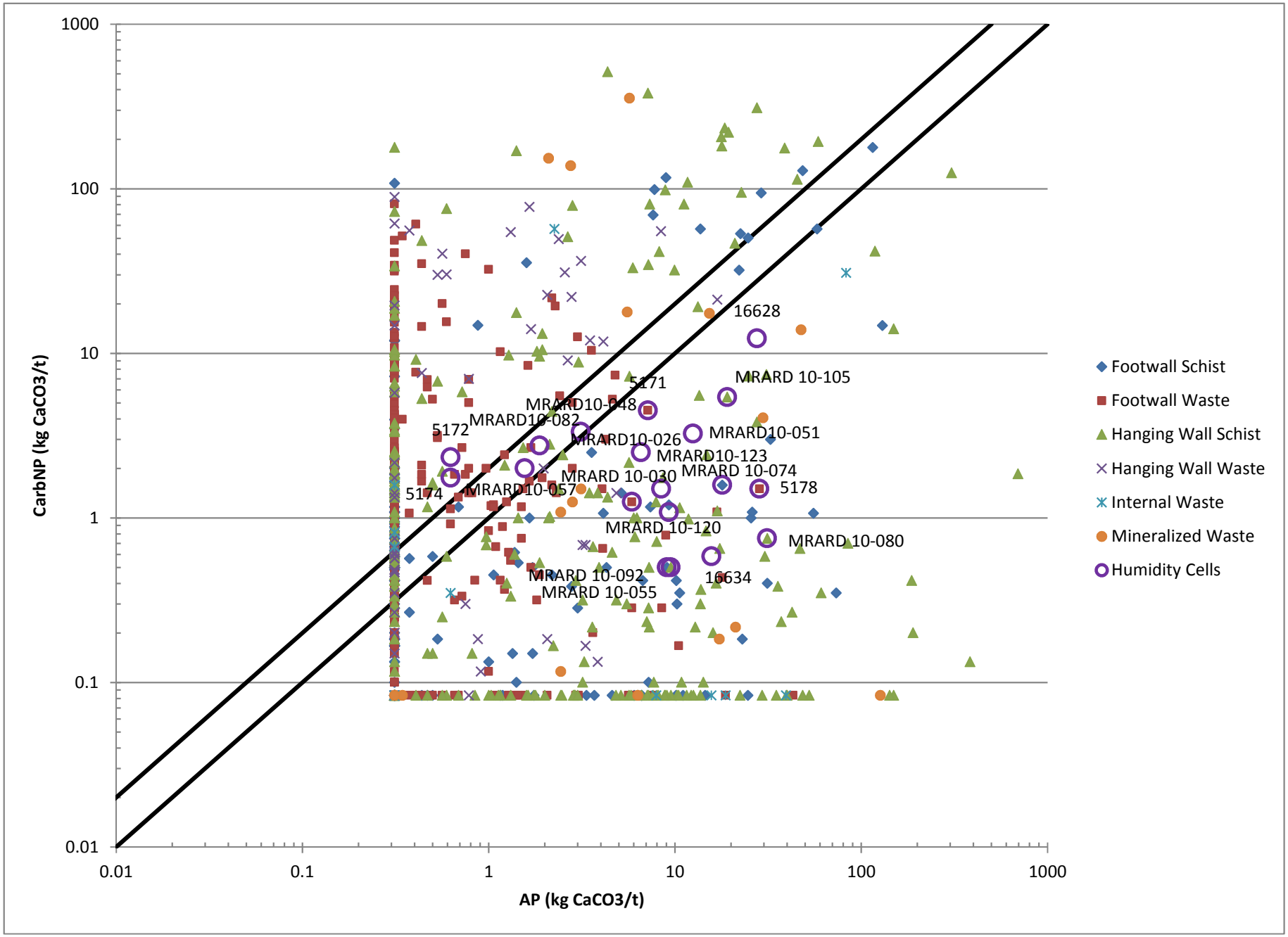
**[1]** Post Depletion values used for ABA Data

**[2]** Percentile of specific lithology

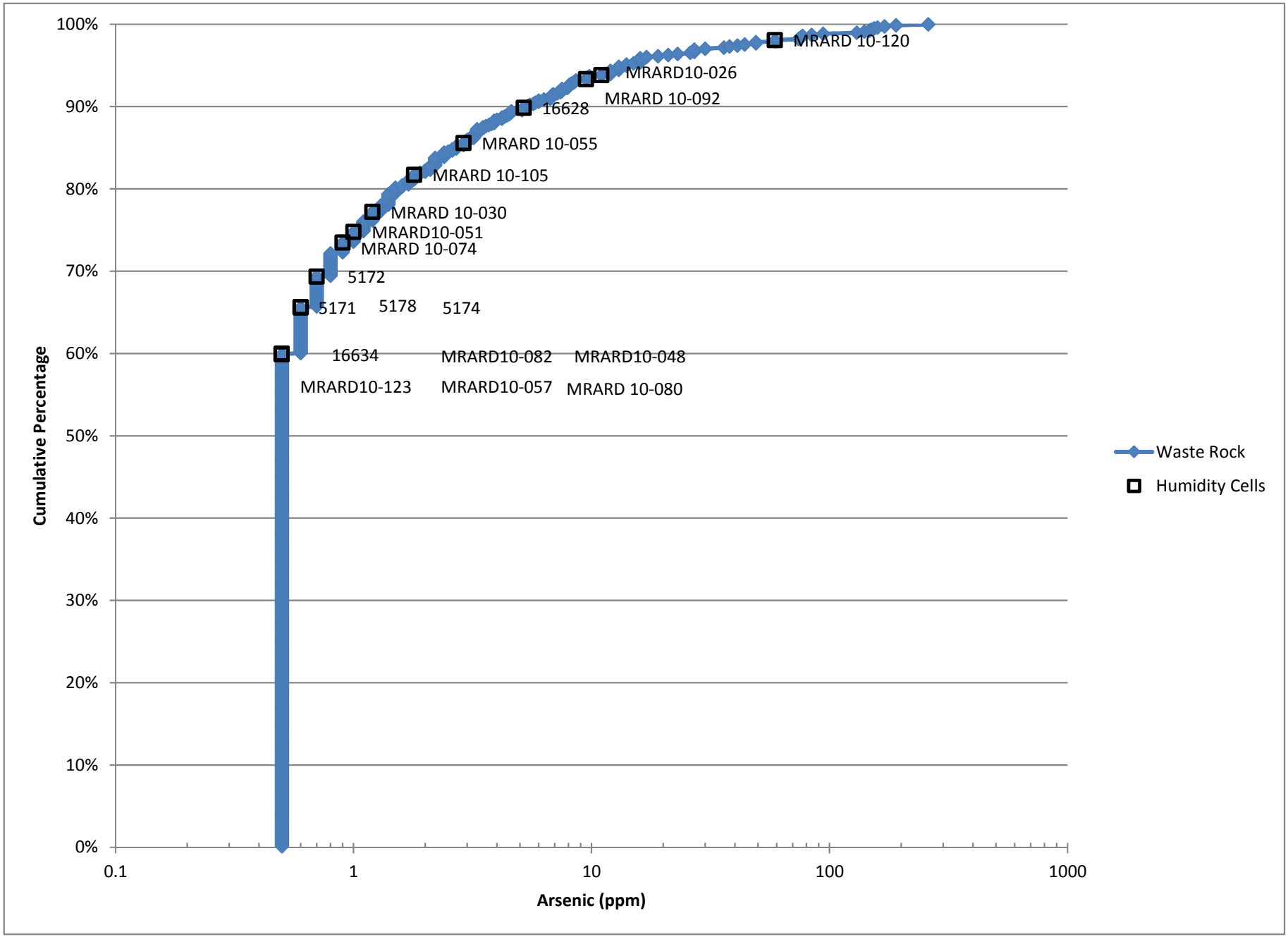
# APPENDIX A
# Mine Rock Humidity Cell Static Data Plots

**Static Data ABA Plots**


1000
100
10
1
0.1
0.01
NP (kg CaCO3/t)
0.01
0.1
1
10
100
1000
AP (kg CaCO3/t)
MRARD 10-092
5178
MRARD10-057
MRARD10-123
MRARD 10-080
MRARD10-026
16628
MRARD 10-030
MRARD10-051
MRARD 10-105
5171
5172
MRARD10-082
MRARD 10-055
MRARD 10-074
16634
MRARD10-045
MRARD 10-120
5174
Footwall Schist
Footwall Waste
Hanging Wall Schist
Hanging Wall Waste
Internal Waste
Mineralized Waste
Humidity Cells


1000
100
10
1
0.1
0.01
CarbNP (kg CaCO3/t)
0.01
0.1
1
10
100
1000
AP (kg CaCO3/t)
16628
MRARD 10-105
5171
MRARD10-048
MRARD10-082
5172
MRARD10-026
MRARD10-051
MRARD10-123
MRARD 10-030
MRARD 10-074
5174
MRARD10-057
5178
MRARD 10-120
MRARD 10-080
MRARD 10-092
16634
MRARD 10-055
Footwall Schist
Footwall Waste
Hanging Wall Schist
Hanging Wall Waste
Internal Waste
Mineralized Waste
Humidity Cells

**Static Data Cumulative Frequency Plots**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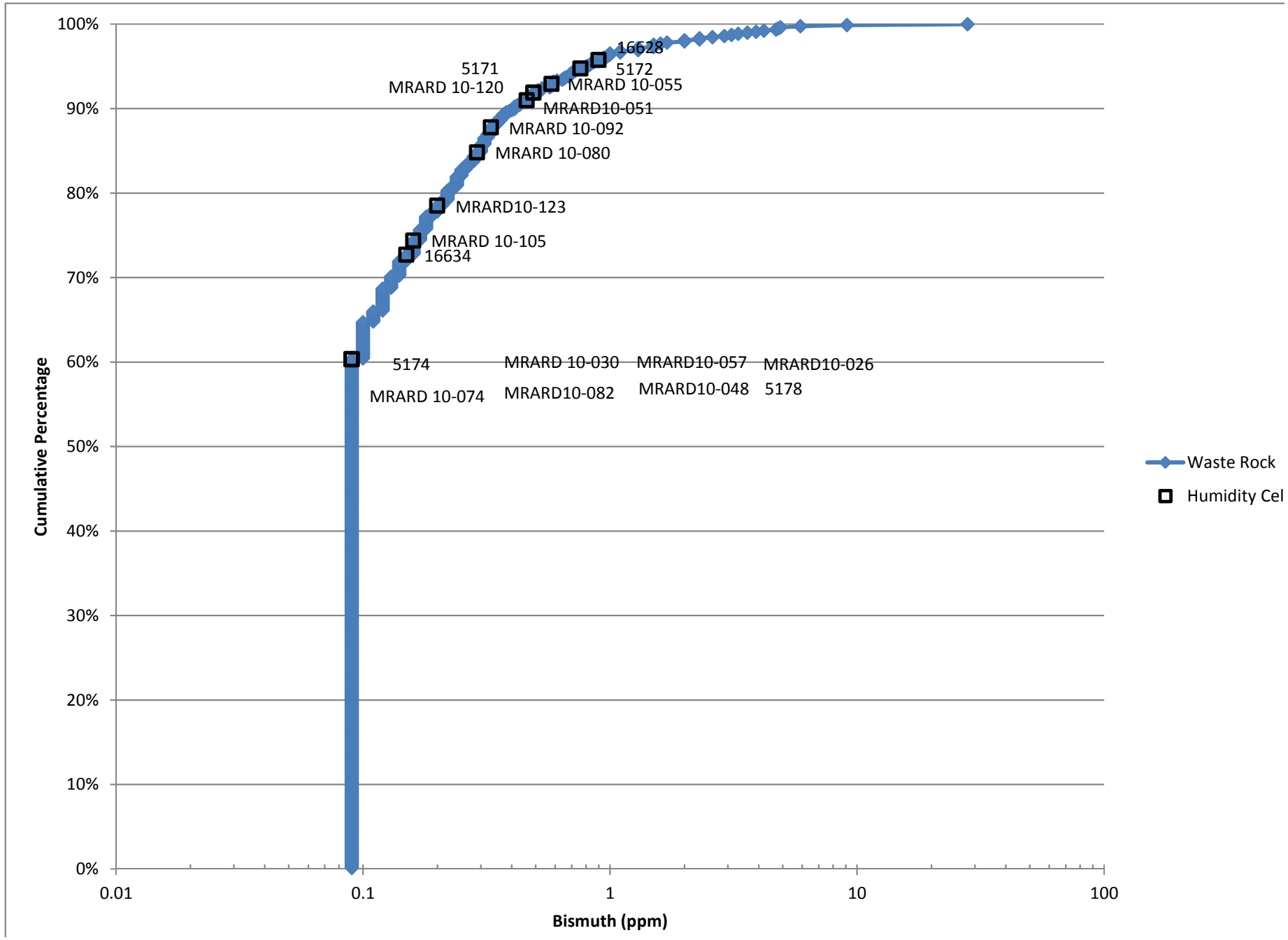
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
0.1
1
10
100
1000
Arsenic (ppm)
MRARD 10-120
MRARD10-026
MRARD 10-092
16628
MRARD 10-055
MRARD 10-105
MRARD 10-030
MRARD10-051
MRARD 10-074
5172
5171
5178
5174
16634
MRARD10-082
MRARD10-048
MRARD10-123
MRARD10-057
MRARD 10-080
Waste Rock
Humidity Cells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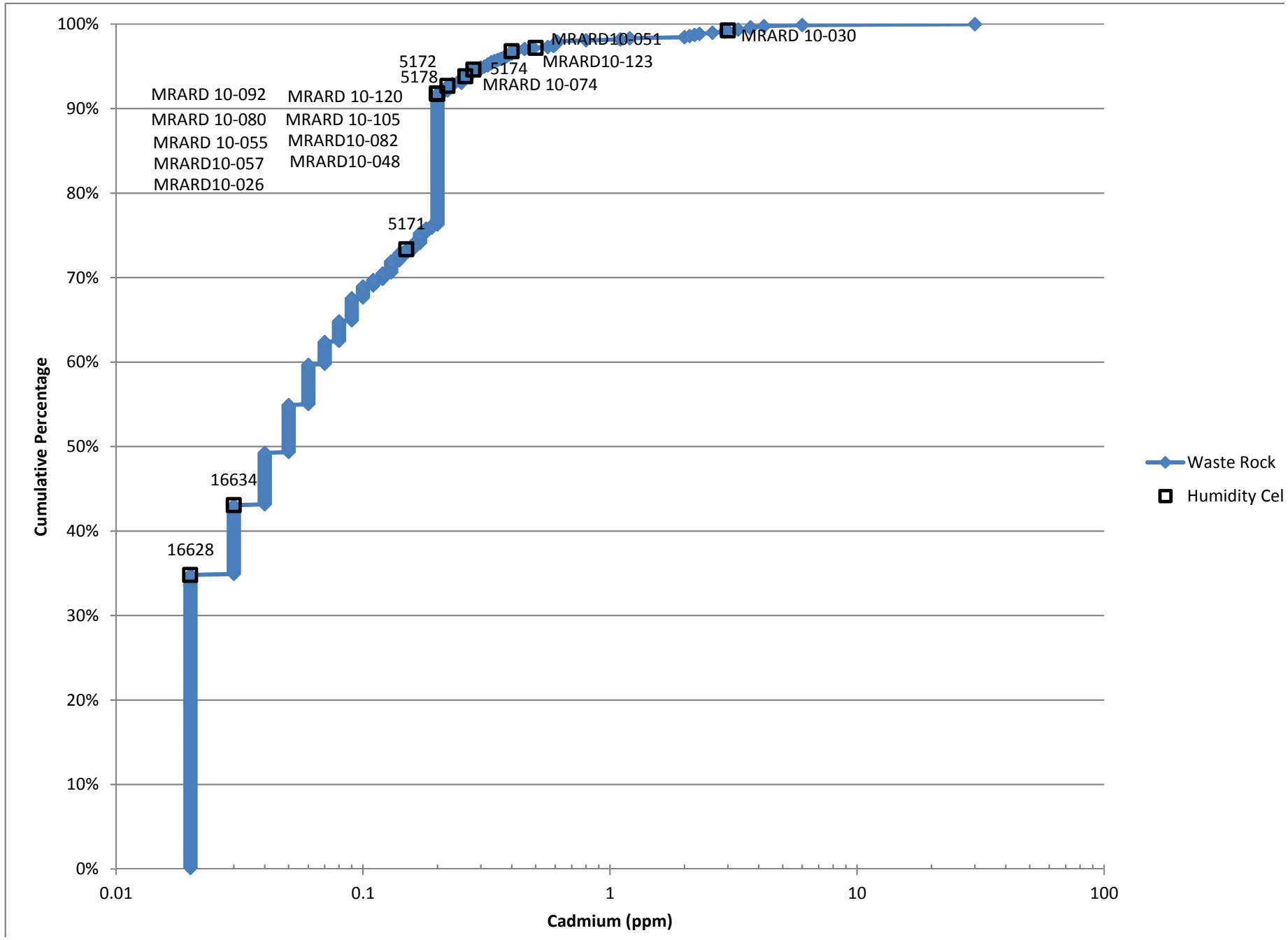
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
0.01
0.1
1
10
100
Bismuth (ppm)
16628
5171
5172
MRARD 10-120
MRARD 10-055
MRARD10-051
MRARD 10-092
MRARD 10-080
MRARD10-123
MRARD 10-105
16634
5174
MRARD 10-030
MRARD10-057
MRARD10-026
MRARD 10-074
MRARD10-082
MRARD10-048
5178
Waste Rock
Humidity Cel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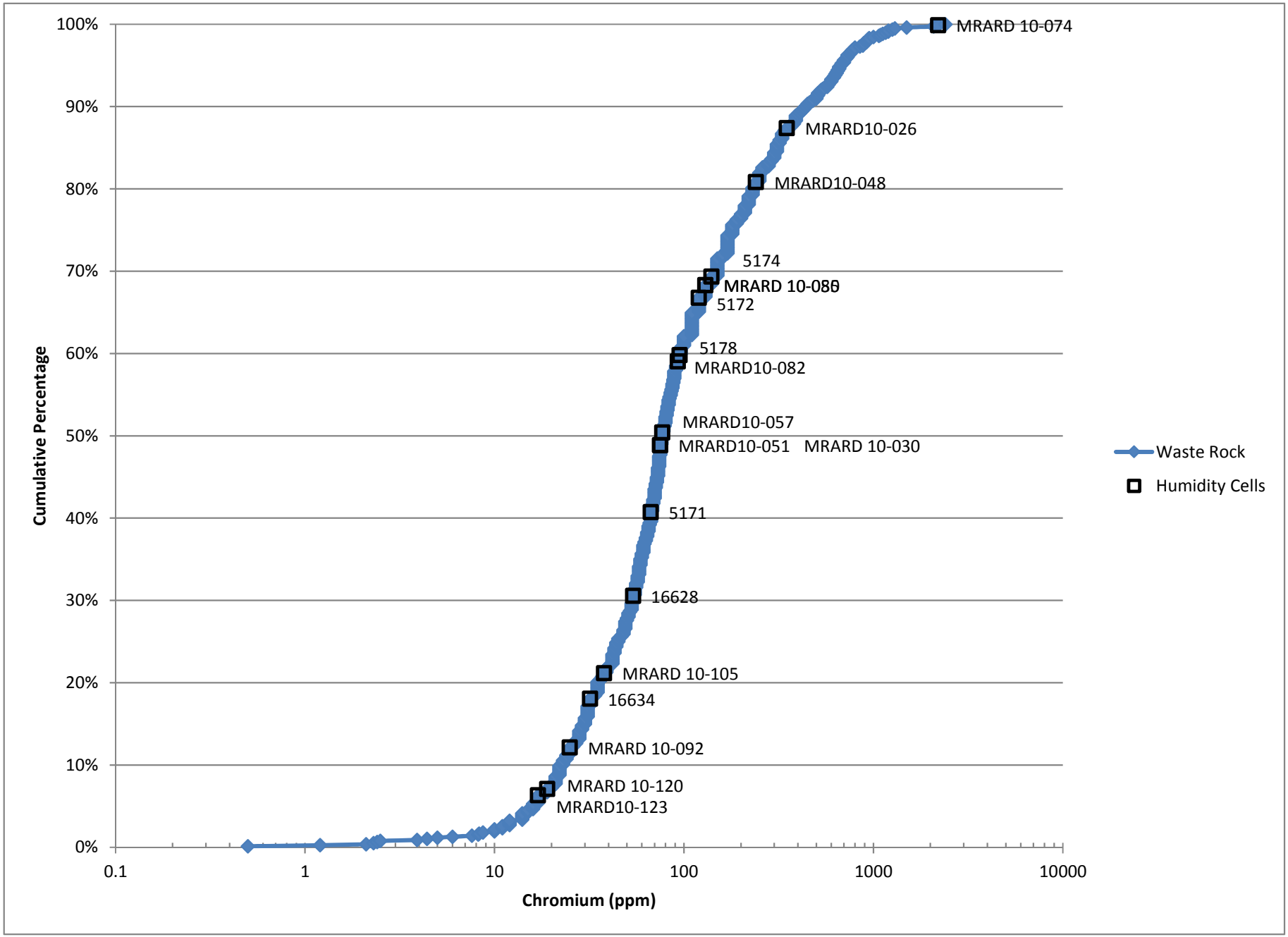
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
0.01
0.1
1
10
100
Cadmium (ppm)
MRARD 10-092
MRARD 10-080
MRARD 10-055
MRARD10-057
MRARD10-026
MRARD 10-120
MRARD 10-105
MRARD10-082
MRARD10-048
5172
5178
5174
MRARD 10-074
MRARD10-051
MRARD10-123
MRARD 10-030
5171
16634
16628
Waste Rock
Humidity Cel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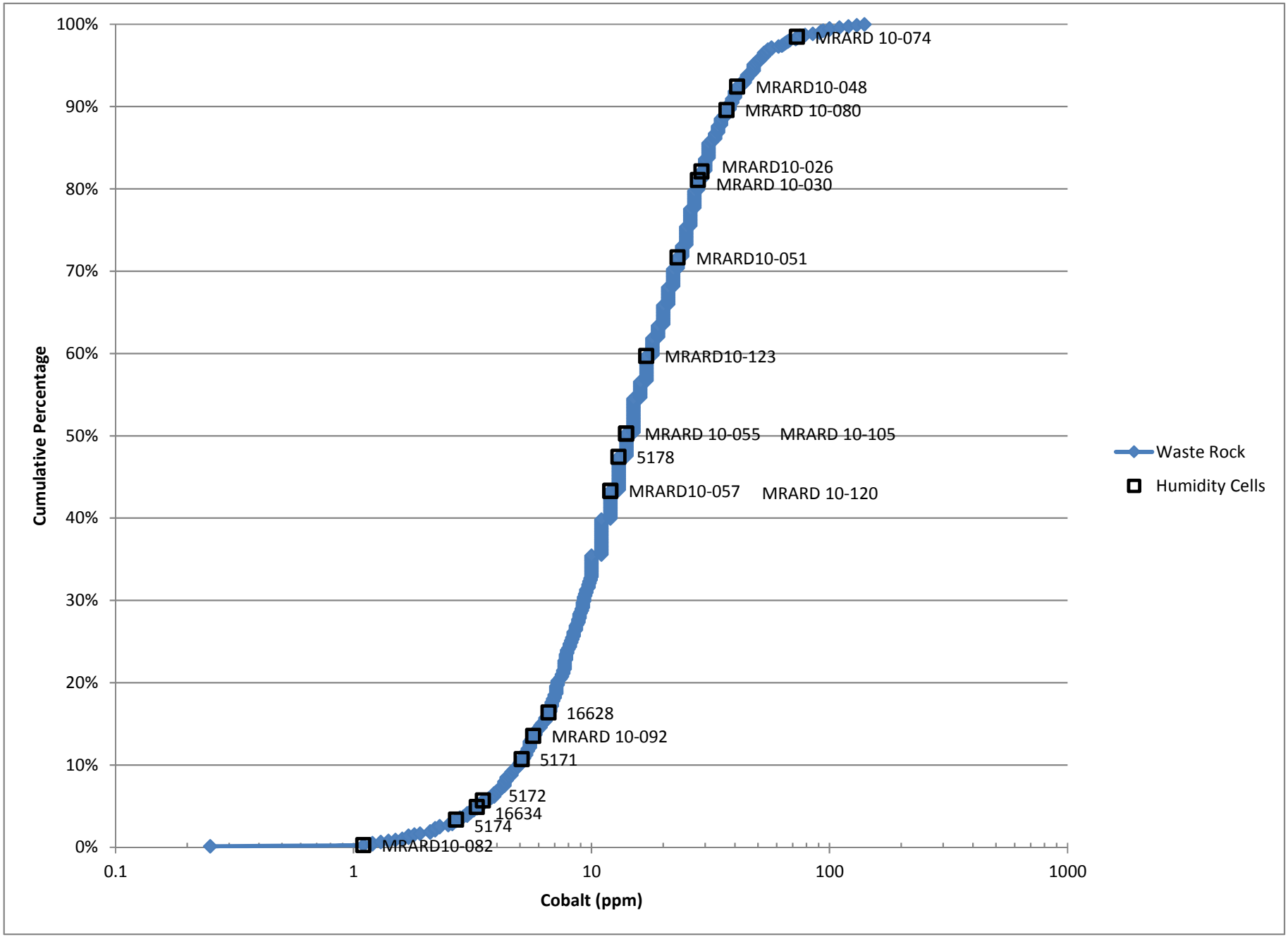
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
0.1
1
10
100
1000
10000
Chromium (ppm)
MRARD 10-074
MRARD10-026
MRARD10-048
5174
MRARD 10-088
5172
5178
MRARD10-082
MRARD10-057
MRARD10-051
MRARD 10-030
5171
16628
MRARD 10-105
16634
MRARD 10-092
MRARD 10-120
MRARD10-123
Waste Rock
Humidity Cells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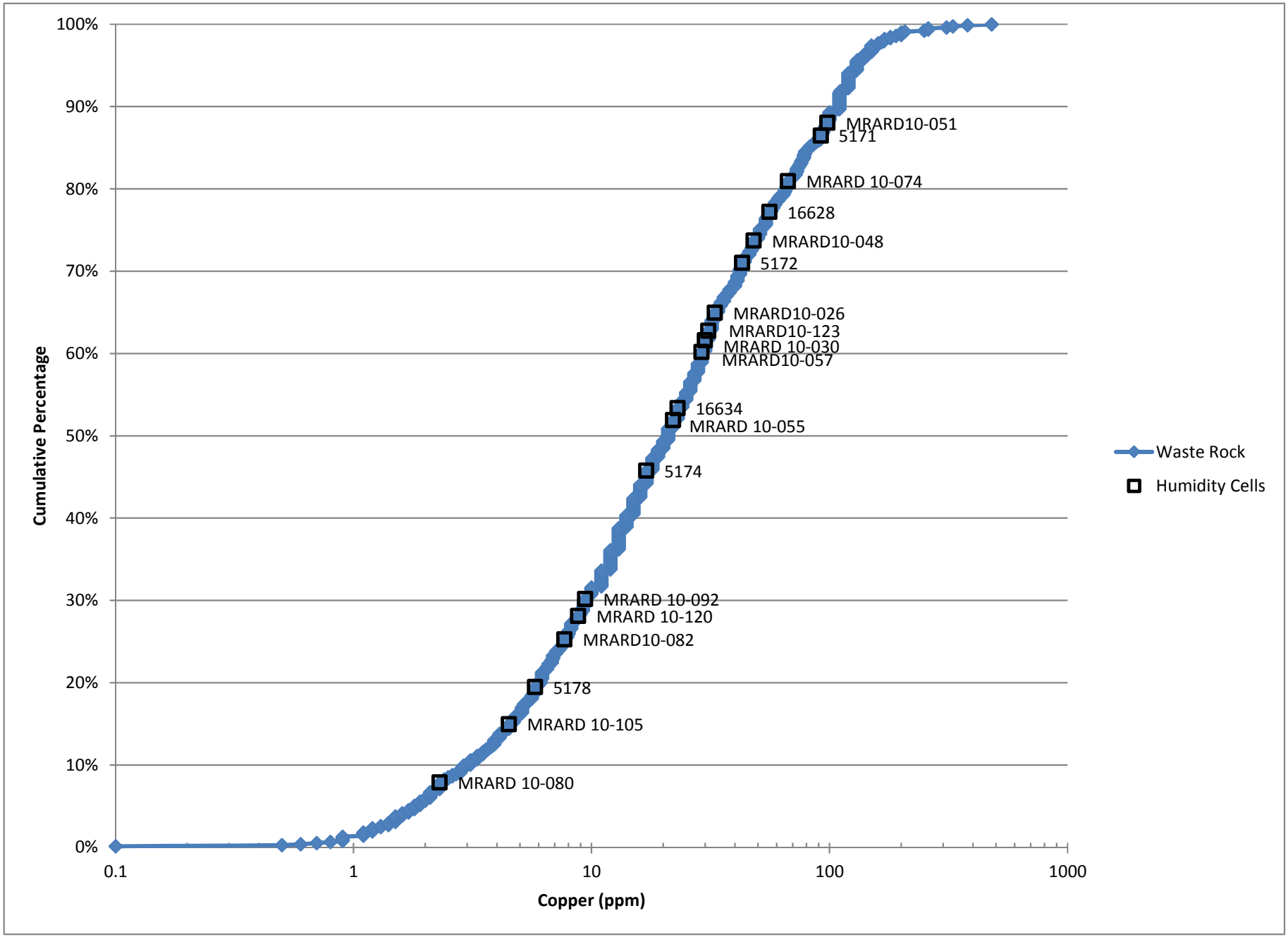
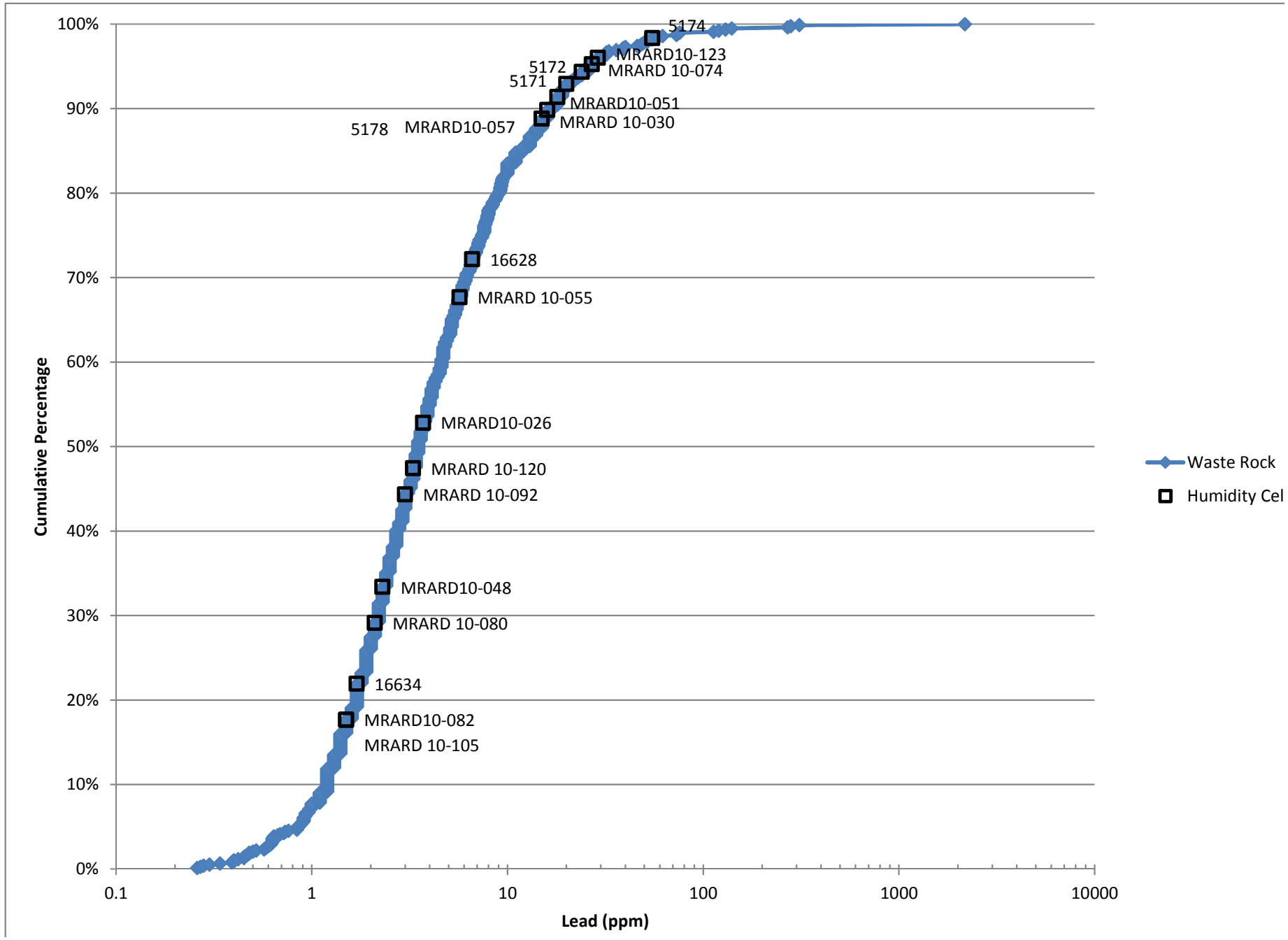
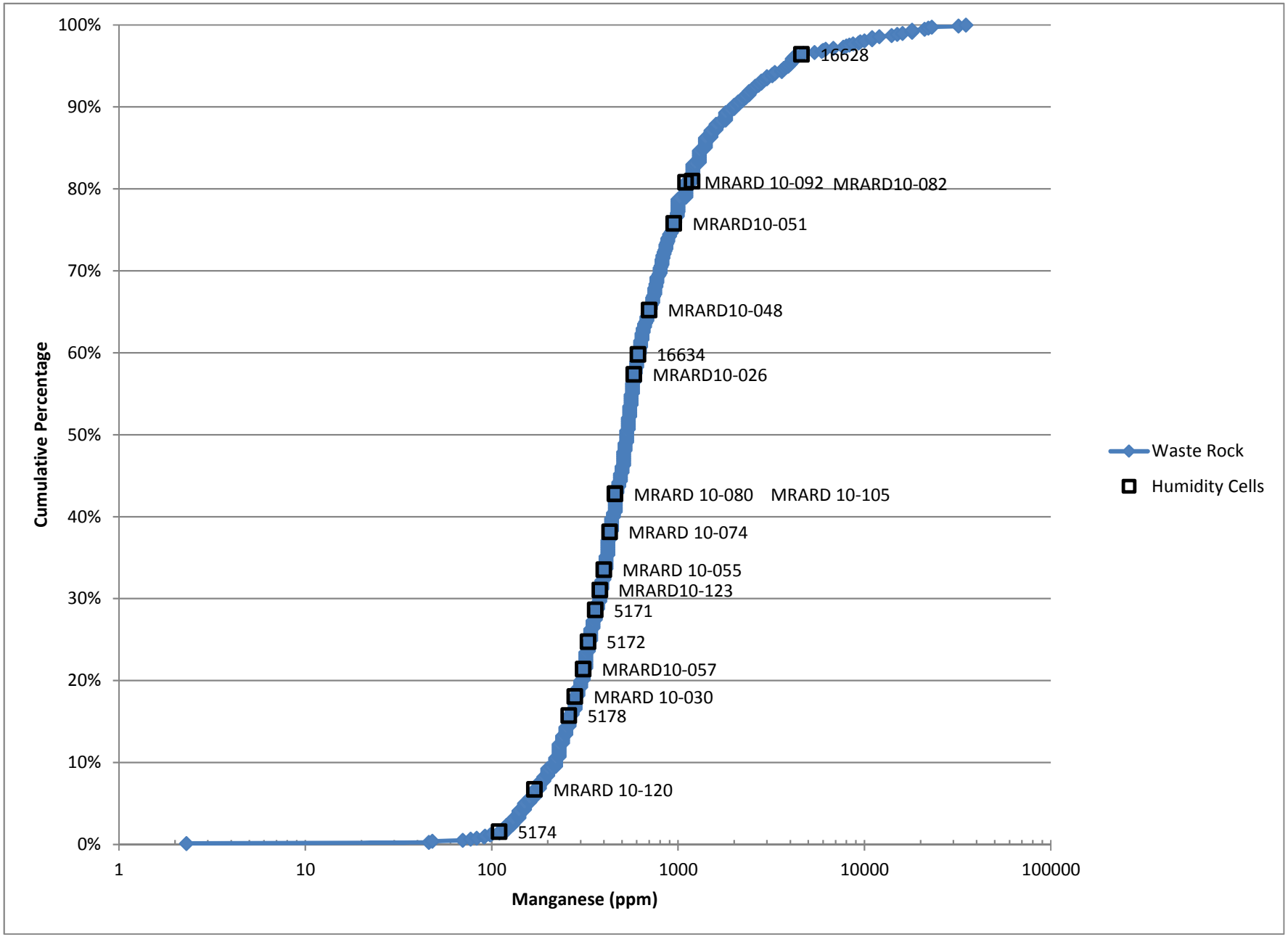
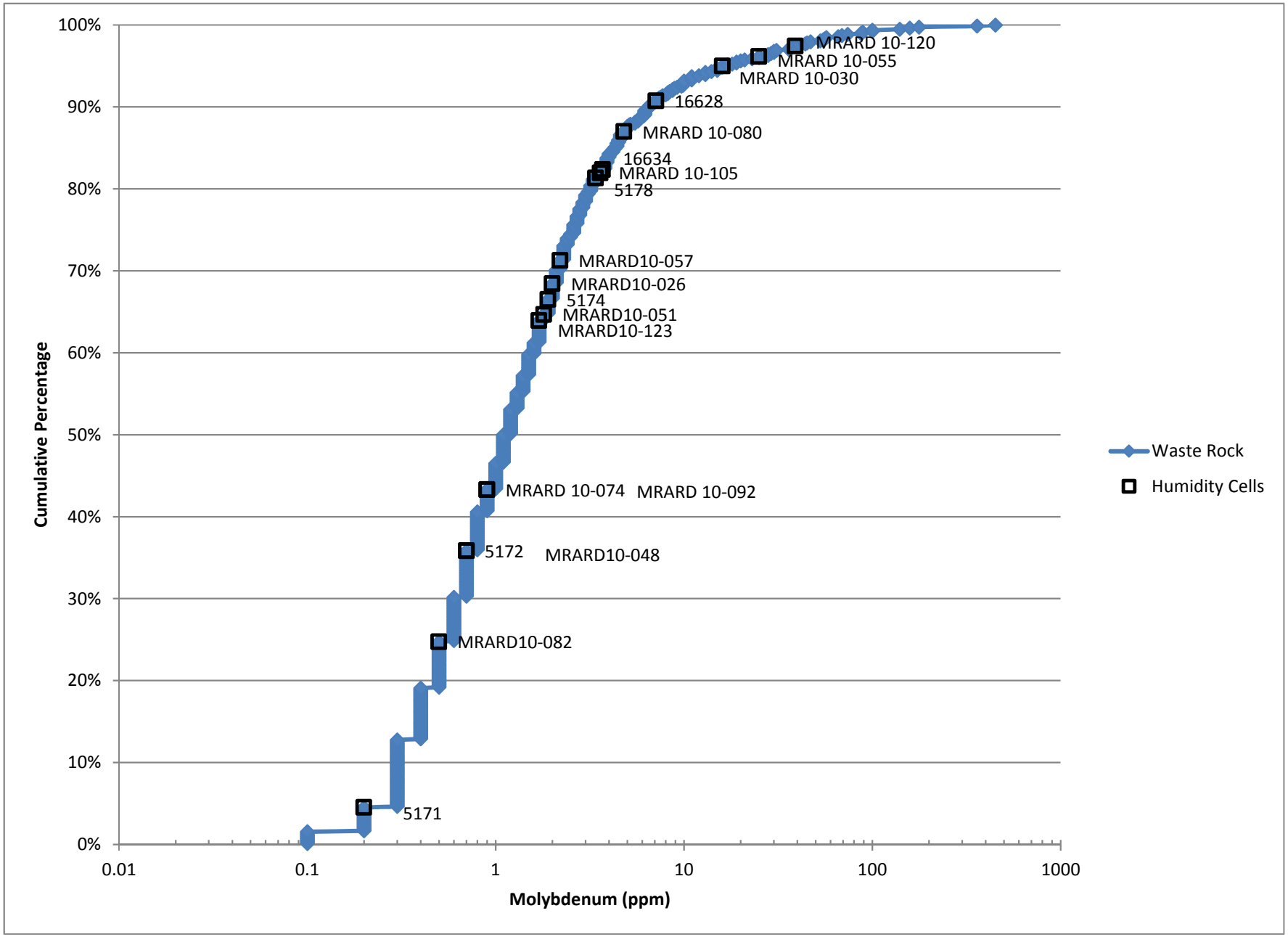
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
0.1
1
10
100
1000
Cobalt (ppm)
MRARD 10-074
MRARD10-048
MRARD 10-080
MRARD10-026
MRARD 10-030
MRARD10-051
MRARD10-123
MRARD 10-055
MRARD 10-105
5178
MRARD10-057
MRARD 10-120
16628
MRARD 10-092
5171
5172
16634
5174
MRARD10-082
Waste Rock
Humidity Cells


100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
0.1
1
10
100
1000
Copper (ppm)
MRARD10-051
5171
MRARD 10-074
16628
MRARD10-048
5172
MRARD10-026
MRARD10-123
MRARD 10-030
MRARD10-057
16634
MRARD 10-055
5174
MRARD 10-092
MRARD 10-120
MRARD10-082
5178
MRARD 10-105
MRARD 10-080
Waste Rock
Humidity Cells


100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
0.1
1
10
100
1000
10000
Lead (ppm)
5174
MRARD10-123
MRARD 10-074
5172
5171
MRARD10-051
MRARD 10-030
5178
MRARD10-057
16628
MRARD 10-055
MRARD10-026
MRARD 10-120
MRARD 10-092
MRARD10-048
MRARD 10-080
16634
MRARD10-082
MRARD 10-105
Waste Rock
Humidity Cel


100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
1
10
100
1000
10000
100000
Manganese (ppm)
16628
MRARD 10-092
MRARD10-082
MRARD10-051
MRARD10-048
16634
MRARD10-026
MRARD 10-080
MRARD 10-105
MRARD 10-074
MRARD 10-055
MRARD10-123
5171
5172
MRARD10-057
MRARD 10-030
5178
MRARD 10-120
5174
Waste Rock
Humidity Cells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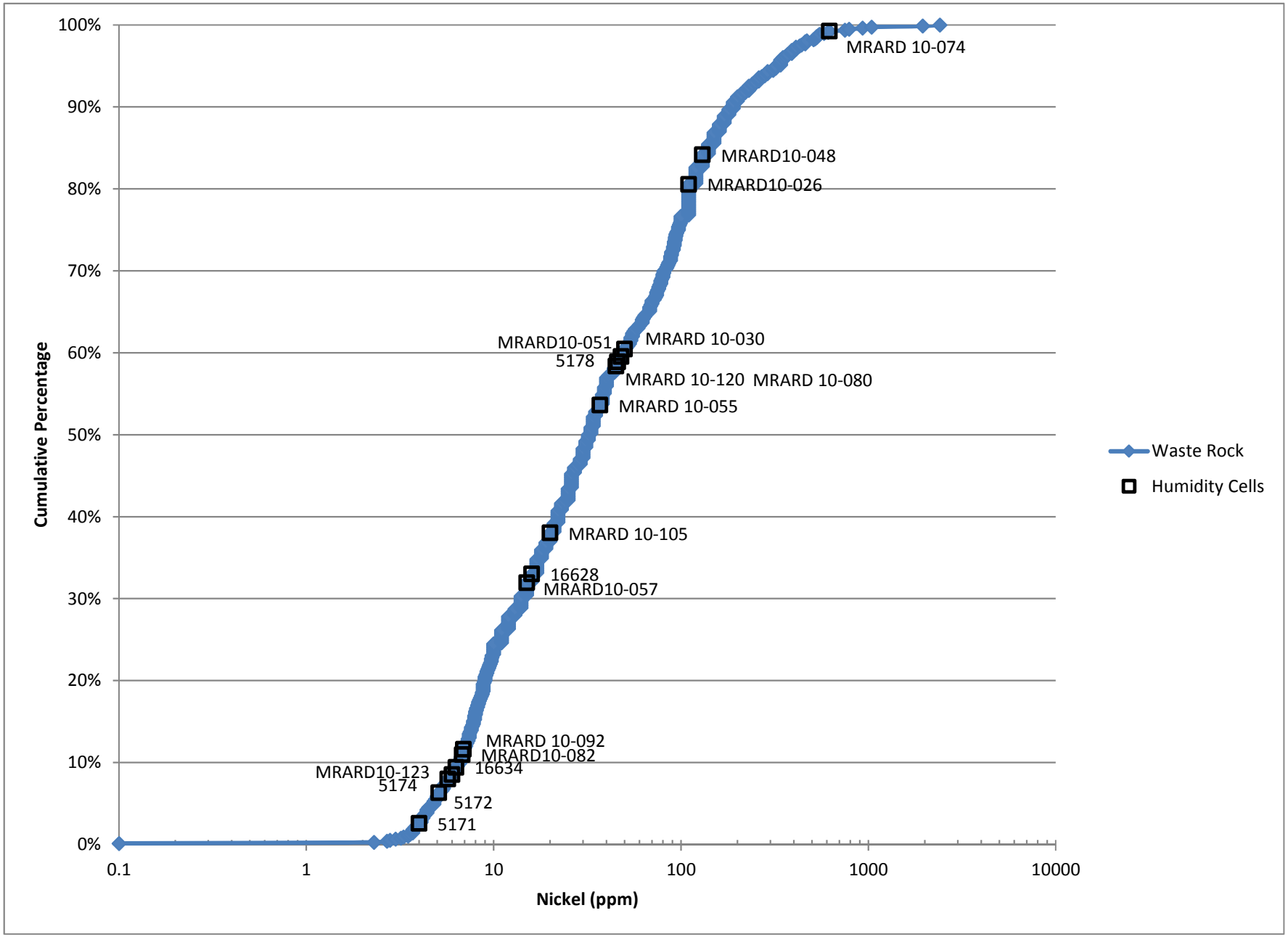
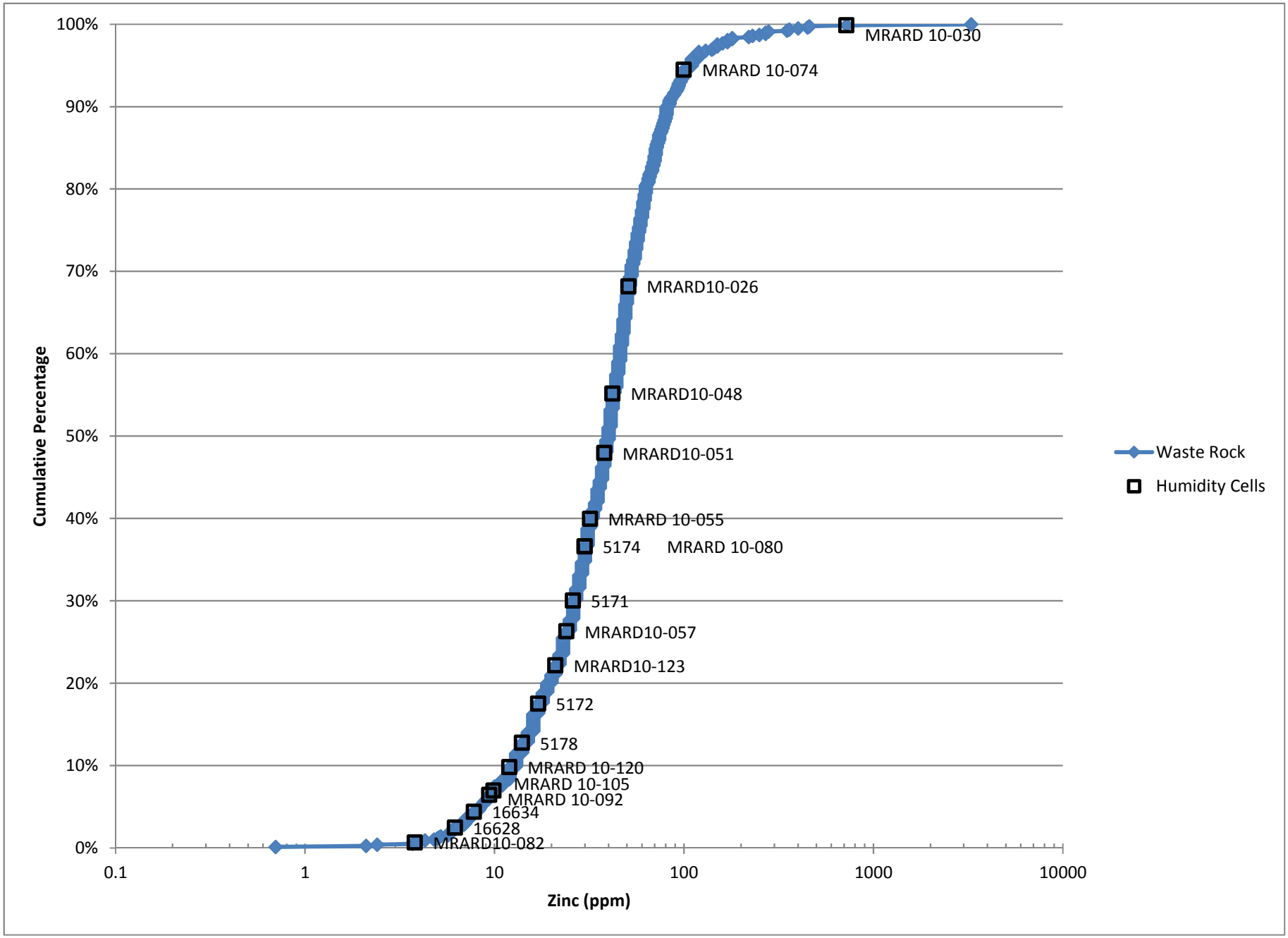
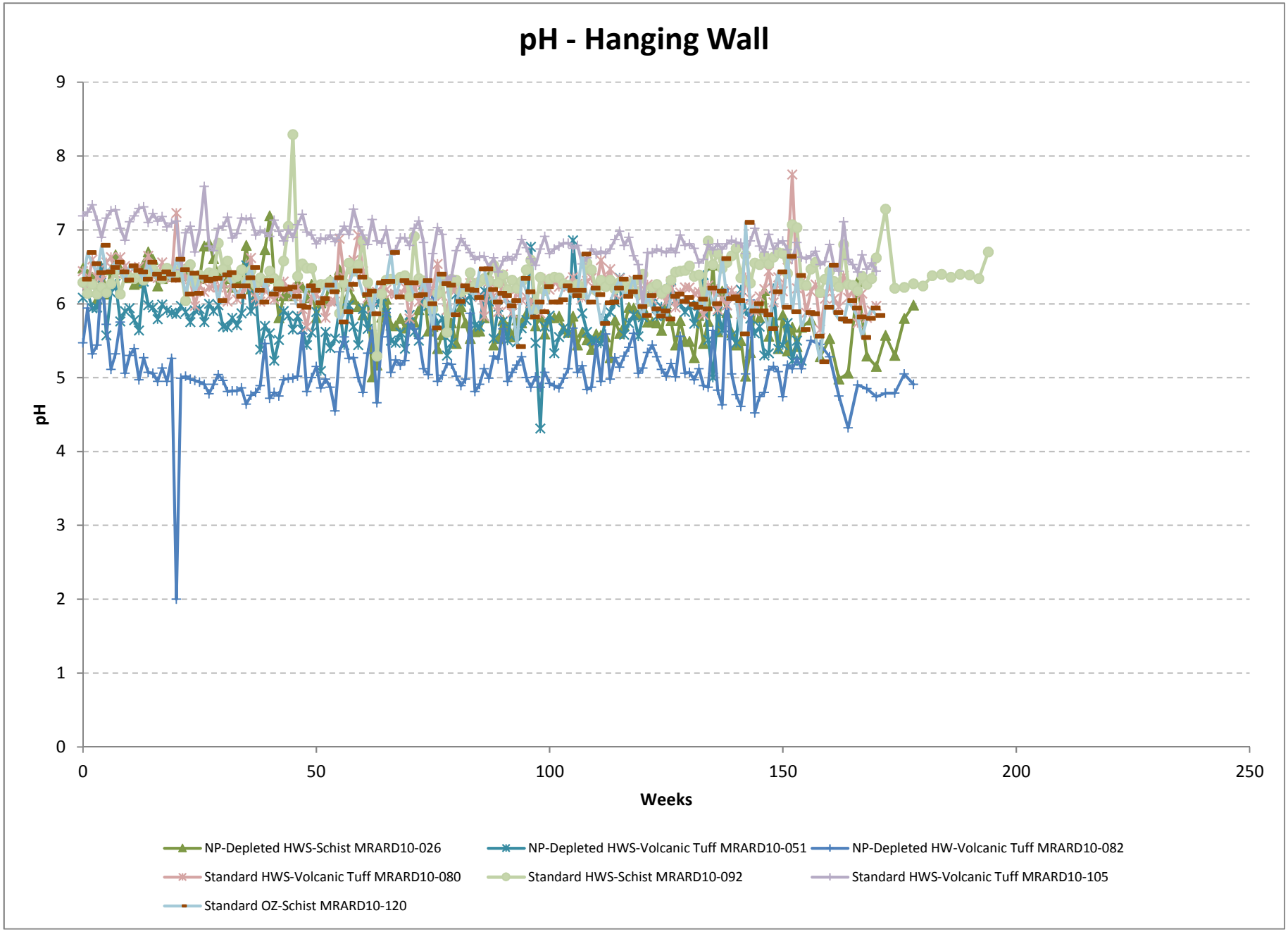
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
0.01
0.1
1
10
100
1000
Molybdenum (ppm)
MRARD 10-120
MRARD 10-055
MRARD 10-030
16628
MRARD 10-080
16634
MRARD 10-105
5178
MRARD10-057
MRARD10-026
5174
MRARD10-051
MRARD10-123
MRARD 10-074
MRARD 10-092
5172
MRARD10-048
MRARD10-082
5171
Waste Rock
Humidity Cells

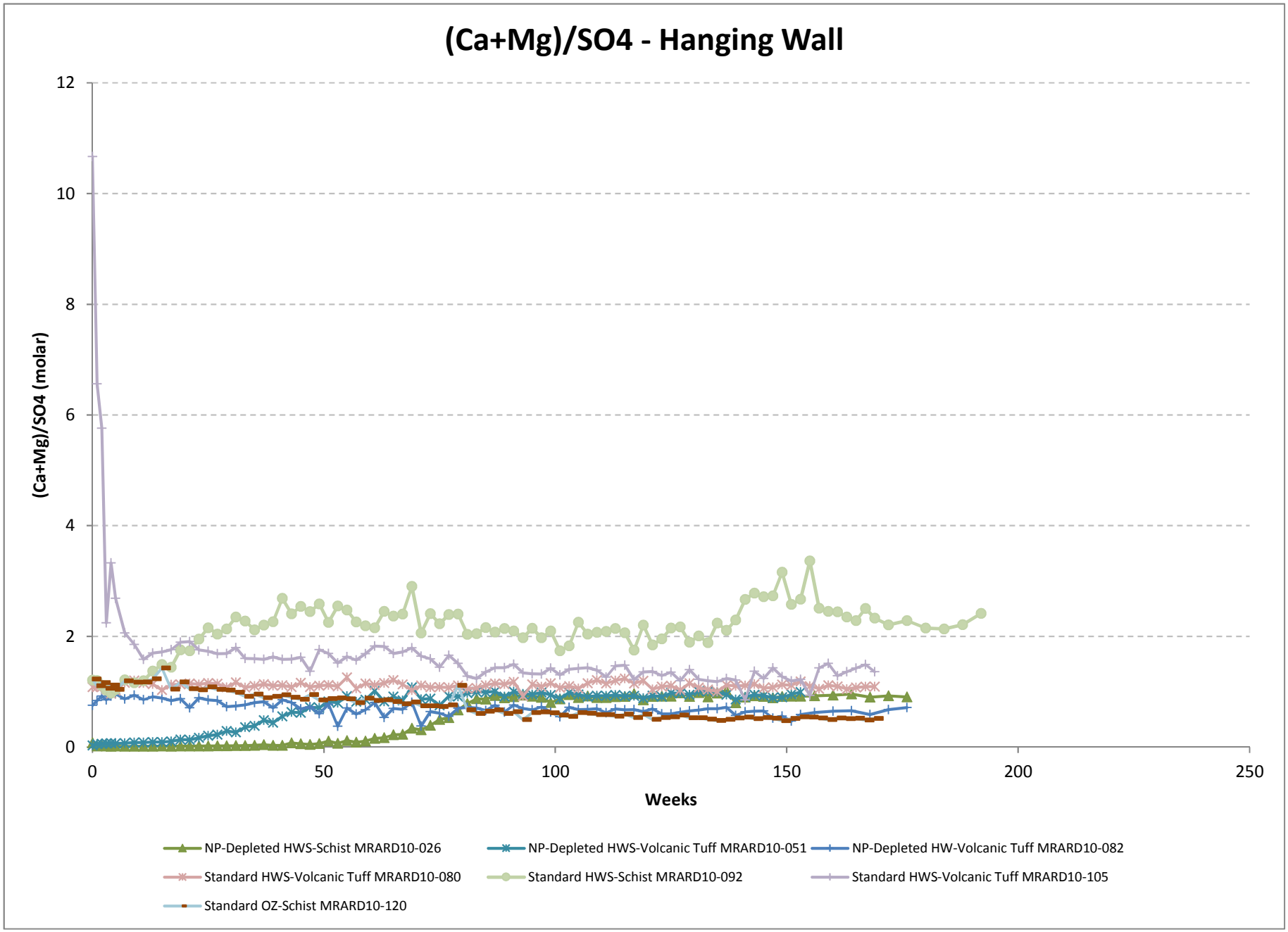

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
0.1
1
10
100
1000
10000
Nickel (ppm)
MRARD 10-074
MRARD10-048
MRARD10-026
MRARD10-051
MRARD 10-030
5178
MRARD 10-120
MRARD 10-080
MRARD 10-055
MRARD 10-105
16628
MRARD10-057
MRARD 10-092
MRARD10-082
MRARD10-123
16634
5174
5172
5171
Waste Rock
Humidity Cells

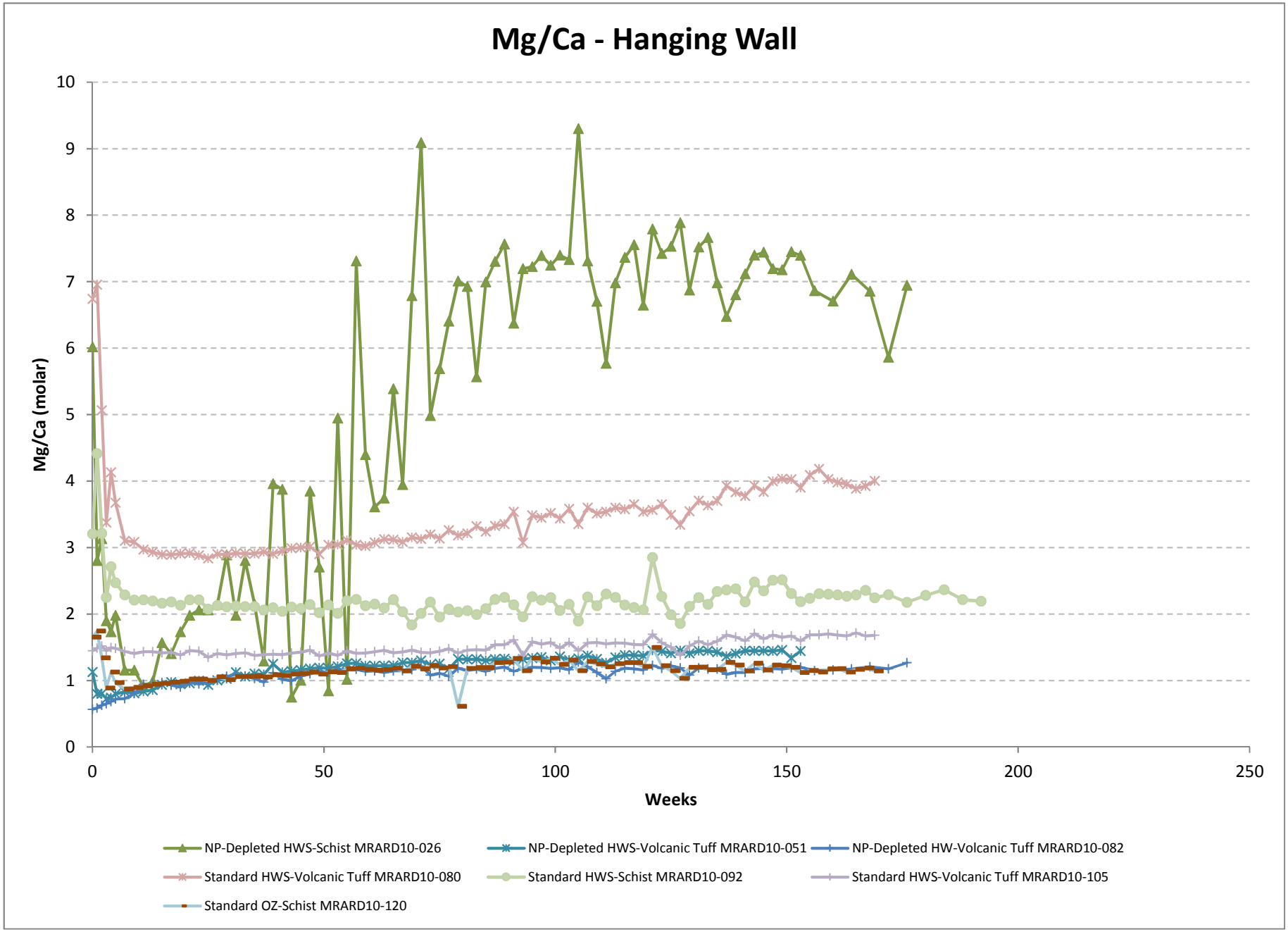

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percentage
0.1
1
10
100
1000
10000
Zinc (ppm)
MRARD 10-030
MRARD 10-074
MRARD10-026
MRARD10-048
MRARD10-051
MRARD 10-055
5174
MRARD 10-080
5171
MRARD10-057
MRARD10-123
5172
5178
MRARD 10-120
MRARD 10-105
MRARD 10-092
16634
16628
MRARD10-082
Waste Rock
Humidity Cells

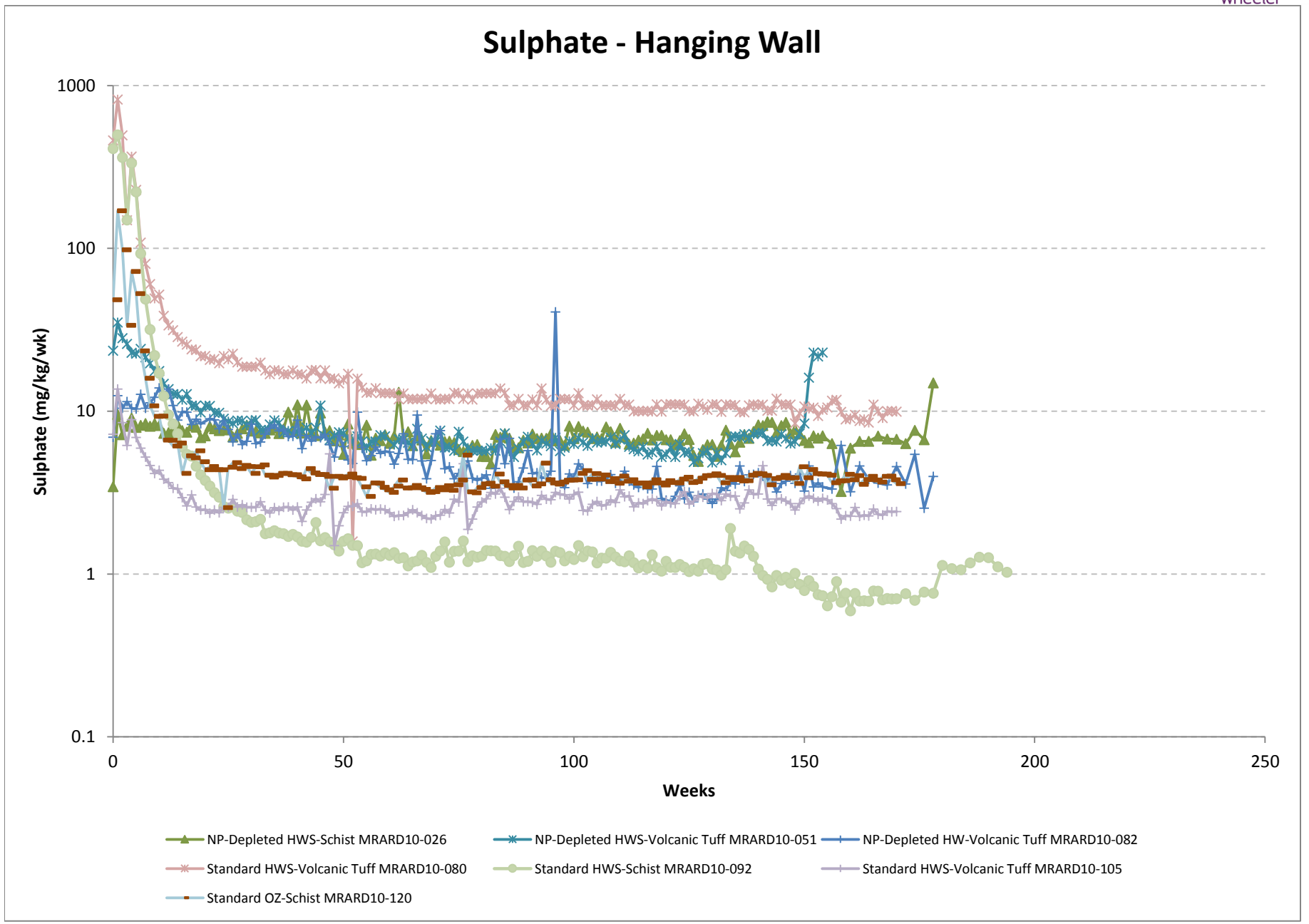
**APPENDIX B**
**Mine Rock Humidity Cell Results**

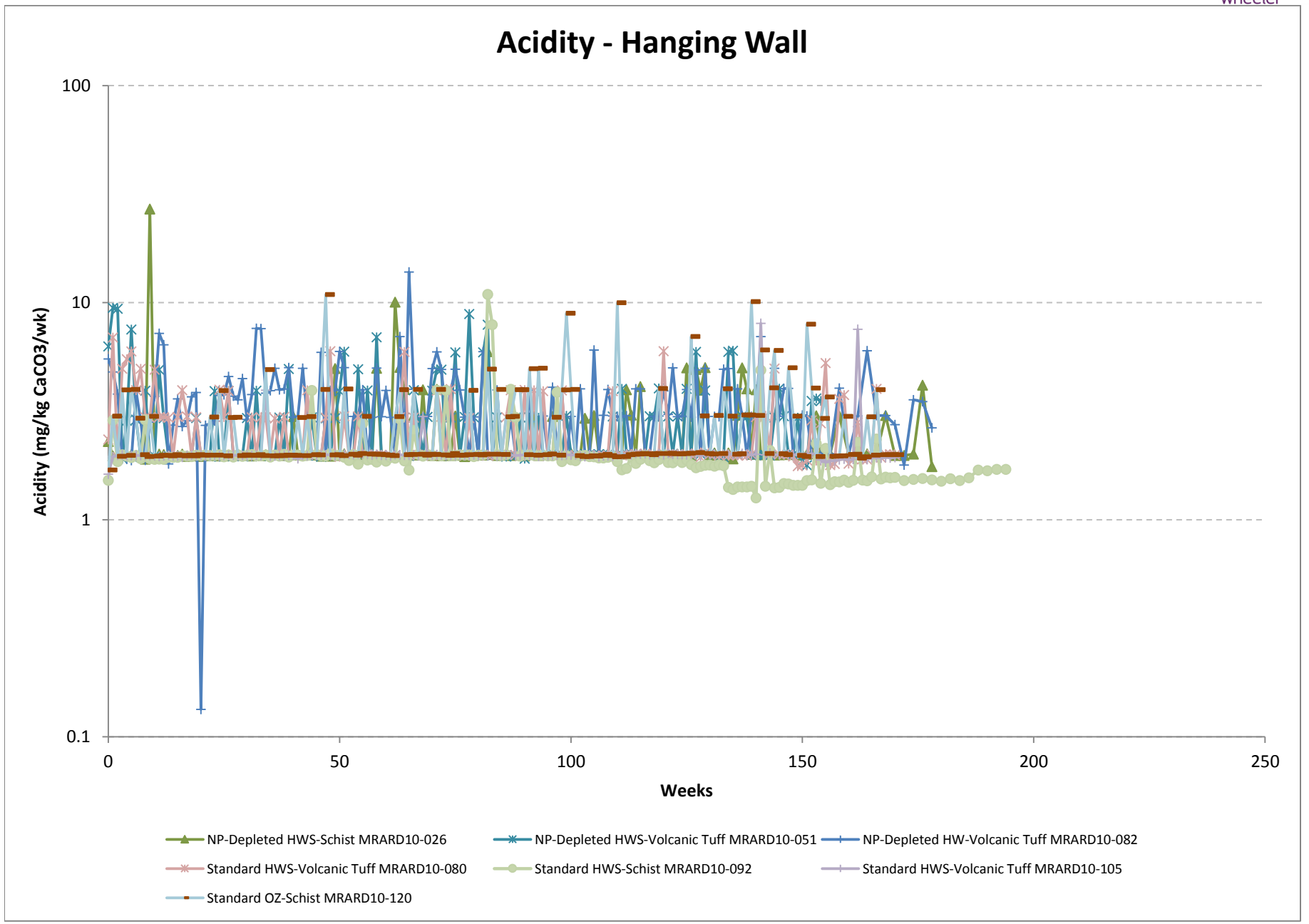
**Hanging Wall Humidity Cell Plots**

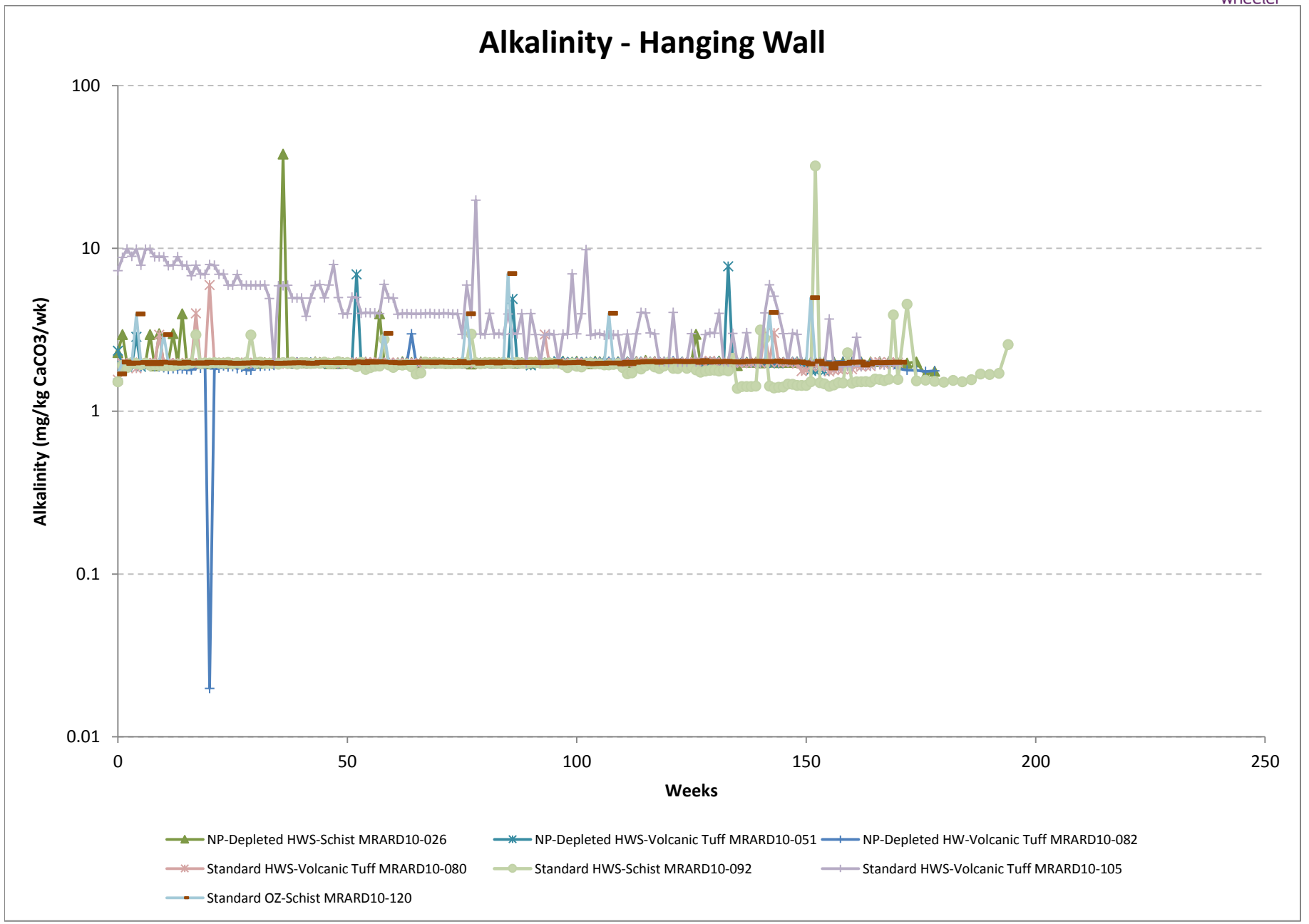

pH - Hanging Wall
pH
Weeks
0
1
2
3
4
5
6
7
8
9
0
50
100
150
200
250
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

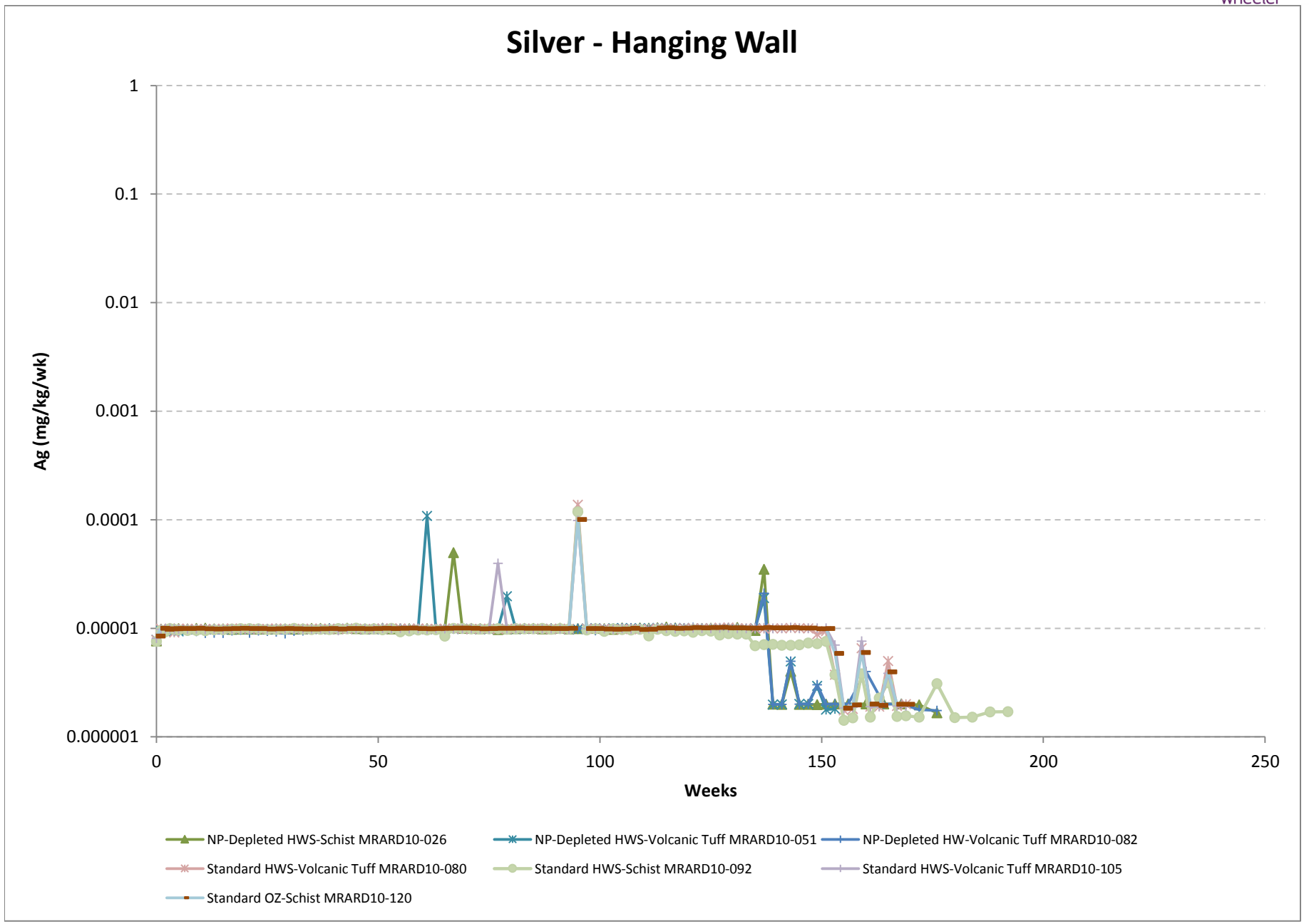

(Ca+Mg)/SO4 - Hanging Wall
(Ca+Mg)/SO4 (molar)
12
10
8
6
4
2
0
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

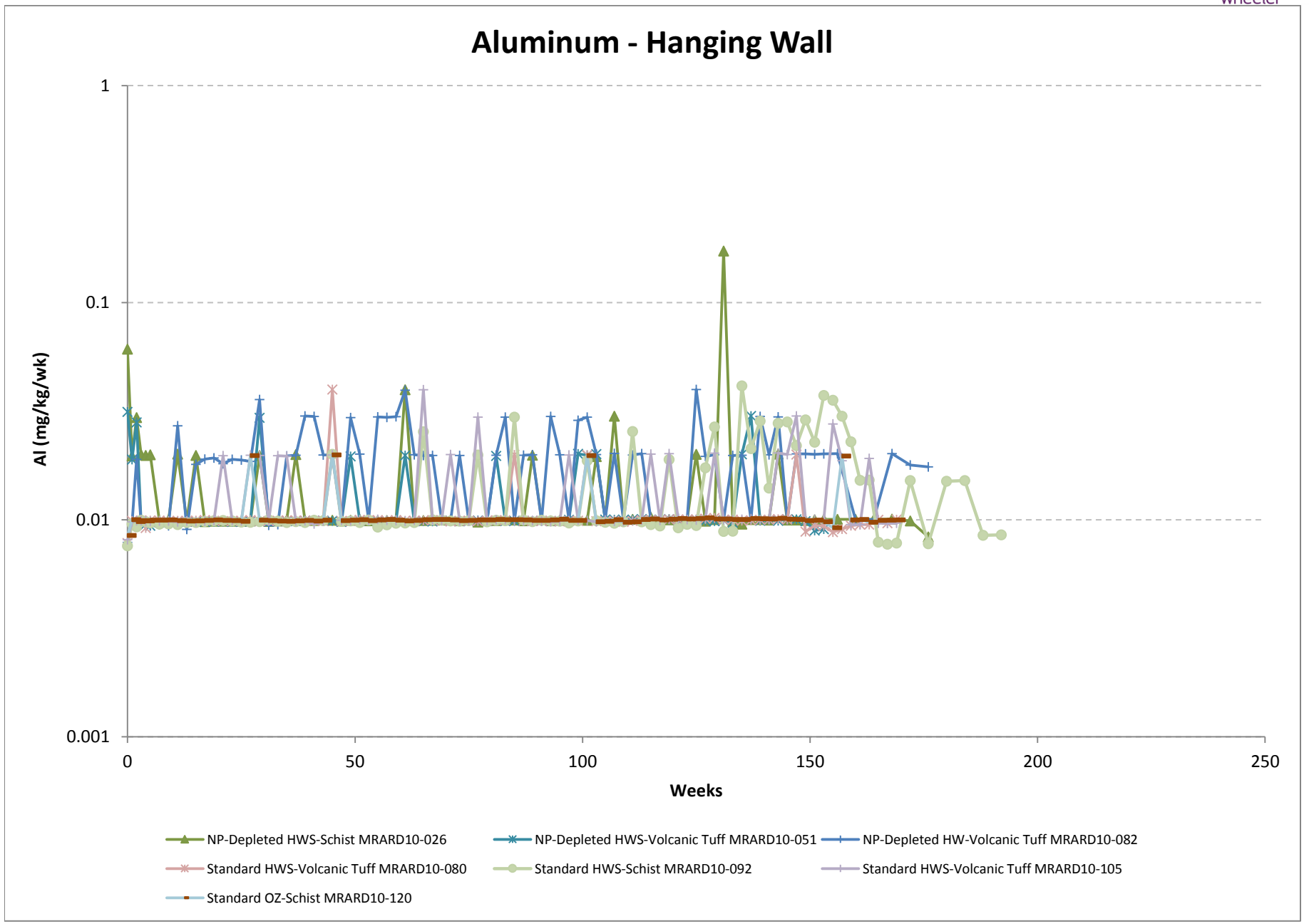

Mg/Ca - Hanging Wall
Mg/Ca (molar)
Weeks
0
1
2
3
4
5
6
7
8
9
10
0
50
100
150
200
250
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

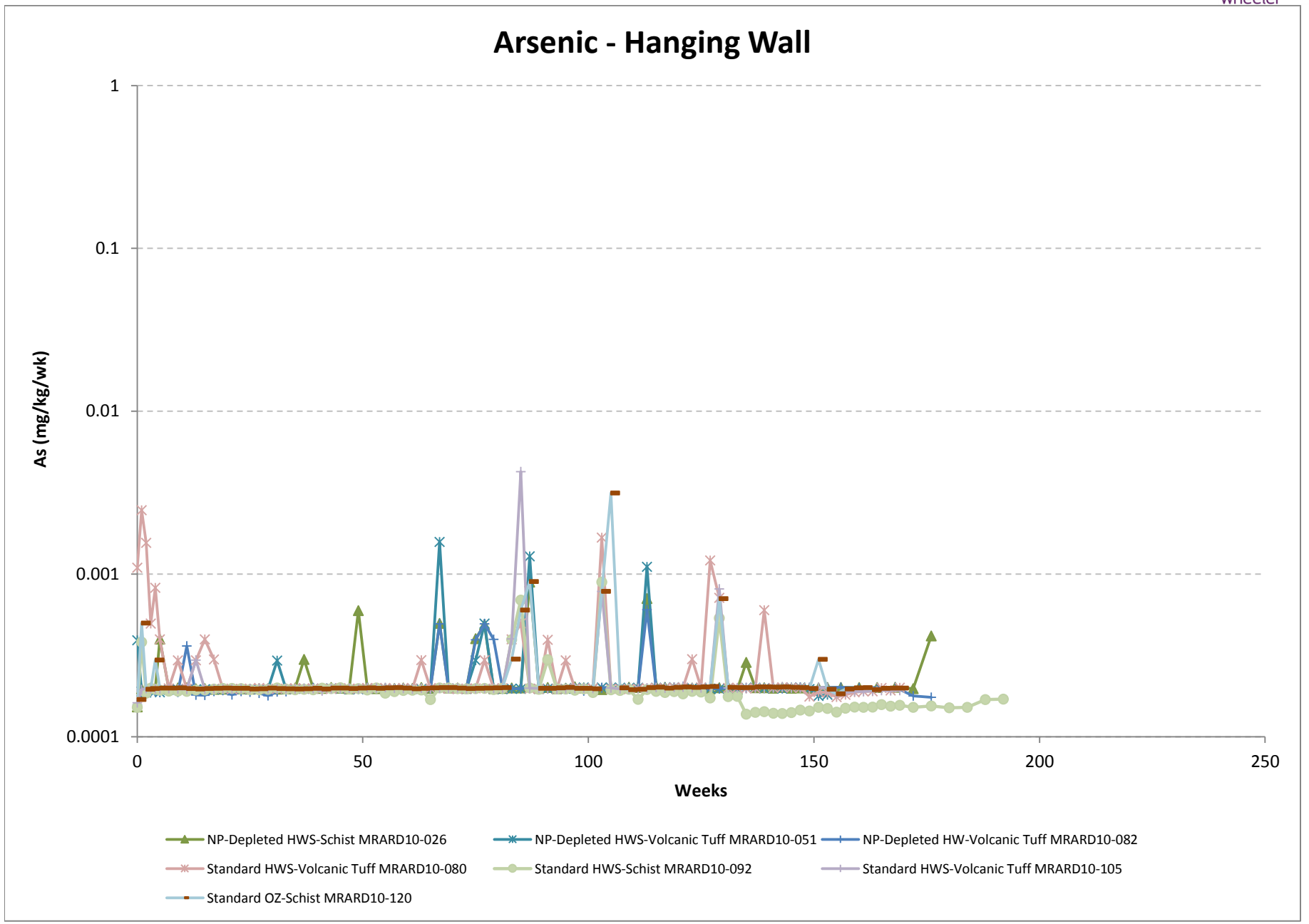

Sulphate - Hanging Wall
Sulphate (mg/kg/wk)
1000
100
10
1
0.1
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

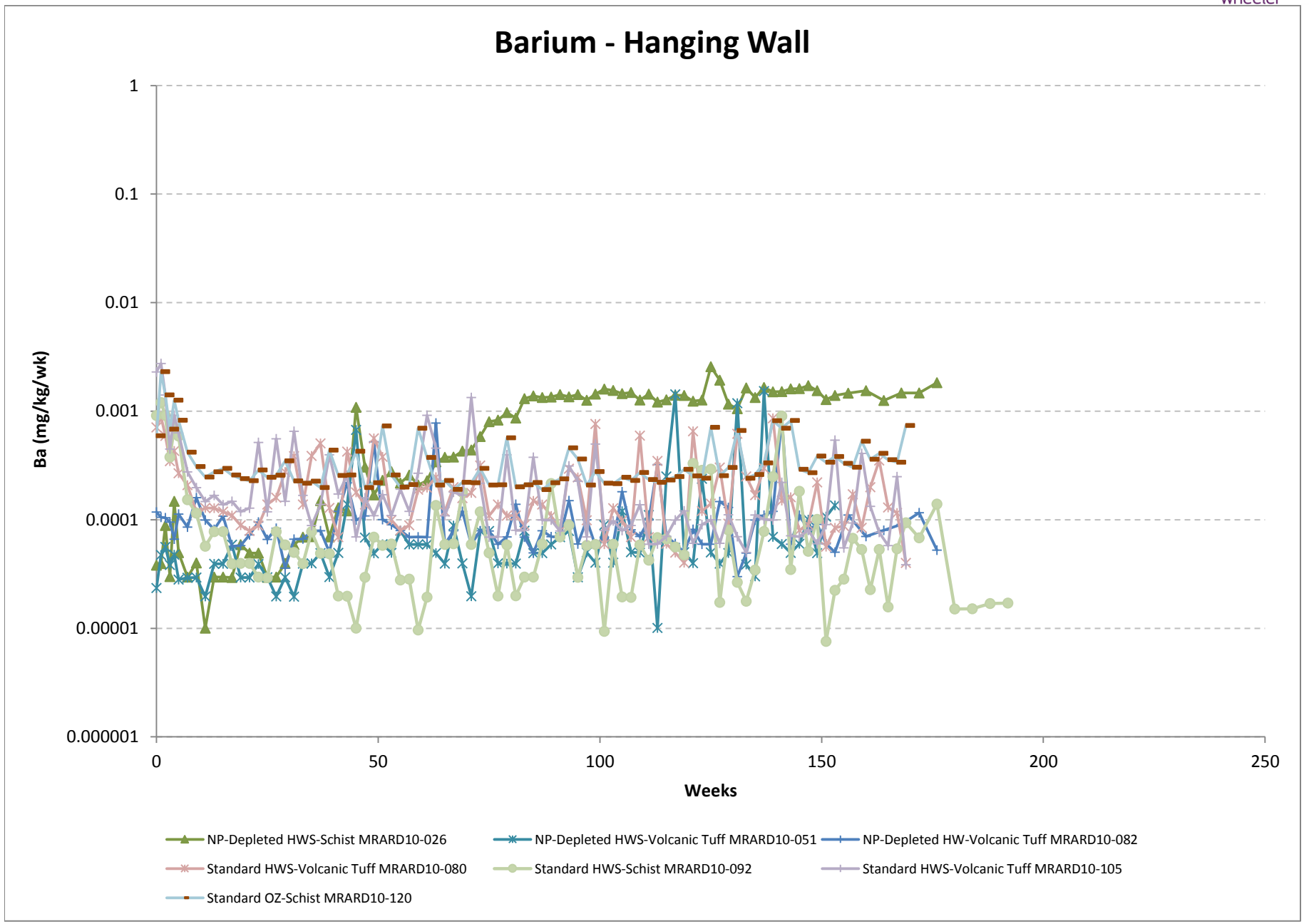

Acidity - Hanging Wall
100
10
1
0.1
Acidity (mg/kg CaCO3/wk)
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

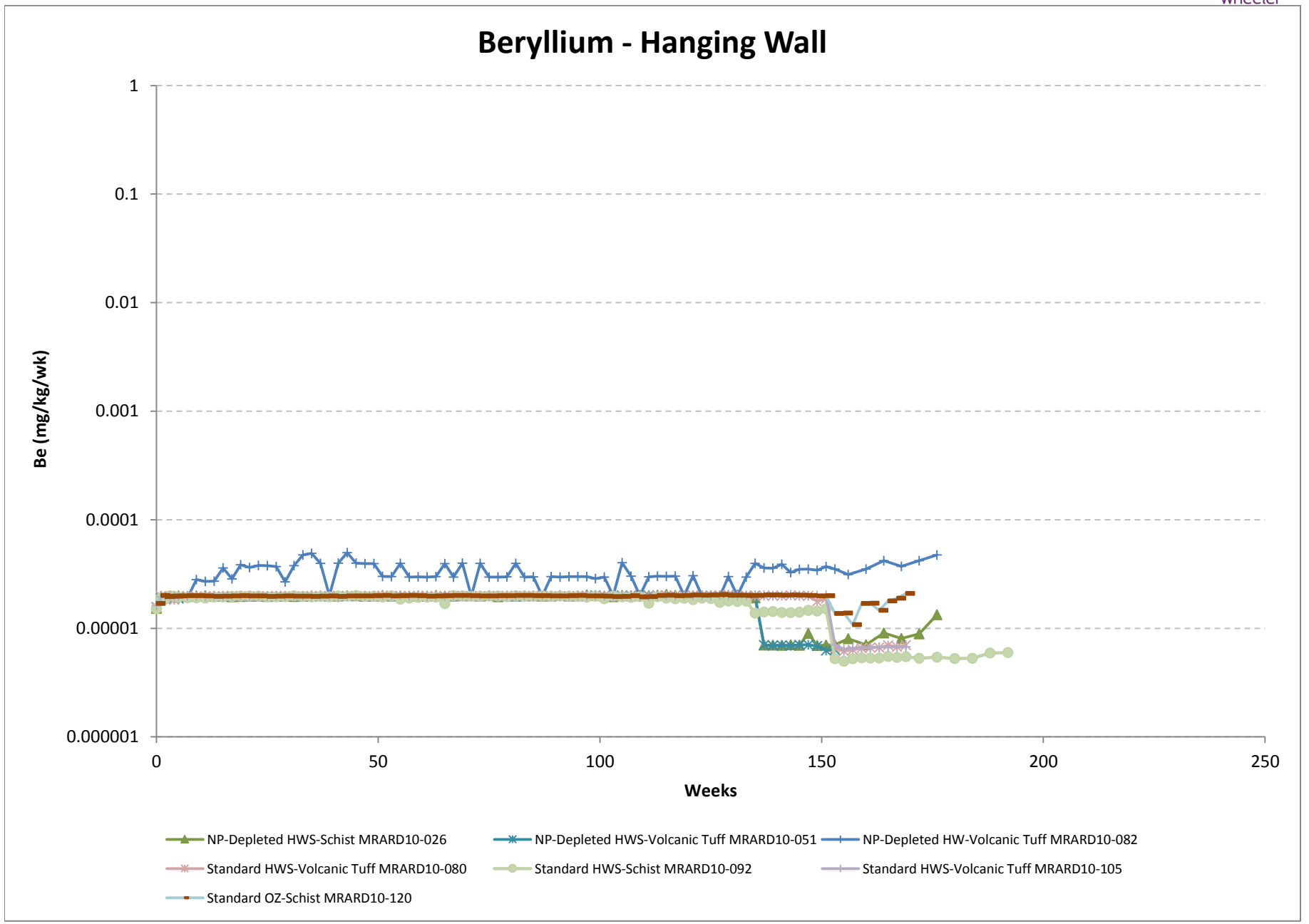

Alkalinity - Hanging Wall
Alkalinity (mg/kg CaCO3/wk)
100
10
1
0.1
0.01
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

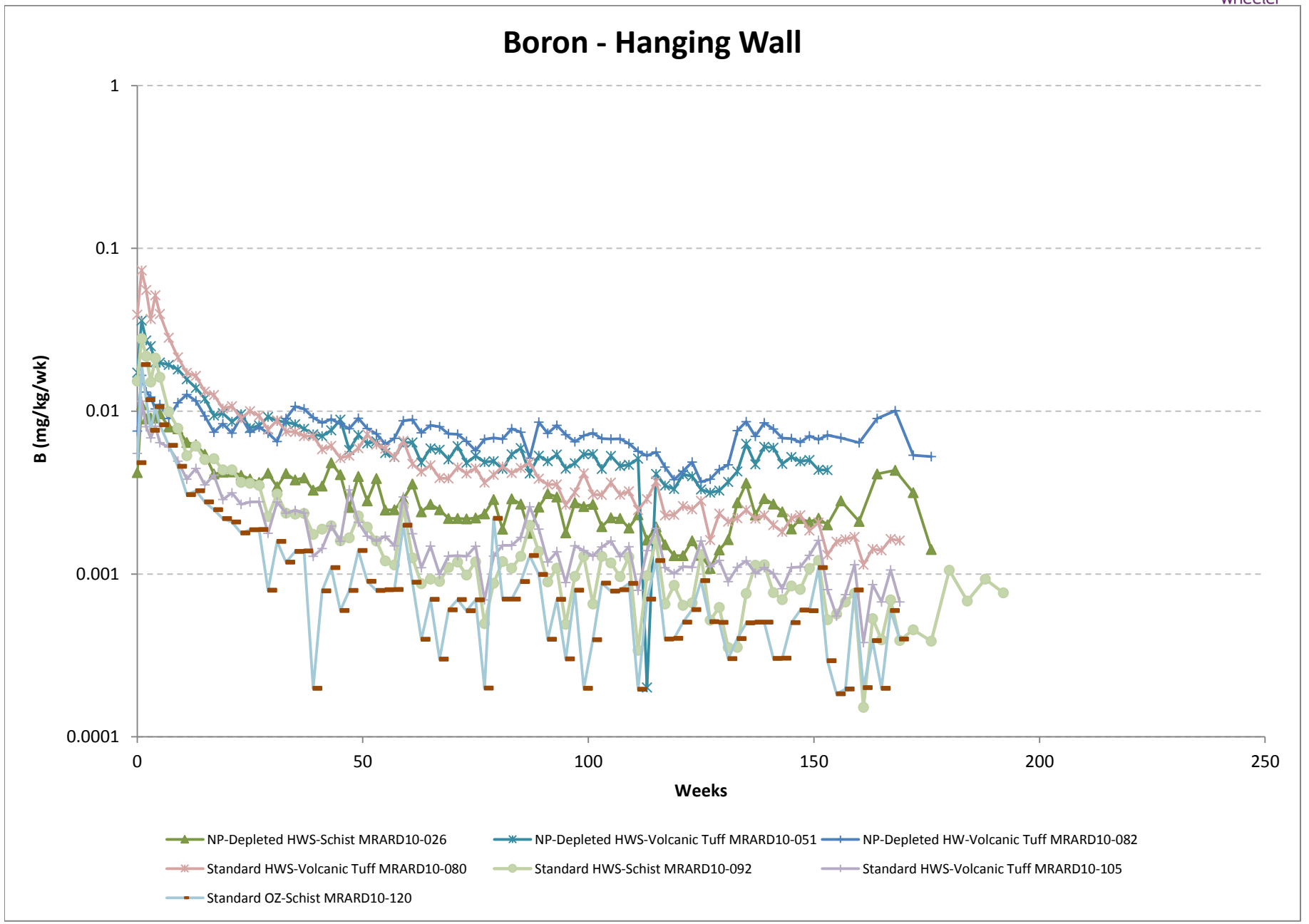

Silver - Hanging Wall
Ag (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

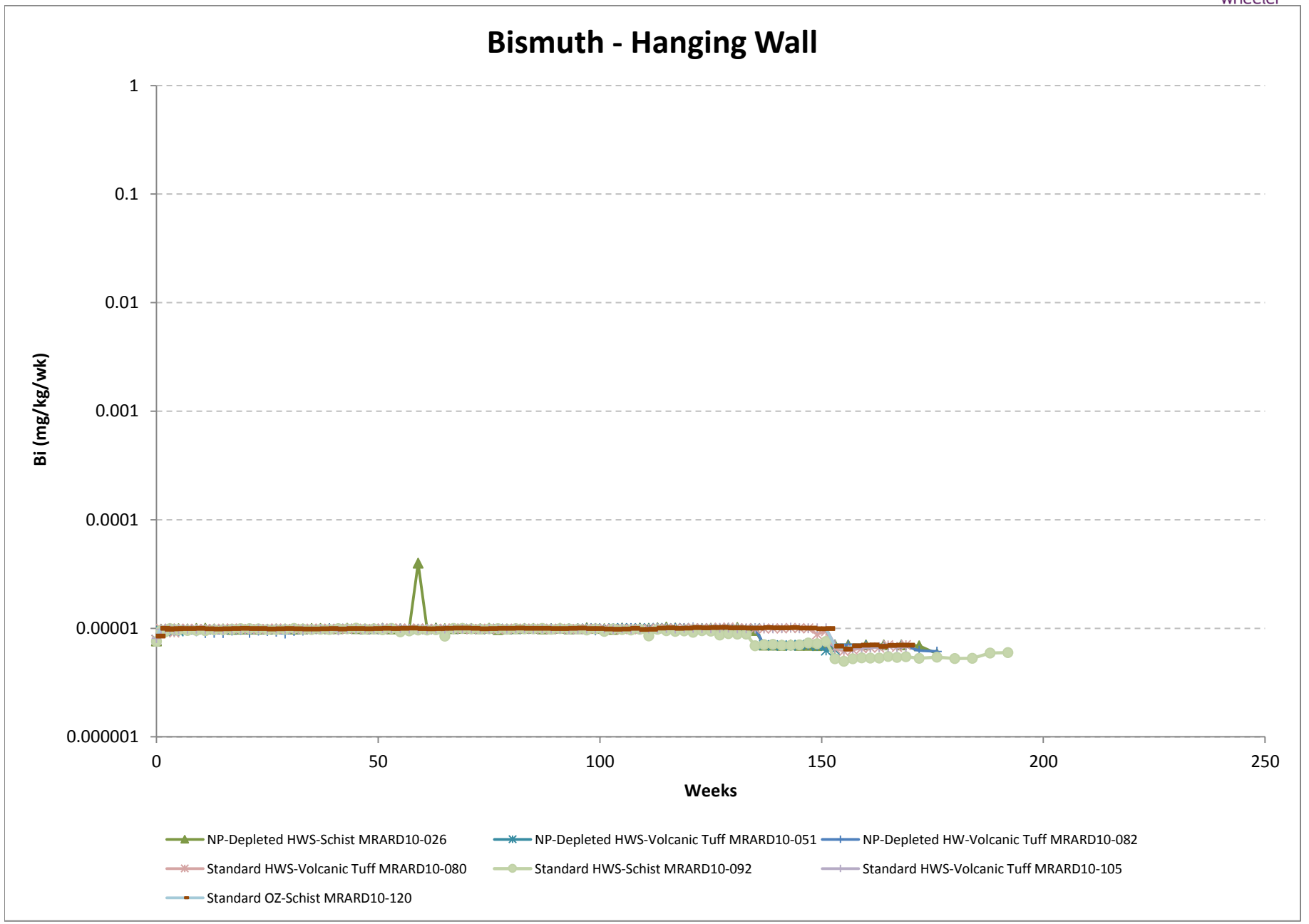

Aluminum - Hanging Wall
1
0.1
0.01
0.001
Al (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

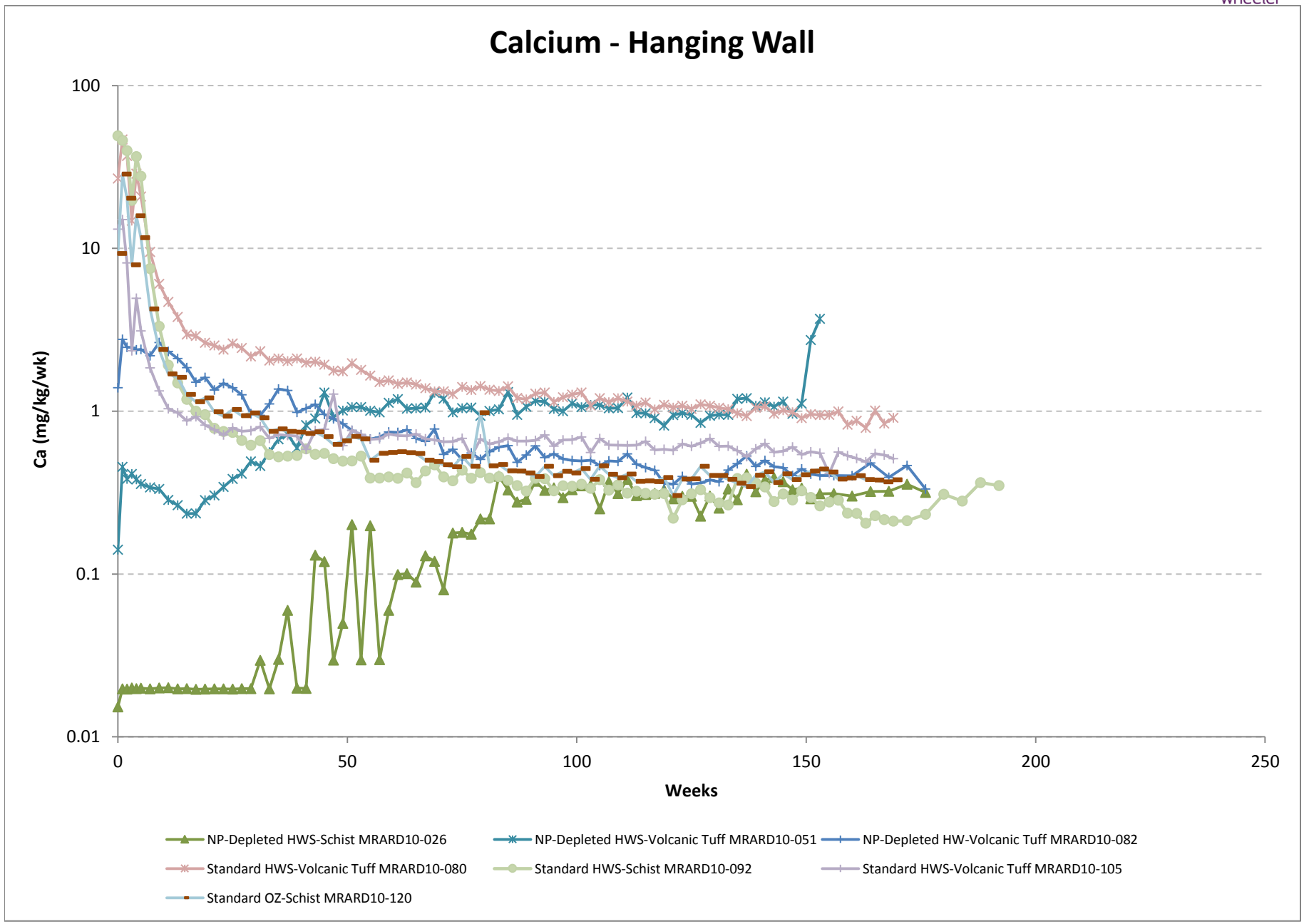

Arsenic - Hanging Wall
1
0.1
0.01
0.001
0.0001
As (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

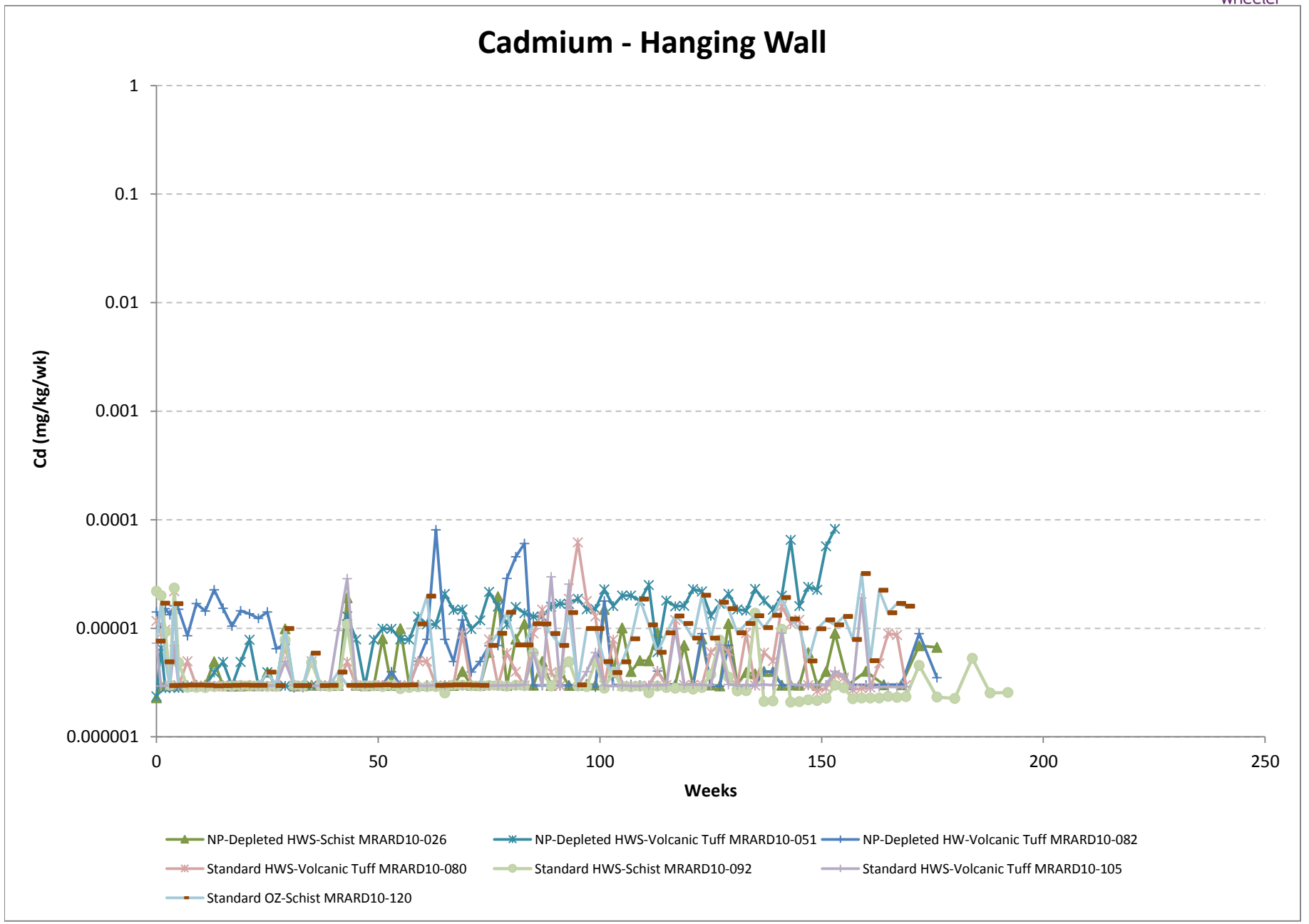

Barium - Hanging Wall
Ba (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

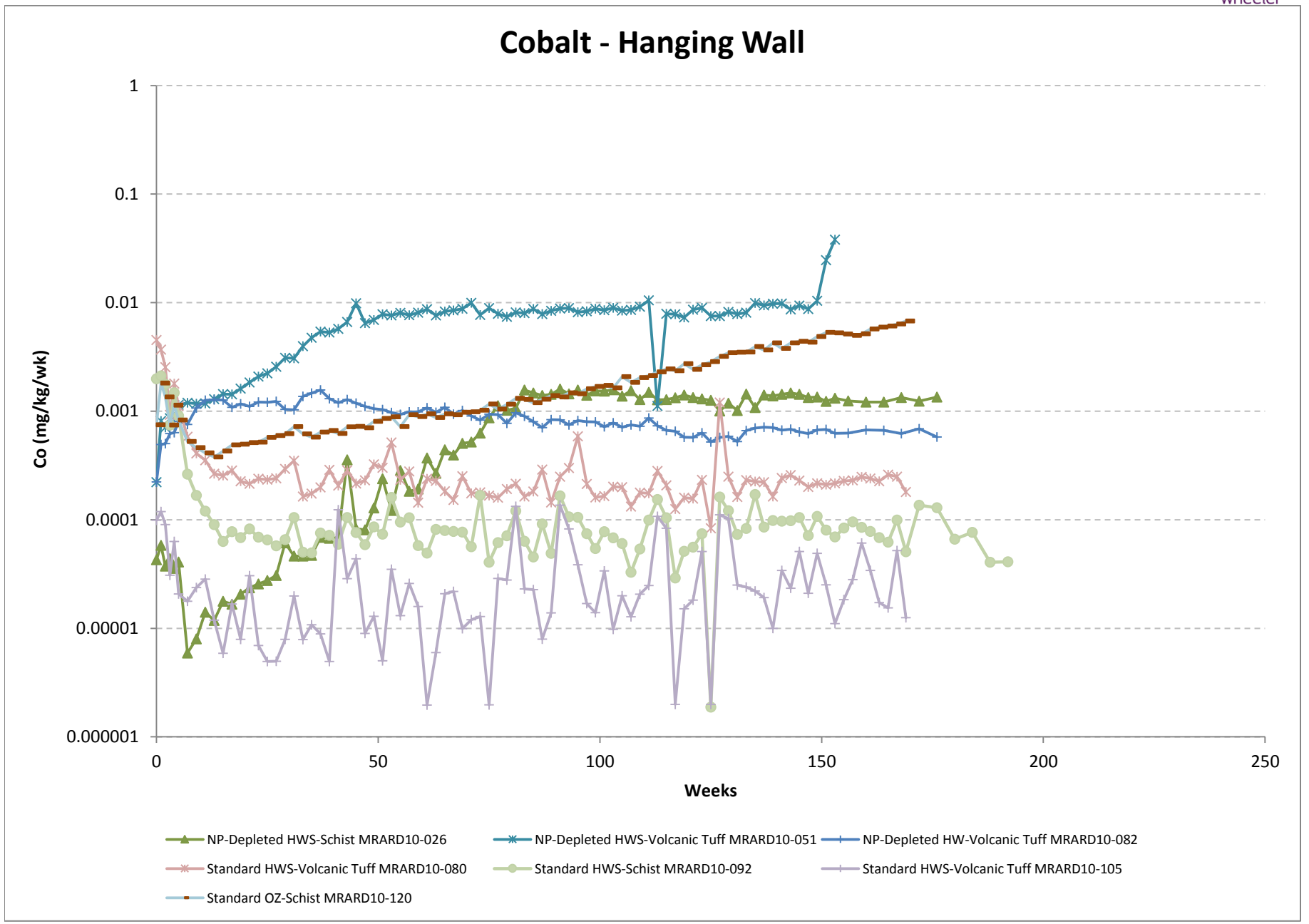

Beryllium - Hanging Wall
Be (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

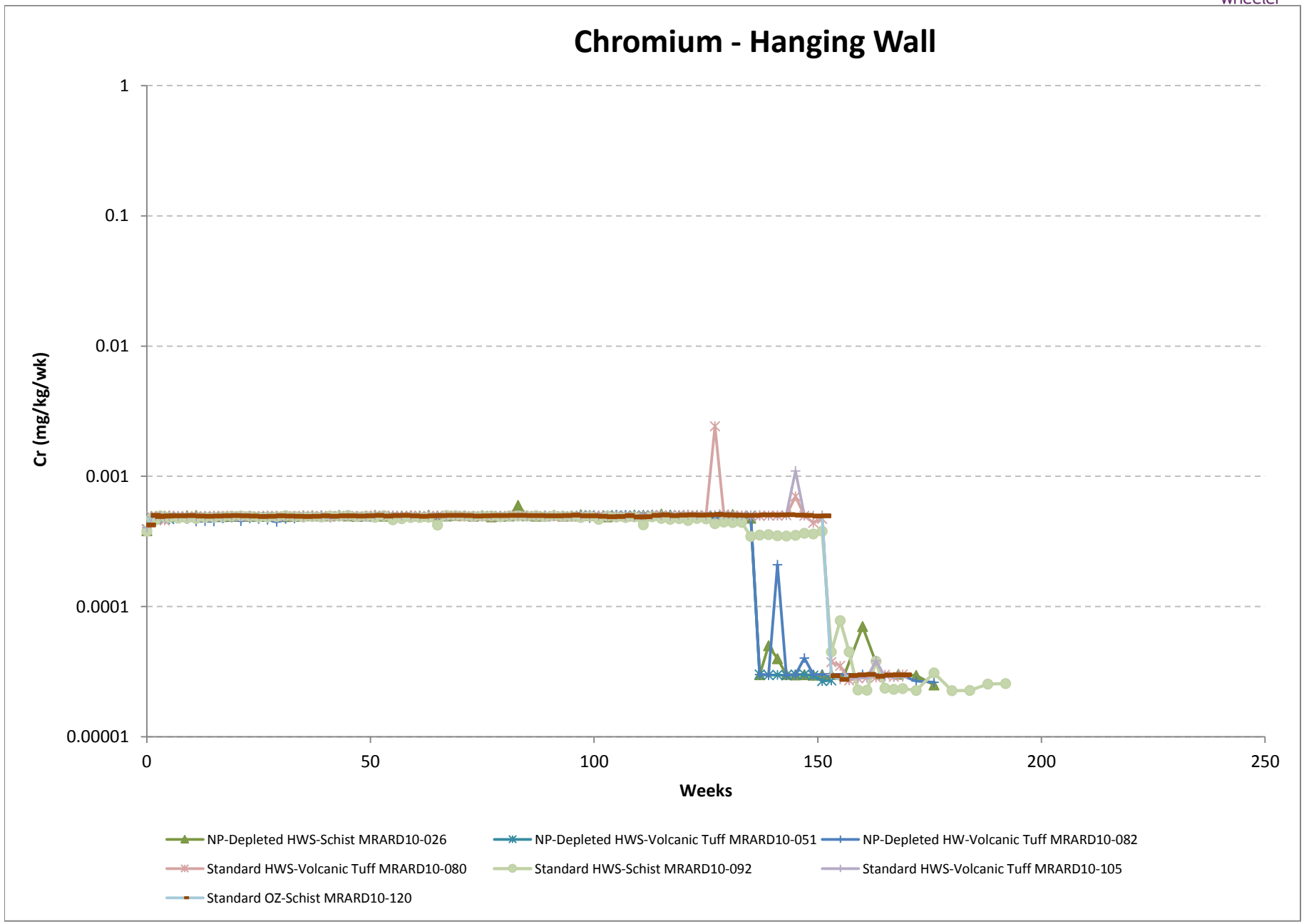

Boron - Hanging Wall
B (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

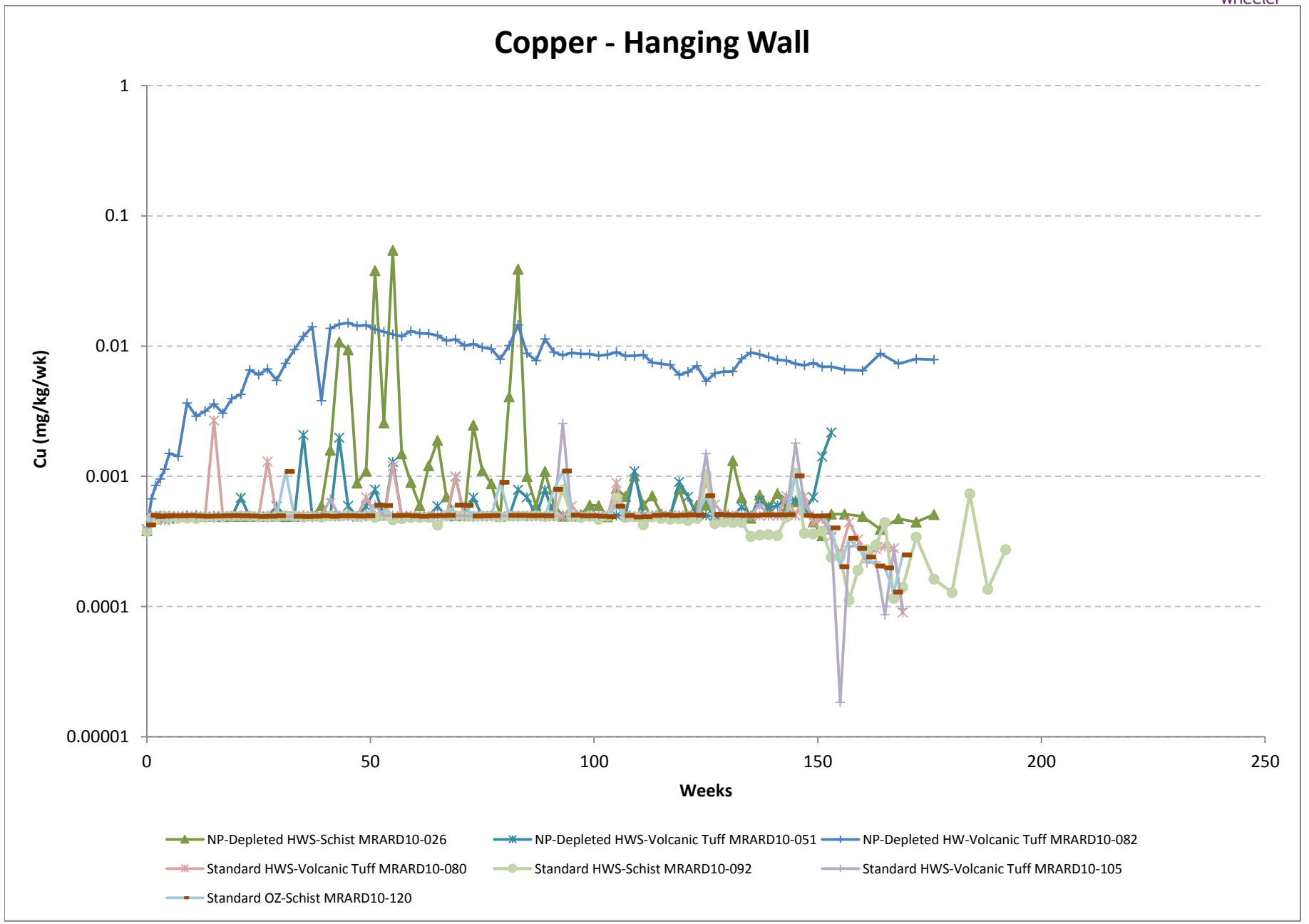

Bismuth - Hanging Wall
Bi (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

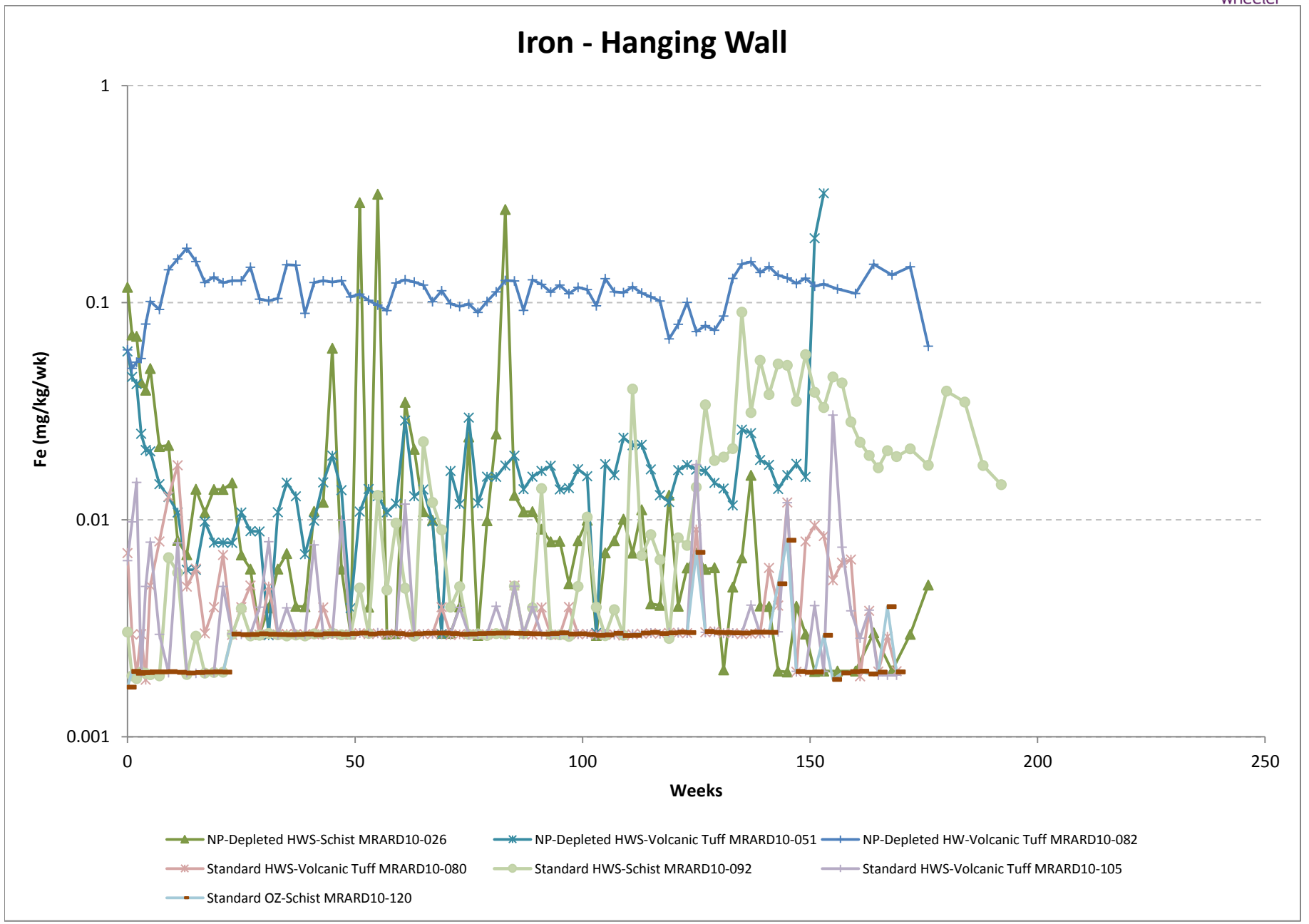

Calcium - Hanging Wall
100
10
1
0.1
0.01
Ca (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

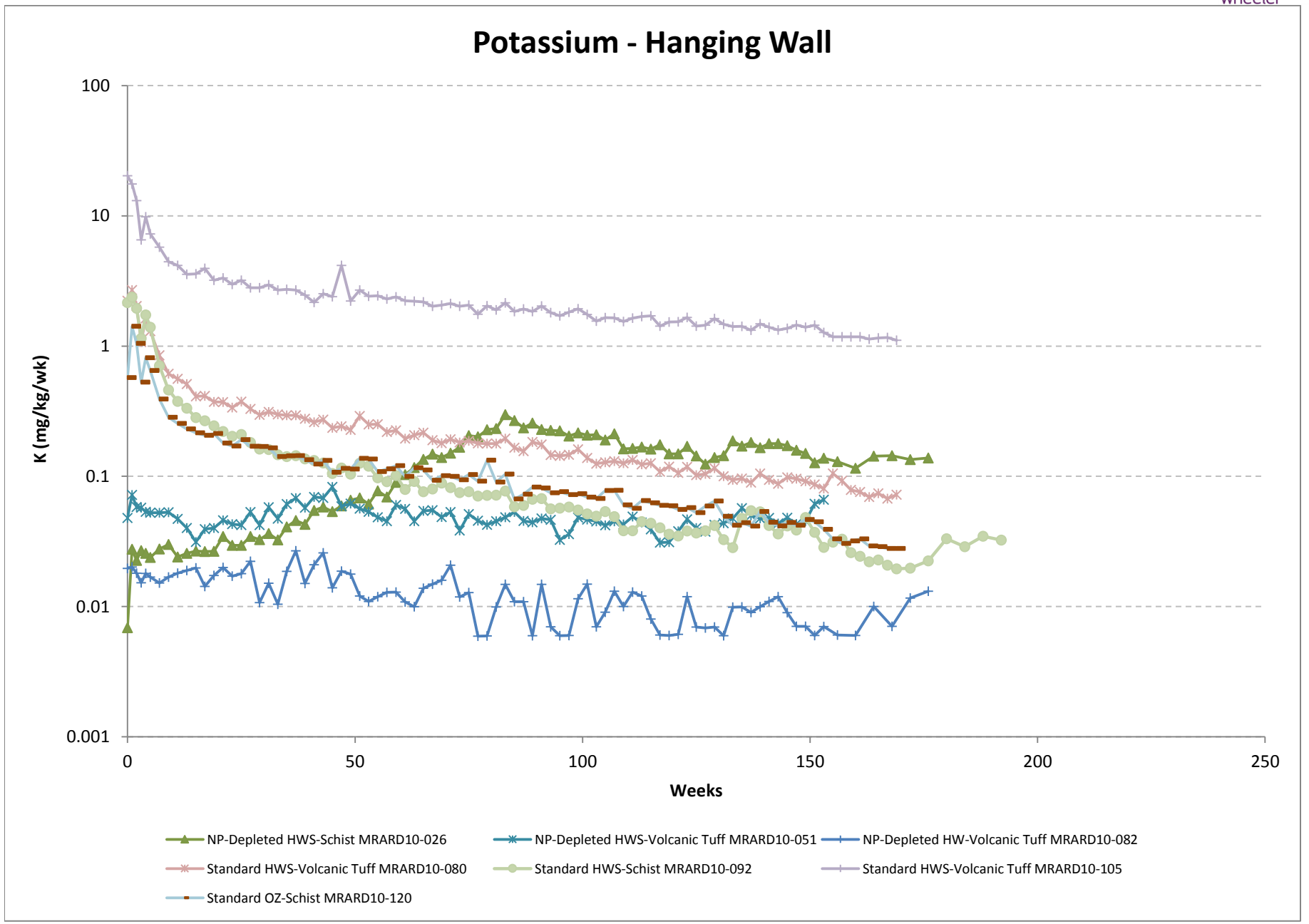

Cadmium - Hanging Wall
Cd (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

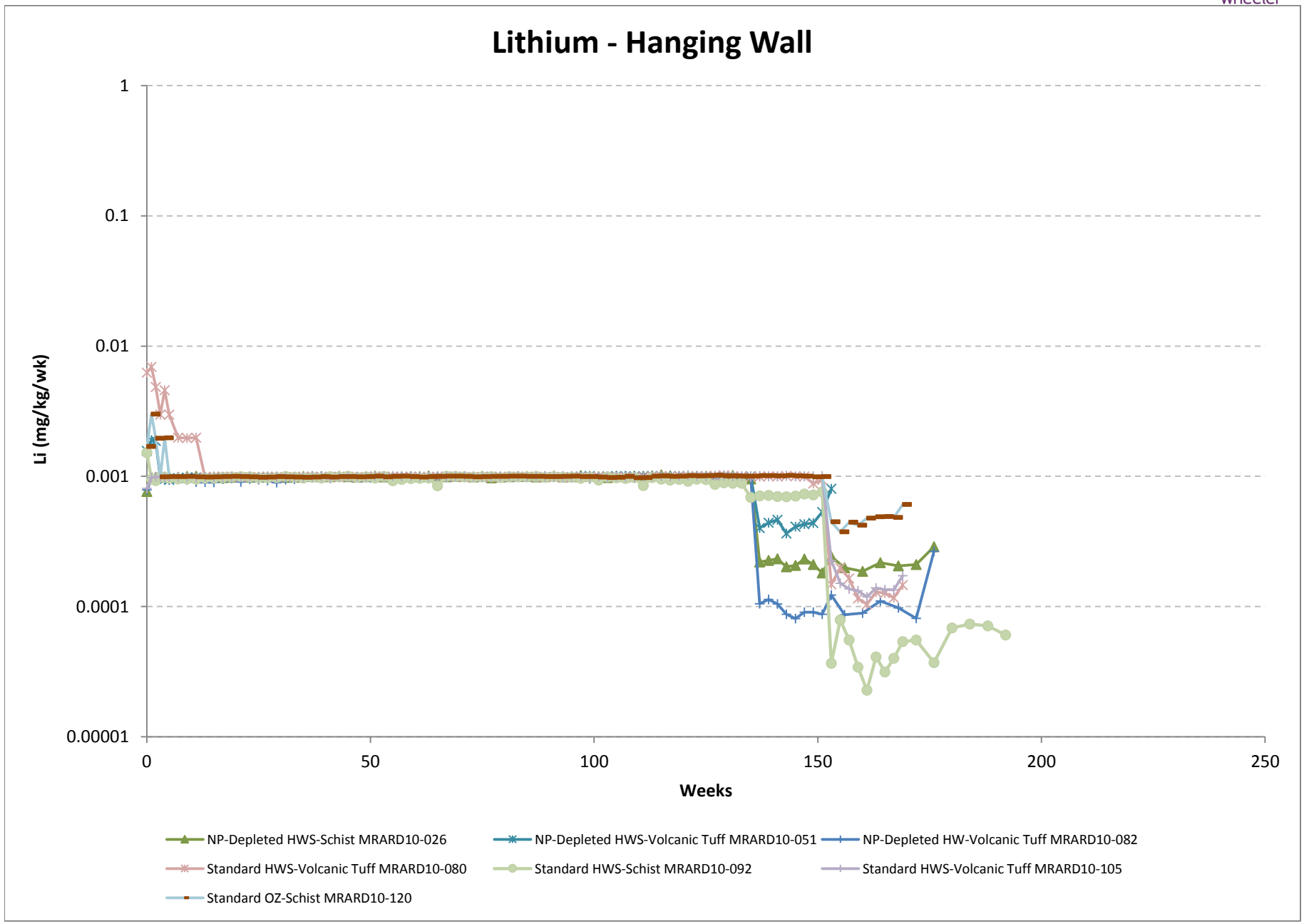

Cobalt - Hanging Wall
Co (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

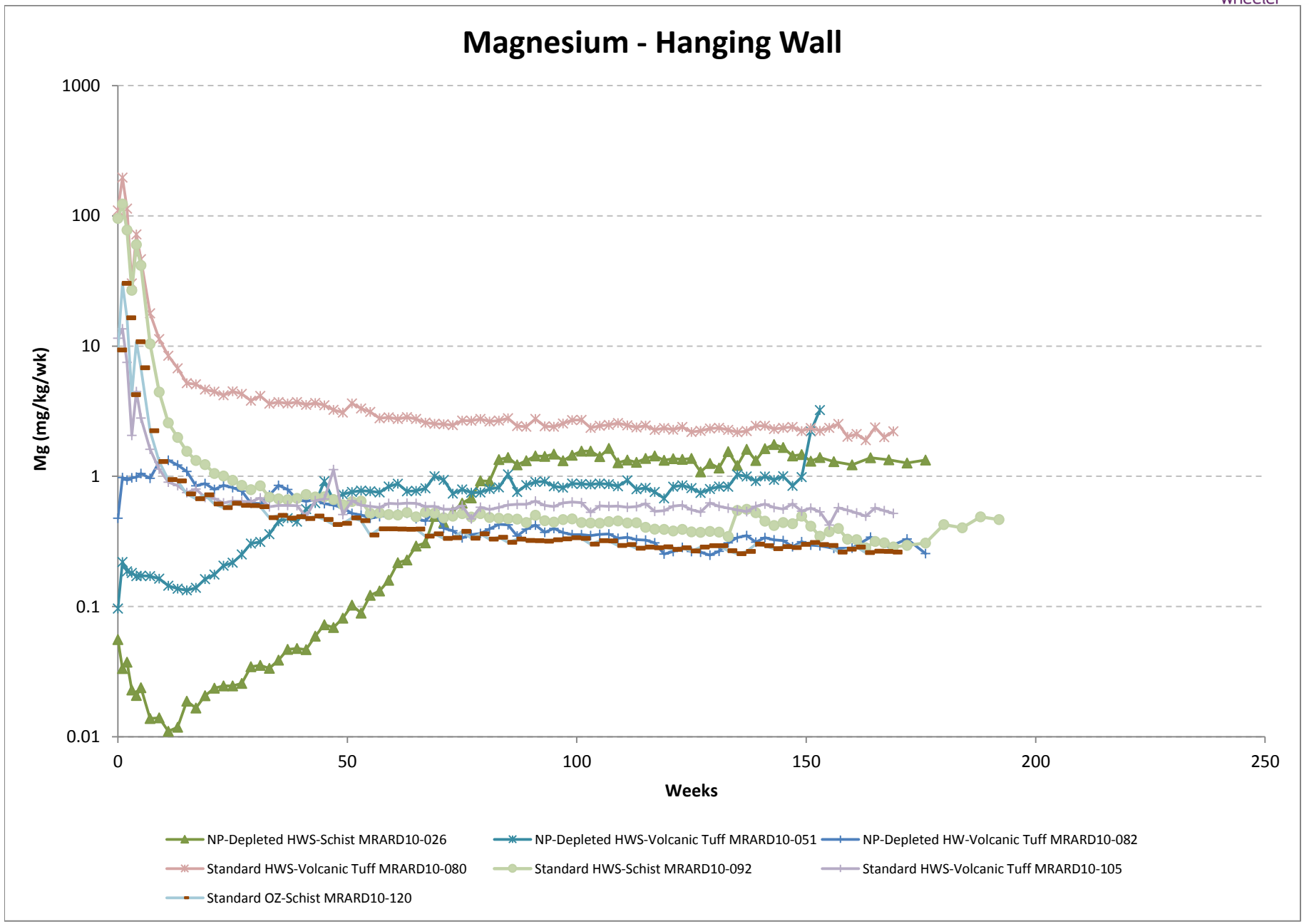

Chromium - Hanging Wall
Cr (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

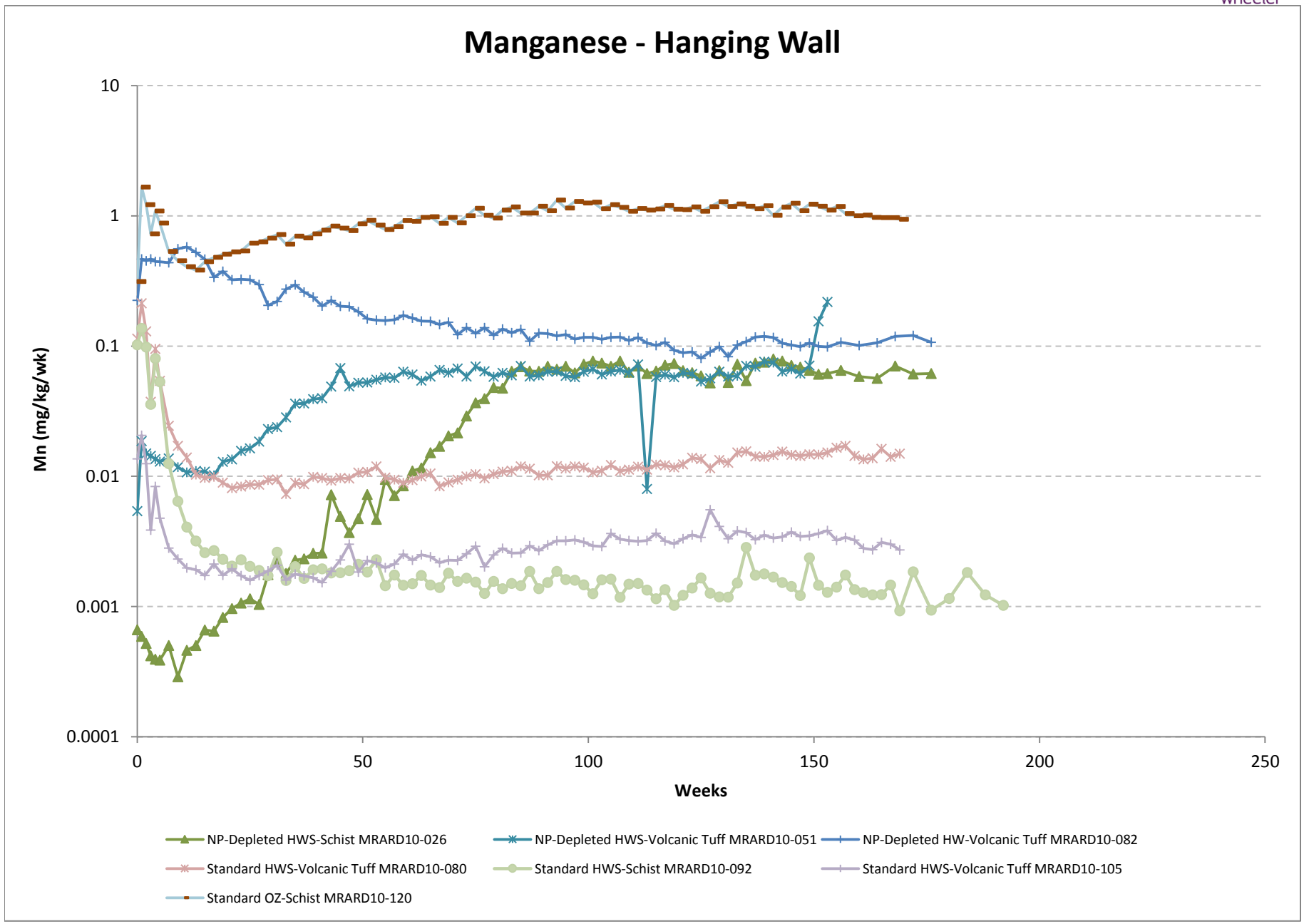

Copper - Hanging Wall
Cu (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

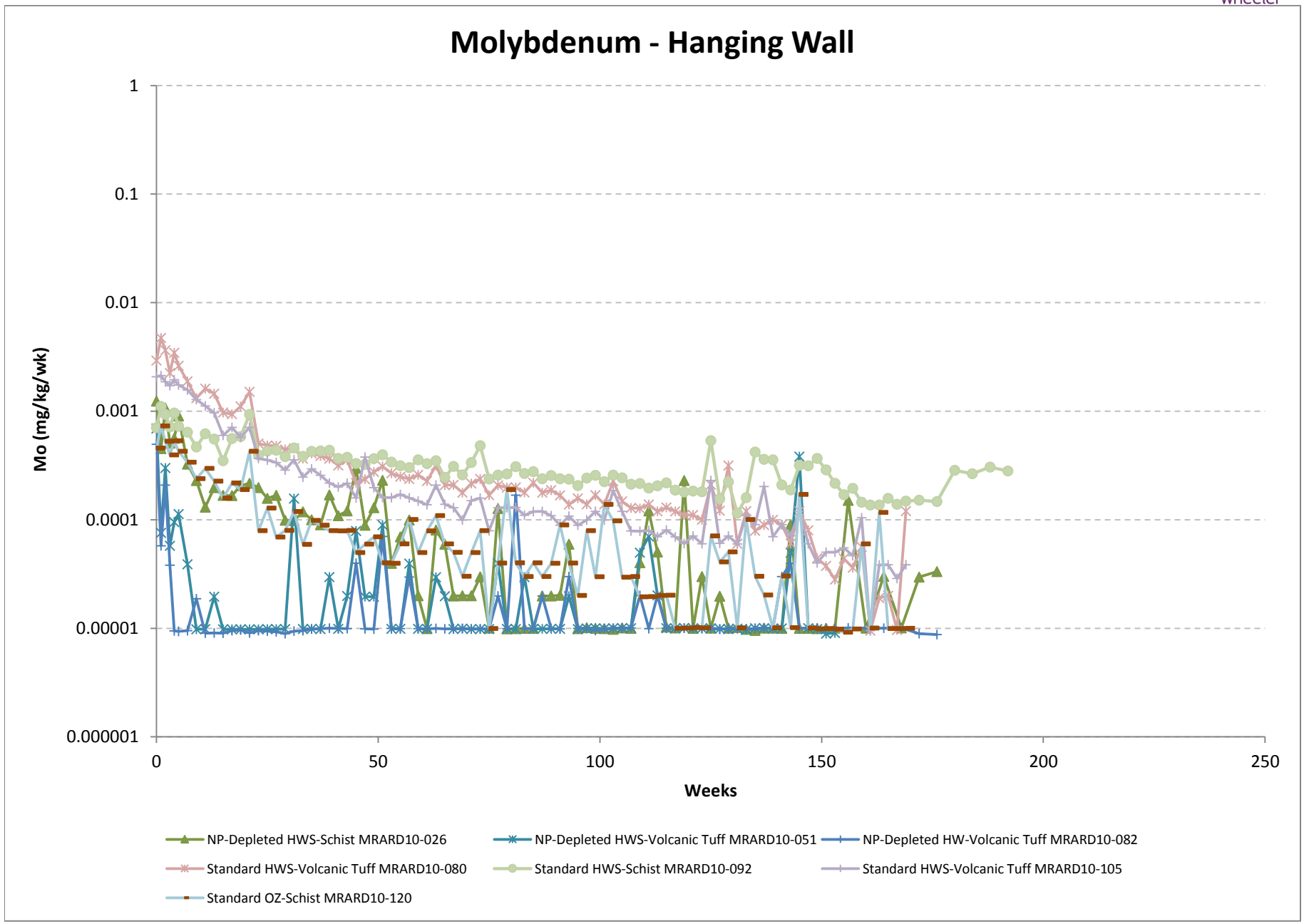

Iron - Hanging Wall
1
0.1
0.01
0.001
Fe (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

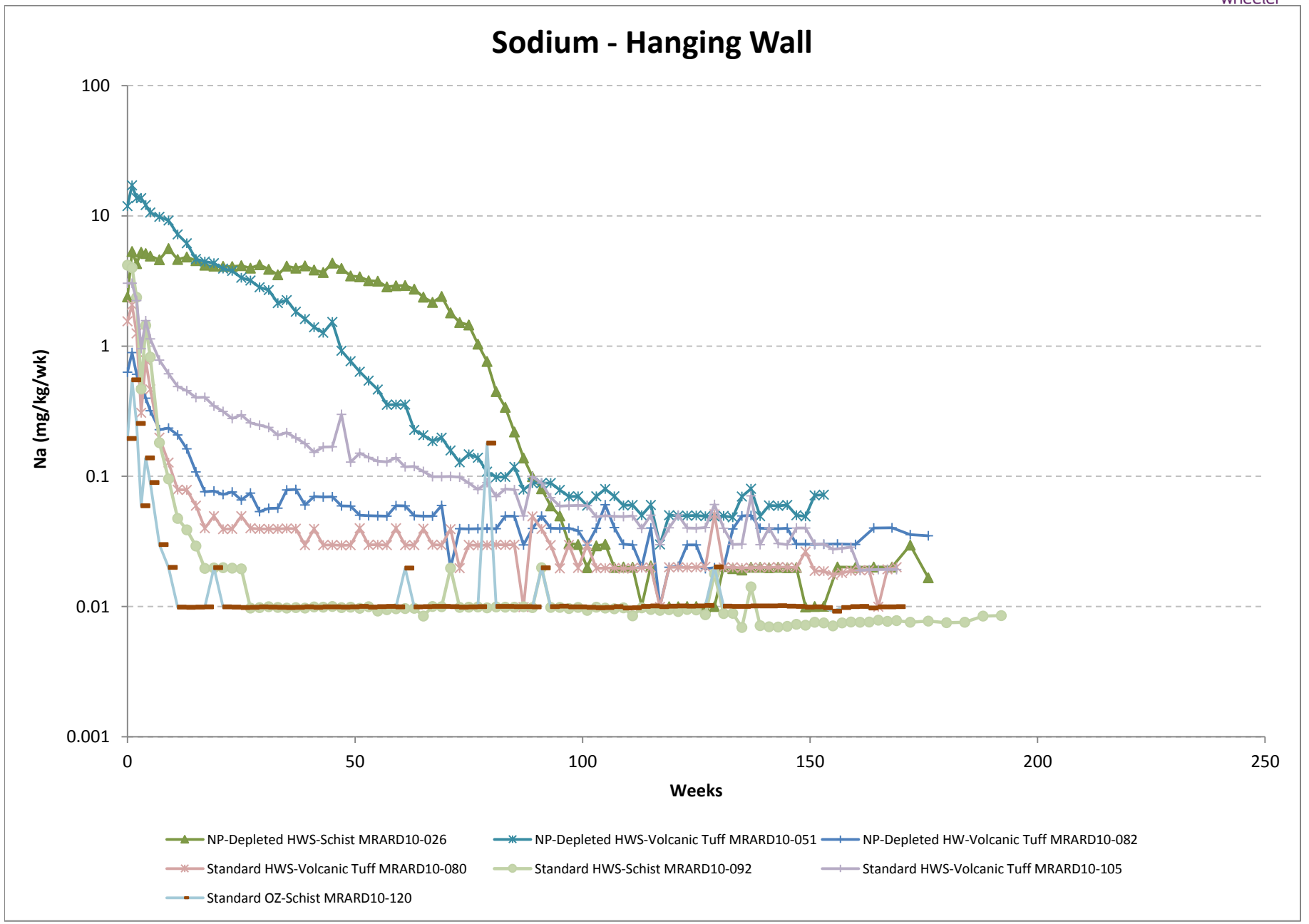

Potassium - Hanging Wall
K (mg/kg/wk)
100
10
1
0.1
0.01
0.001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

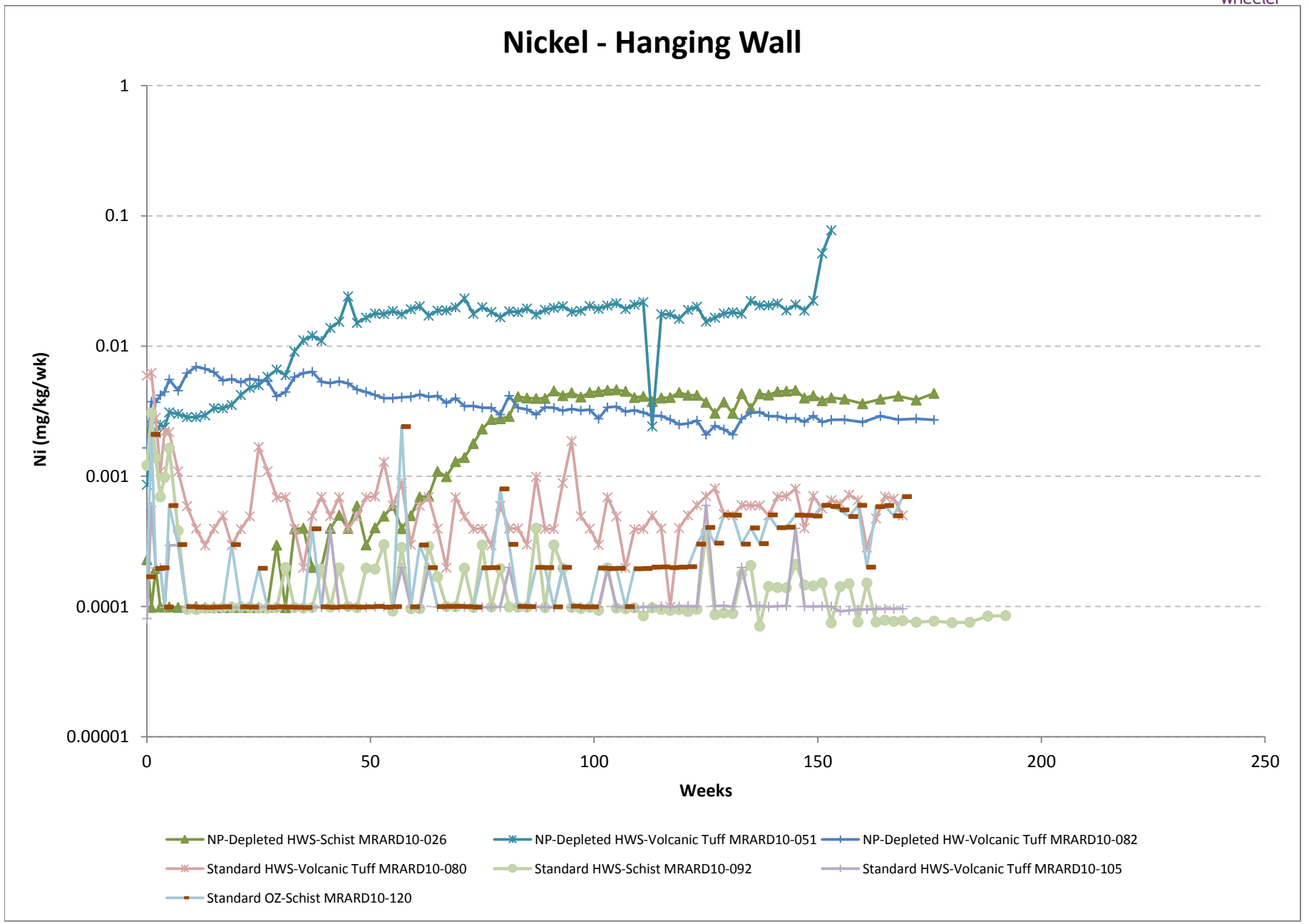

Lithium - Hanging Wall
Li (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

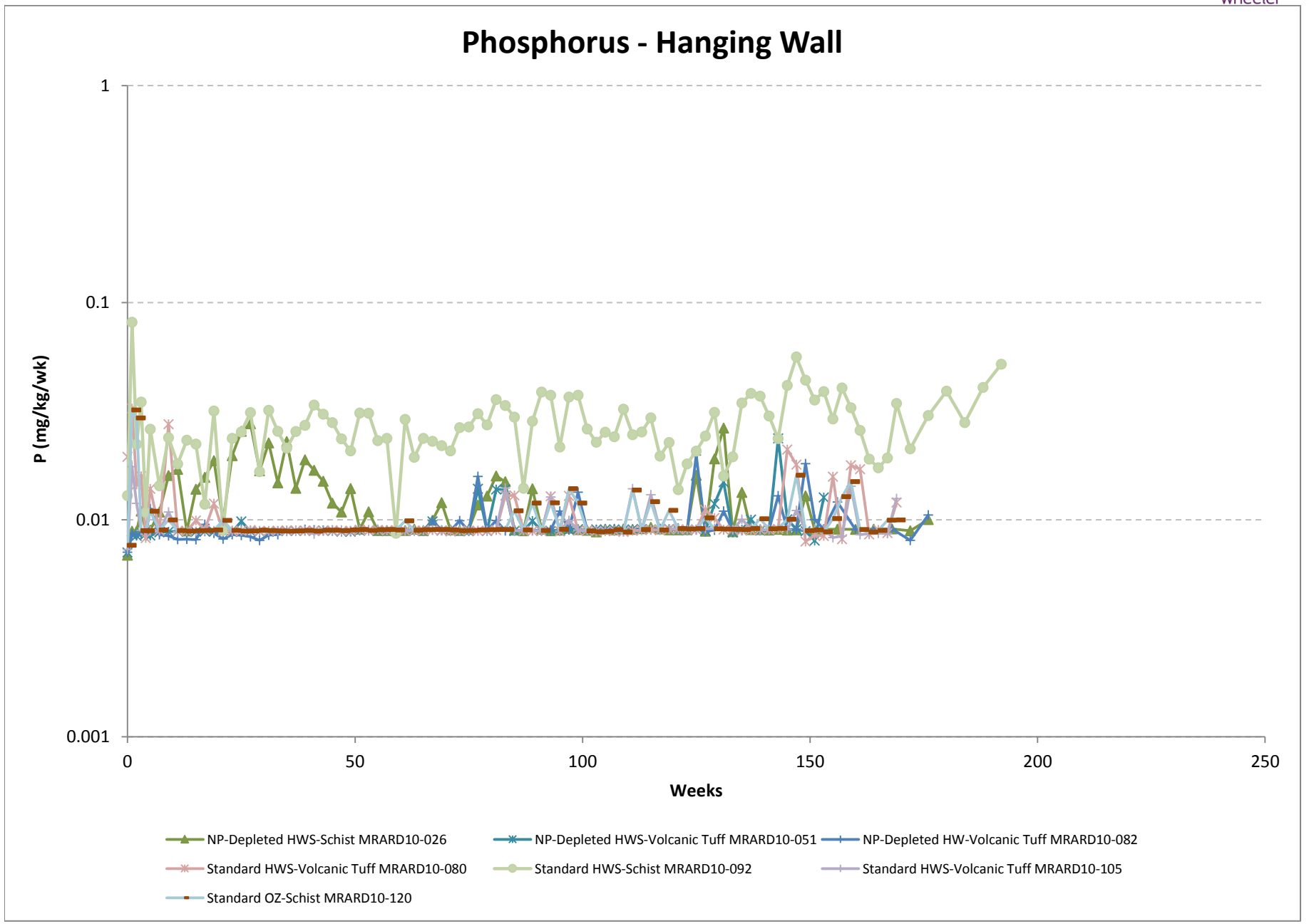

Magnesium - Hanging Wall
1000
100
10
1
0.1
0.01
Mg (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

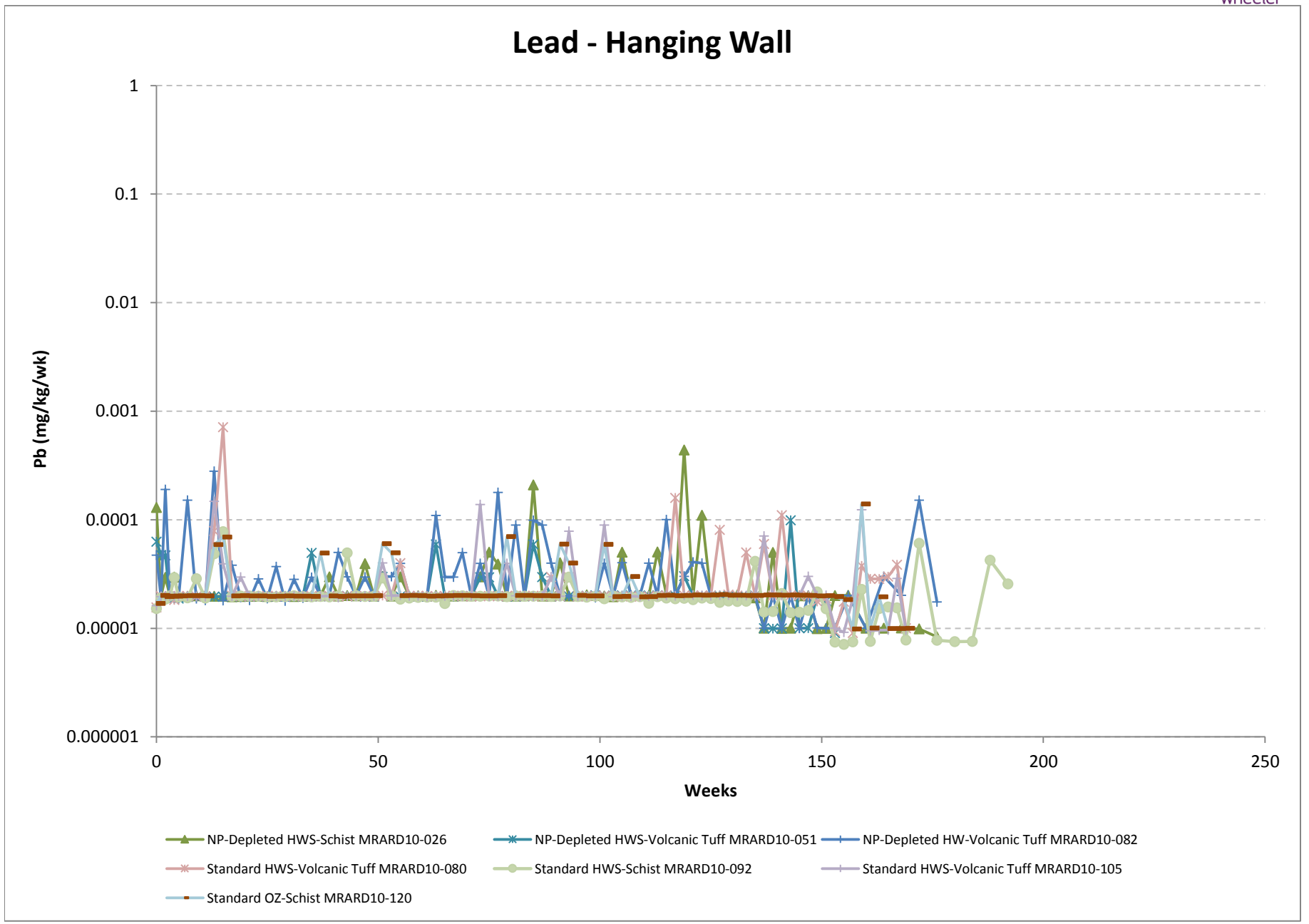

Manganese - Hanging Wall
Mn (mg/kg/wk)
10
1
0.1
0.01
0.001
0.0001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

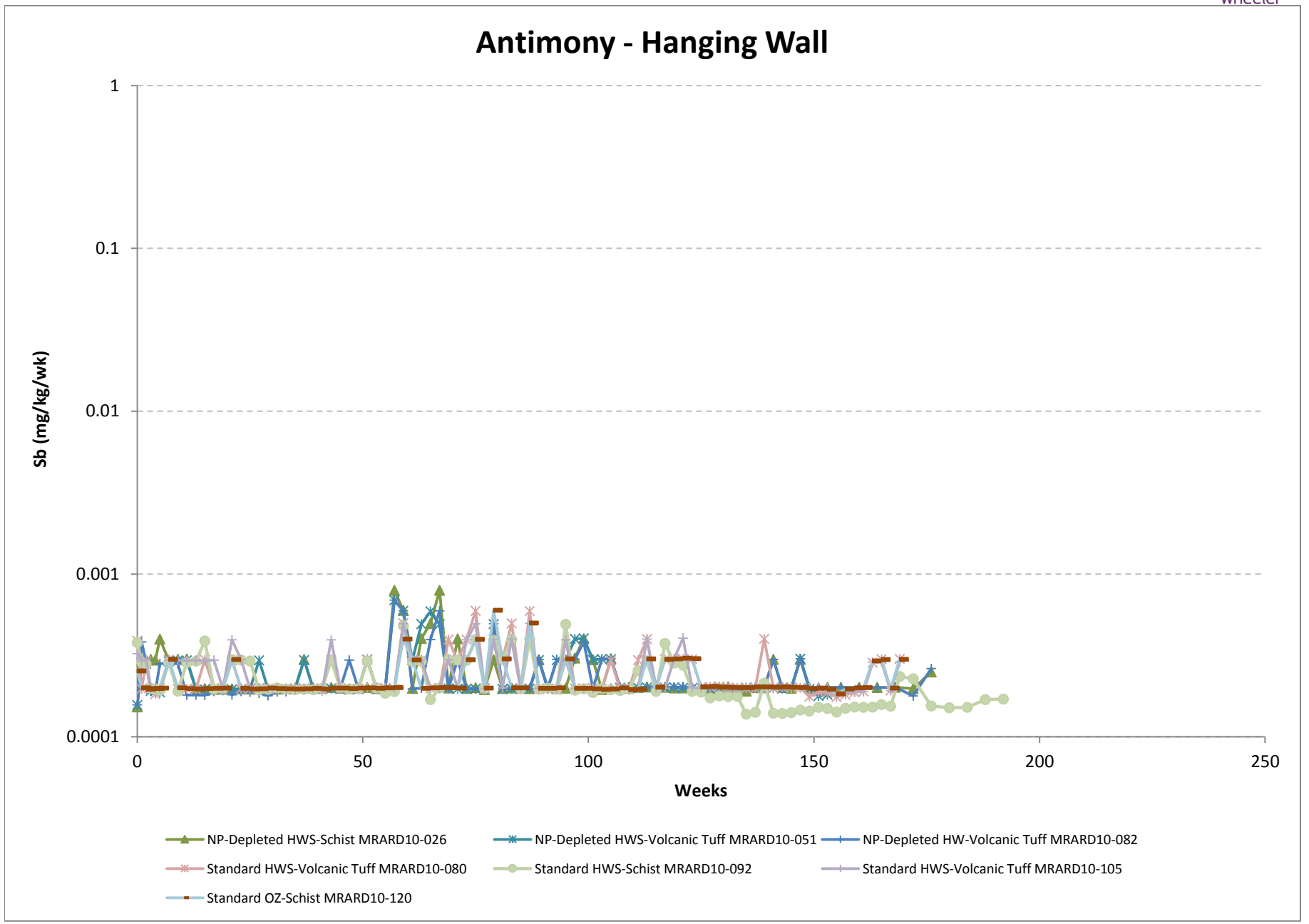

Molybdenum - Hanging Wall
Mo (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

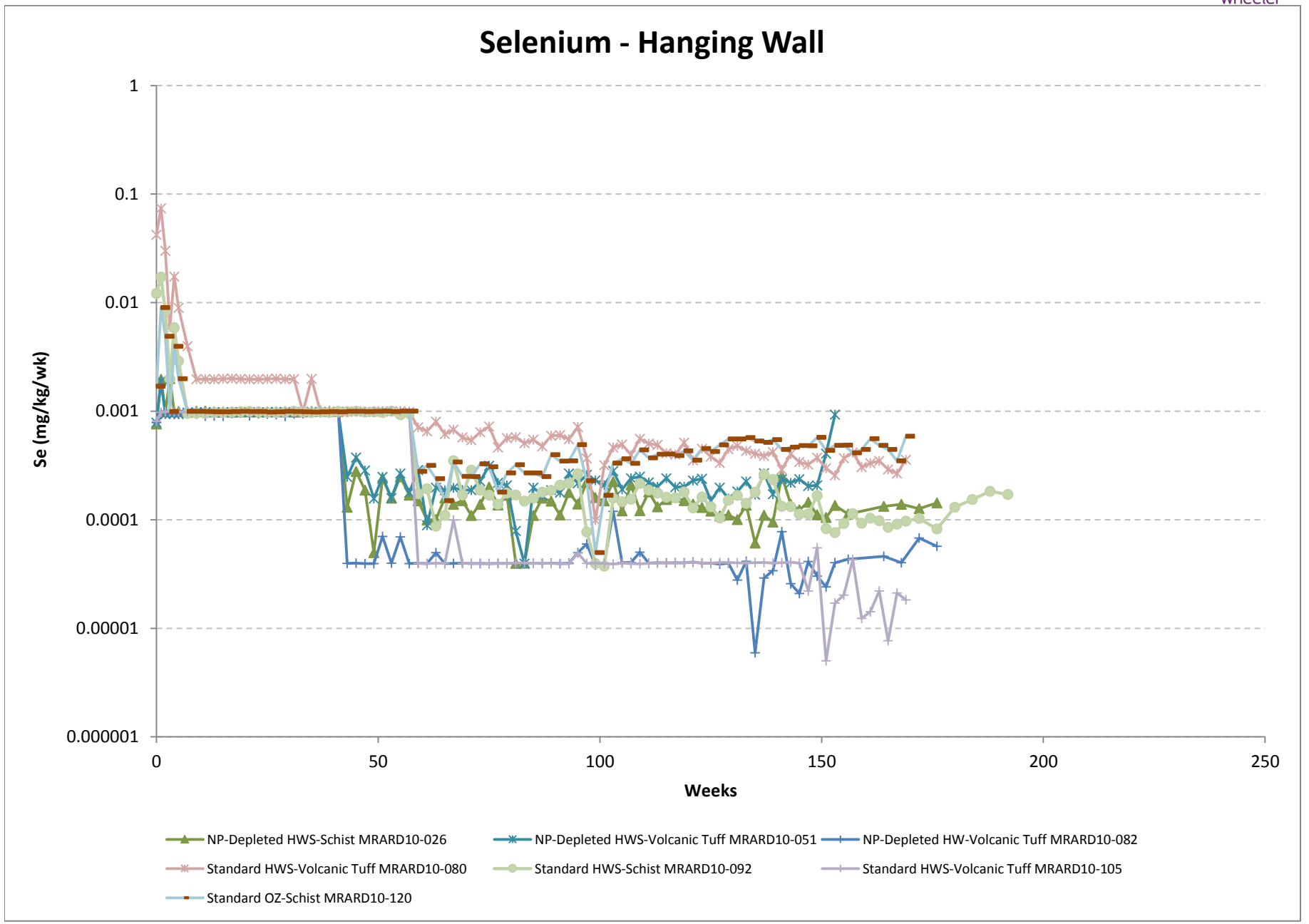

Sodium - Hanging Wall
Na (mg/kg/wk)
100
10
1
0.1
0.01
0.001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

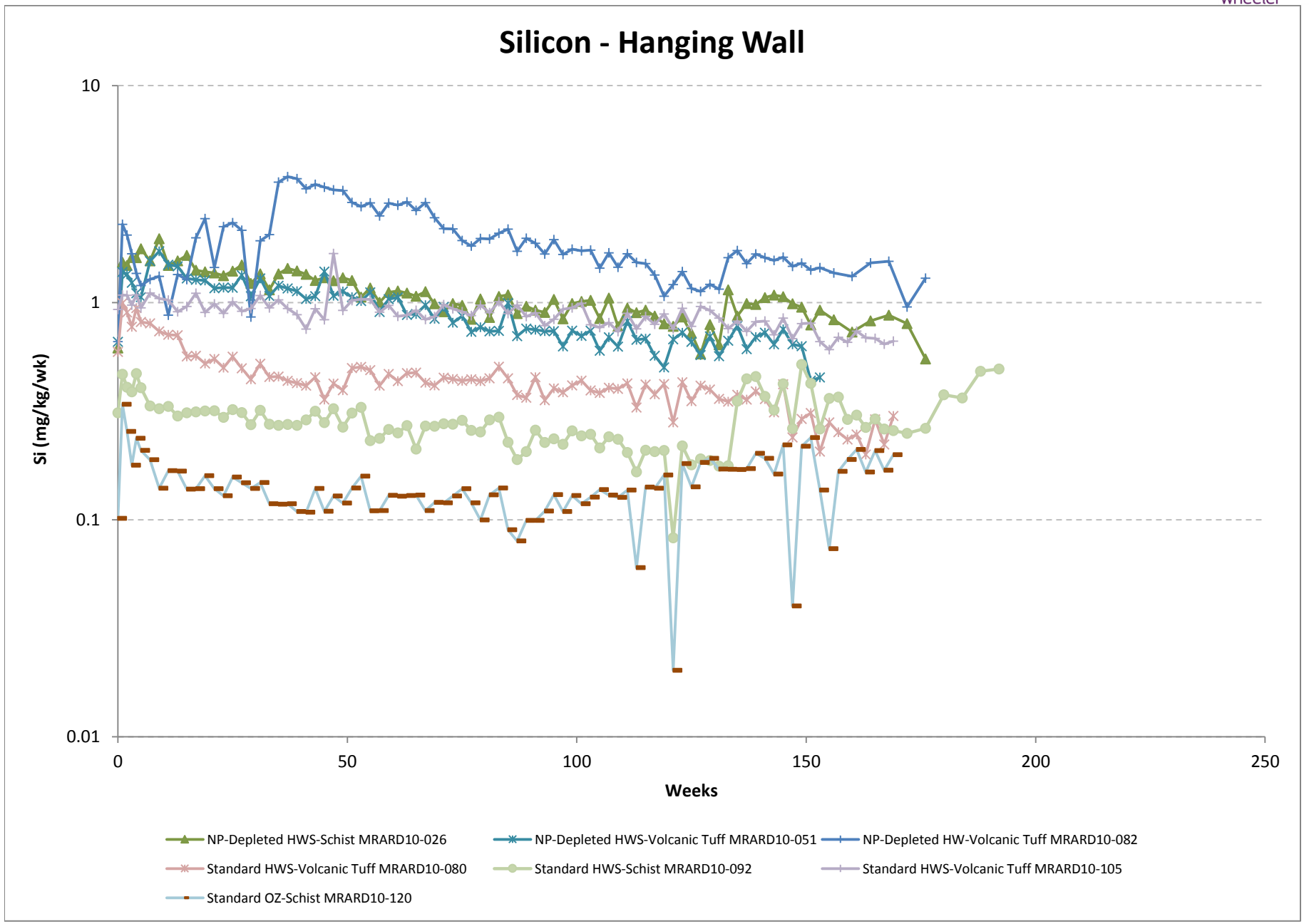

Nickel - Hanging Wall
Ni (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

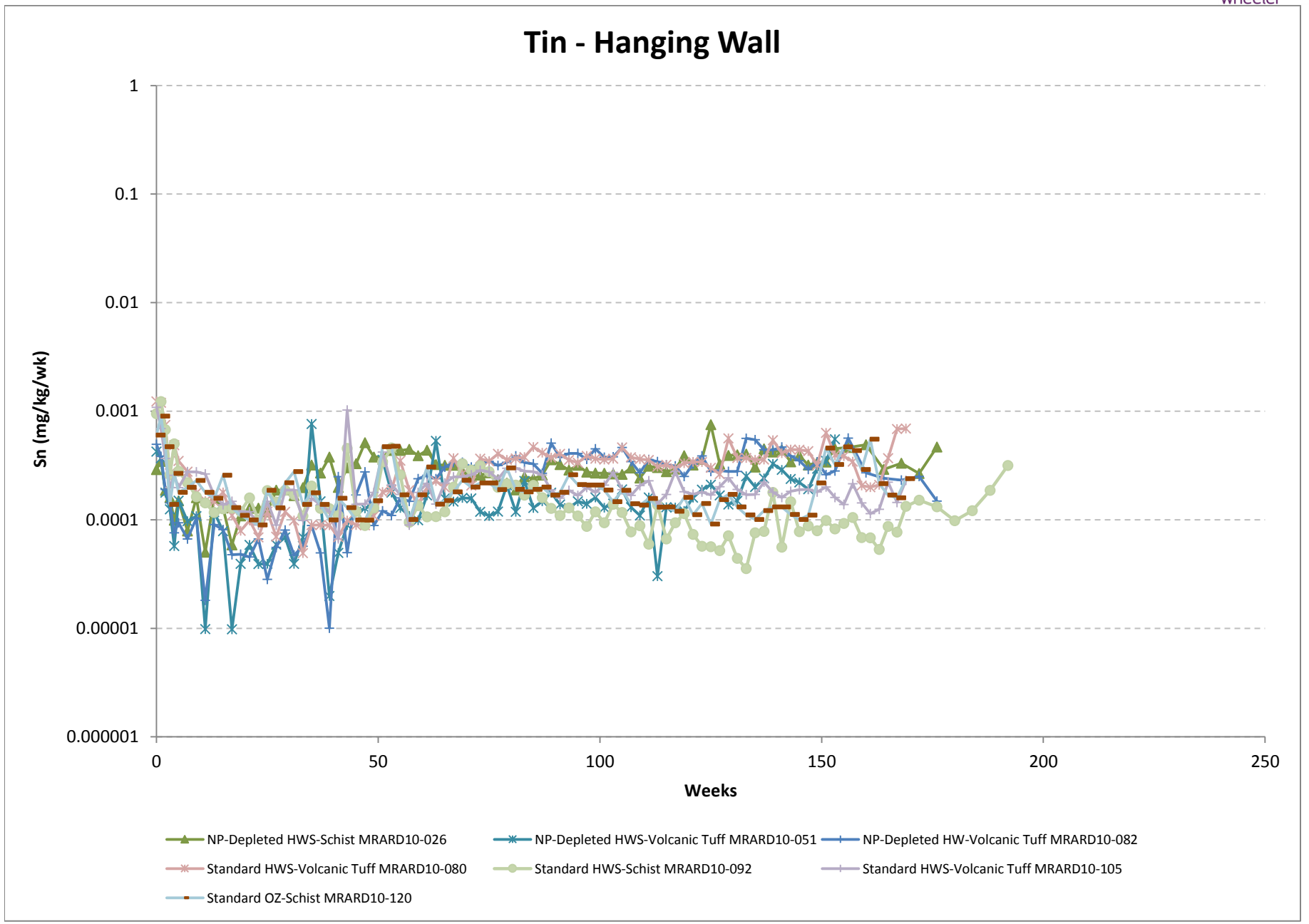

Phosphorus - Hanging Wall
1
0.1
0.01
0.001
P (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

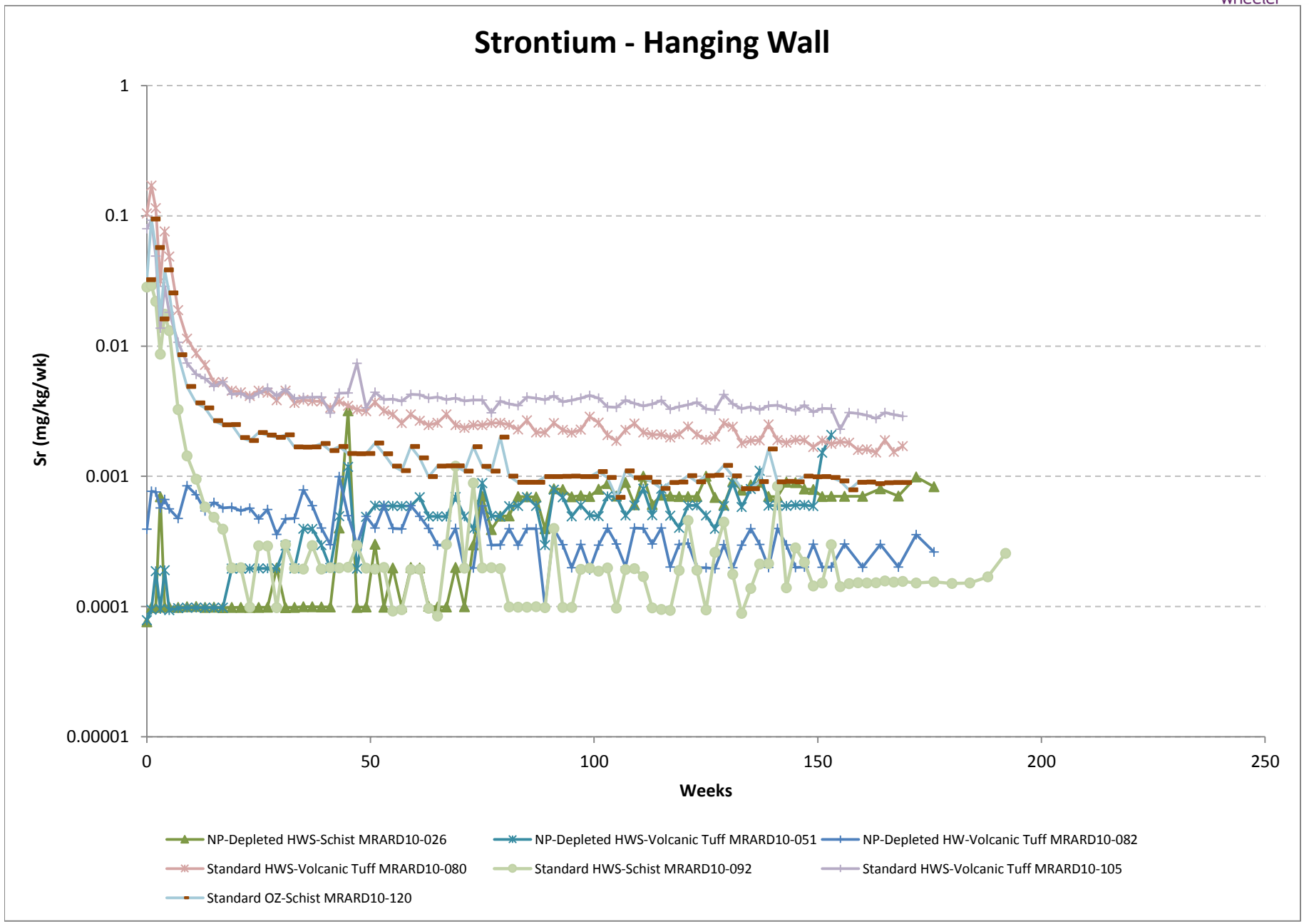

Lead - Hanging Wall
Pb (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

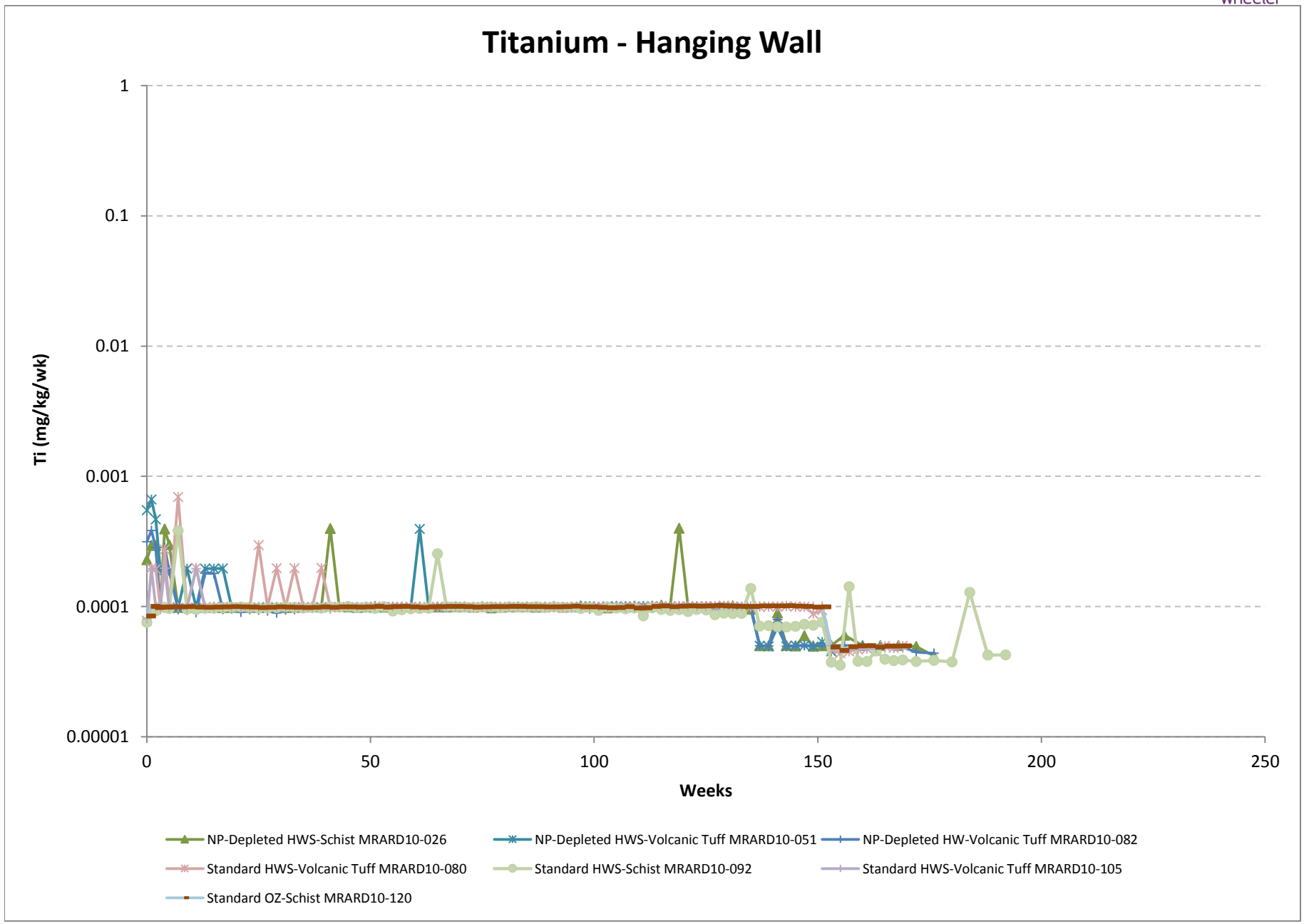

Antimony - Hanging Wall
Sb (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

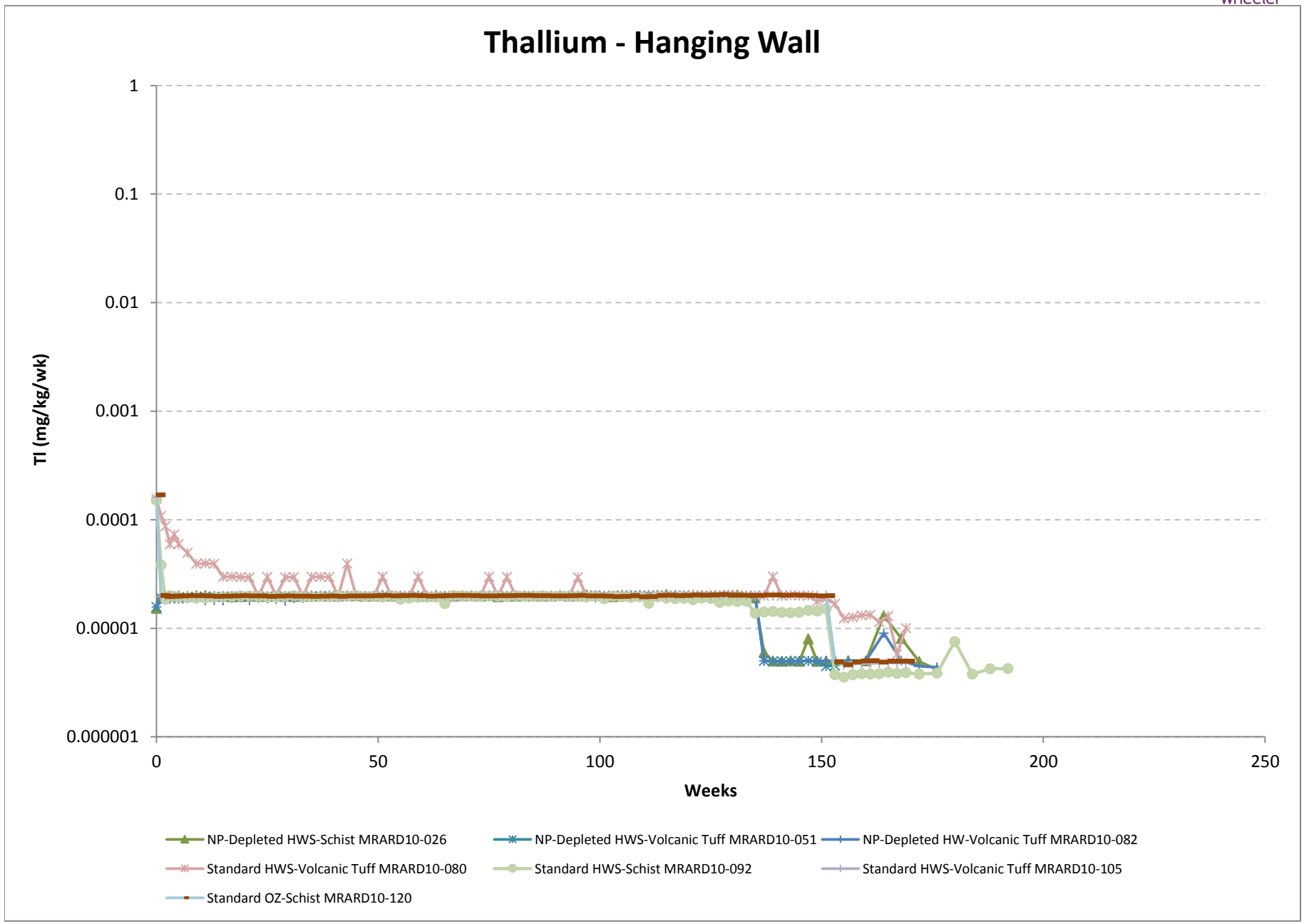

Selenium - Hanging Wall
Se (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

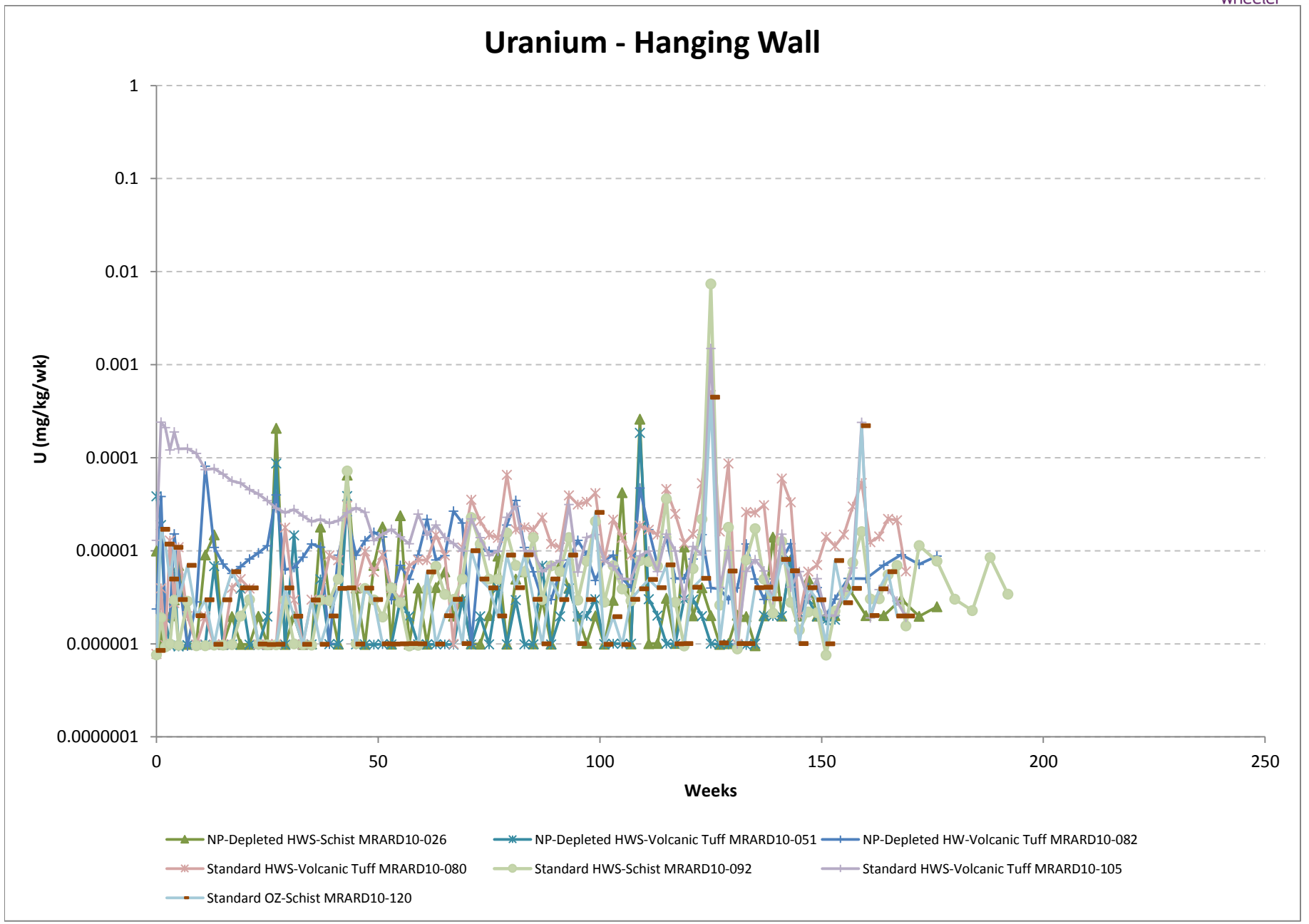

Silicon - Hanging Wall
10
1
0.1
0.01
Si (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

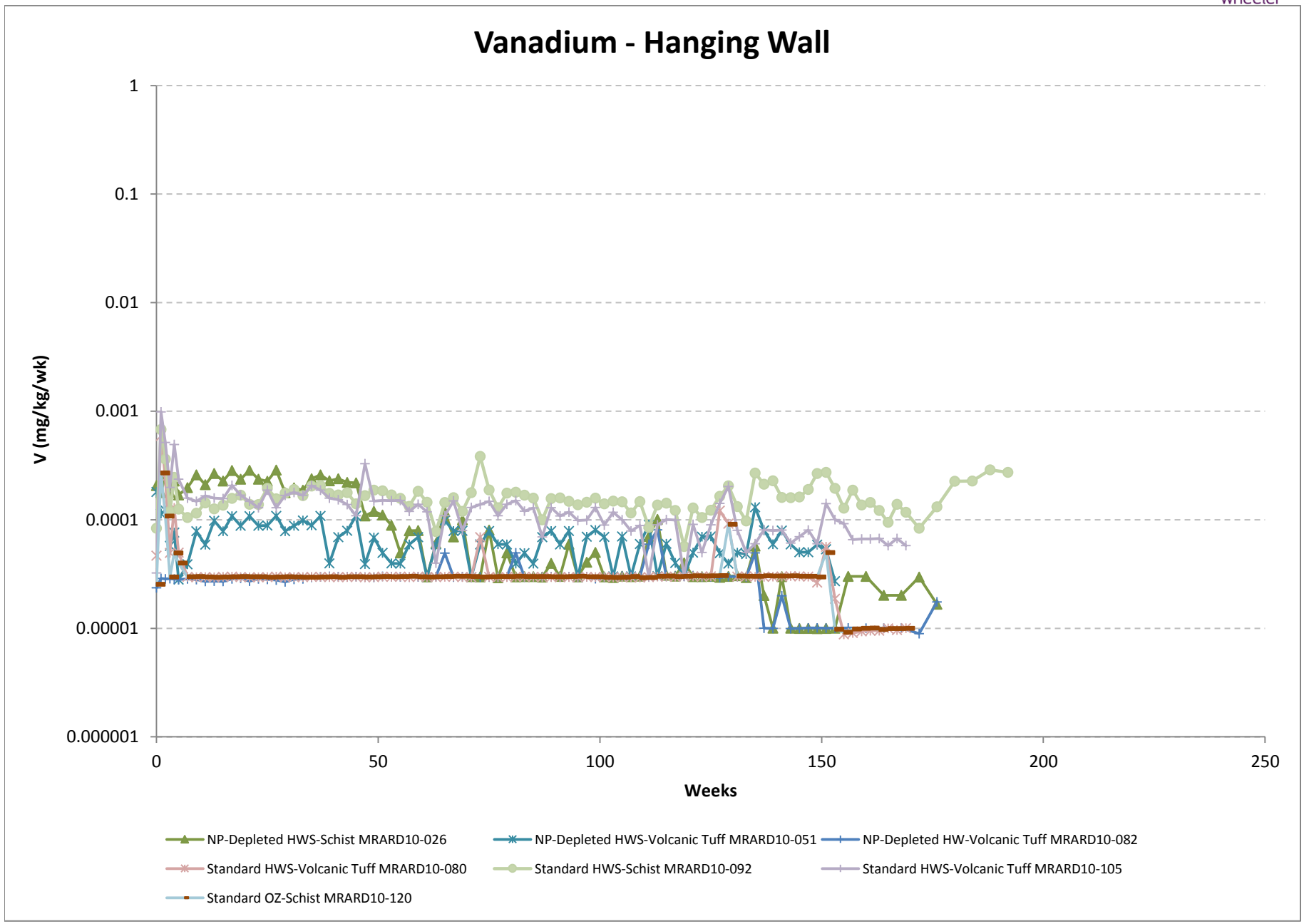

Tin - Hanging Wall
Sn (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

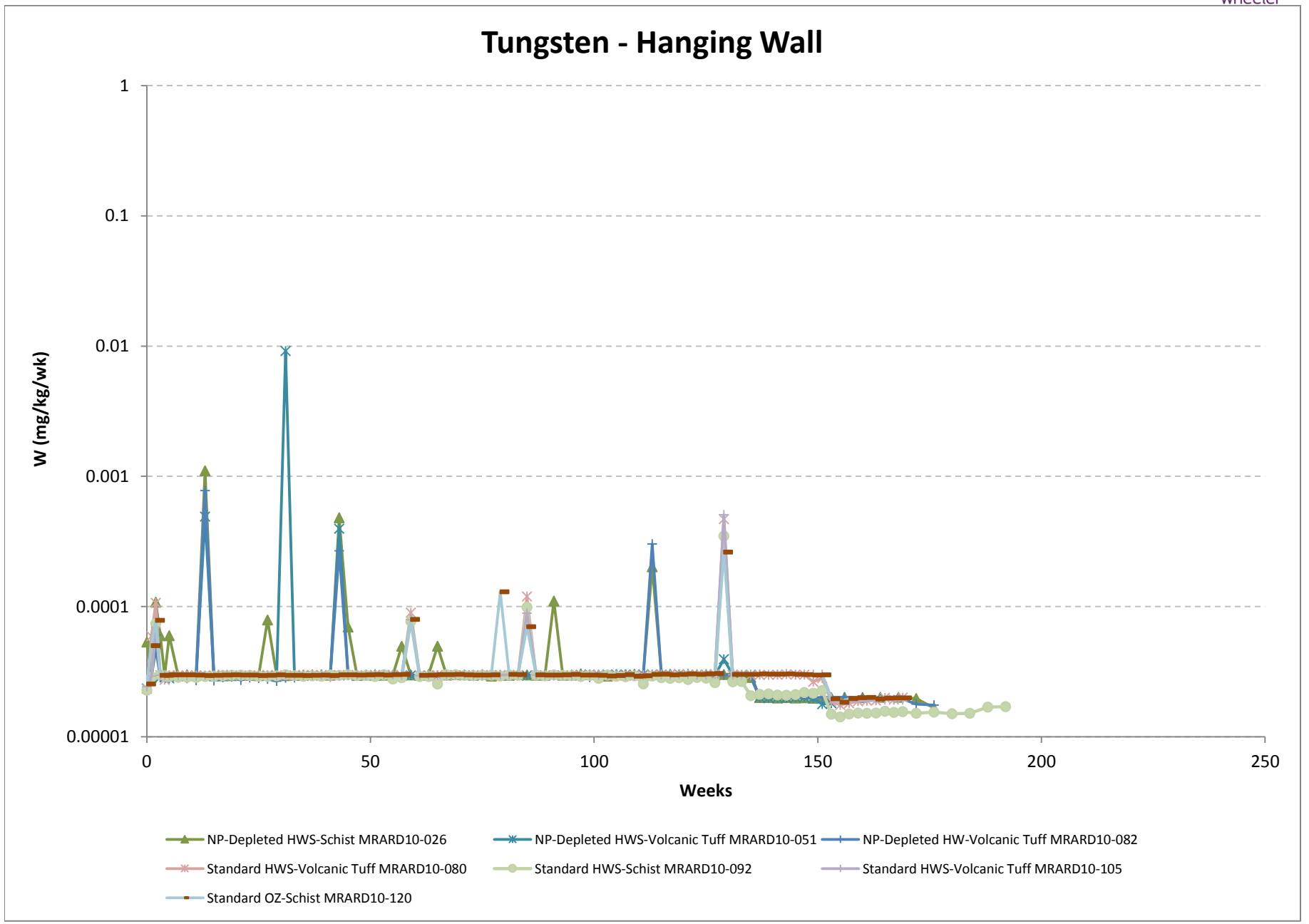

Strontium - Hanging Wall
Sr (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

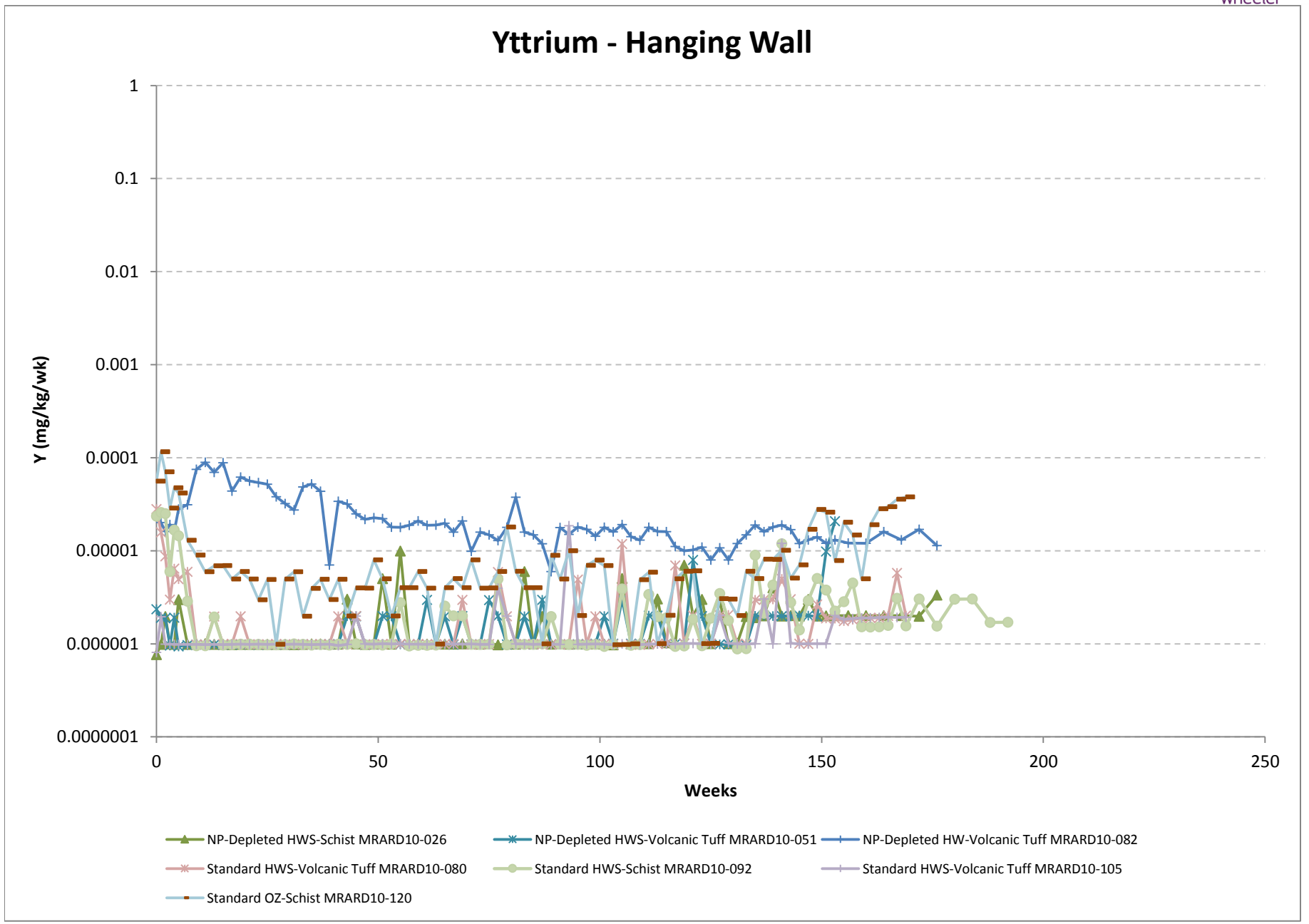

Titanium - Hanging Wall
Ti (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

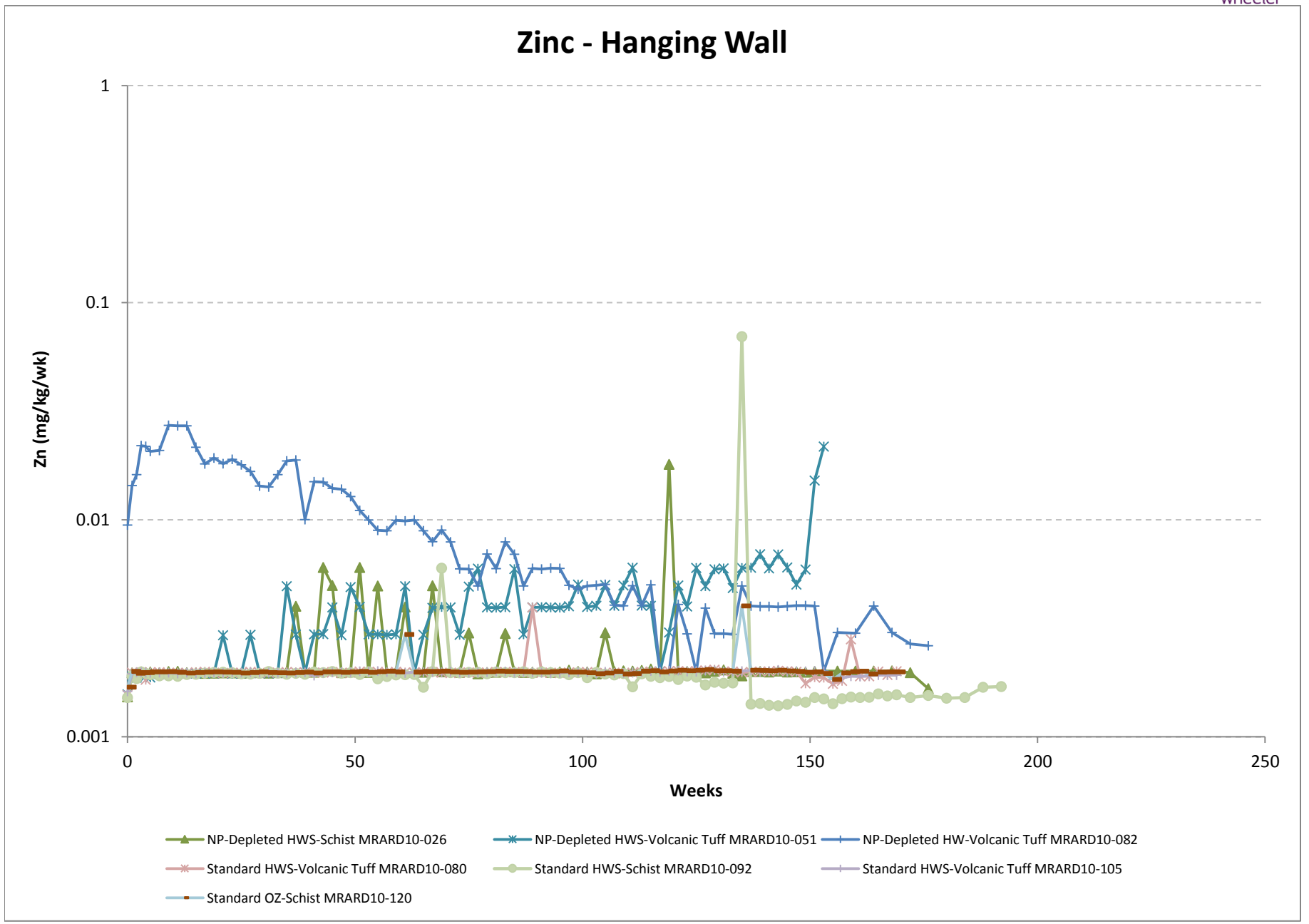

Thallium - Hanging Wall
Tl (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120


Uranium - Hanging Wall
U (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0.0000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

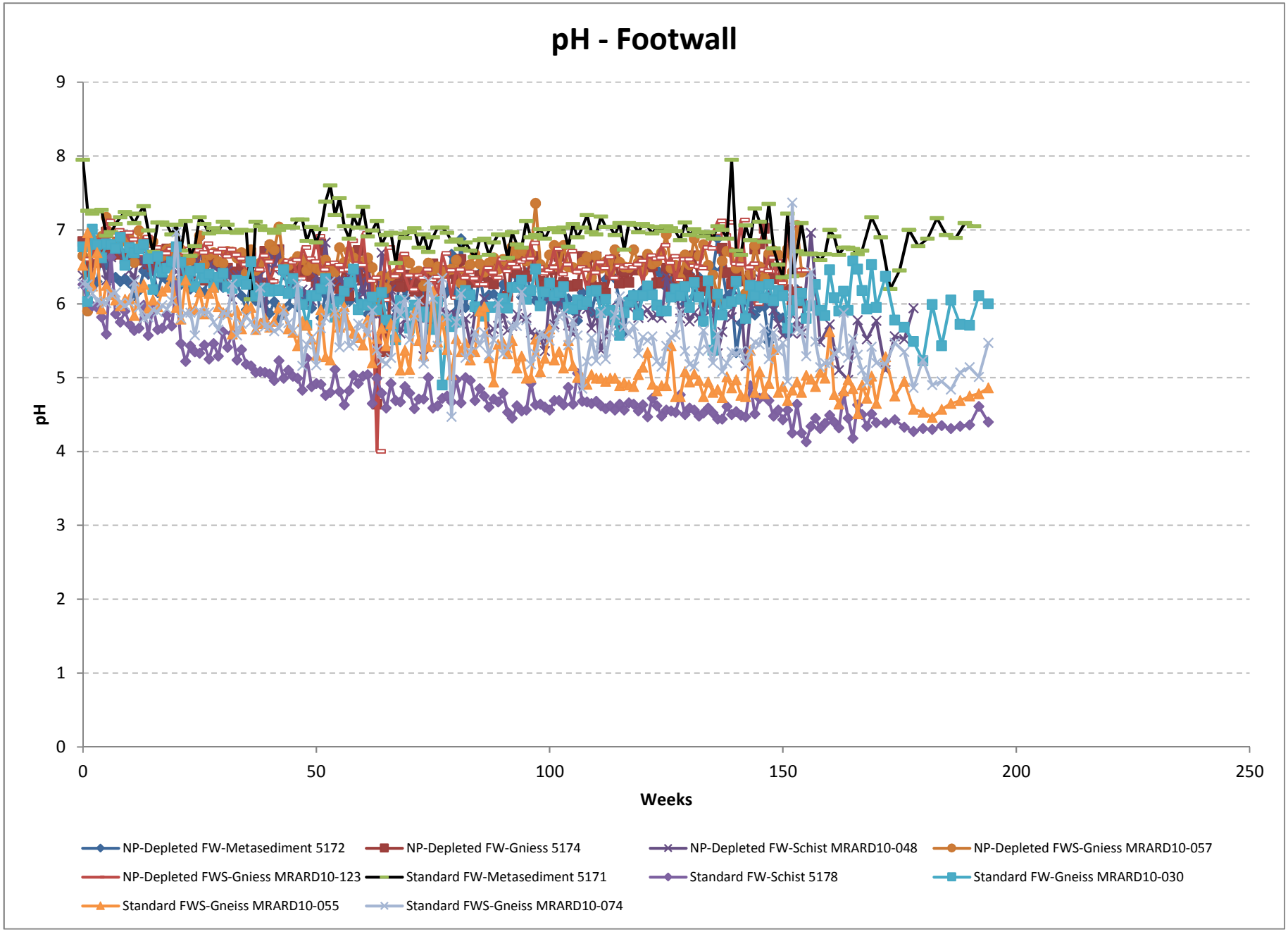

Vanadium - Hanging Wall
V (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

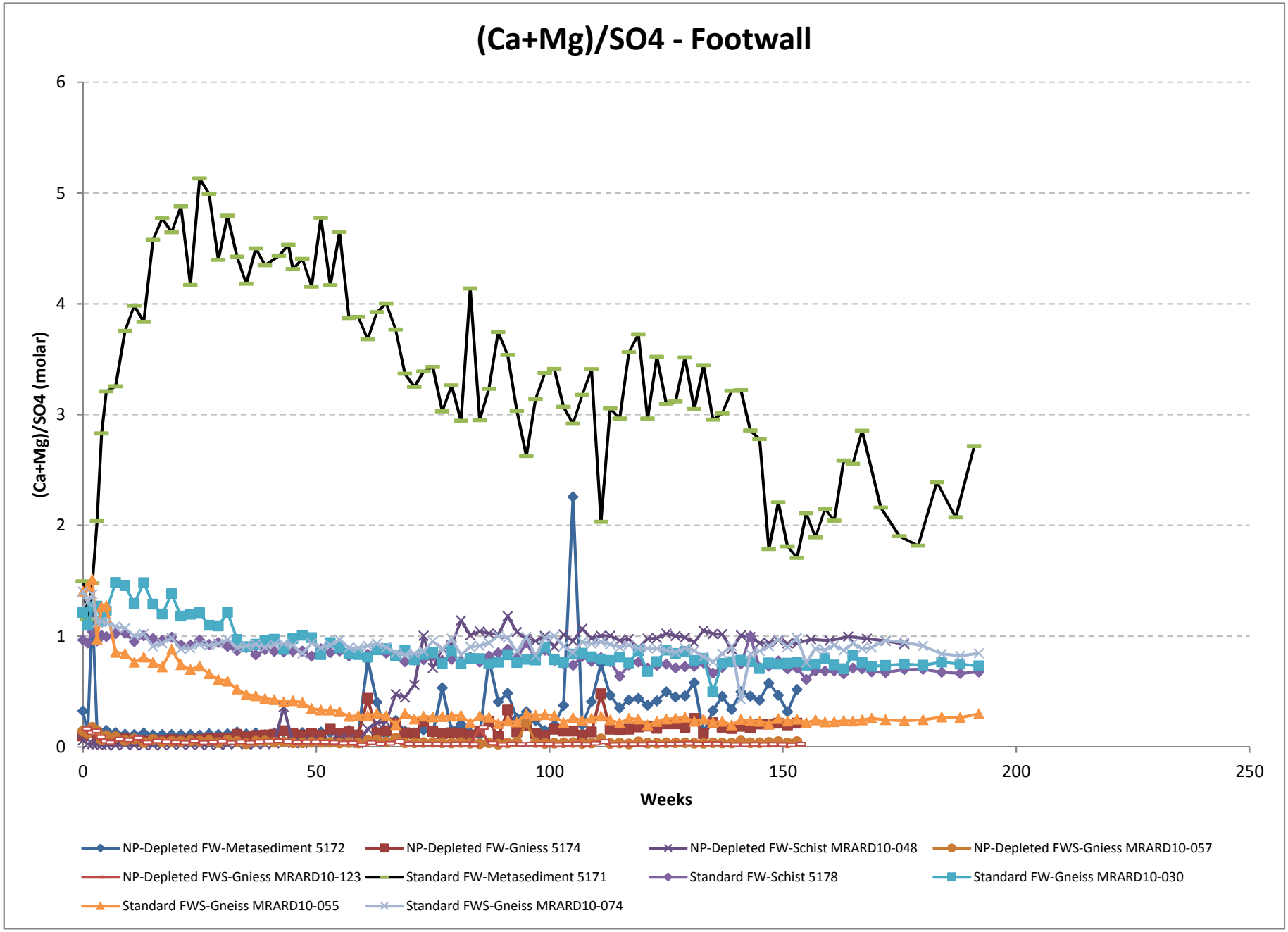

Tungsten - Hanging Wall
W (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

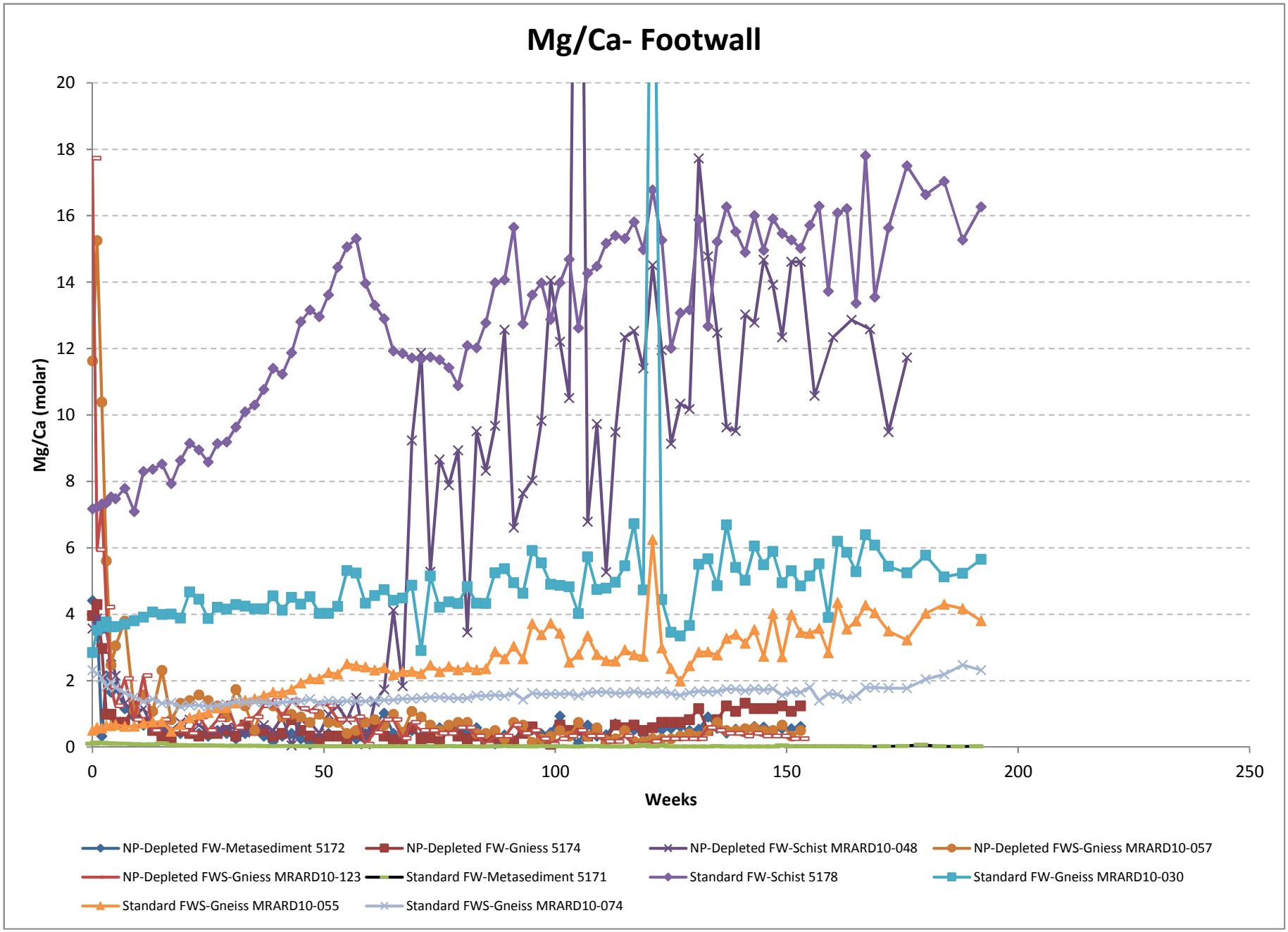

Yttrium - Hanging Wall
Y (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0.0000001
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

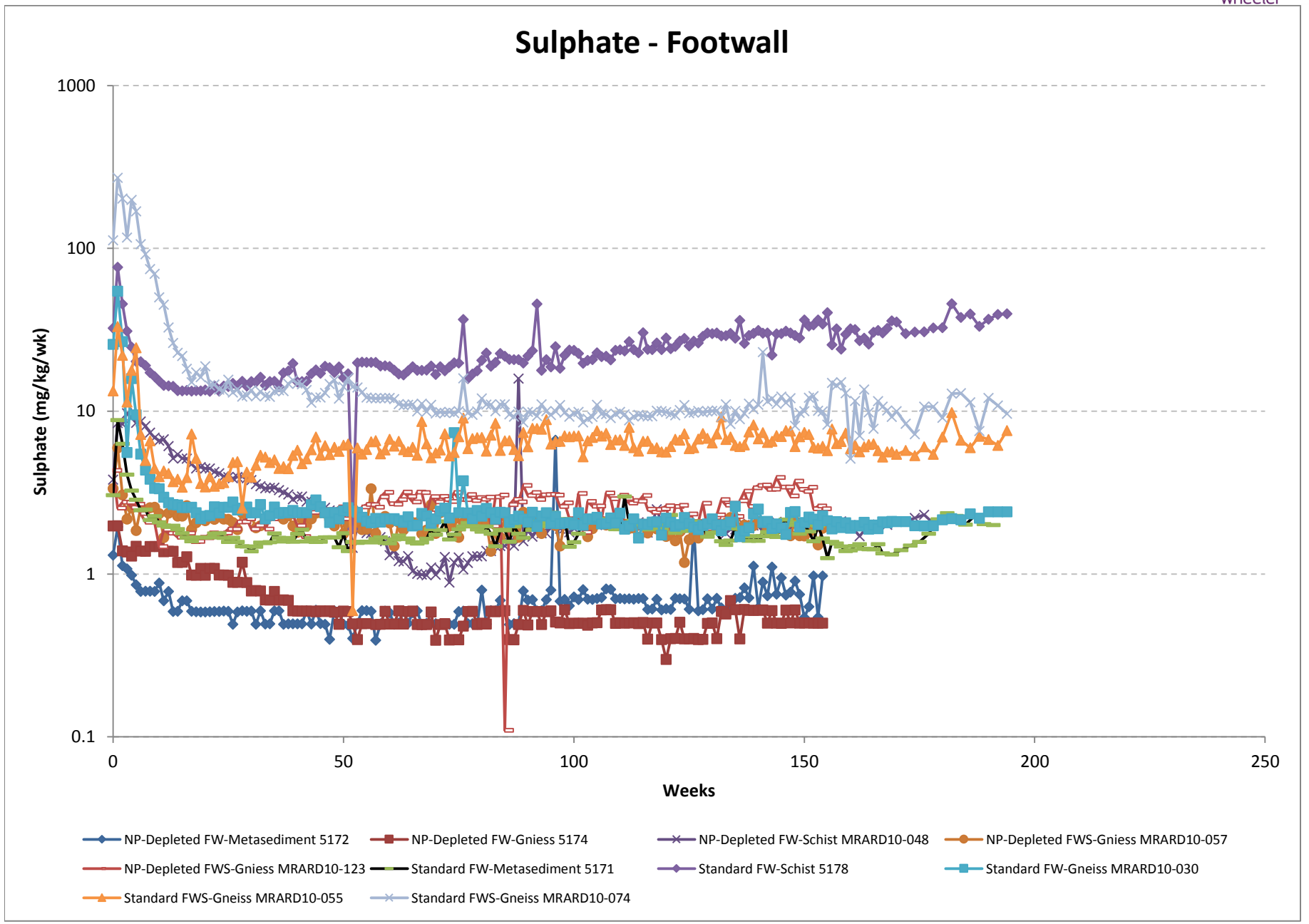

Zinc - Hanging Wall
1
0.1
0.01
0.001
Zn (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted HWS-Schist MRARD10-026
NP-Depleted HWS-Volcanic Tuff MRARD10-051
NP-Depleted HW-Volcanic Tuff MRARD10-082
Standard HWS-Volcanic Tuff MRARD10-080
Standard HWS-Schist MRARD10-092
Standard HWS-Volcanic Tuff MRARD10-105
Standard OZ-Schist MRARD10-120

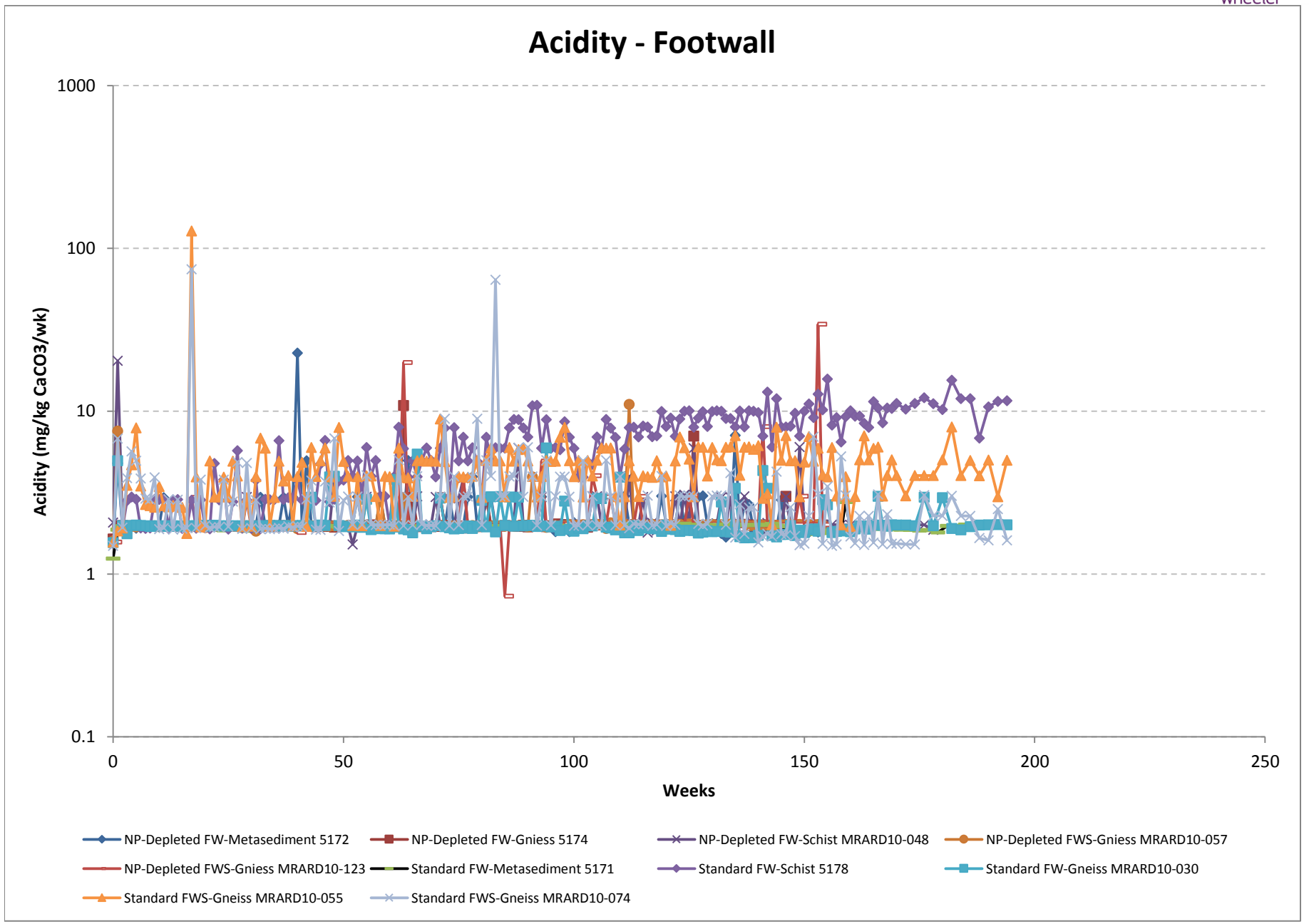
**Footwall Humidity Cell Plots**

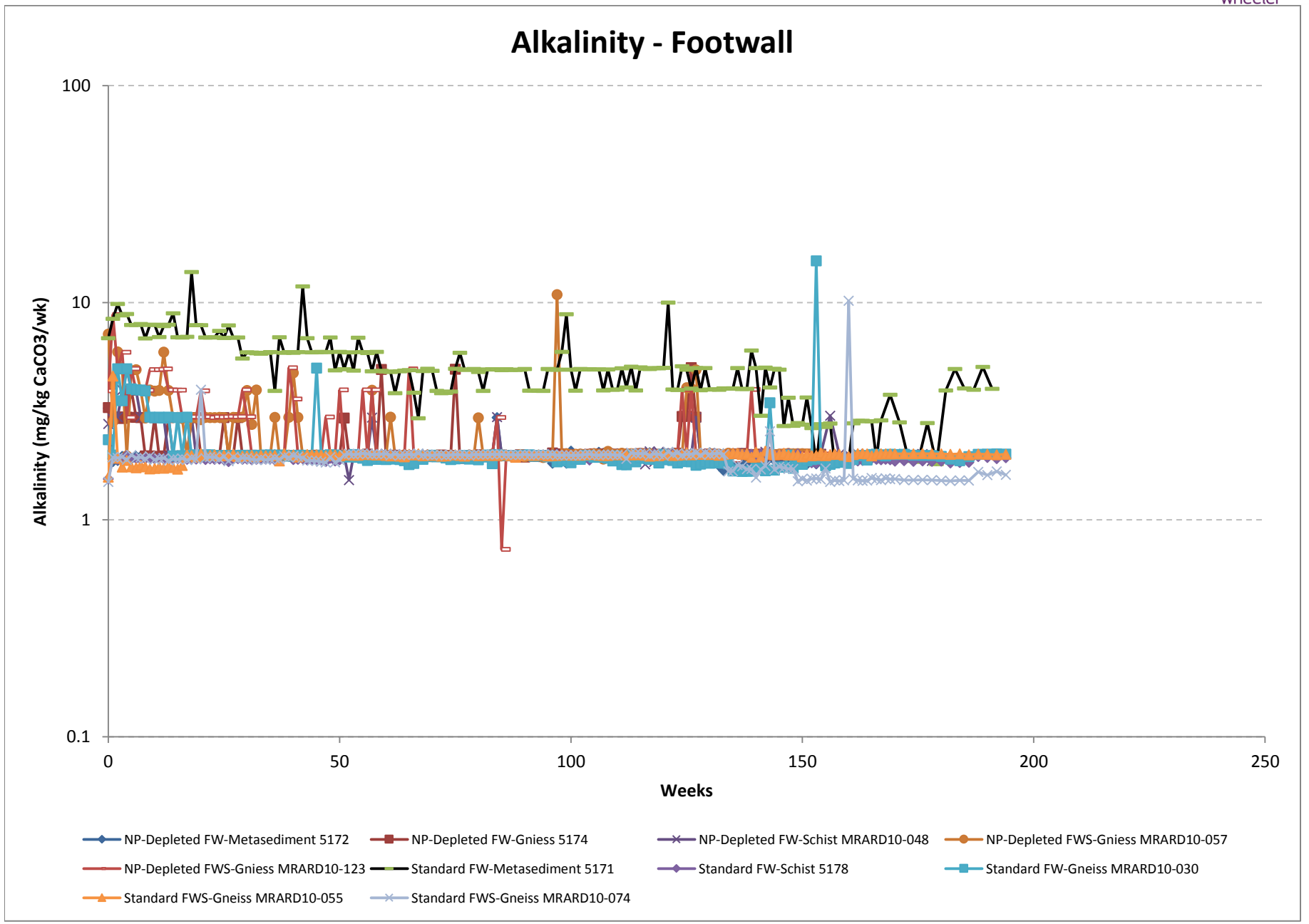

pH - Footwall
pH
Weeks
0
1
2
3
4
5
6
7
8
9
0
50
100
150
200
250
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

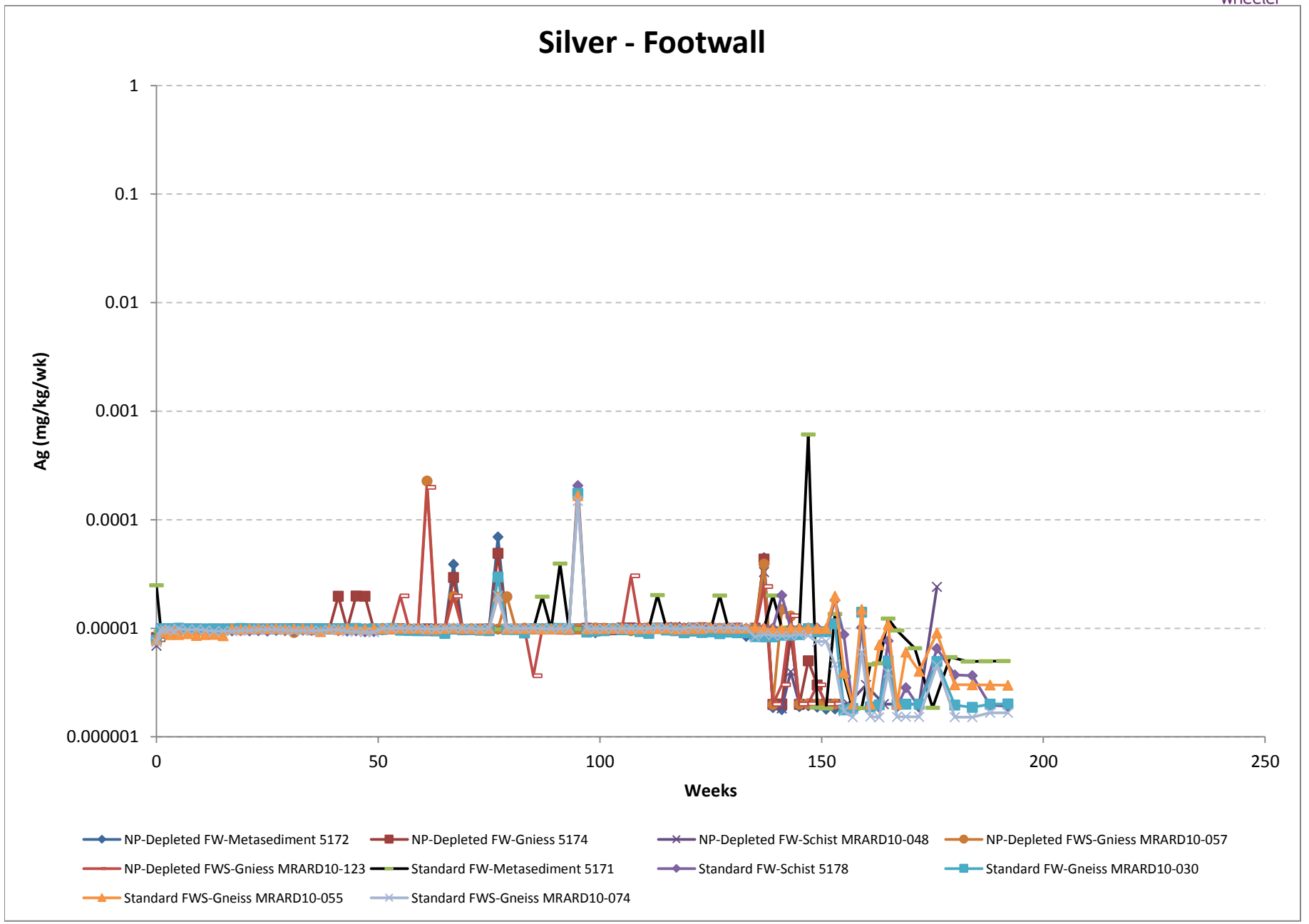

(Ca+Mg)/SO4 - Footwall
(Ca+Mg)/SO4 (molar)
Weeks
0
1
2
3
4
5
6
0
50
100
150
200
250
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

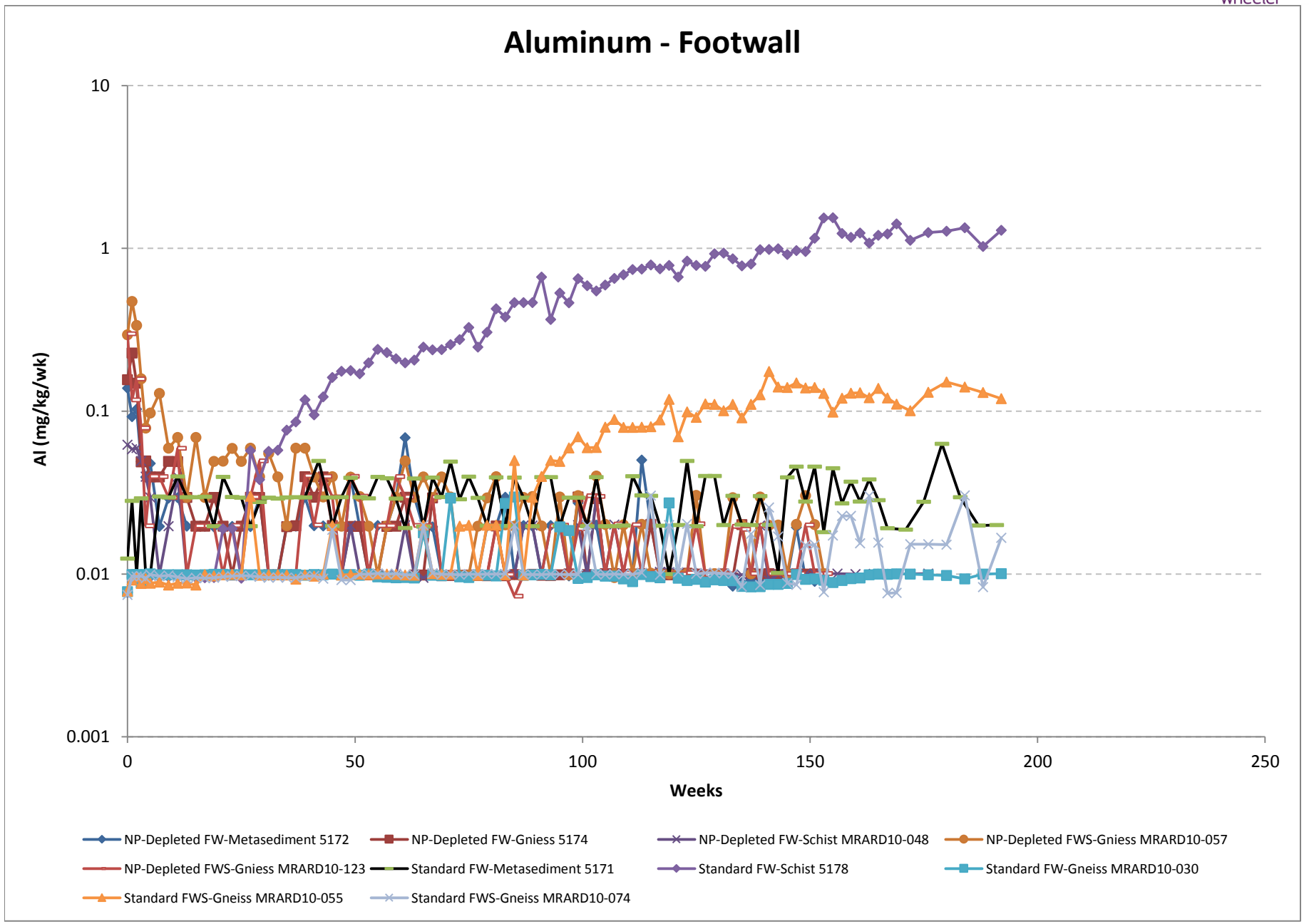

Mg/Ca- Footwall
Mg/Ca (molar)
0
2
4
6
8
10
12
14
16
18
20
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

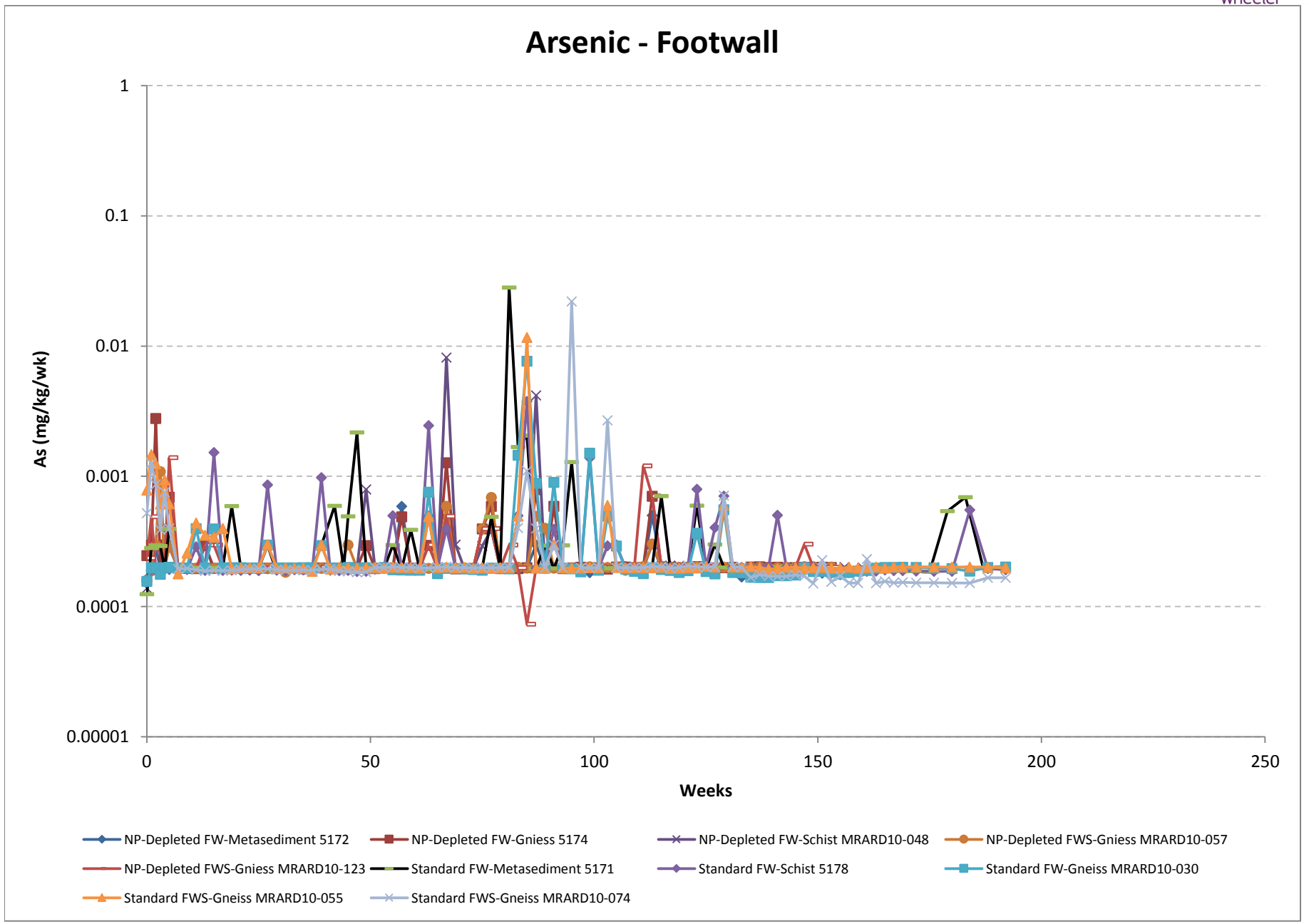

Sulphate - Footwall
1000
100
10
1
0.1
Sulphate (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

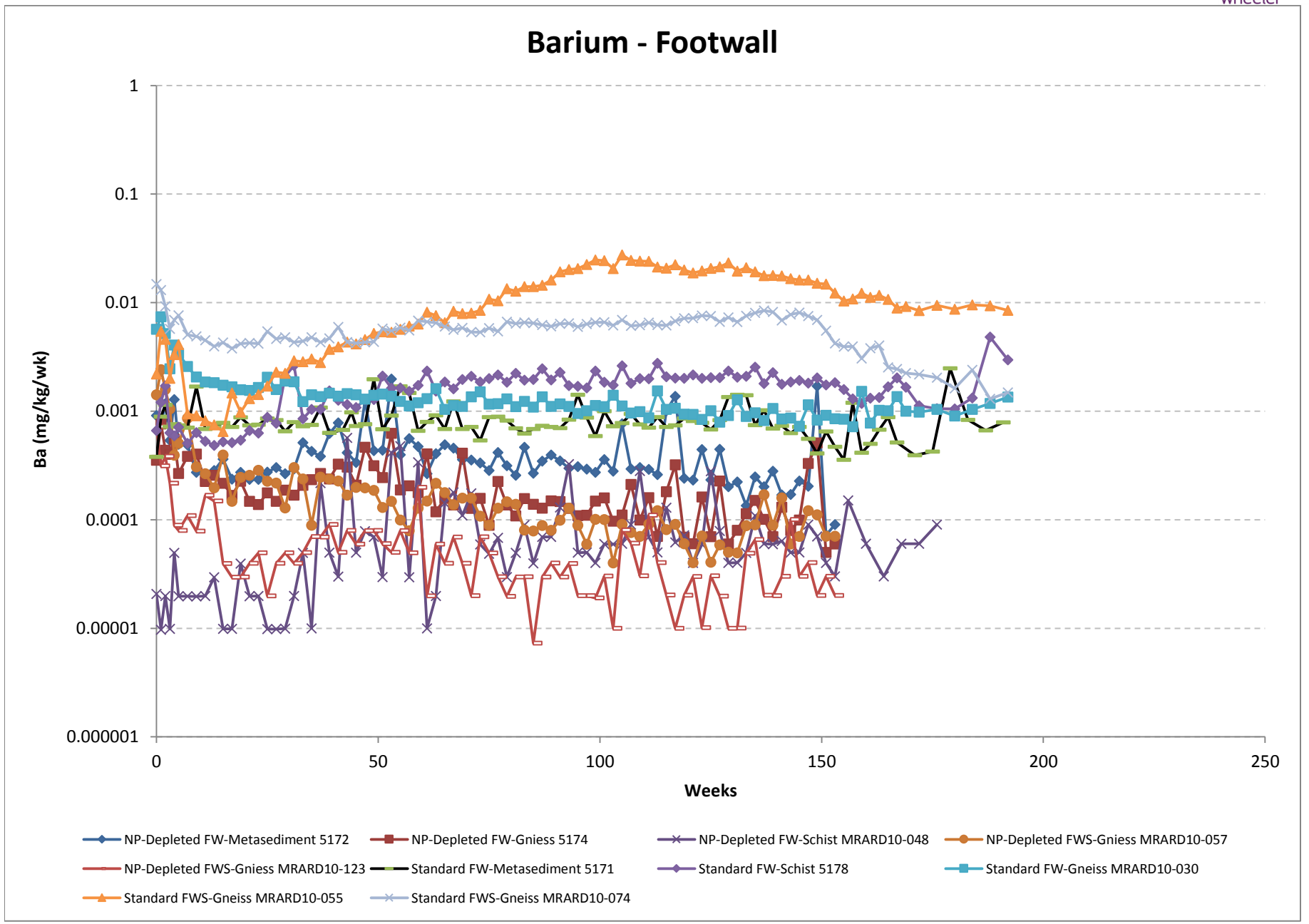

Acidity - Footwall
1000
100
10
1
0.1
Acidity (mg/kg CaCO3/wk)
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

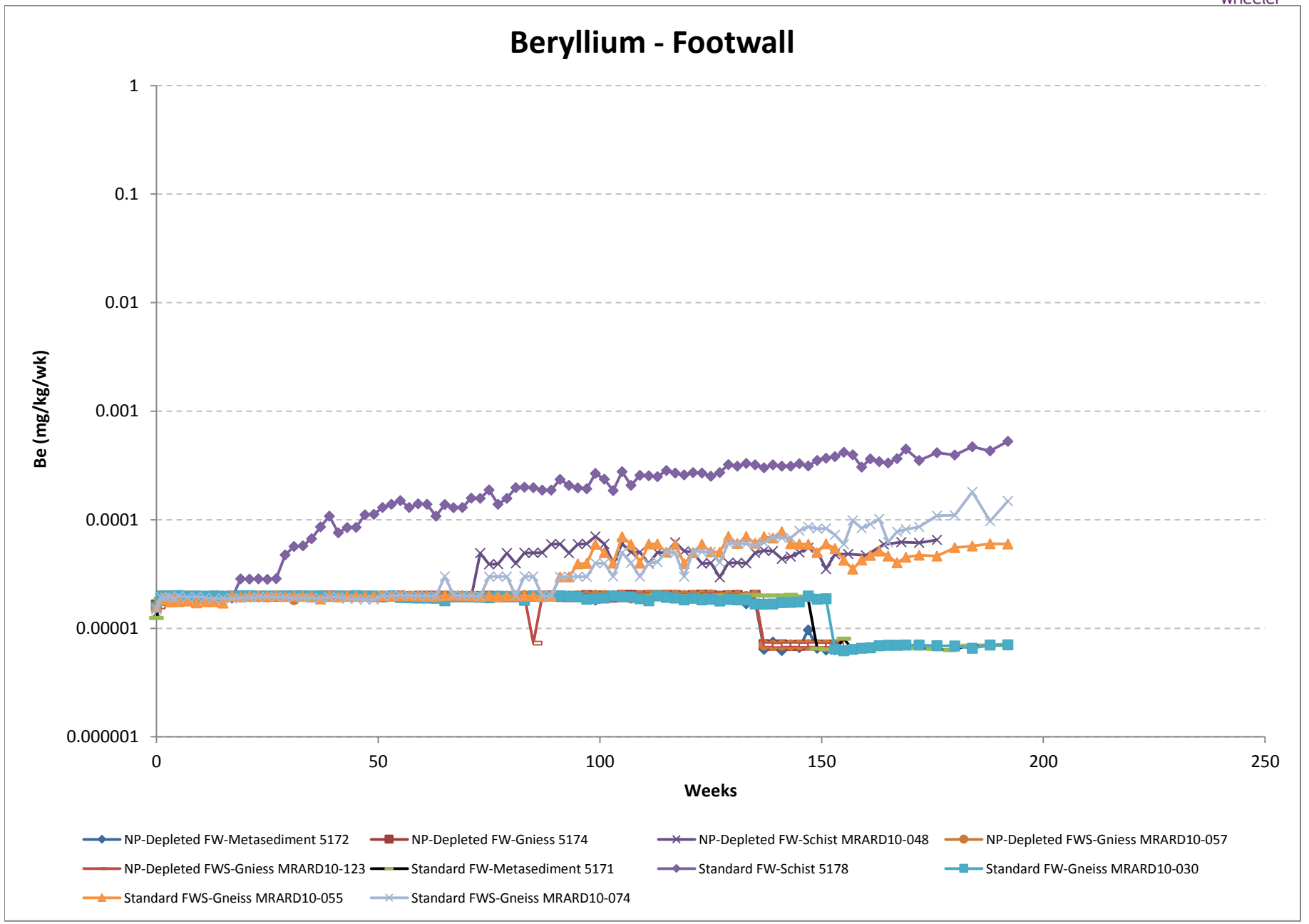

Alkalinity - Footwall
100
10
1
0.1
Alkalinity (mg/kg CaCO3/wk)
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

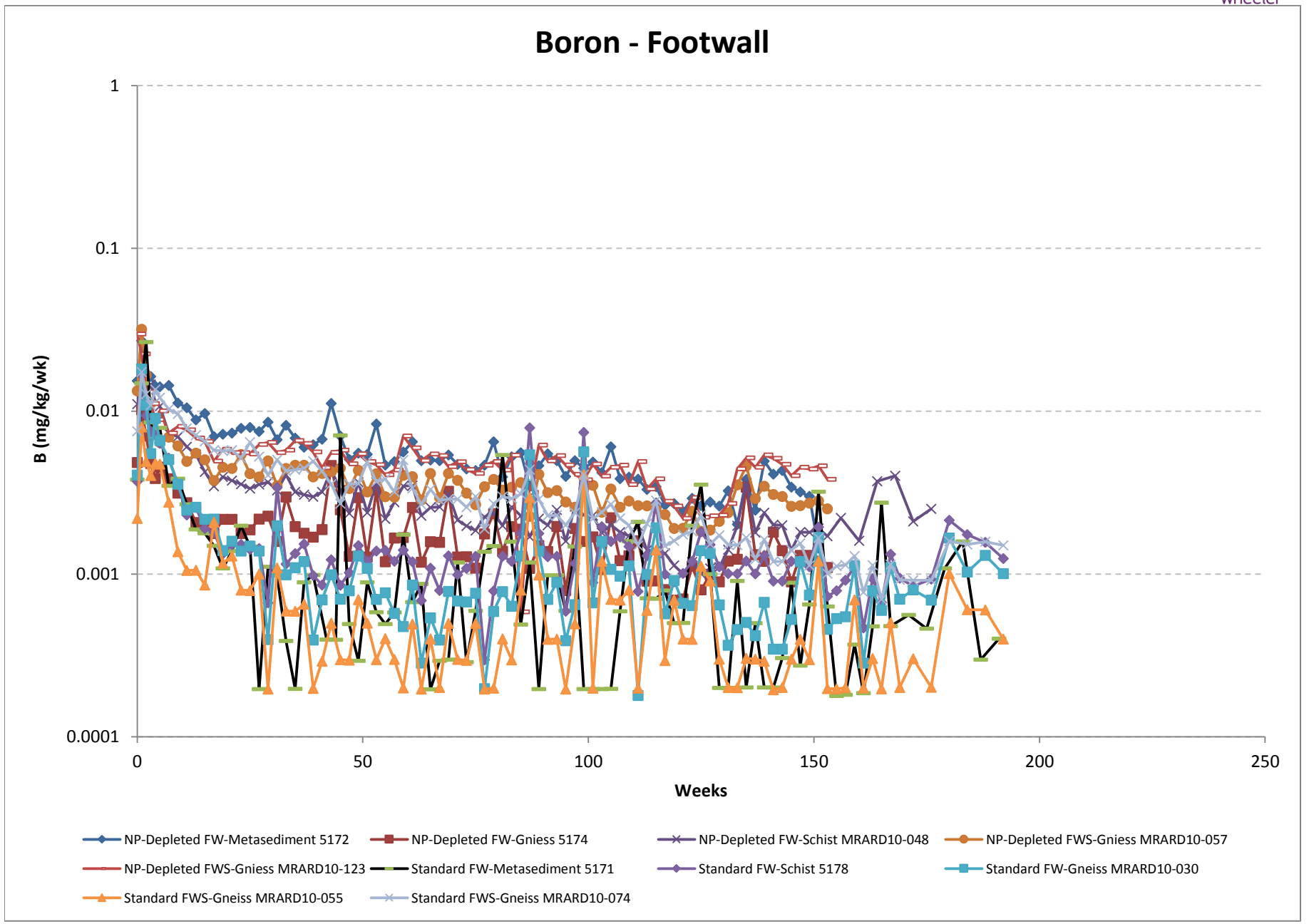

Silver - Footwall
Ag (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

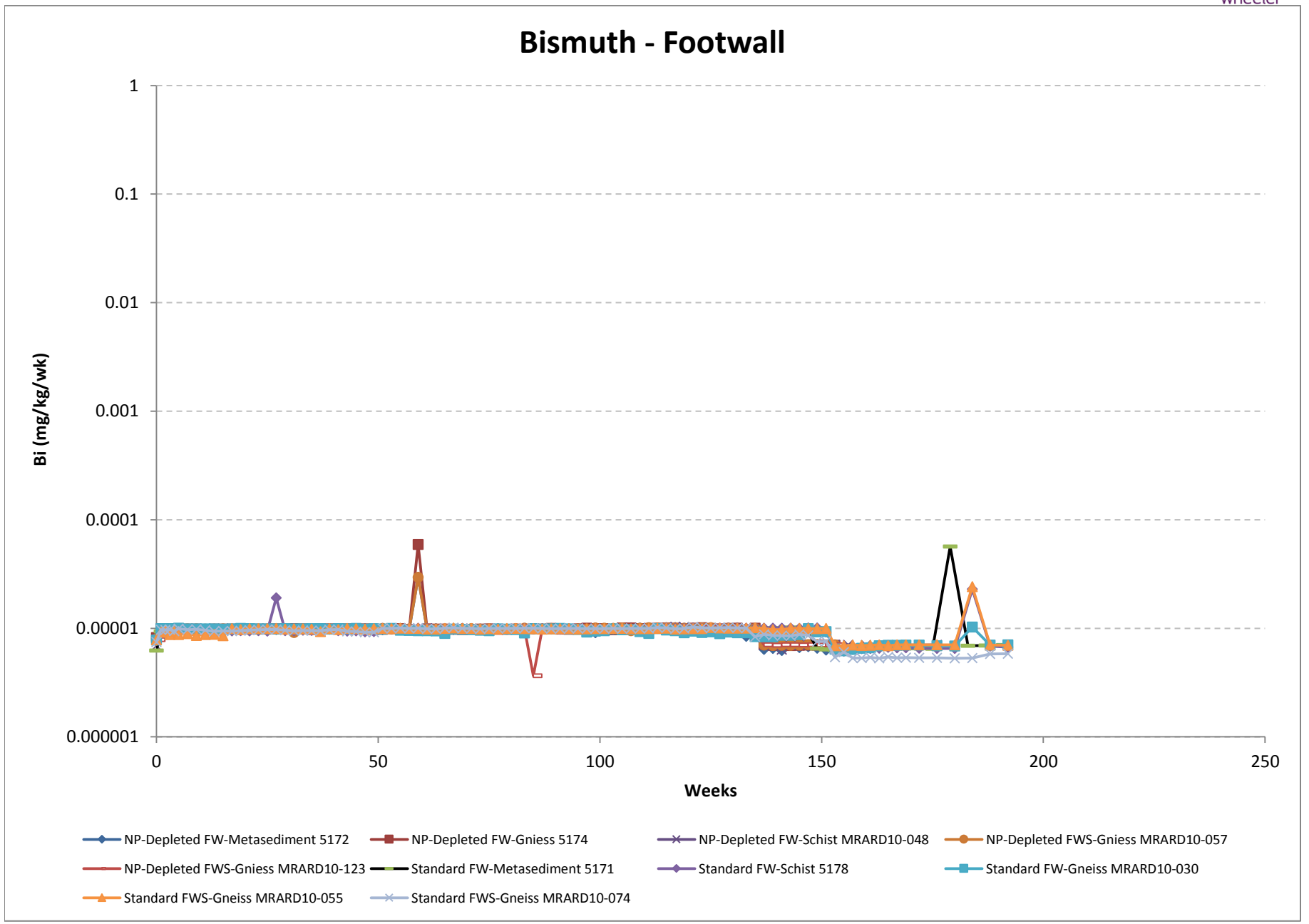

Aluminum - Footwall
10
1
0.1
0.01
0.001
Al (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

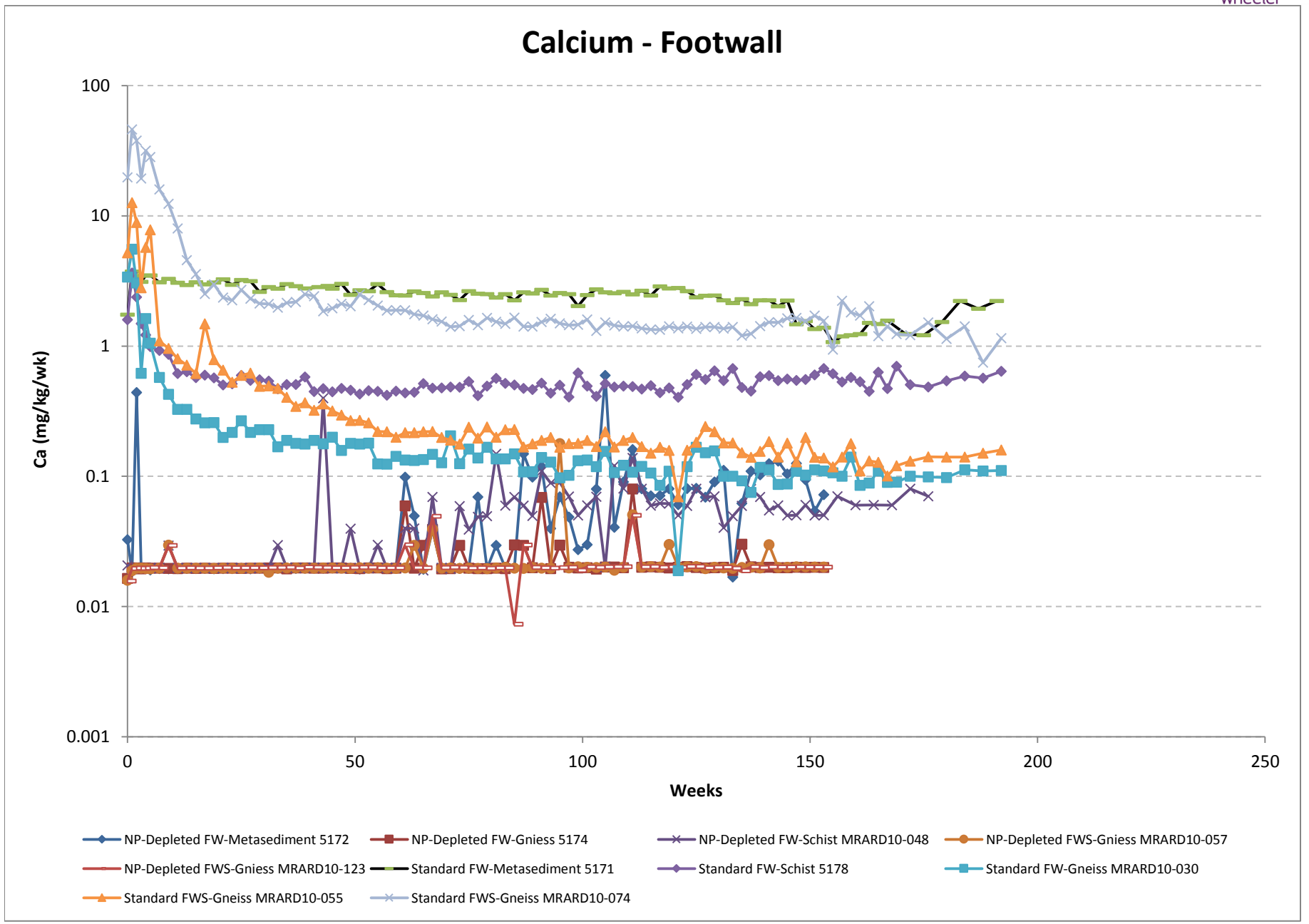

Arsenic - Footwall
As (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

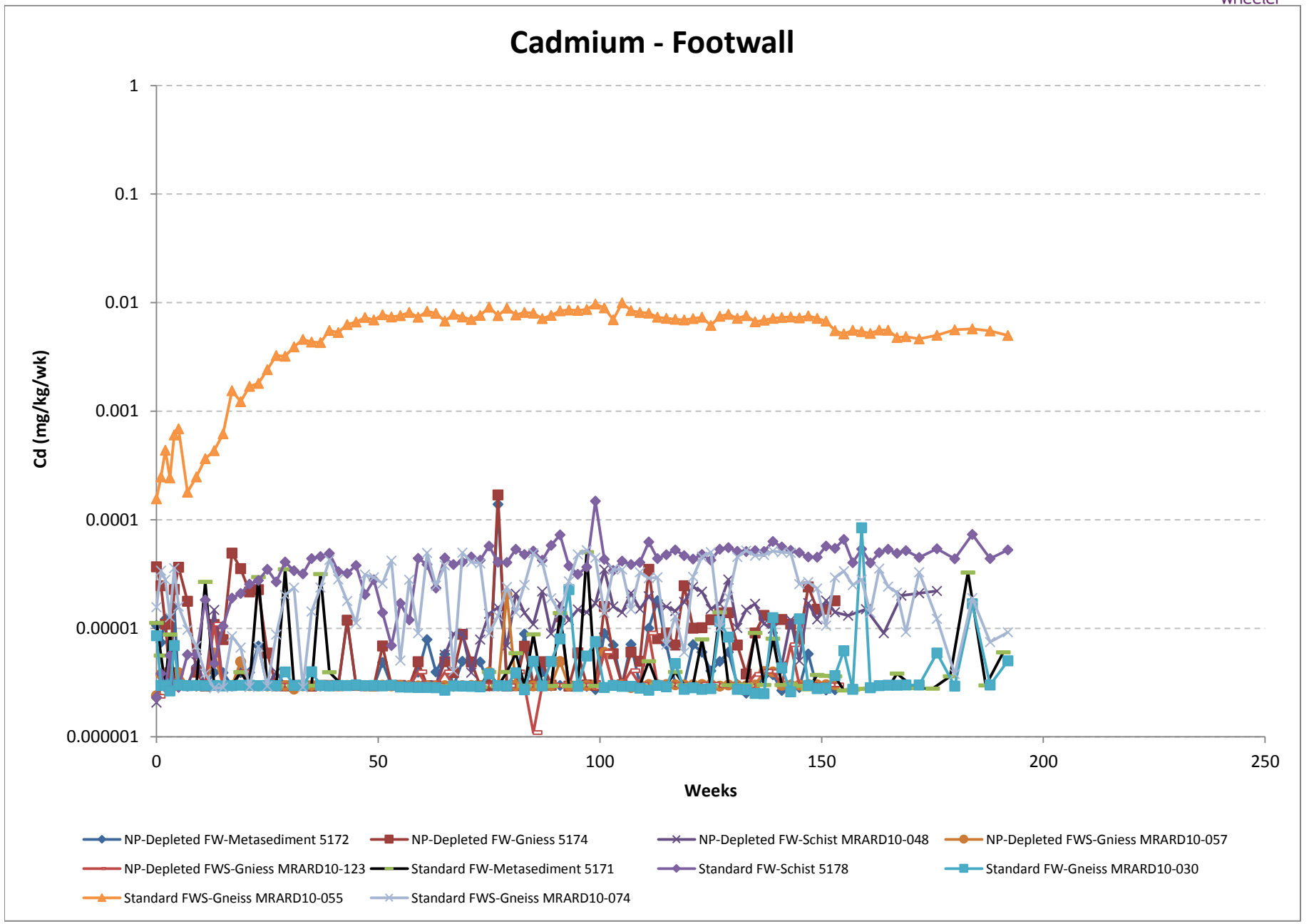

Barium - Footwall
Ba (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

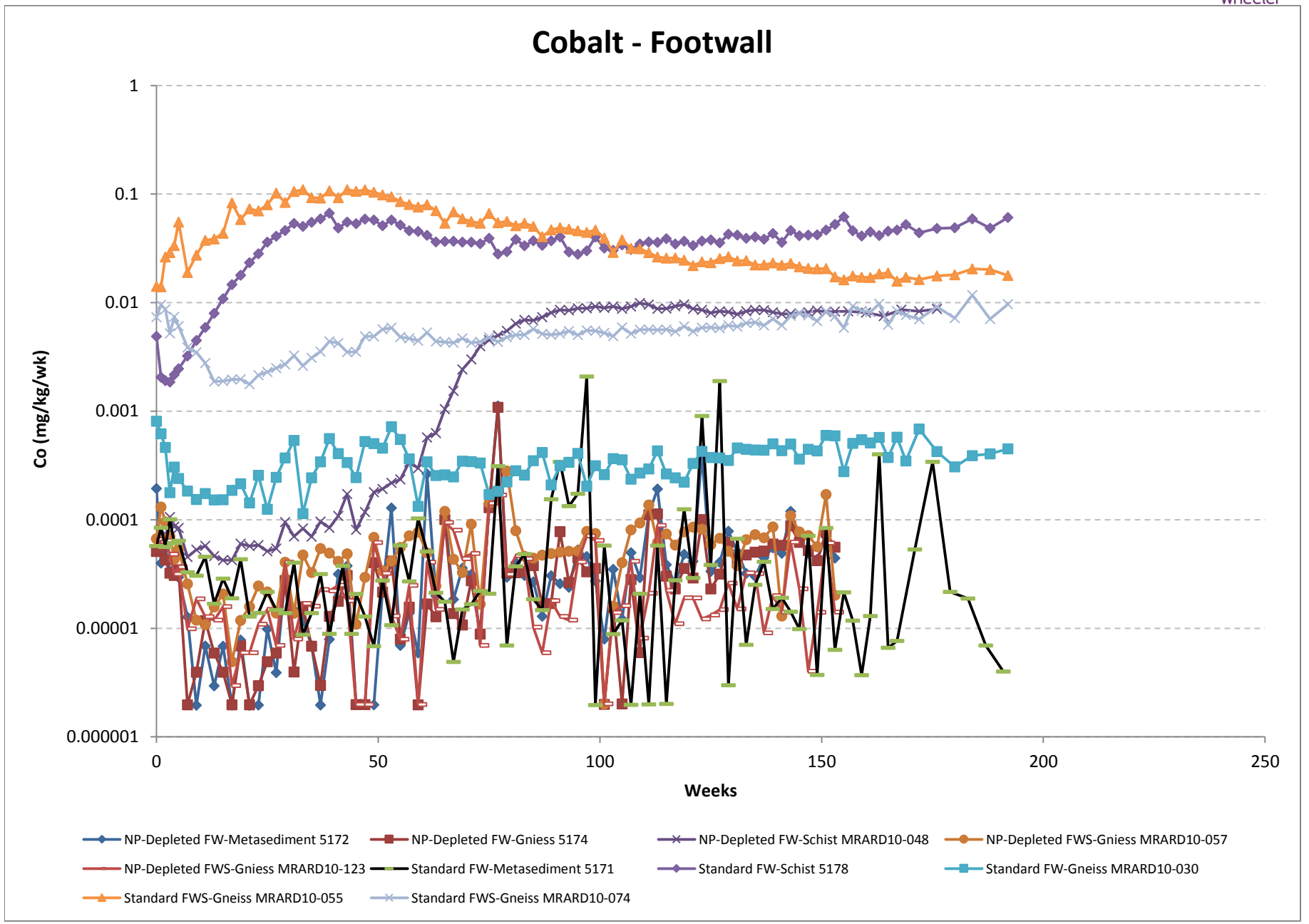

Beryllium - Footwall
Be (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

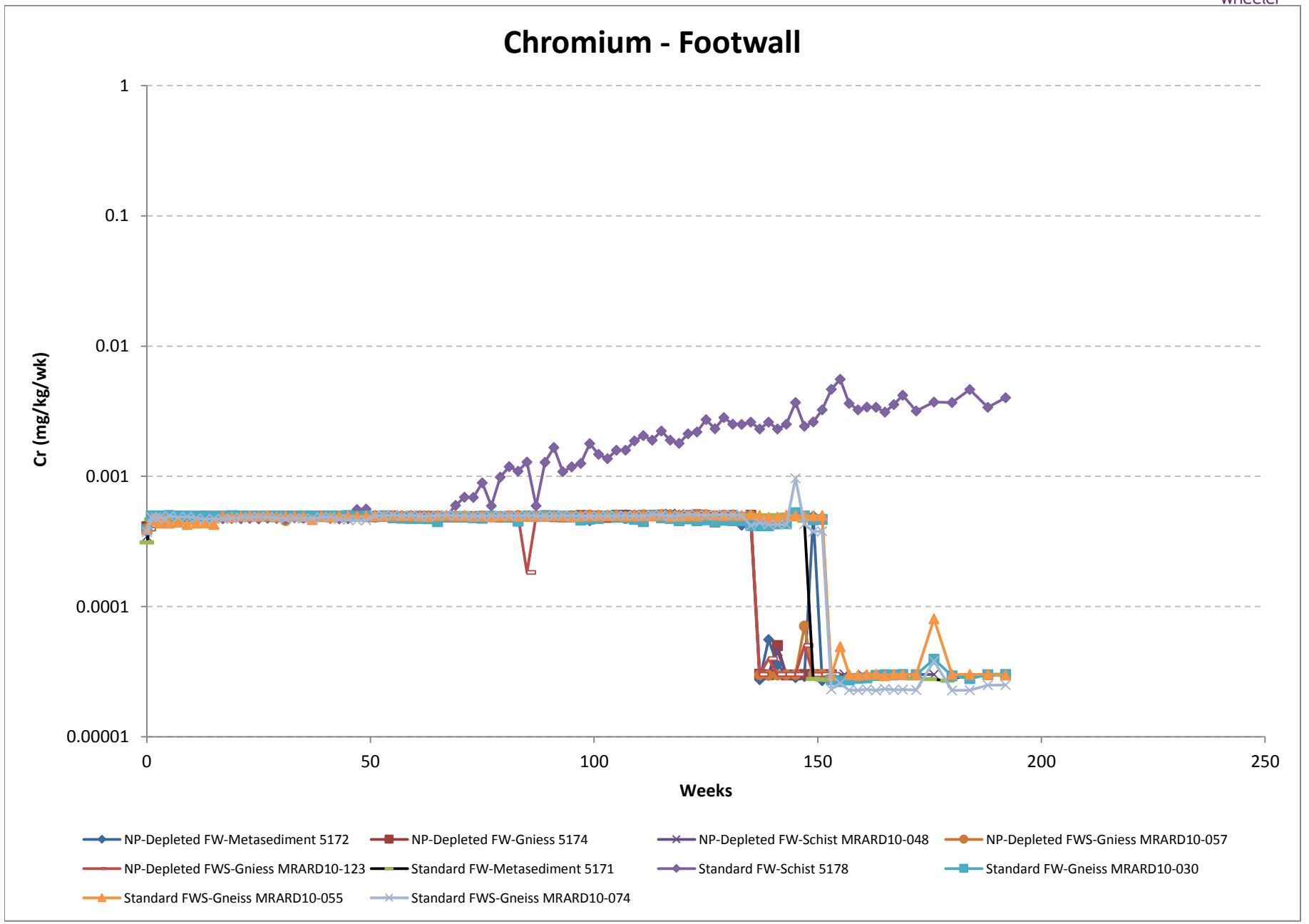

Boron - Footwall
B (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

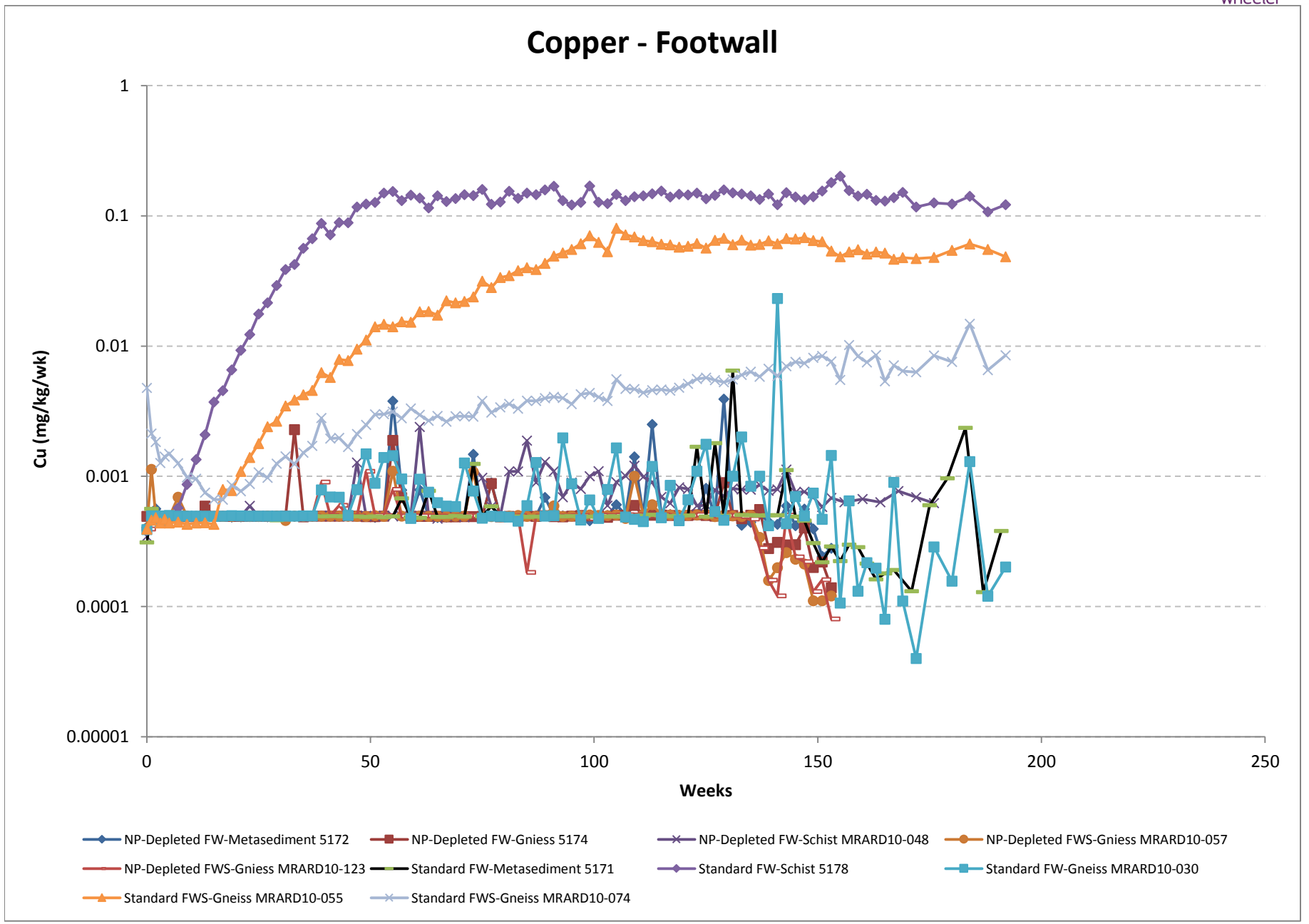

Bismuth - Footwall
Bi (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

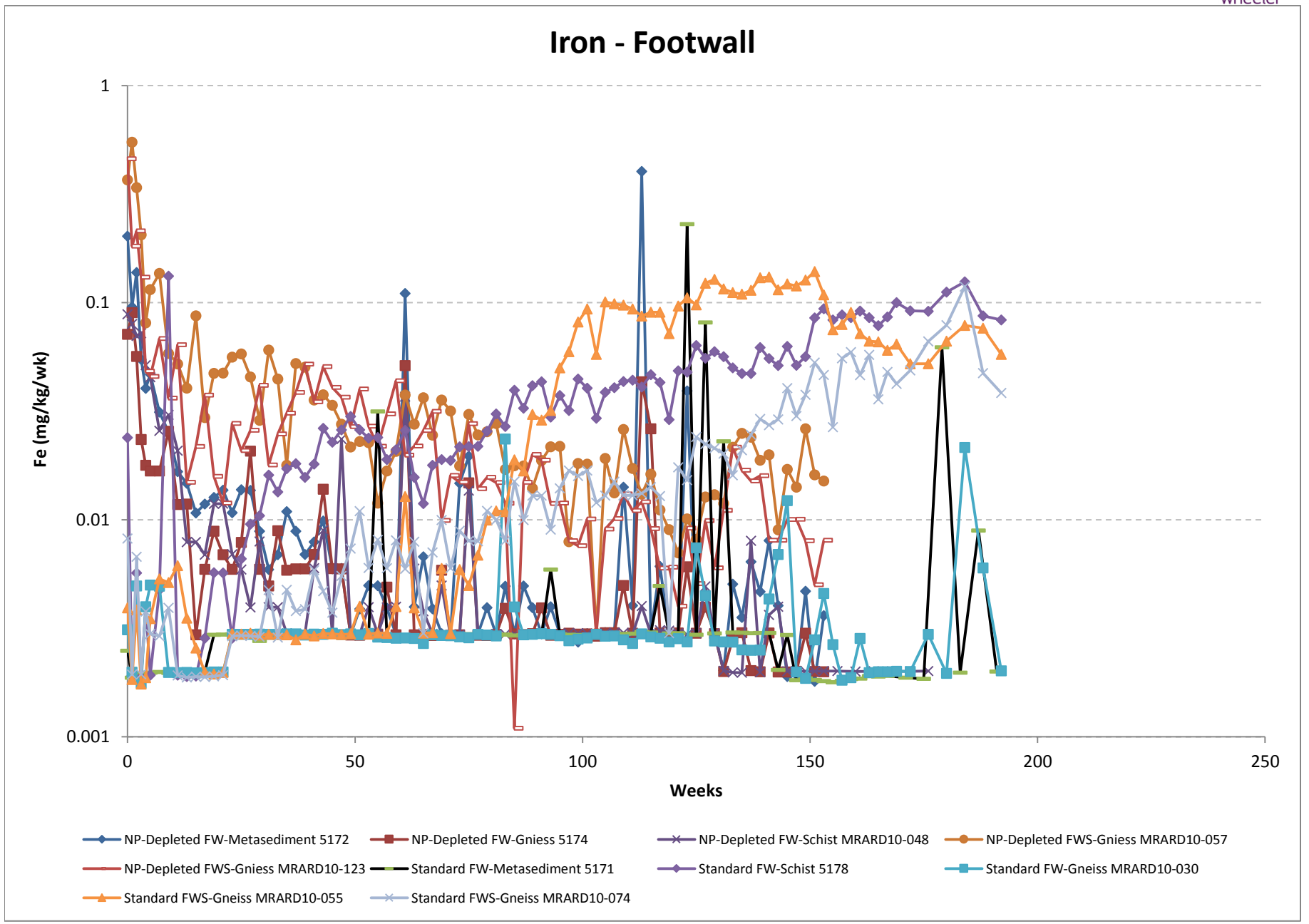

Calcium - Footwall
Ca (mg/kg/wk)
100
10
1
0.1
0.01
0.001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

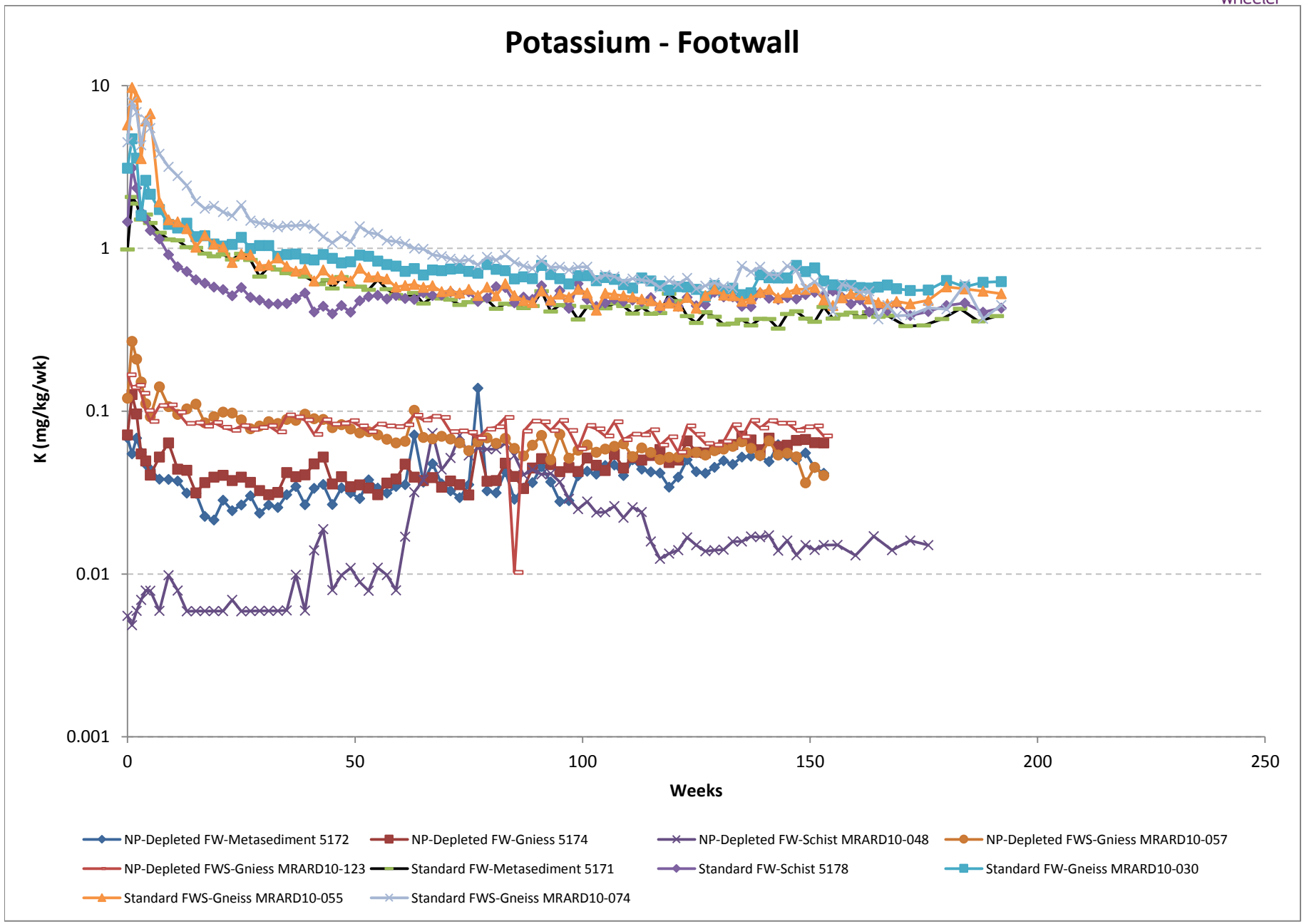

Cadmium - Footwall
Cd (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

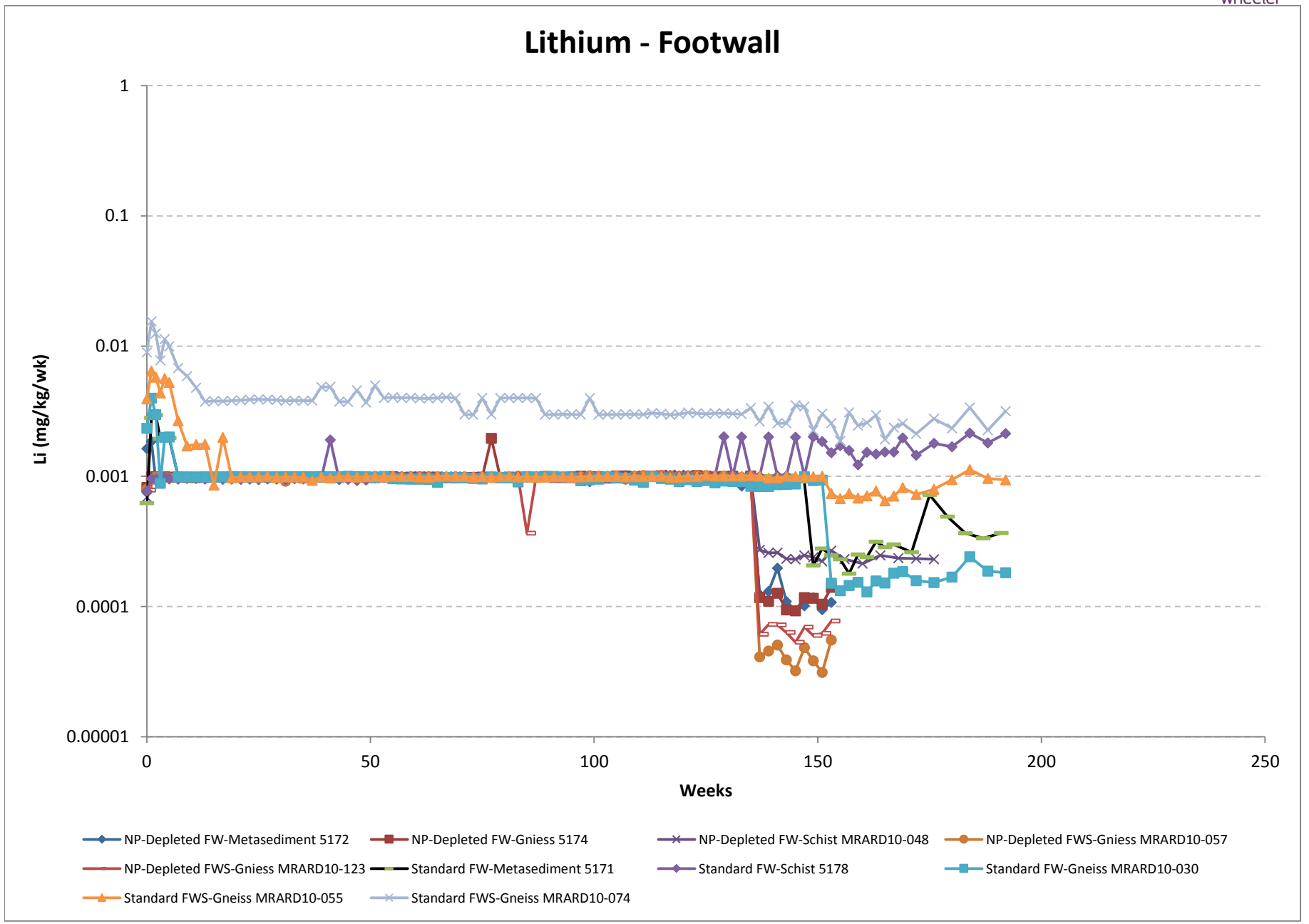

Cobalt - Footwall
Co (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

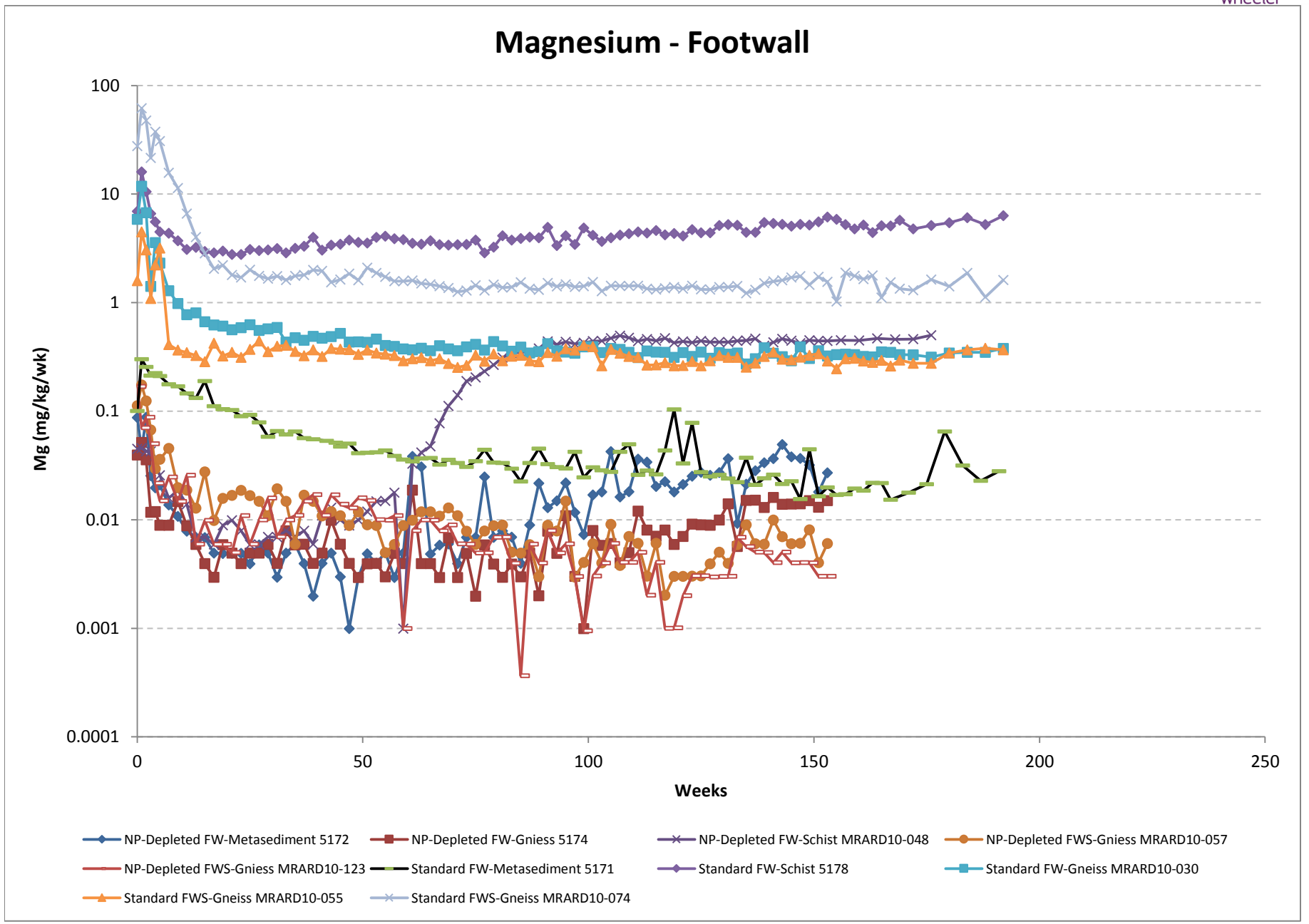

Chromium - Footwall
Cr (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

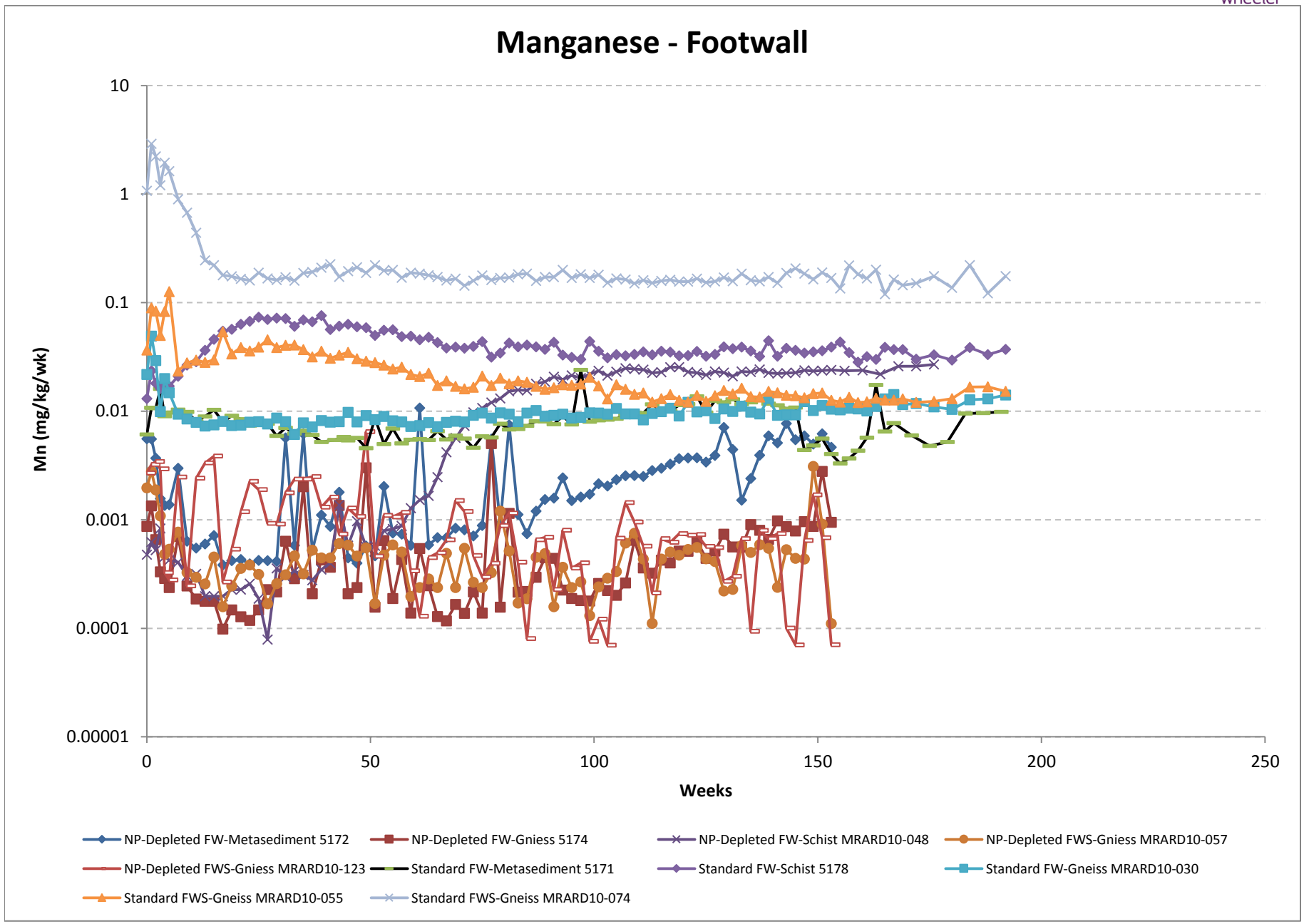

Copper - Footwall
Cu (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

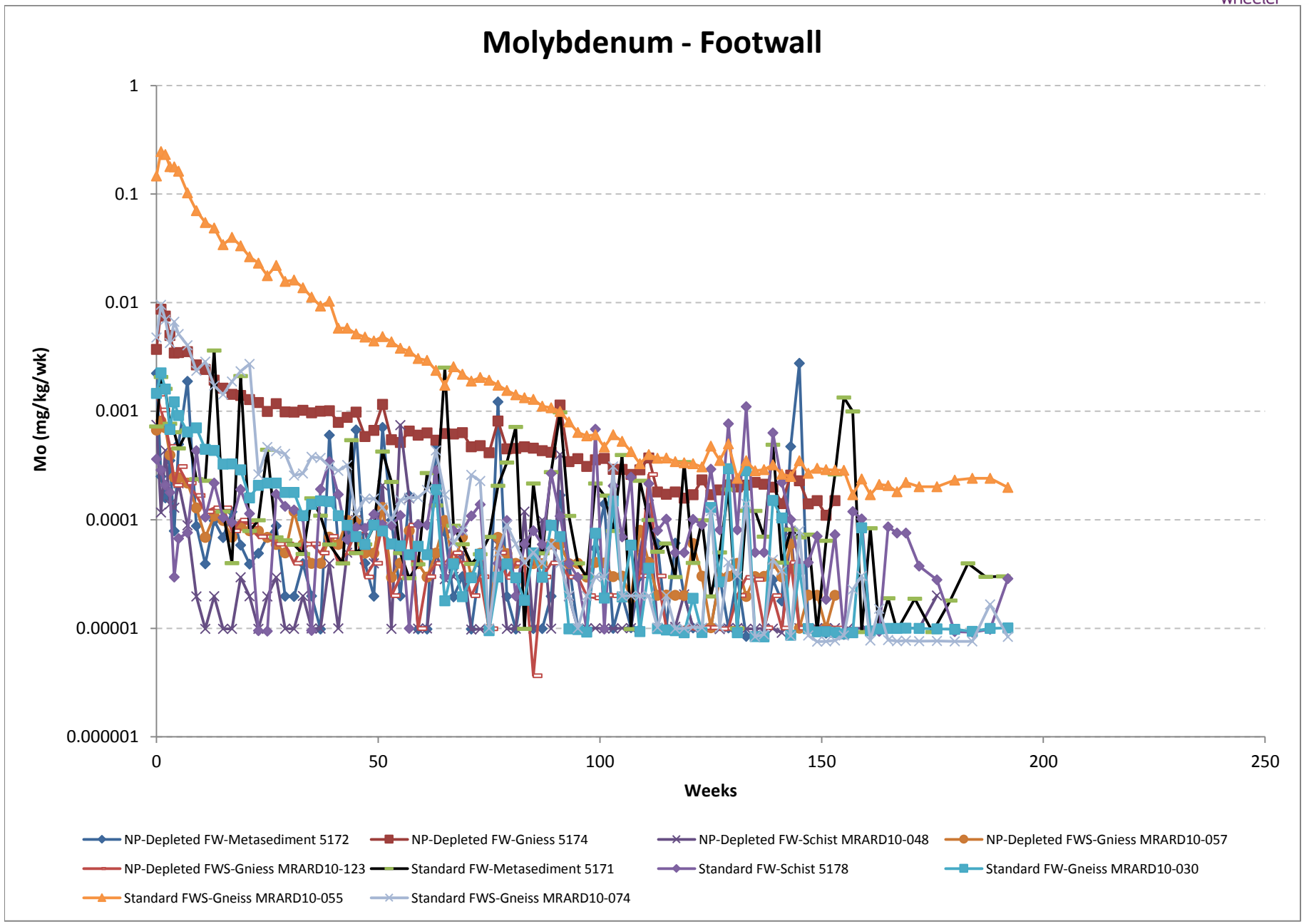

Iron - Footwall
1
0.1
0.01
0.001
Fe (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

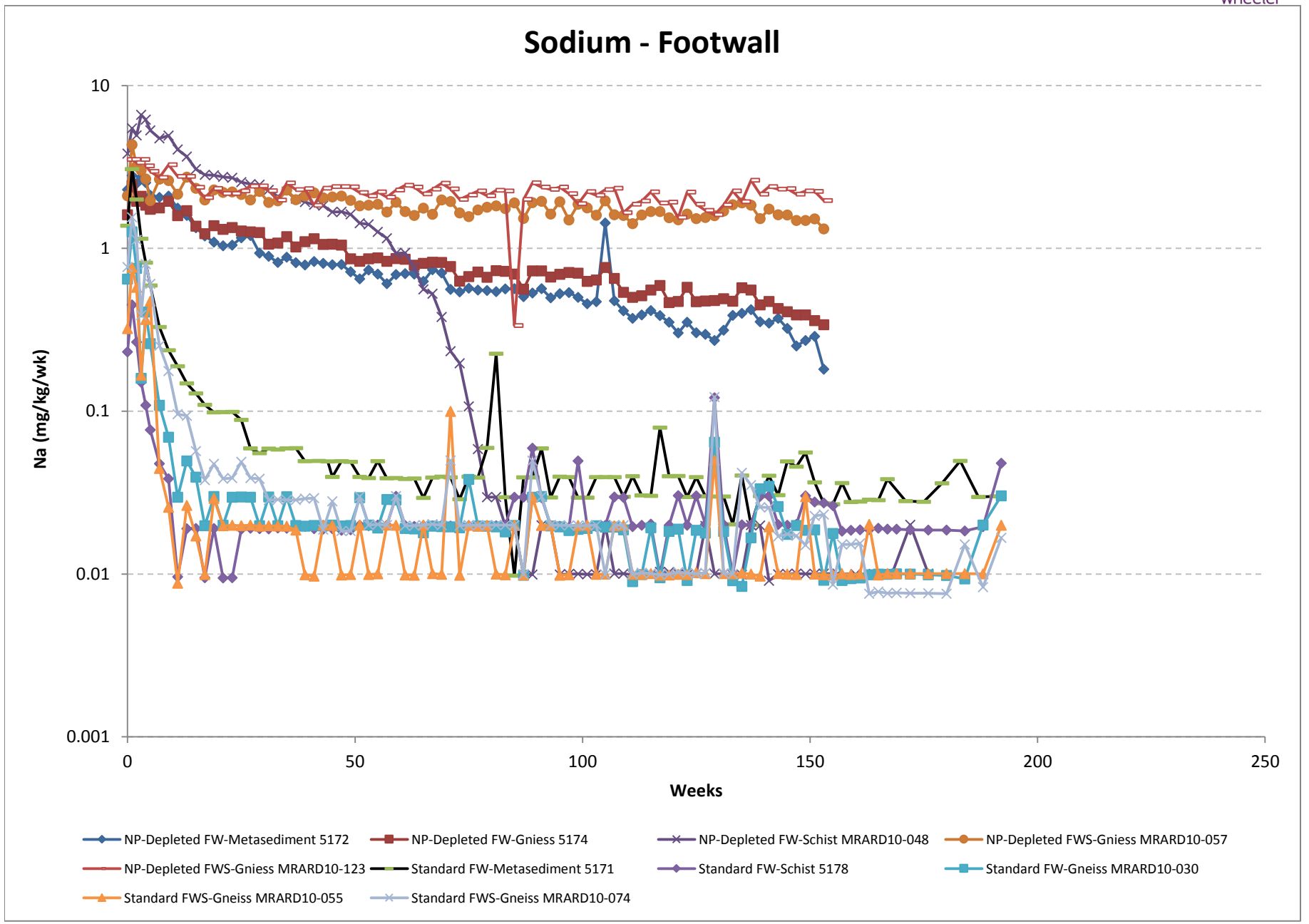

Potassium - Footwall
10
1
0.1
0.01
0.001
K (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

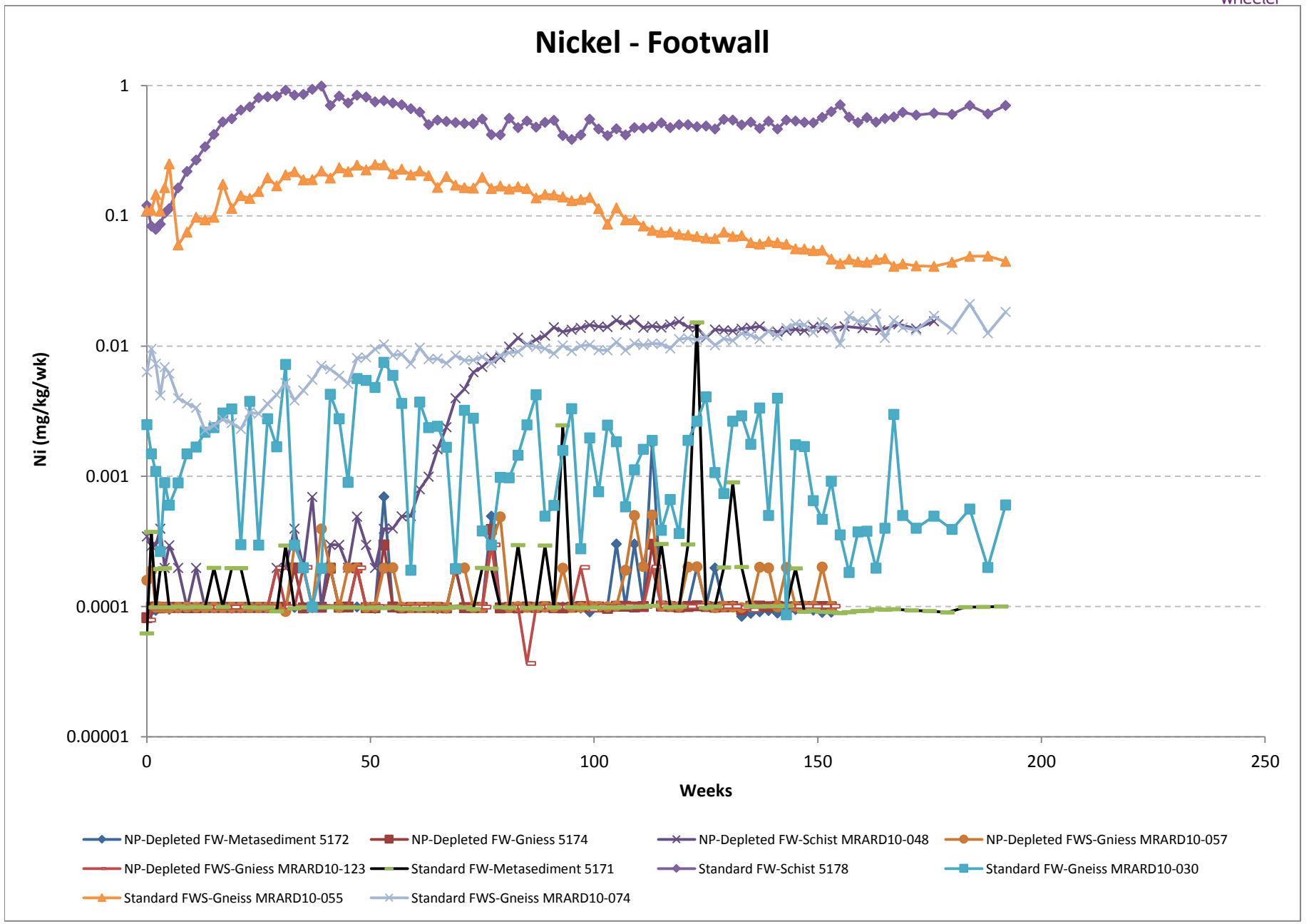

Lithium - Footwall
Li (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Magnesium - Footwall
Mg (mg/kg/wk)
100
10
1
0.1
0.01
0.001
0.0001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Manganese - Footwall
Mn (mg/kg/wk)
10
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Molybdenum - Footwall
Mo (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Sodium - Footwall
10
1
0.1
0.01
0.001
Na (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Nickel - Footwall
Ni (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
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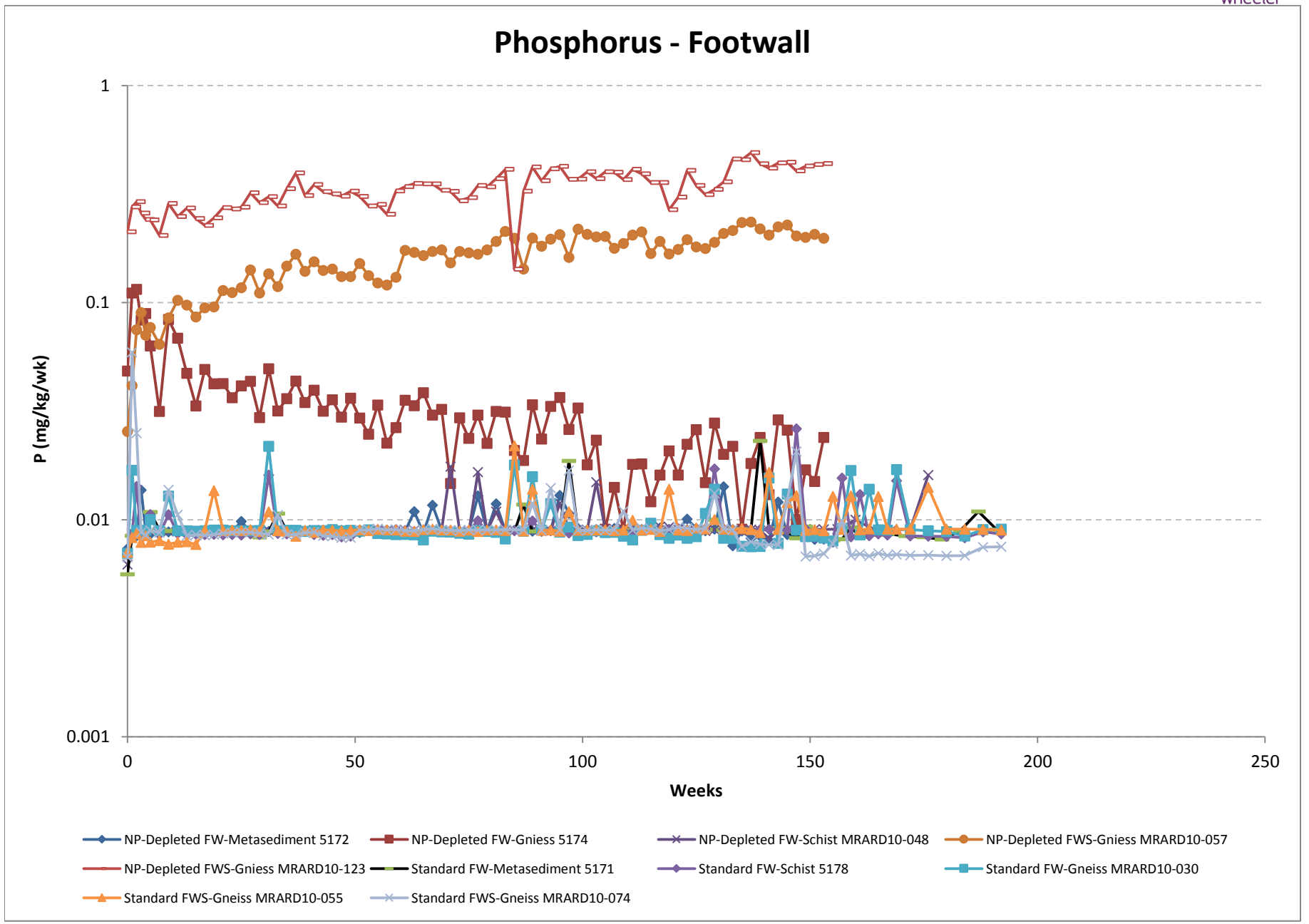
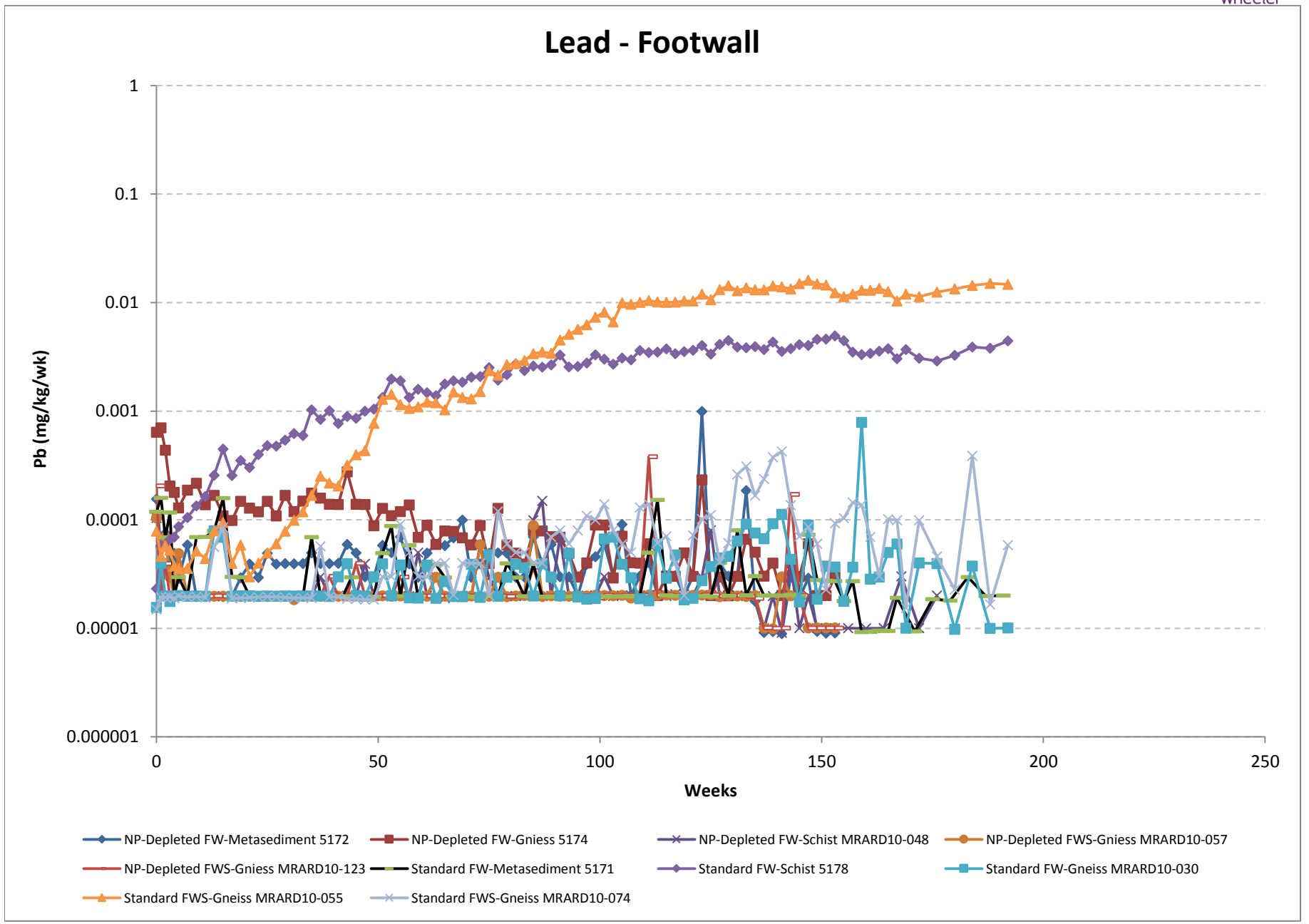
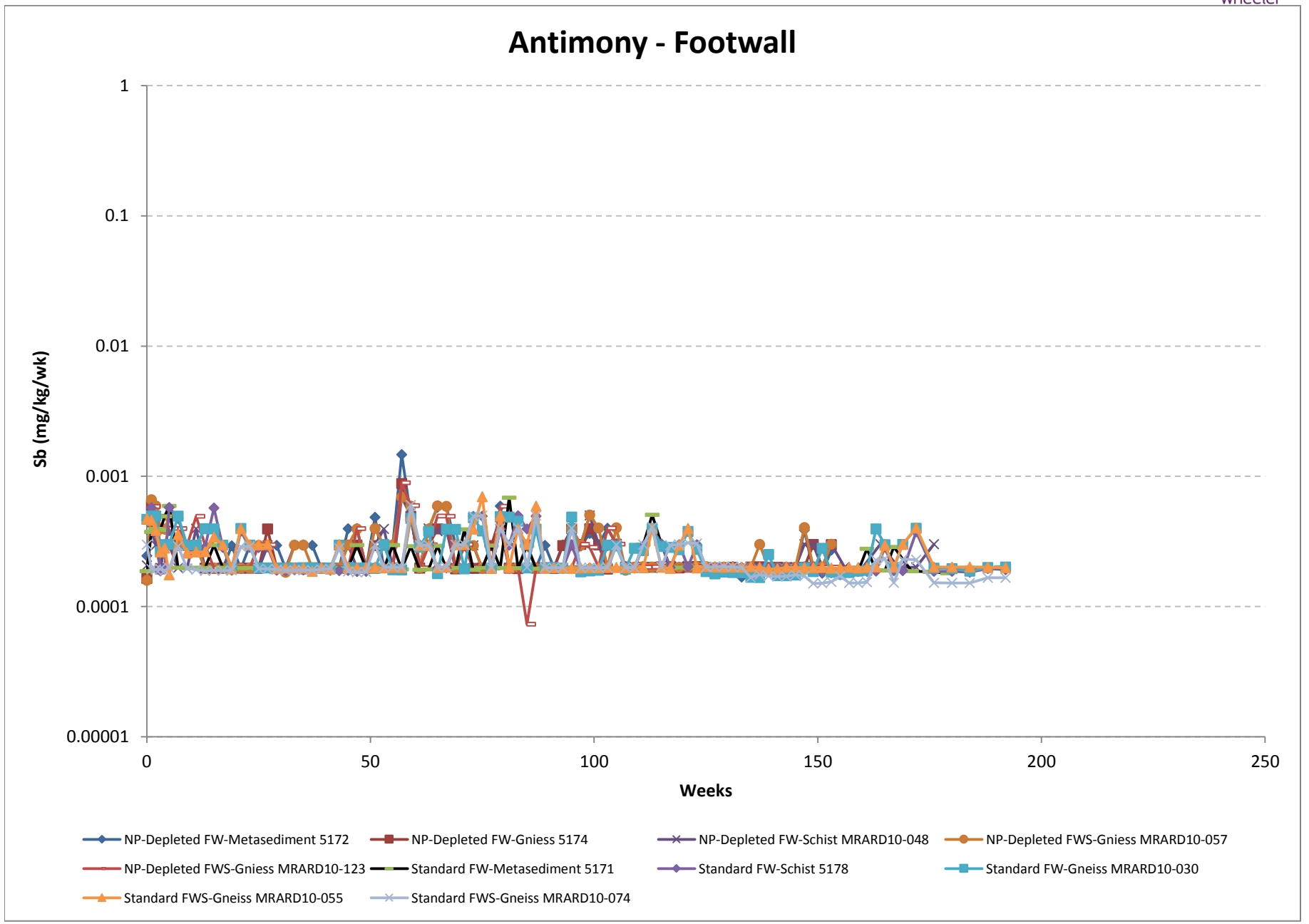
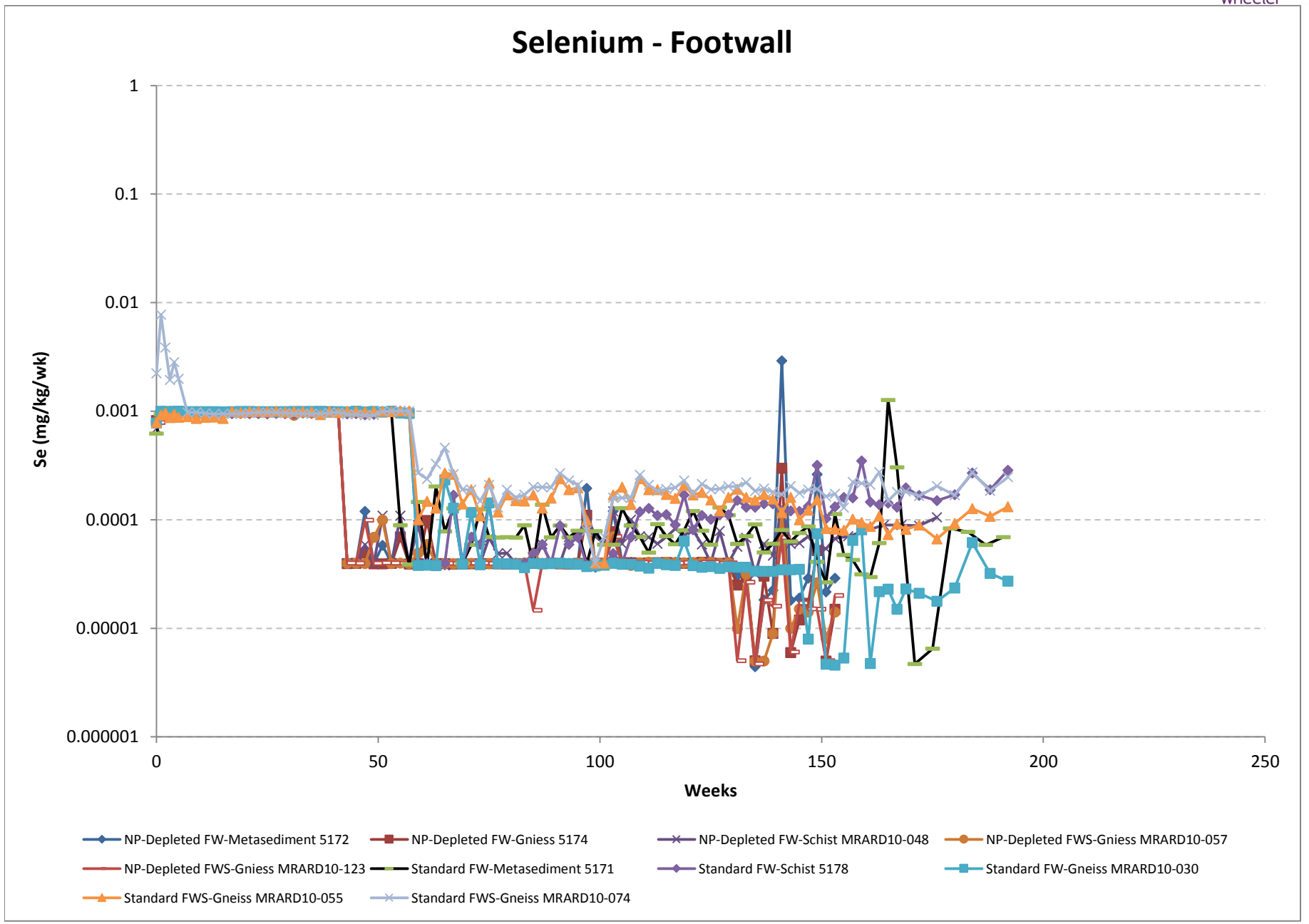
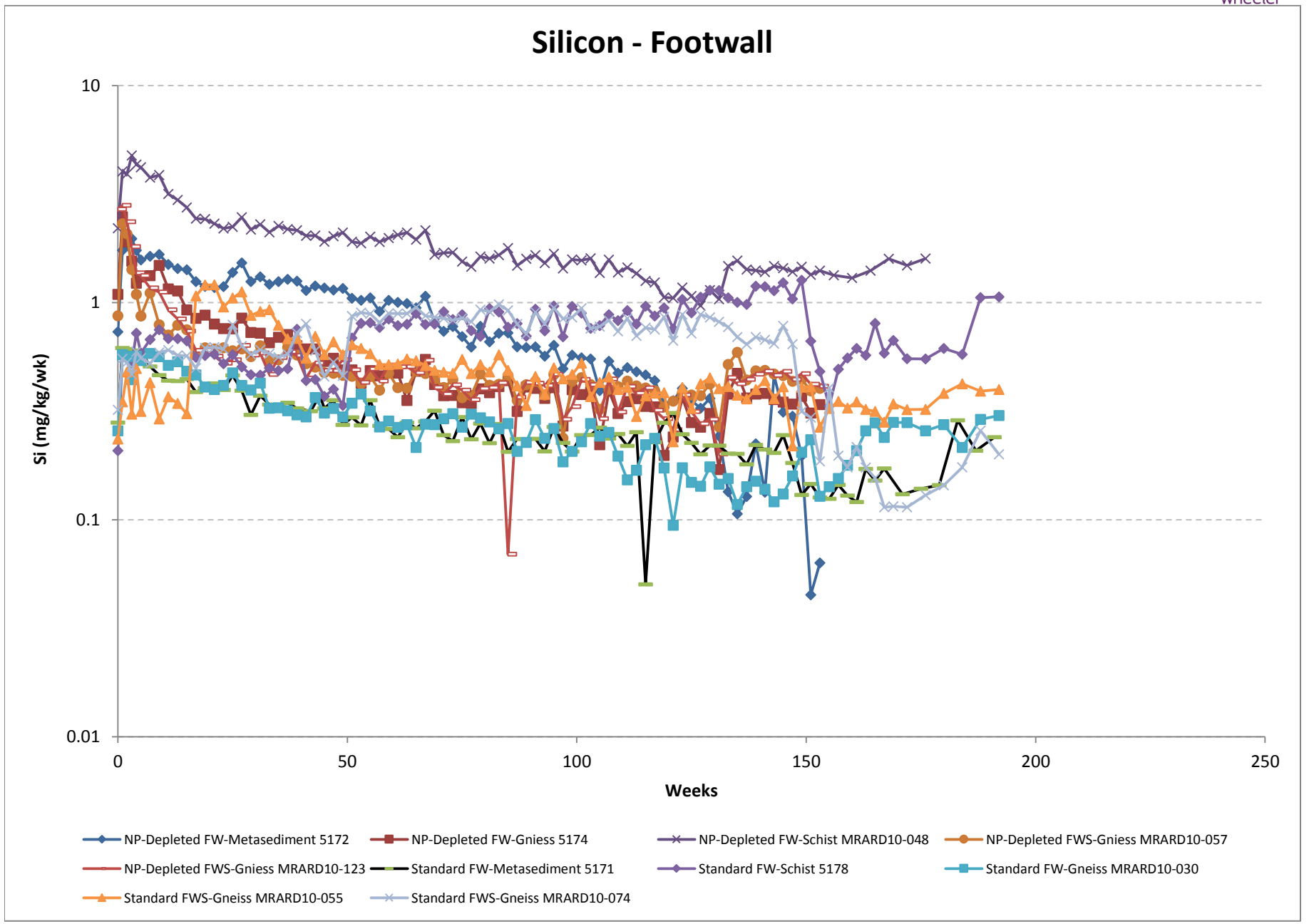
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

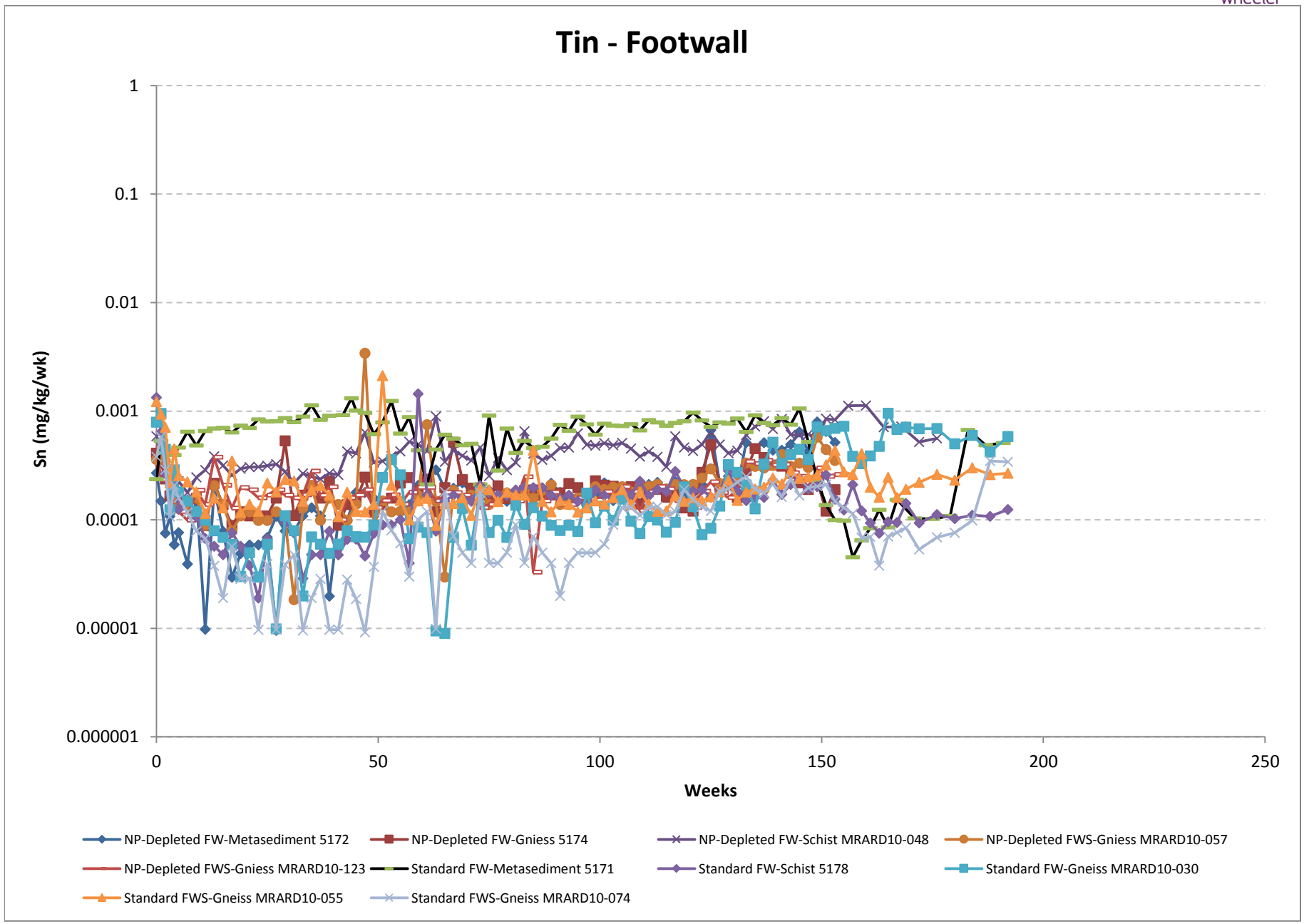

Phosphorus - Footwall
1
0.1
0.01
0.001
P (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Lead - Footwall
Pb (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Antimony - Footwall
Sb (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Selenium - Footwall
Se (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Silicon - Footwall
10
1
0.1
0.01
Si (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Tin - Footwall
Sn (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
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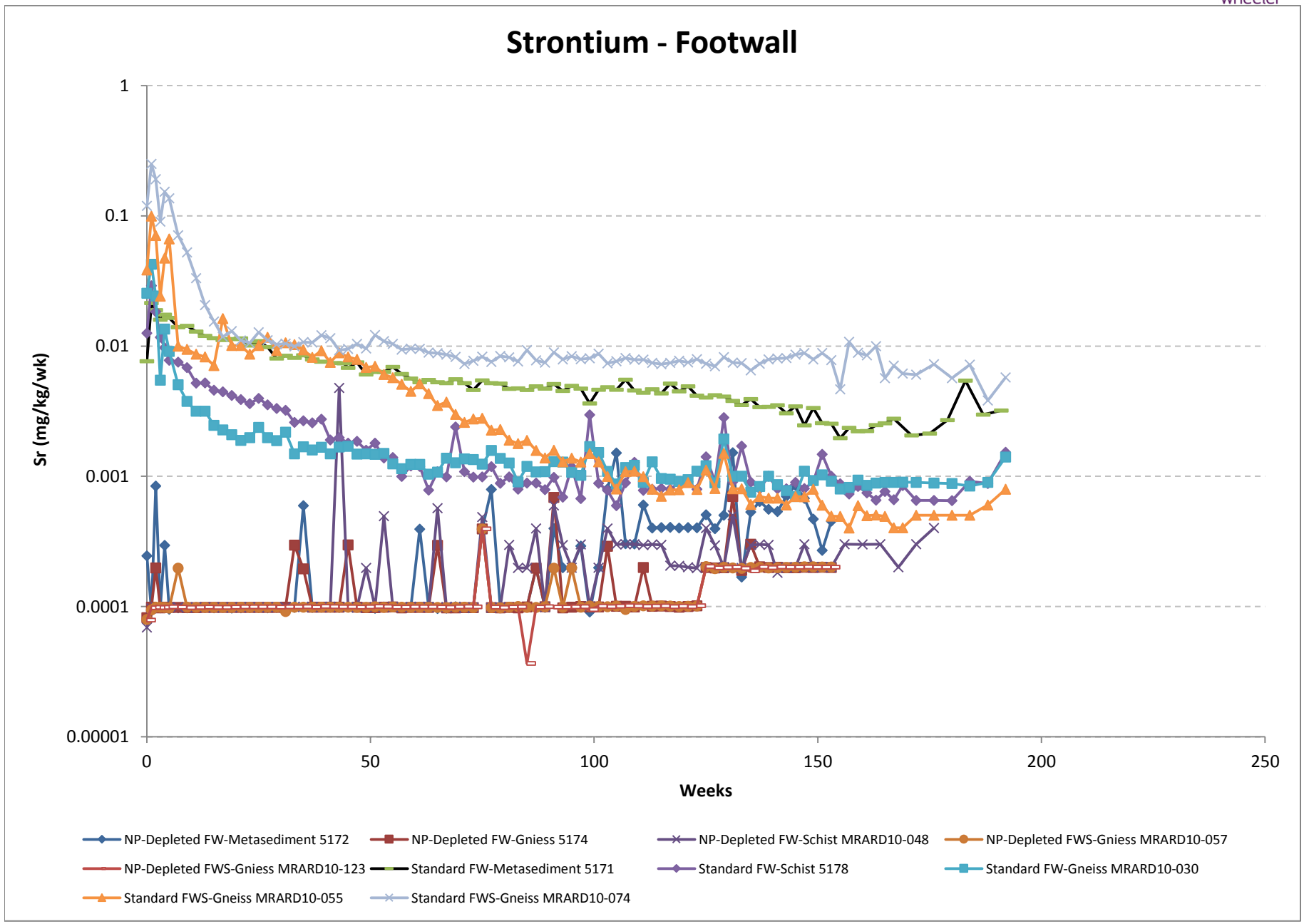
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Strontium - Footwall
Sr (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
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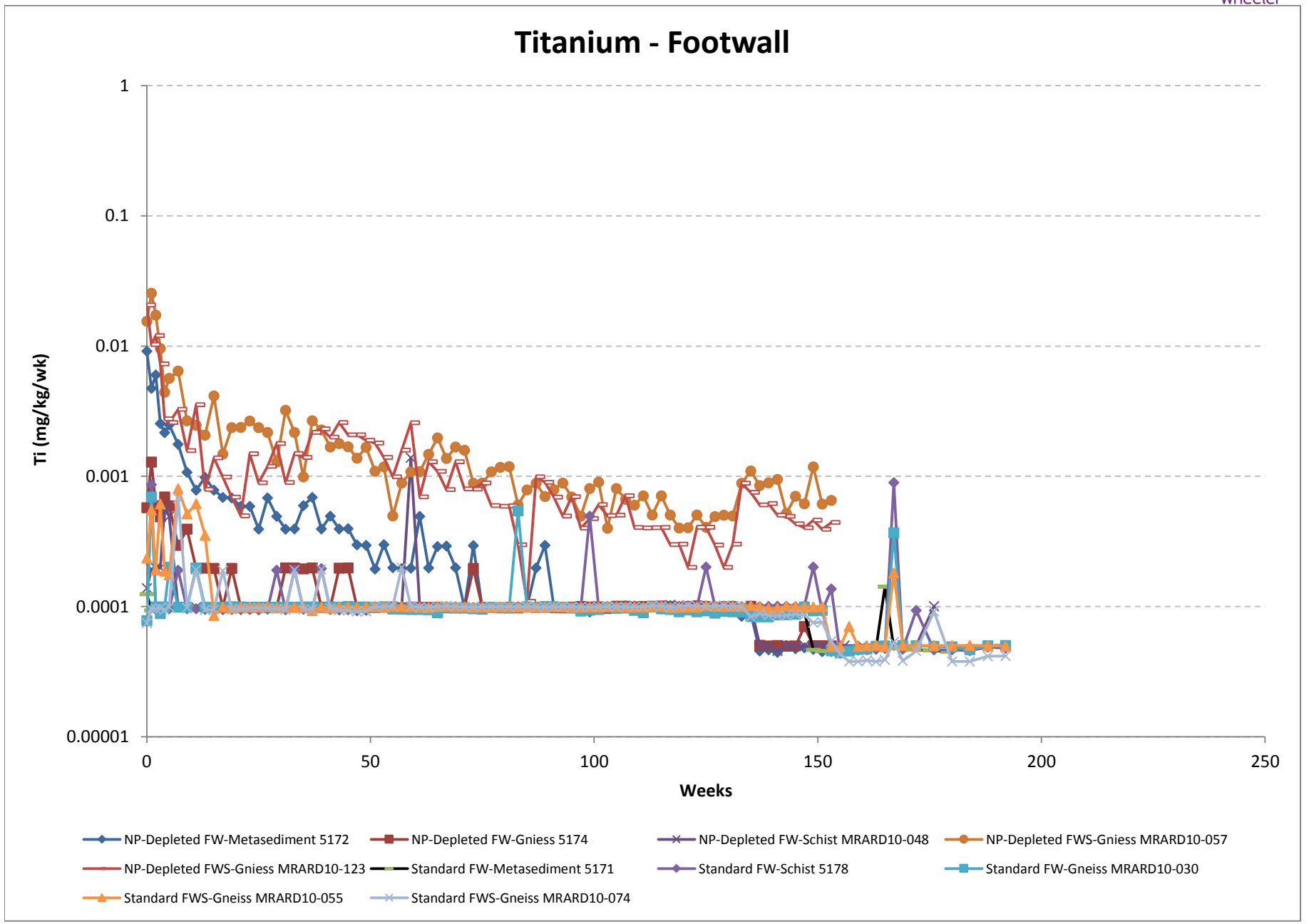
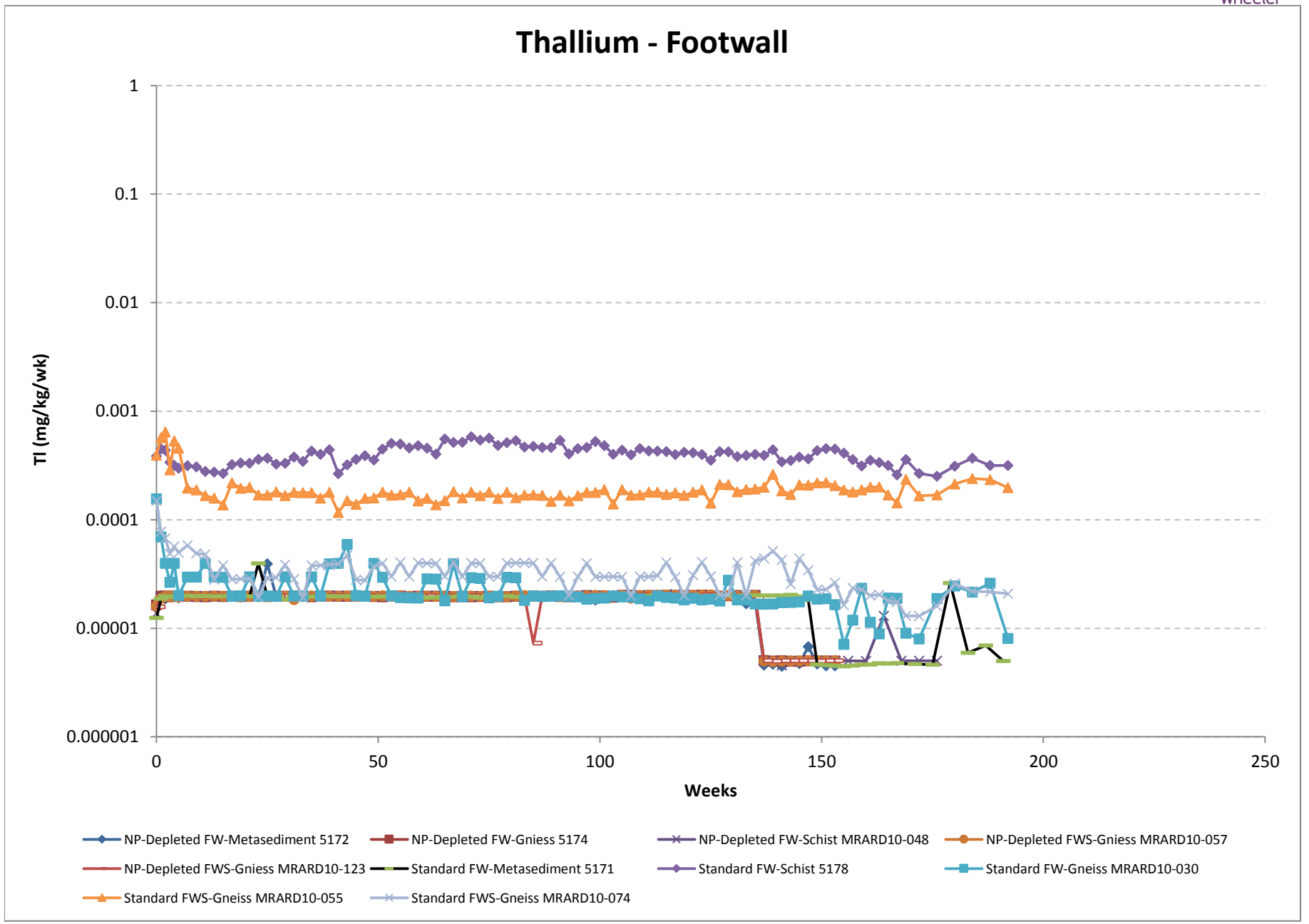
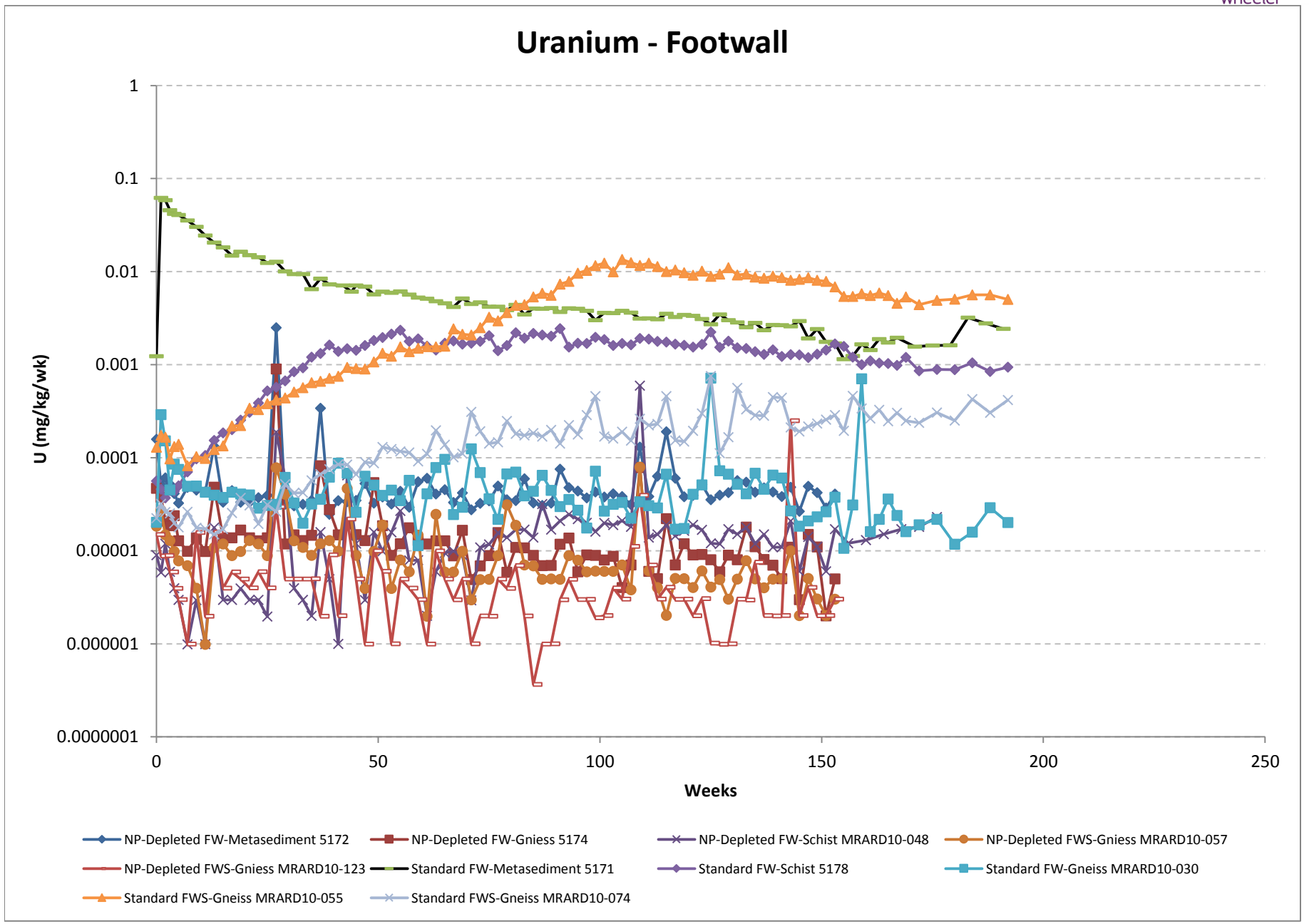
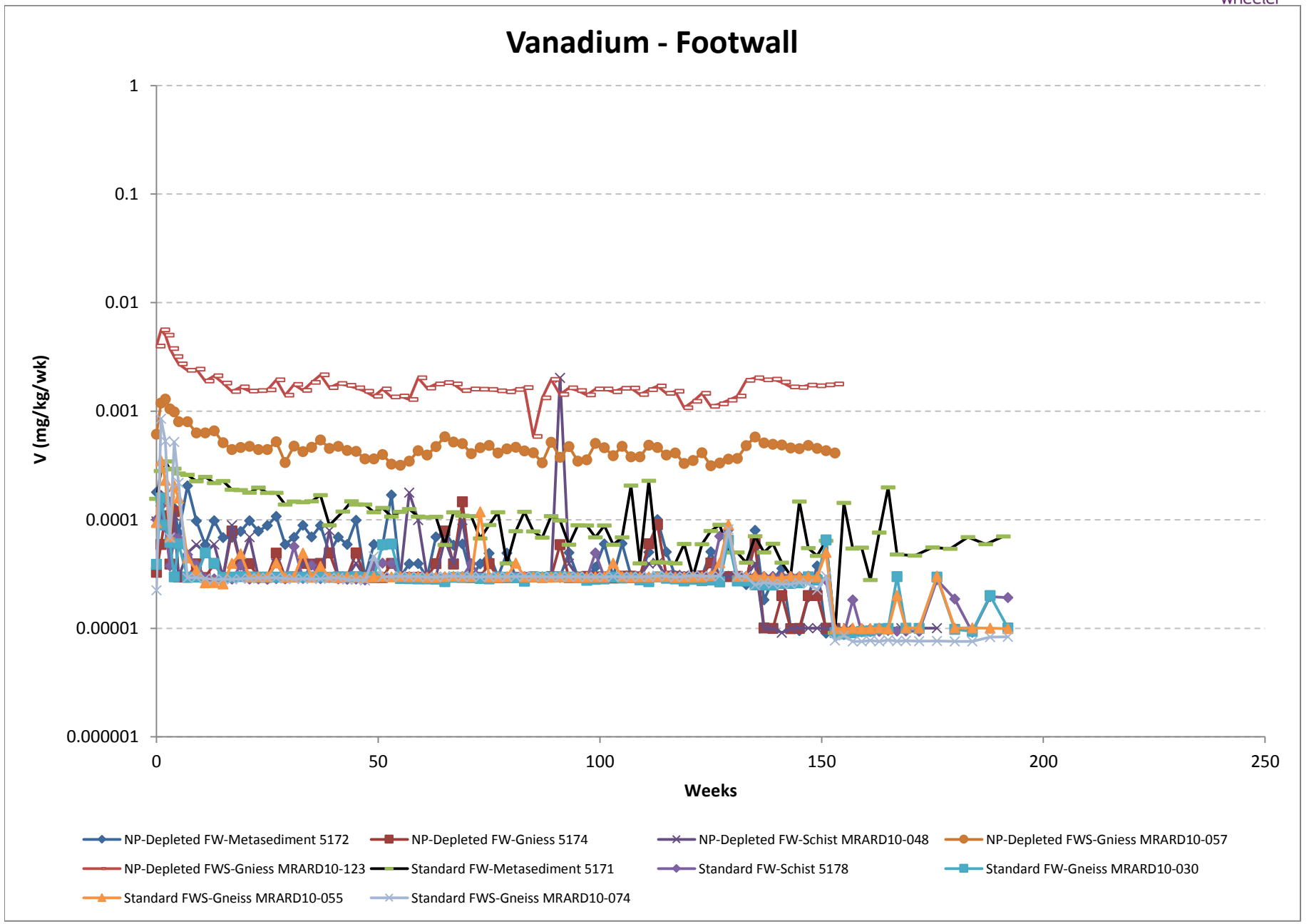
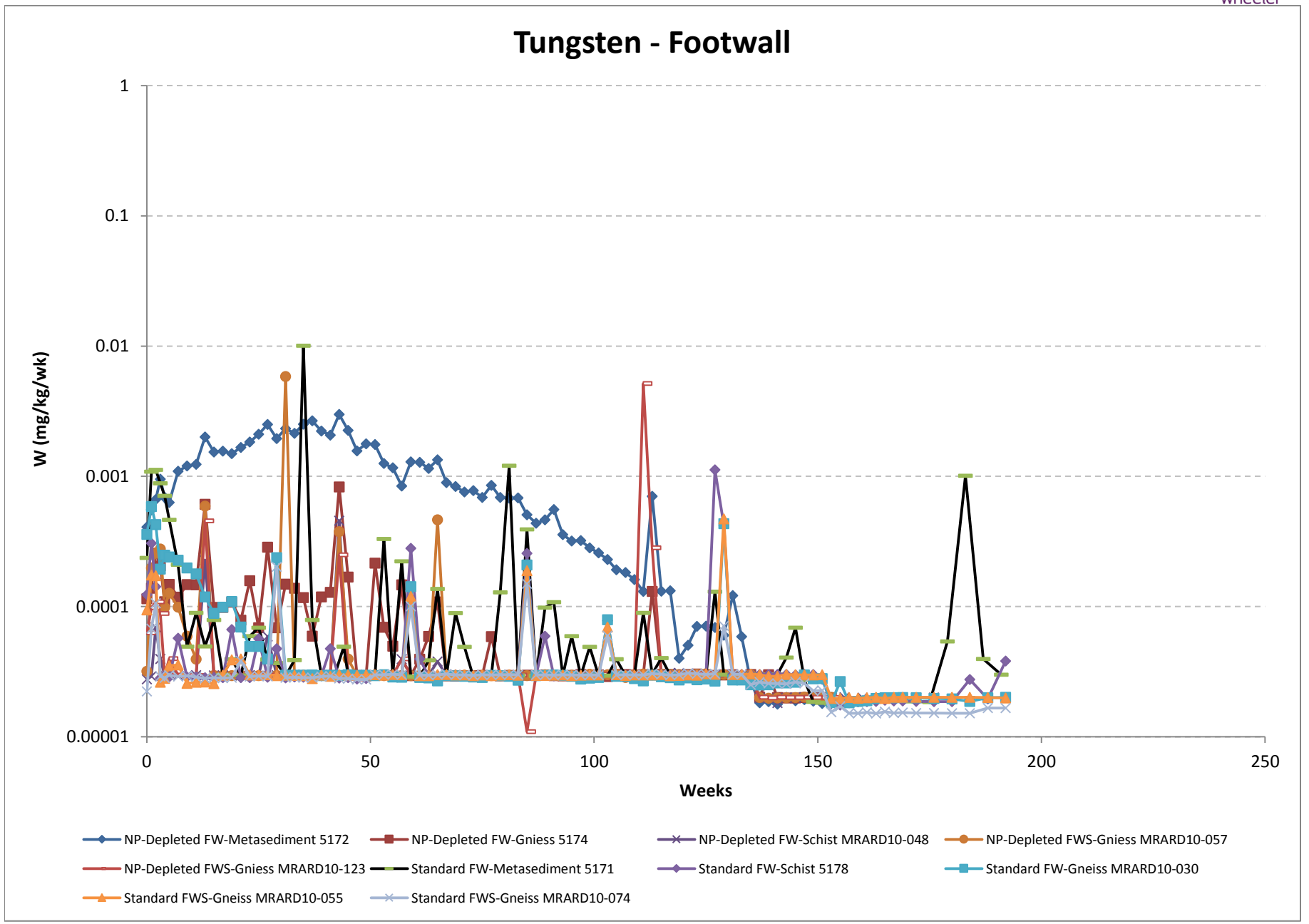
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Titanium - Footwall
Ti (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Thallium - Footwall
Tl (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Uranium - Footwall
U (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0.0000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Vanadium - Footwall
V (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074


Tungsten - Footwall
W (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
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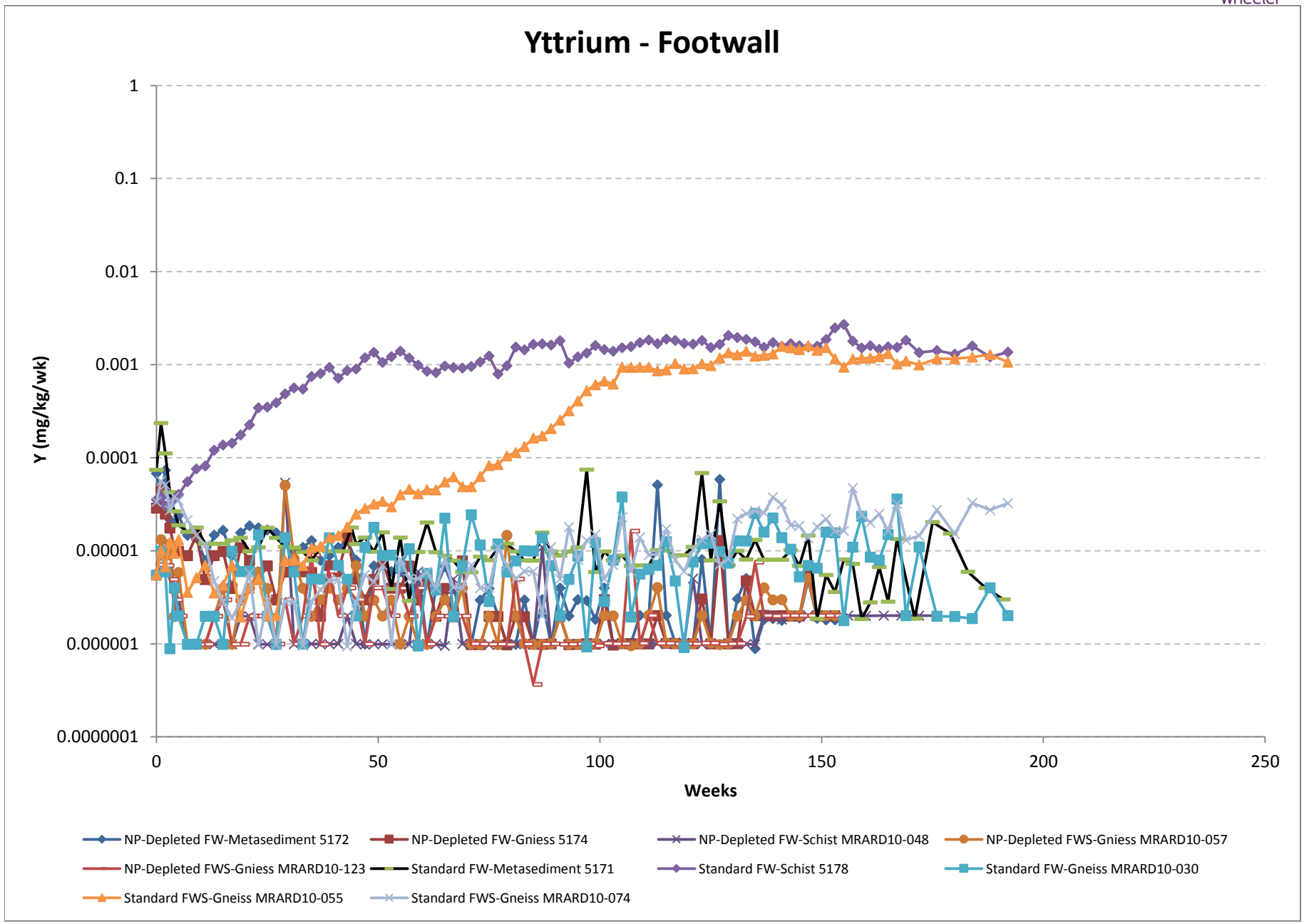
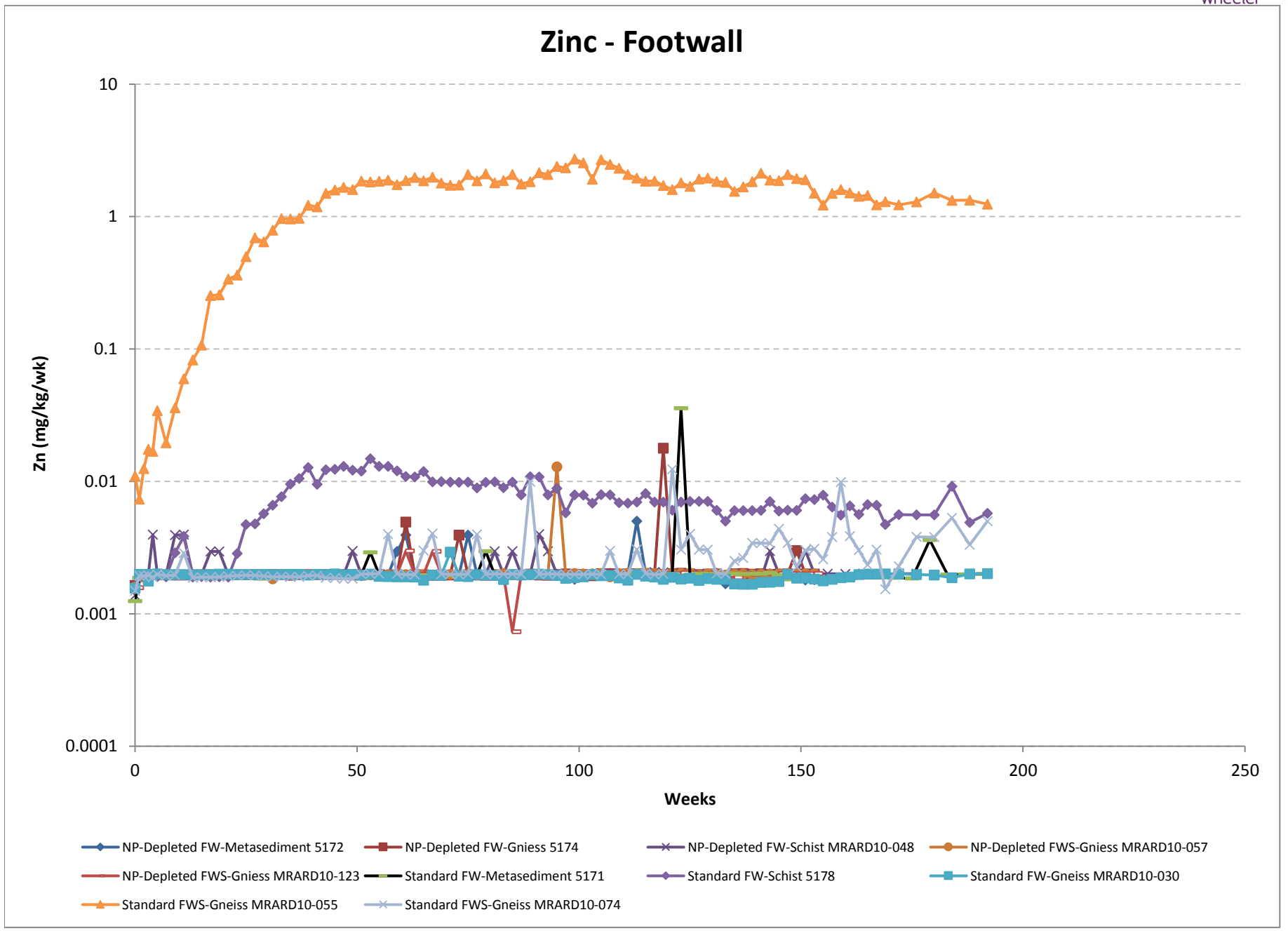
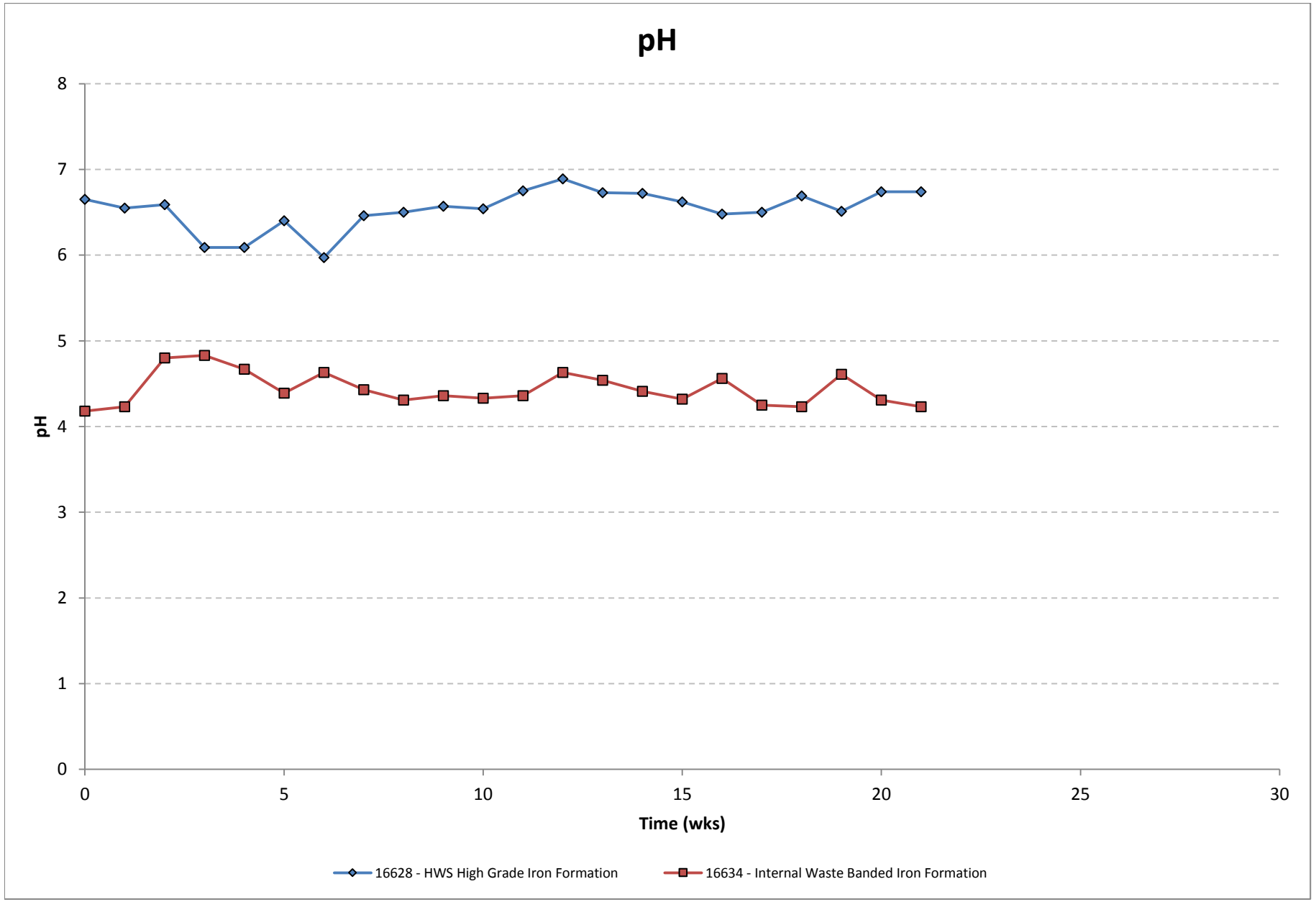
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

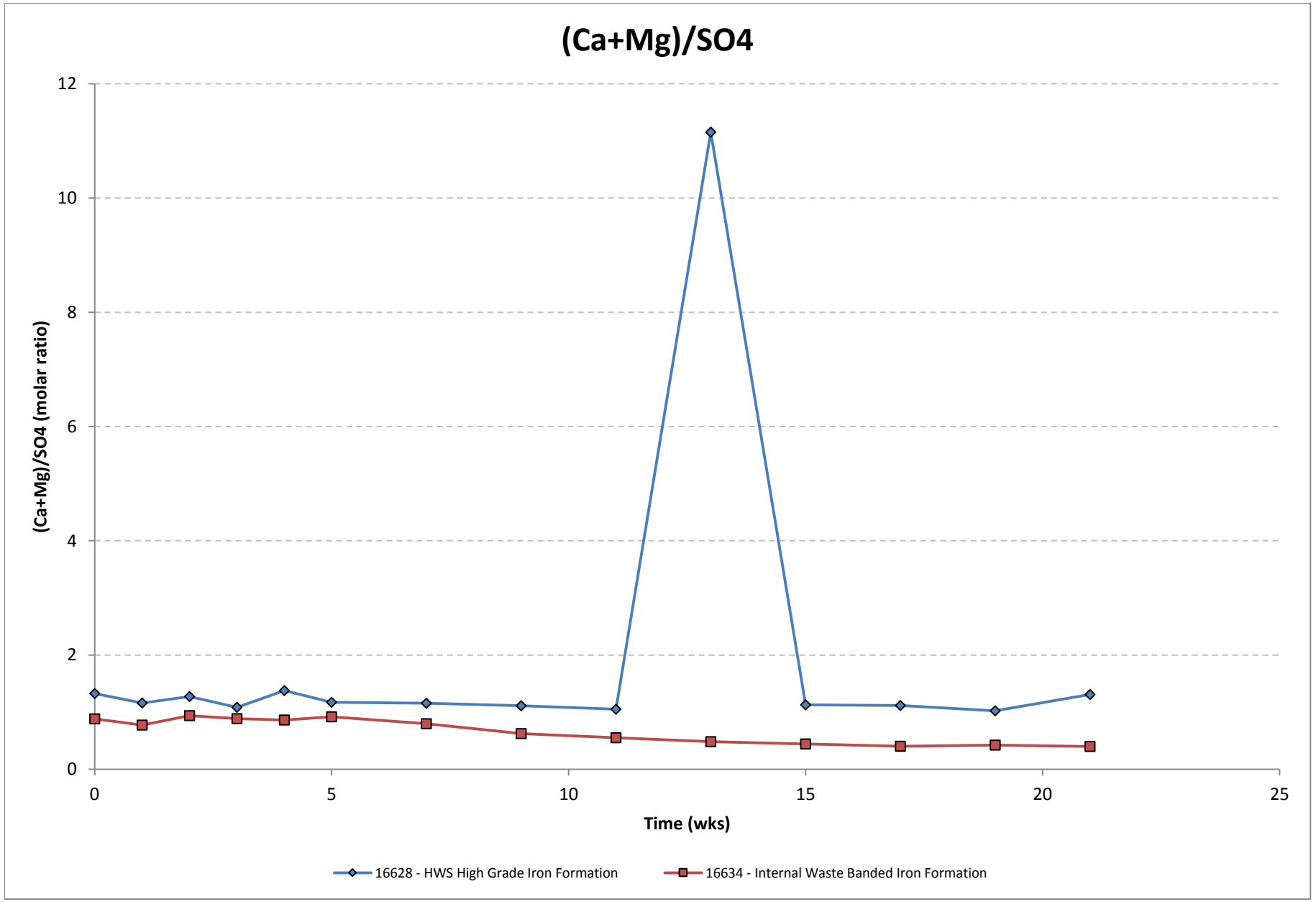

Yttrium - Footwall
Y (mg/kg/wk)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0.0000001
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

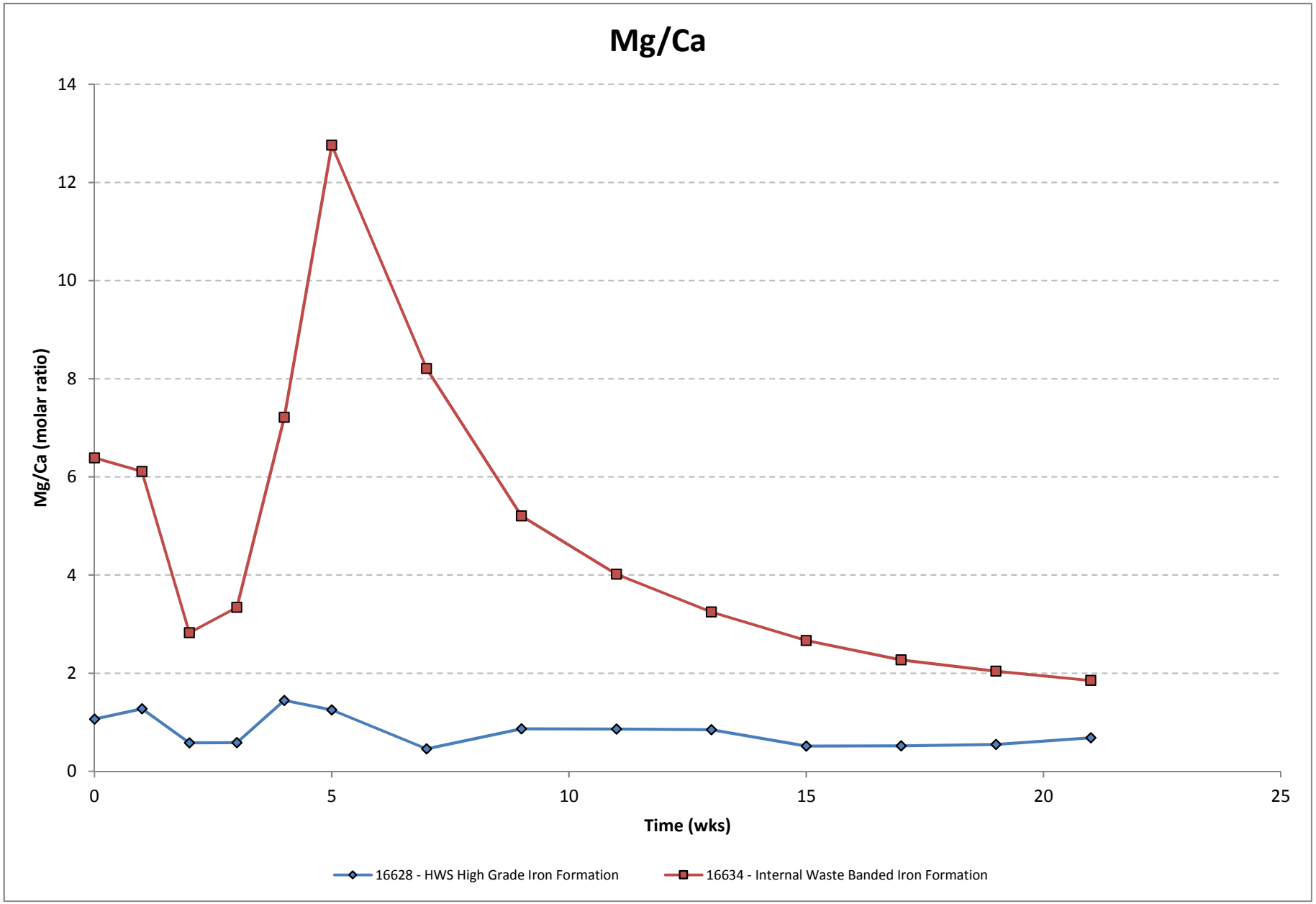

Zinc - Footwall
10
1
0.1
0.01
0.001
0.0001
Zn (mg/kg/wk)
0
50
100
150
200
250
Weeks
NP-Depleted FW-Metasediment 5172
NP-Depleted FW-Gniess 5174
NP-Depleted FW-Schist MRARD10-048
NP-Depleted FWS-Gniess MRARD10-057
NP-Depleted FWS-Gniess MRARD10-123
Standard FW-Metasediment 5171
Standard FW-Schist 5178
Standard FW-Gneiss MRARD10-030
Standard FWS-Gneiss MRARD10-055
Standard FWS-Gneiss MRARD10-074

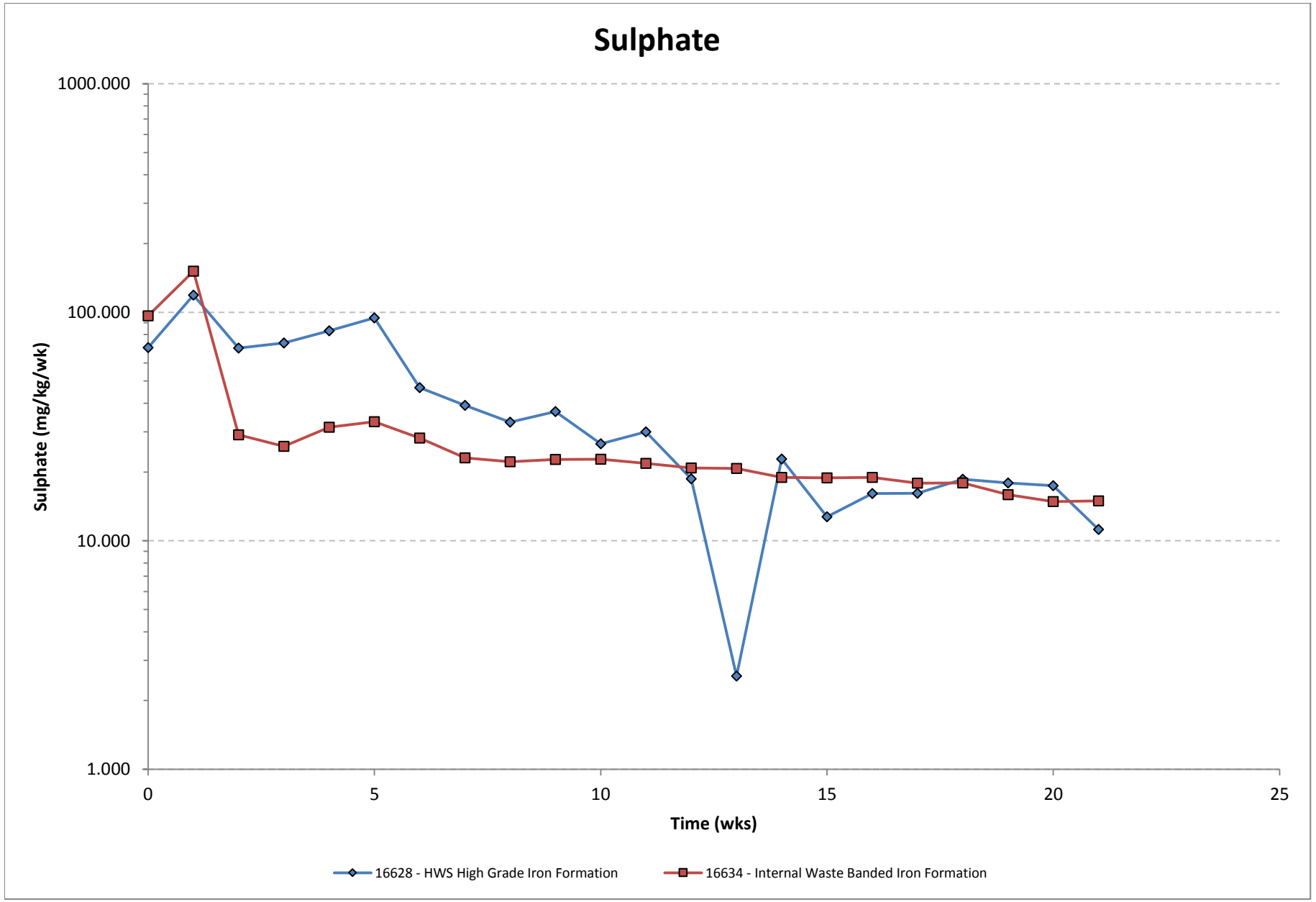
amec foster wheeler

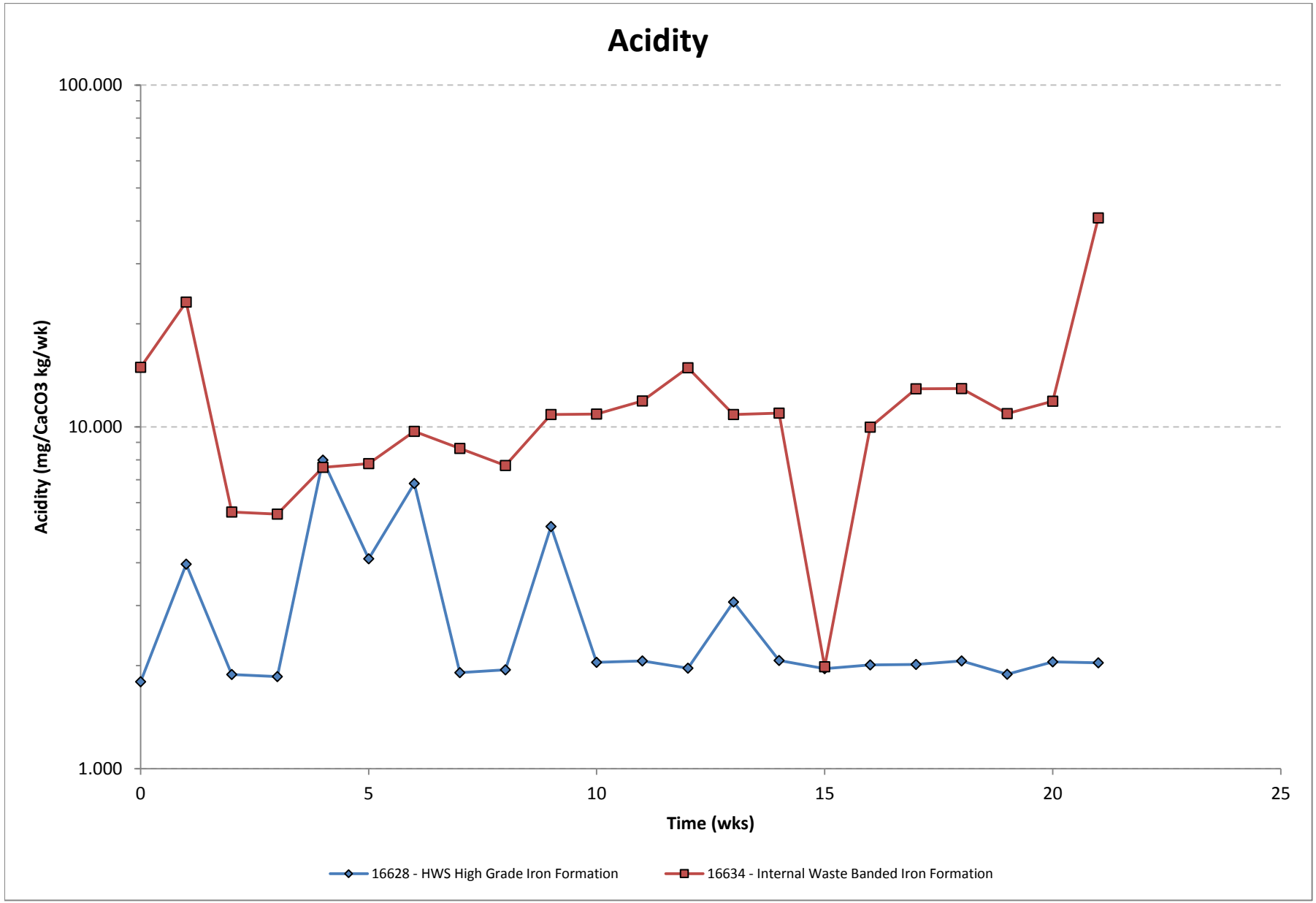
**Mineralized Waste Humidity Cell Plots**

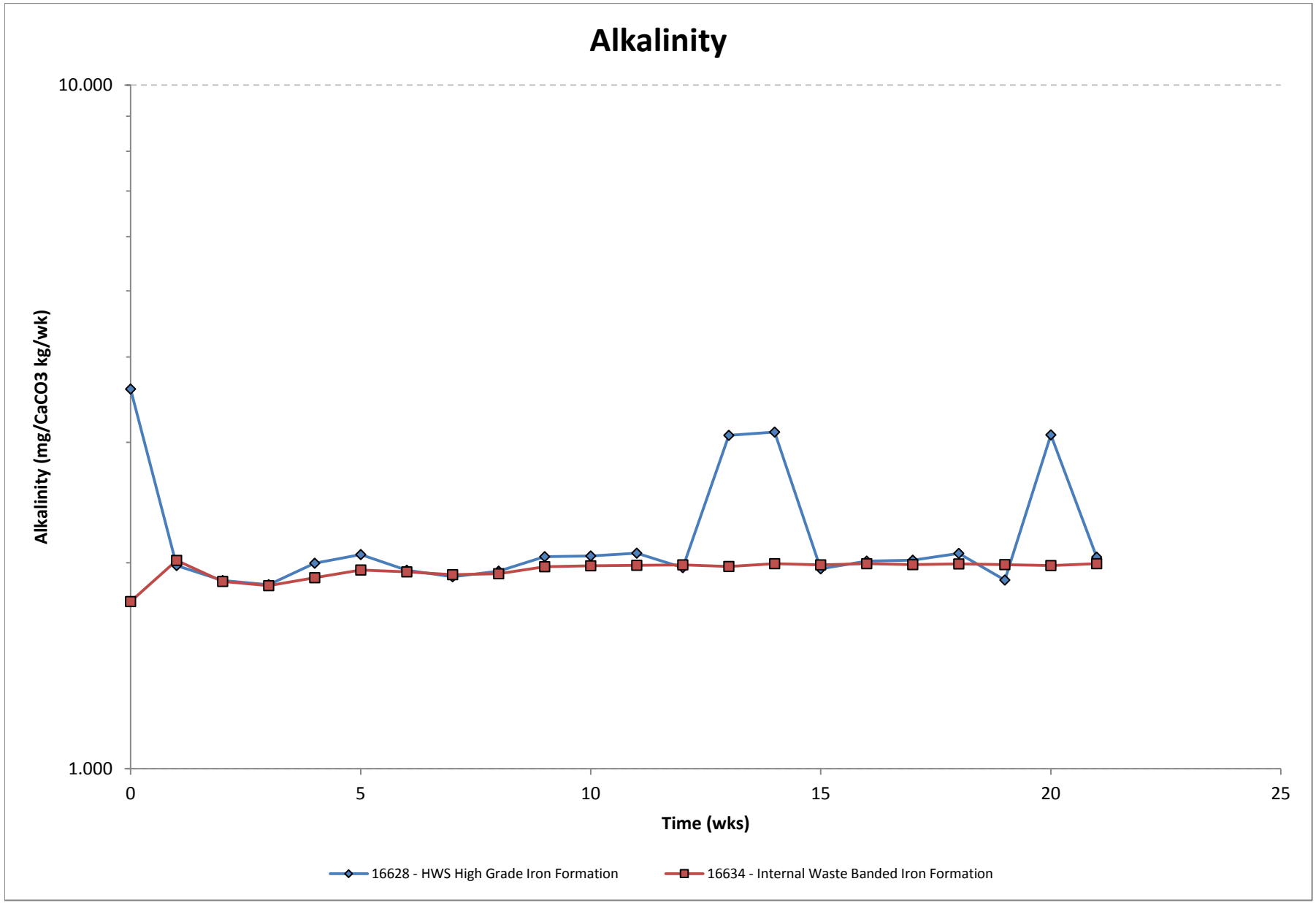

pH
8
7
6
5
4
3
2
1
0
pH
0
5
10
15
20
25
30
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

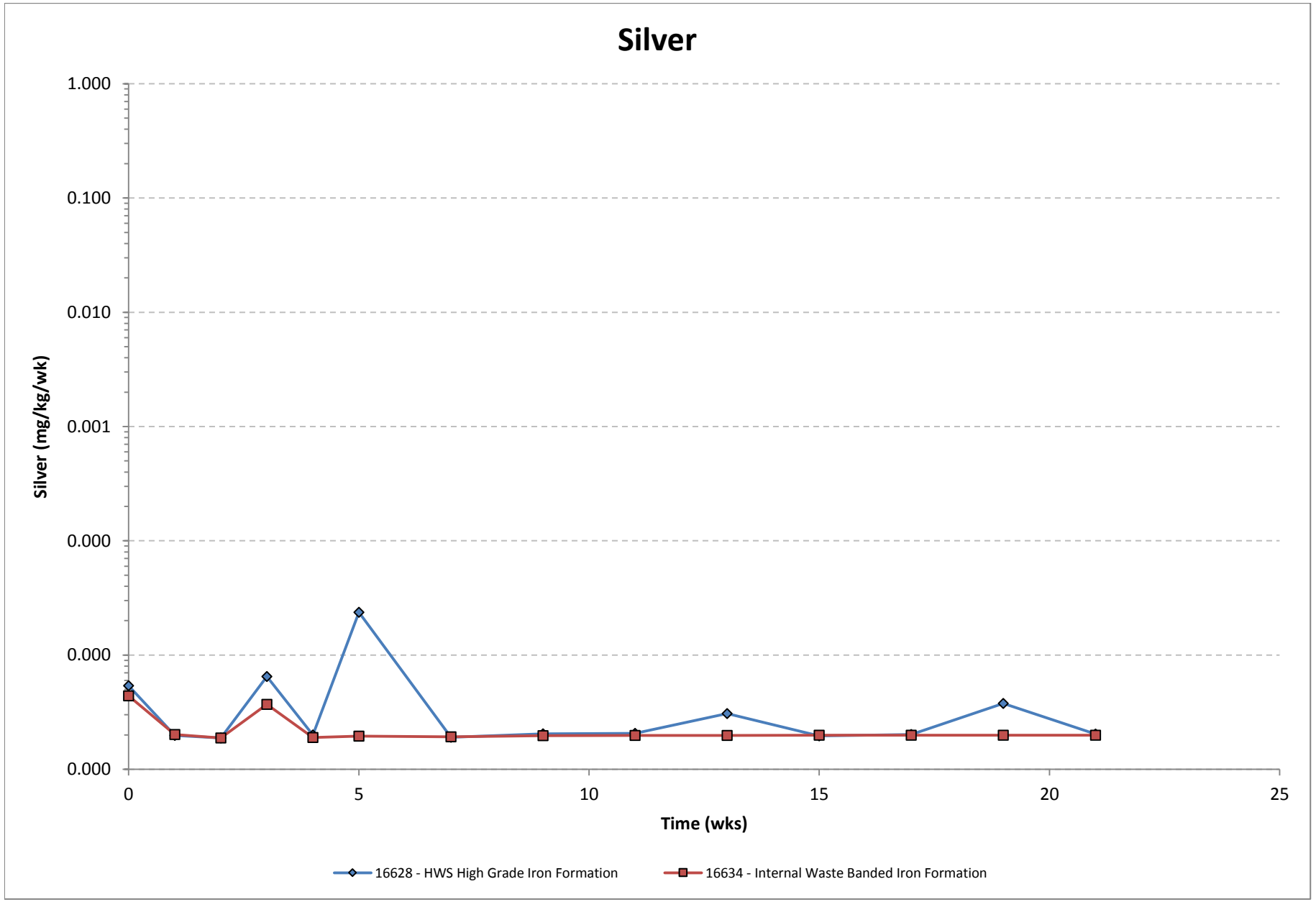

(Ca+Mg)/SO4
(Ca+Mg)/SO4 (molar ratio)
12
10
8
6
4
2
0
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

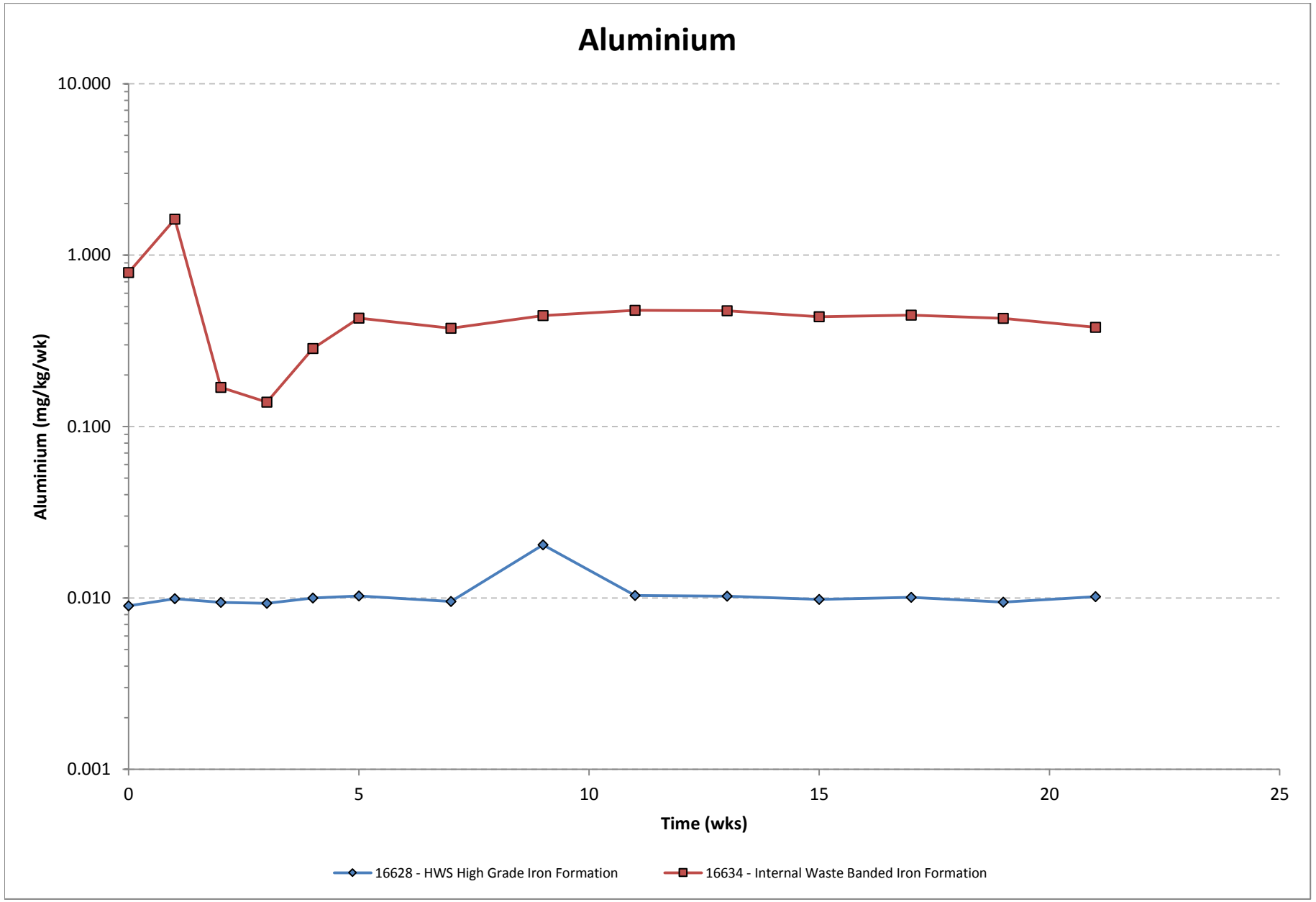

Mg/Ca
Mg/Ca (molar ratio)
14
12
10
8
6
4
2
0
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

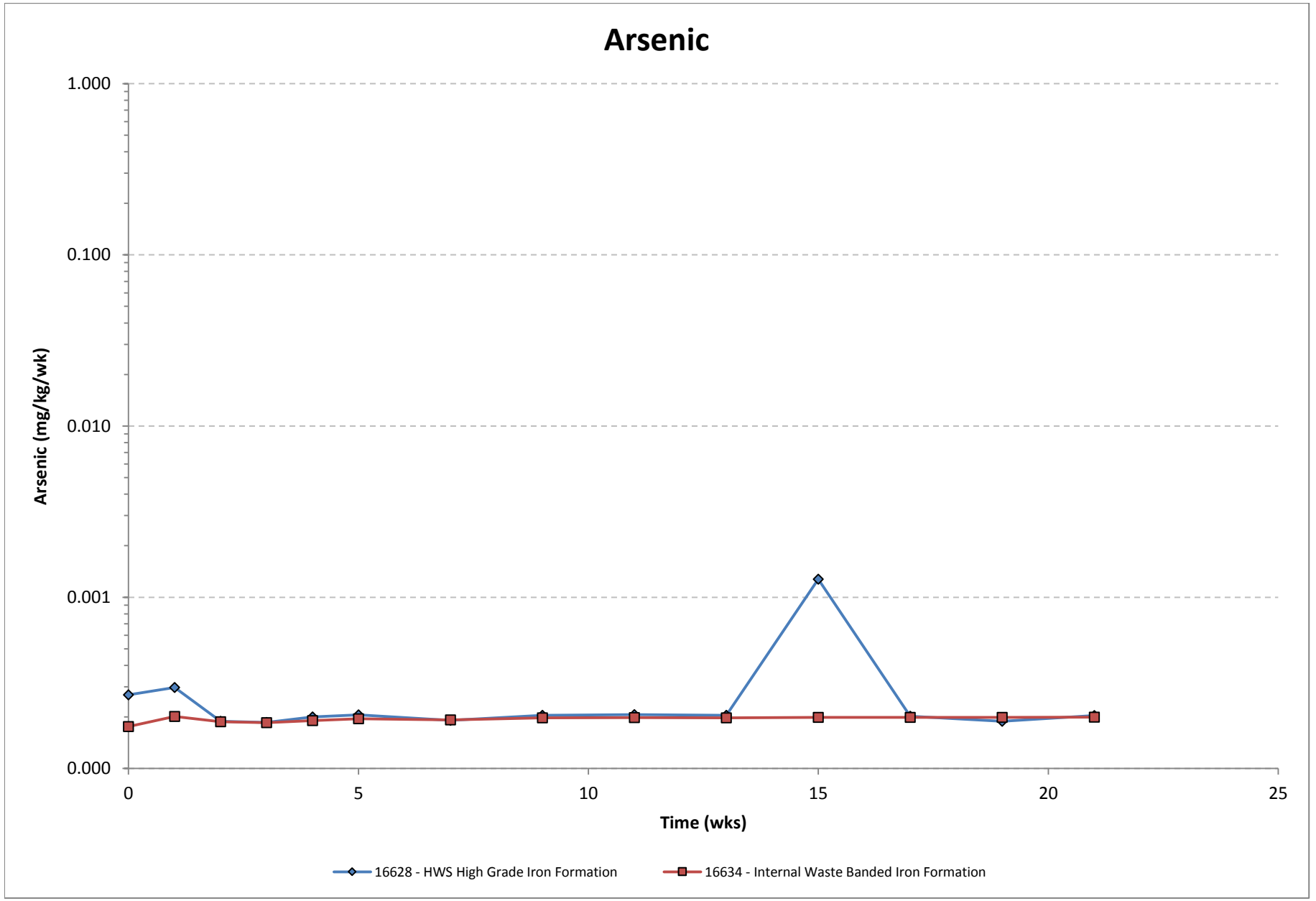

Sulphate
1000.000
100.000
10.000
1.000
Sulphate (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

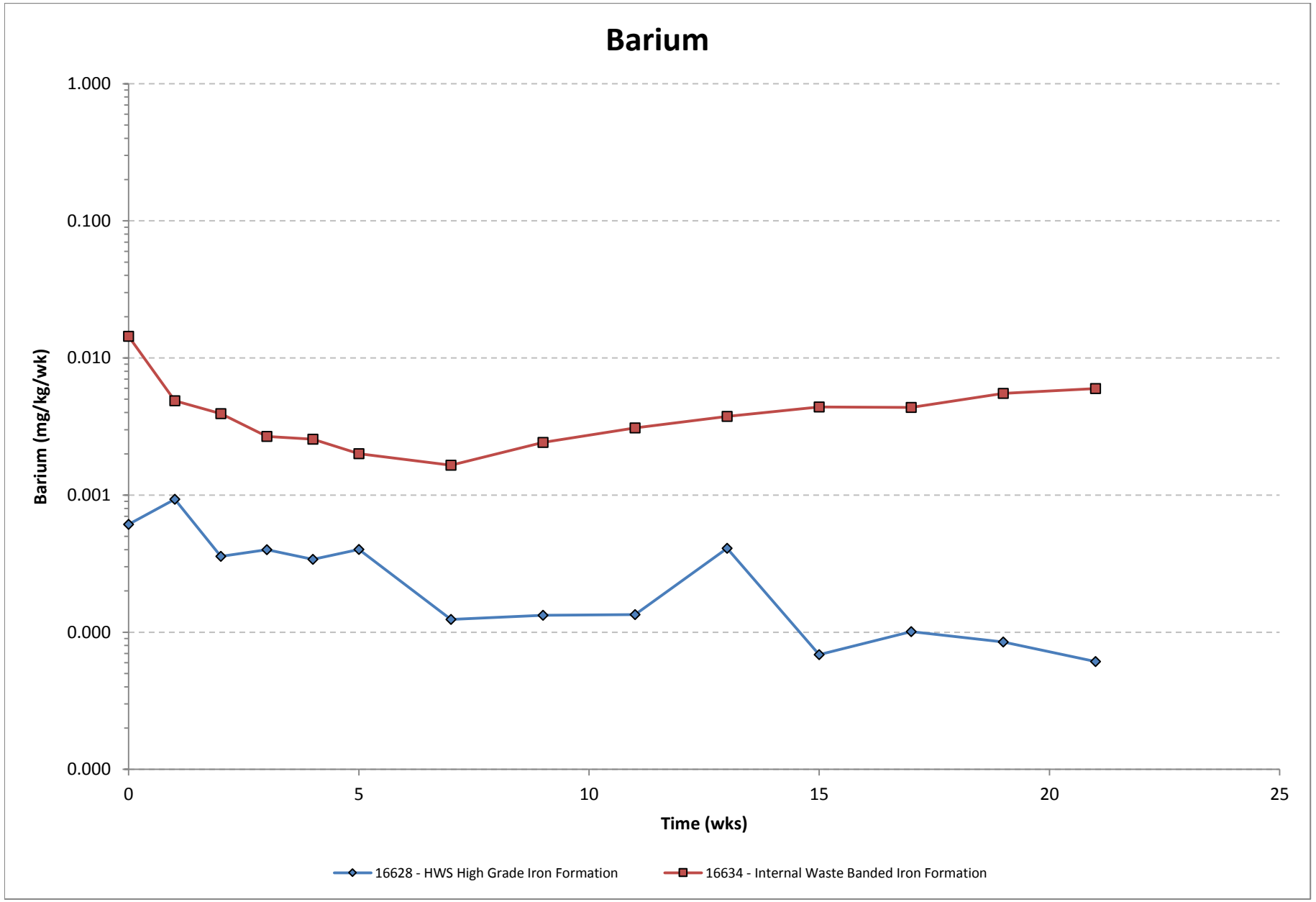

Acidity
100.000
10.000
1.000
Acidity (mg/CaCO3 kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

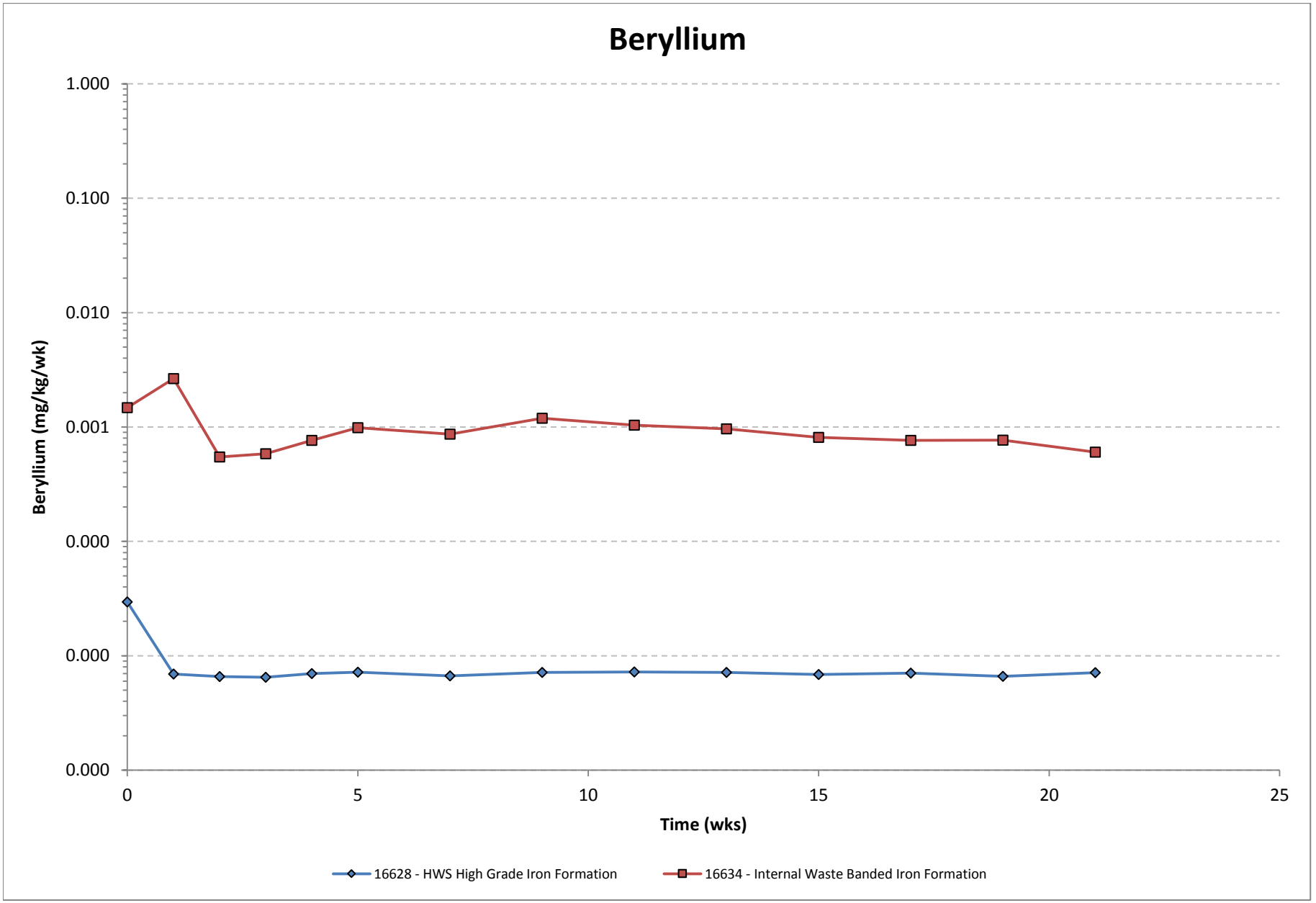

Alkalinity
10.000
1.000
Alkalinity (mg/CaCO3 kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

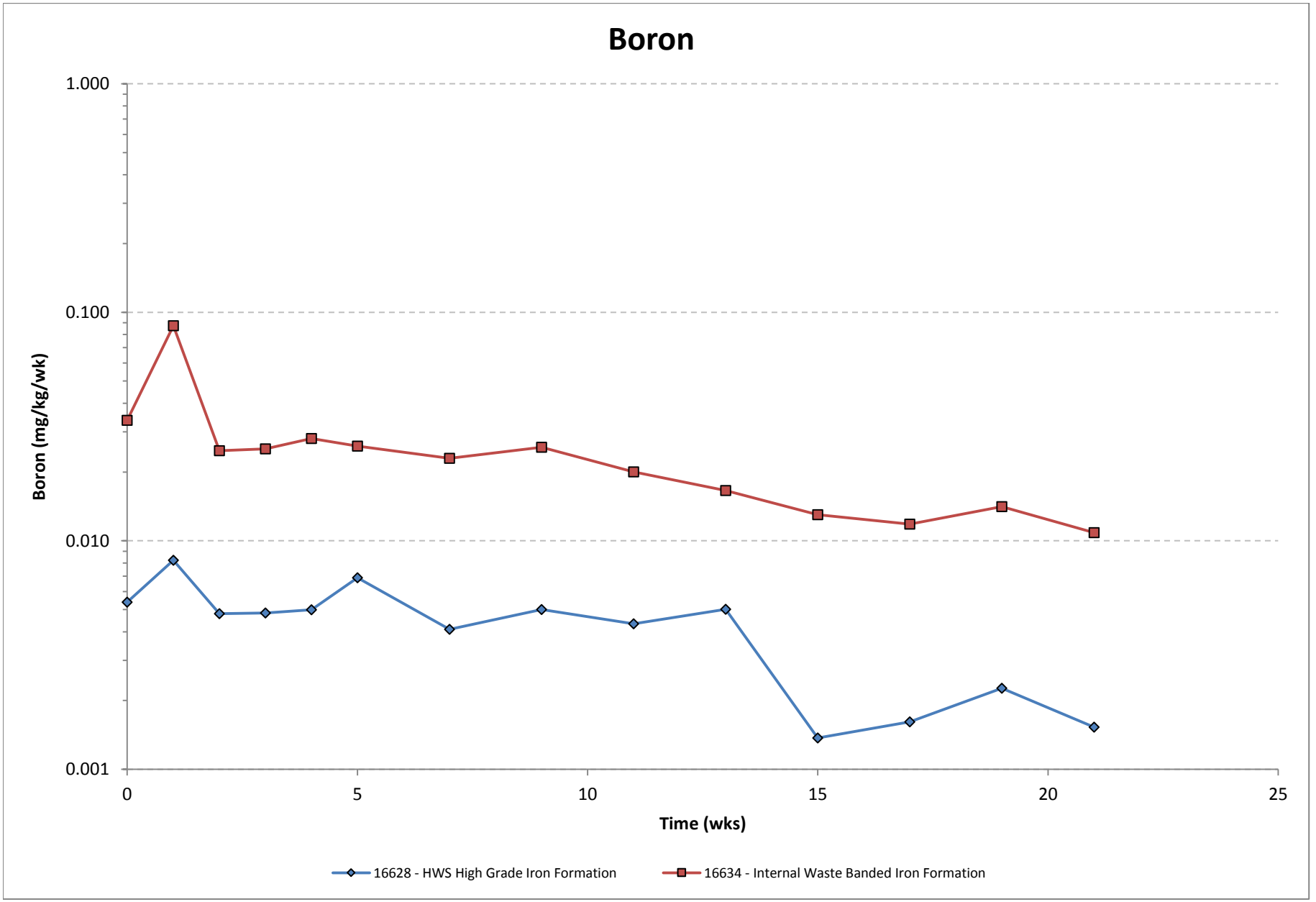

Silver
1.000
0.100
0.010
0.001
0.000
0.000
0.000
Silver (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

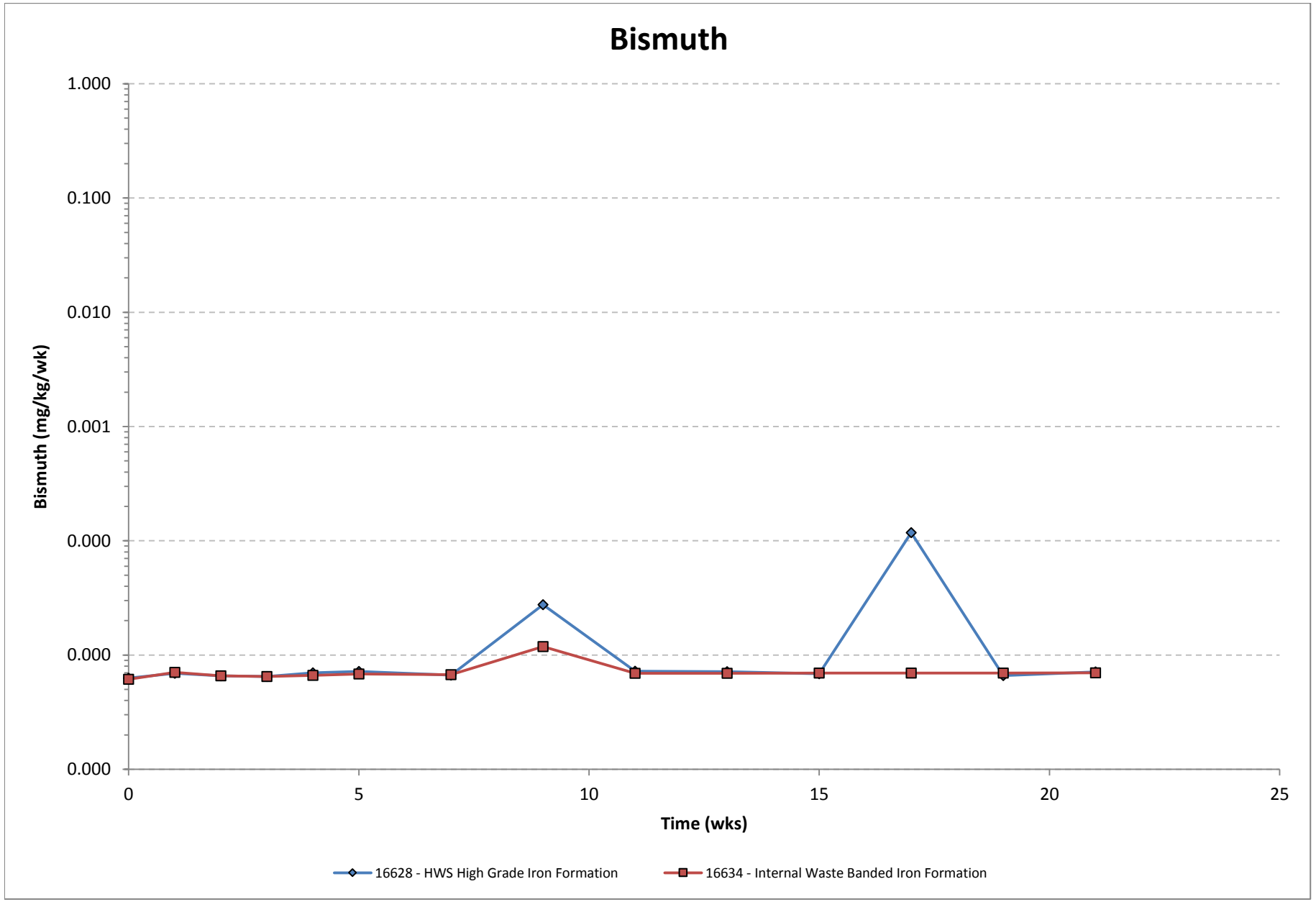

Aluminium
10.000
1.000
0.100
0.010
0.001
Aluminium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

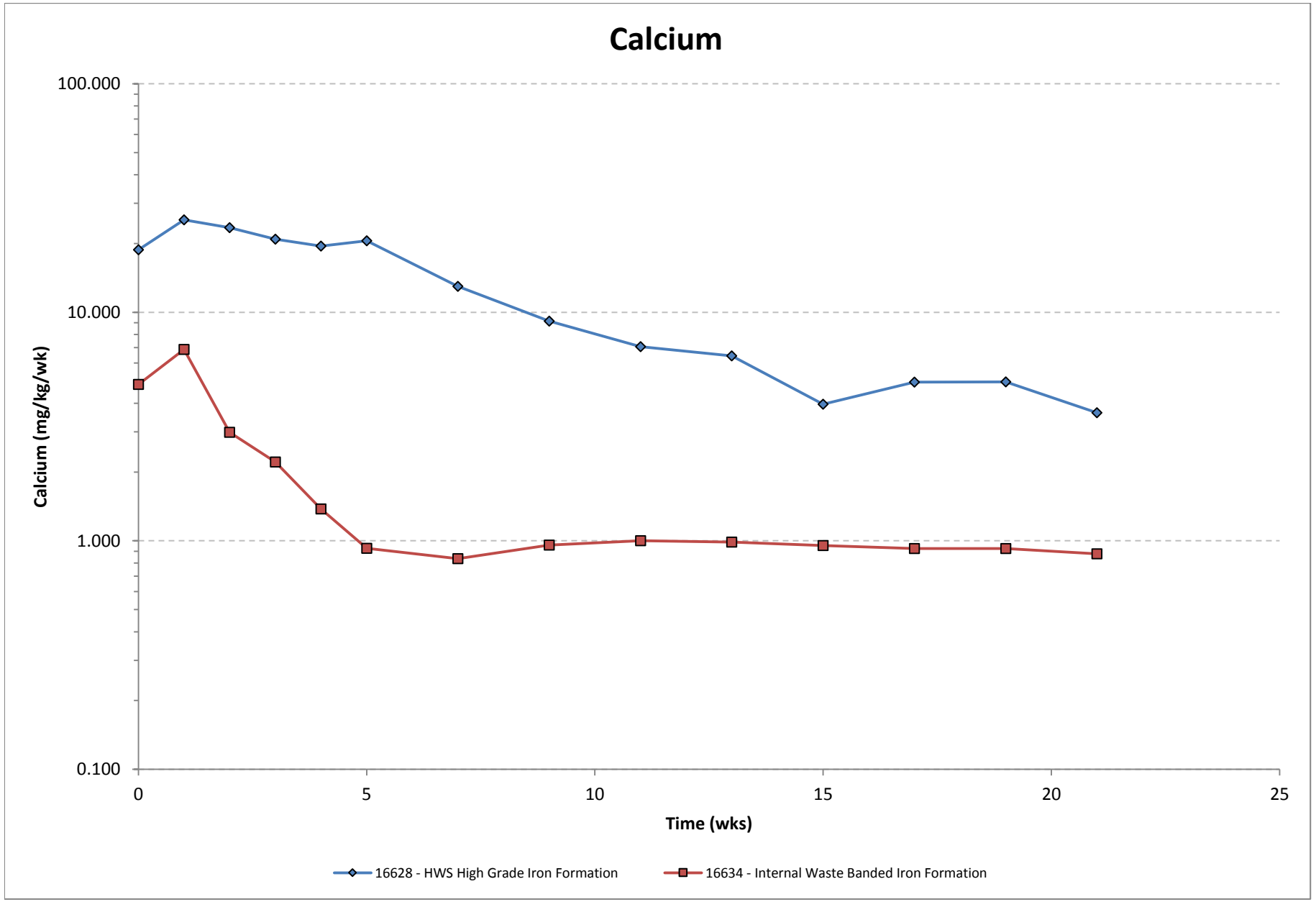

Arsenic
1.000
0.100
0.010
0.001
0.000
Arsenic (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

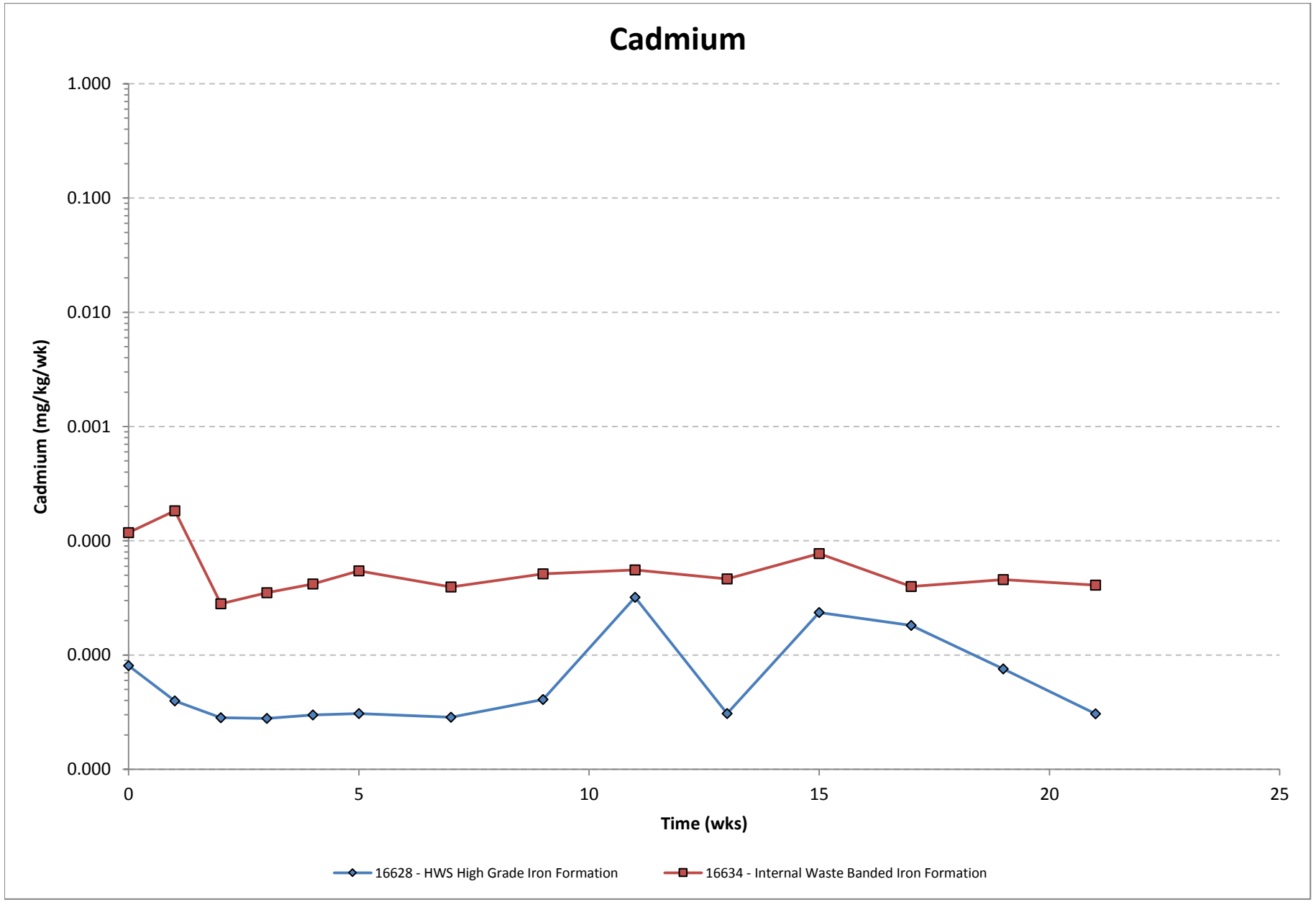

Barium
1.000
0.100
0.010
0.001
0.000
Barium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

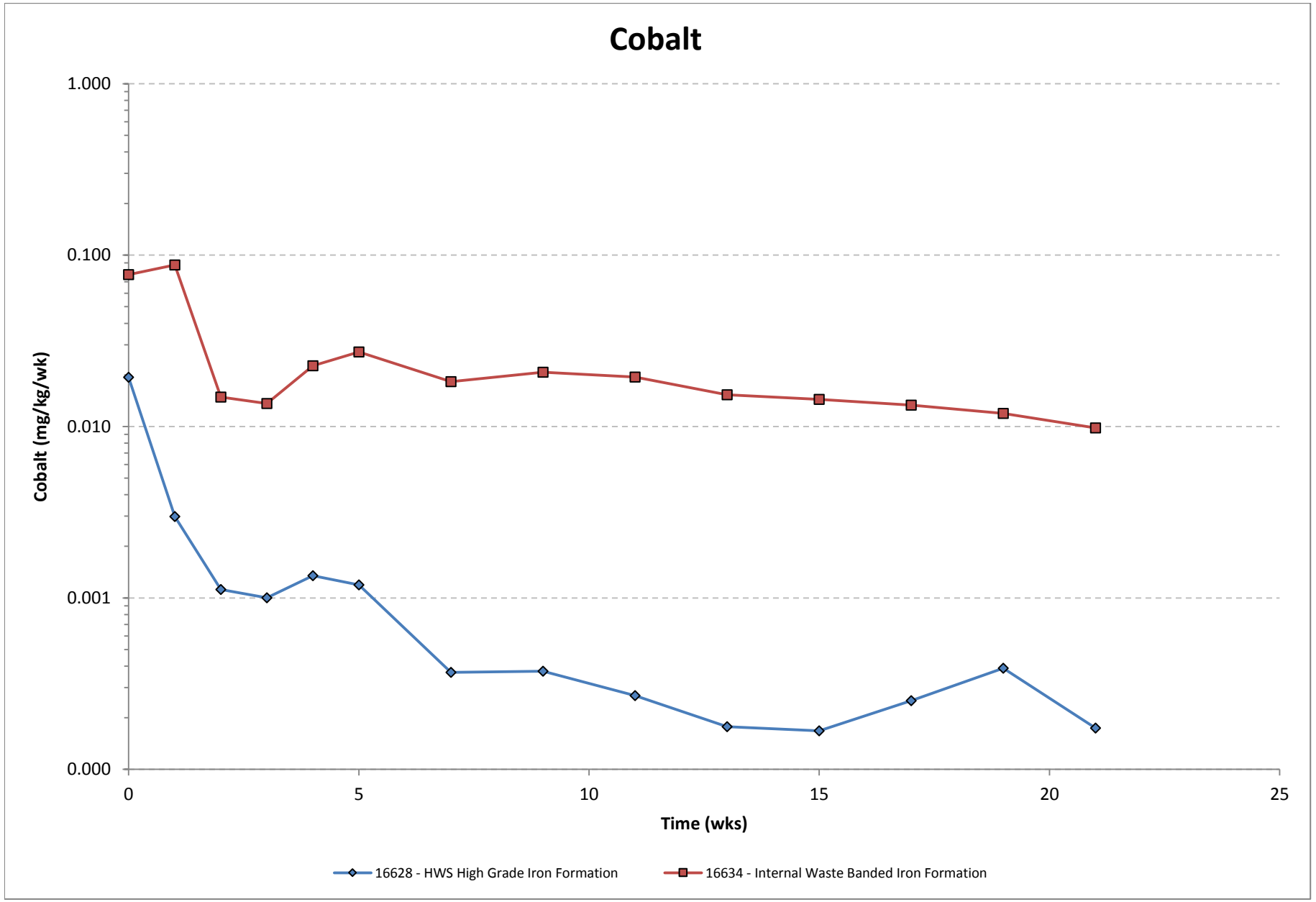

Beryllium
1.000
0.100
0.010
0.001
0.000
0.000
0.000
Beryllium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

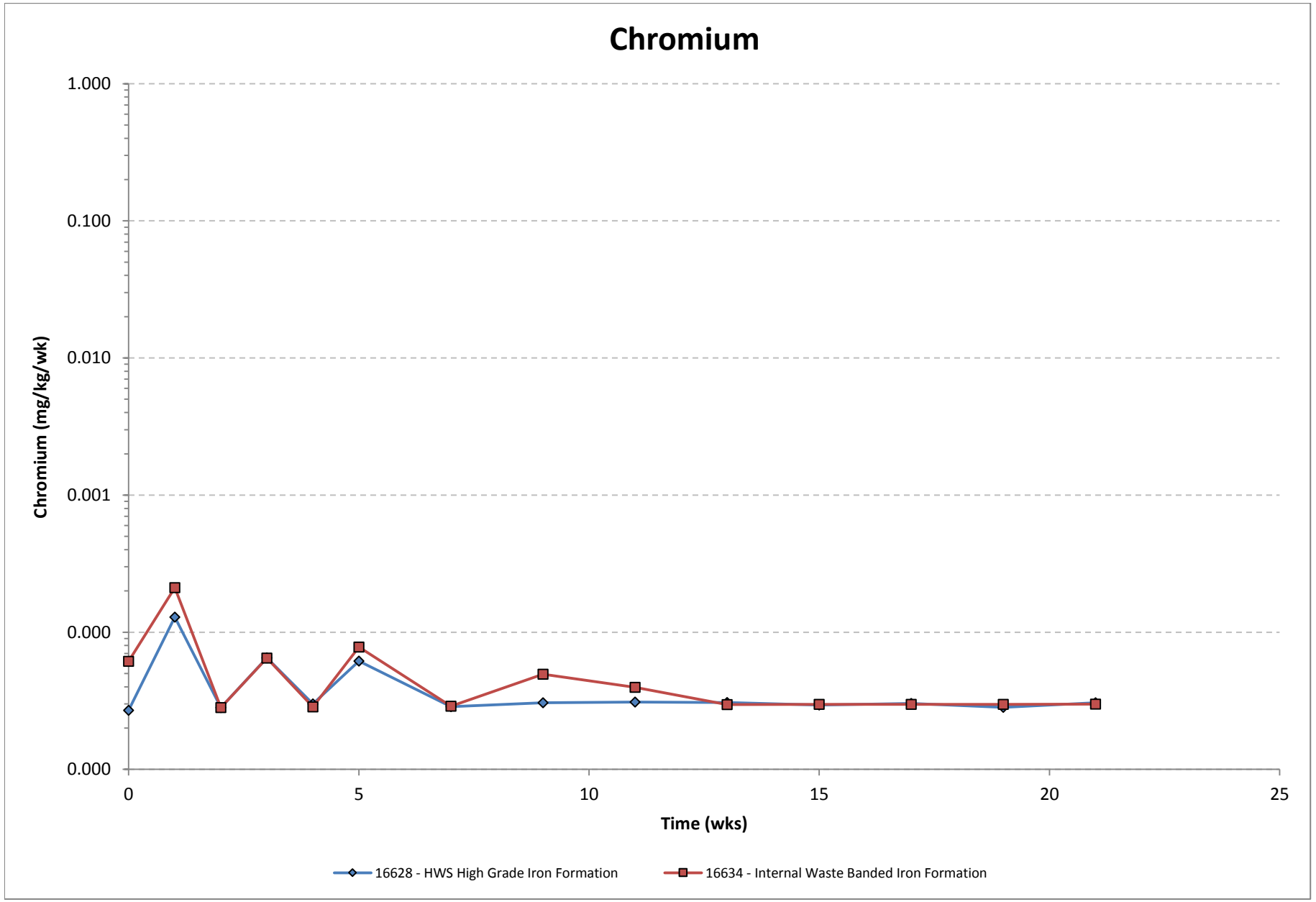

Boron
1.000
0.100
0.010
0.001
Boron (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

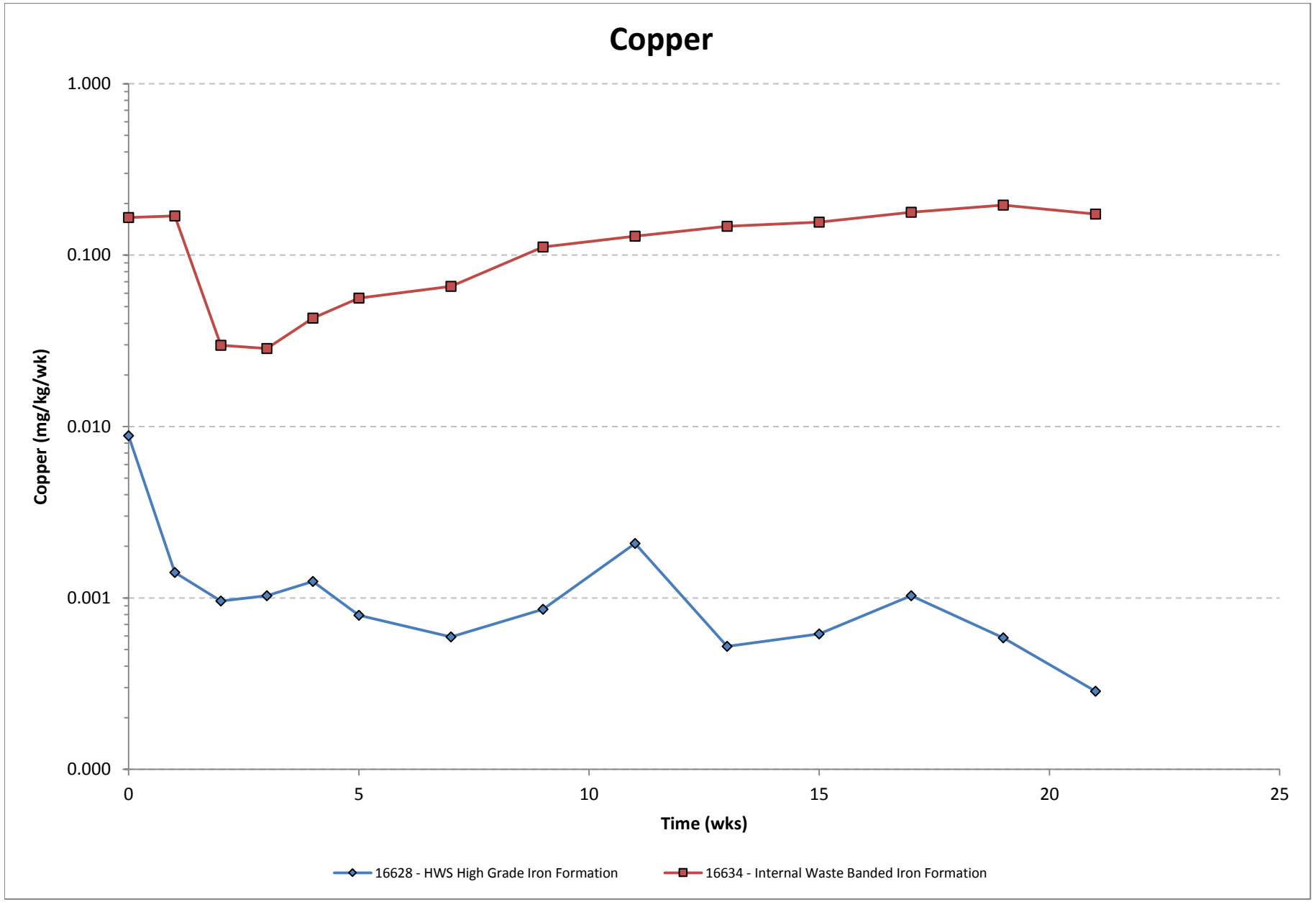

Bismuth
1.000
0.100
0.010
0.001
0.000
0.000
Bismuth (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

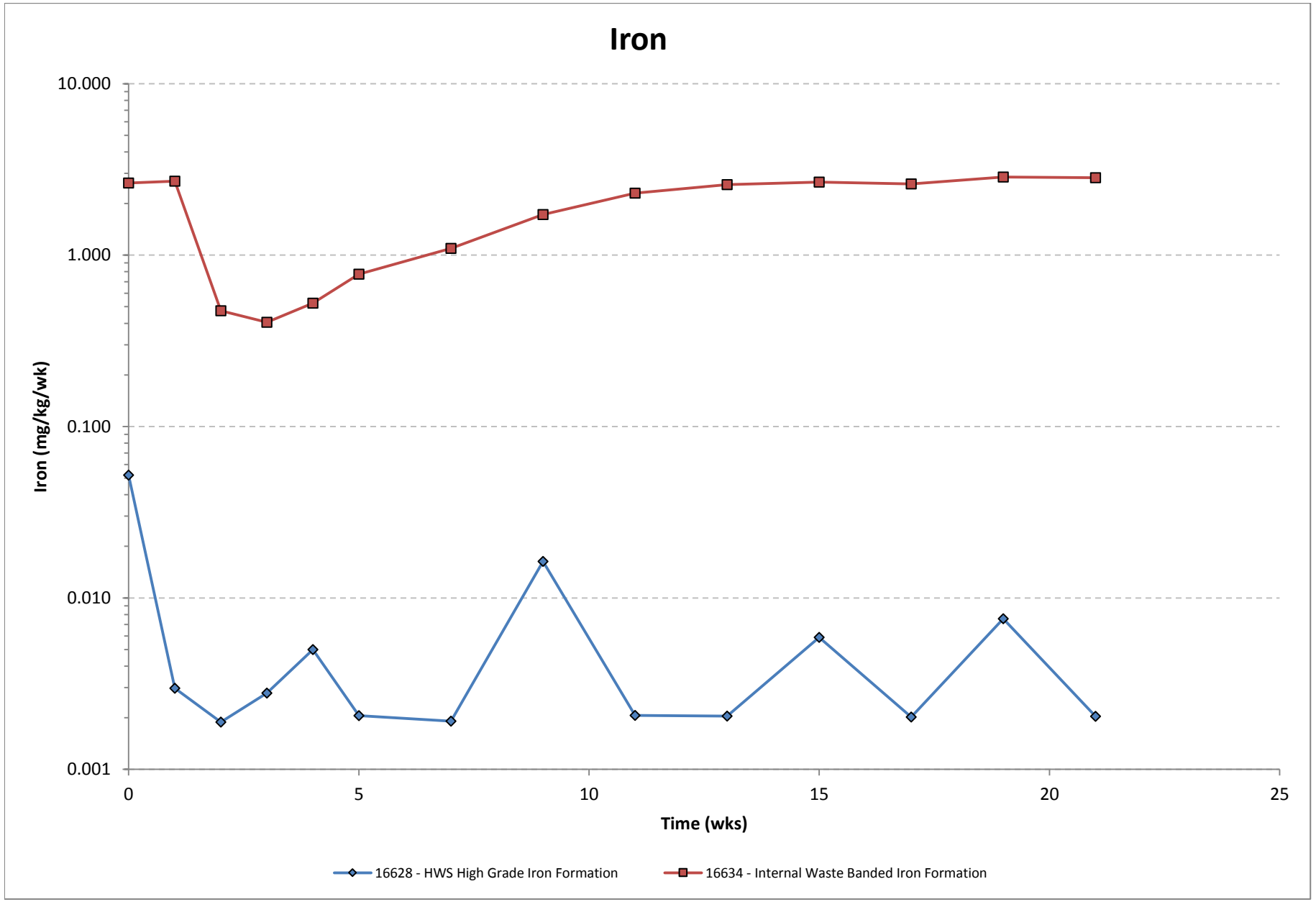

Calcium
100.000
10.000
1.000
0.100
Calcium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

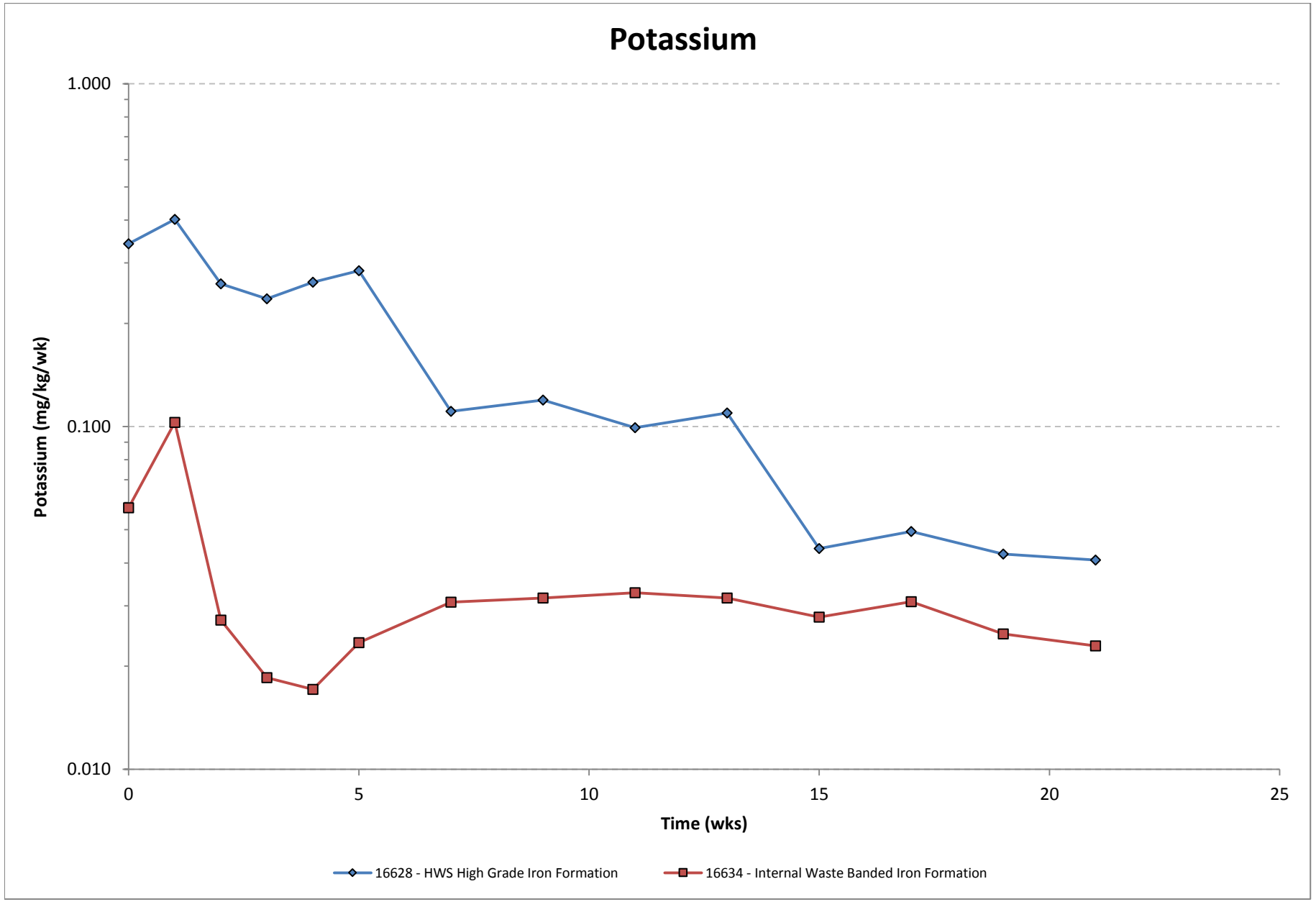

Cadmium
1.000
0.100
0.010
0.001
0.000
0.000
Cadmium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

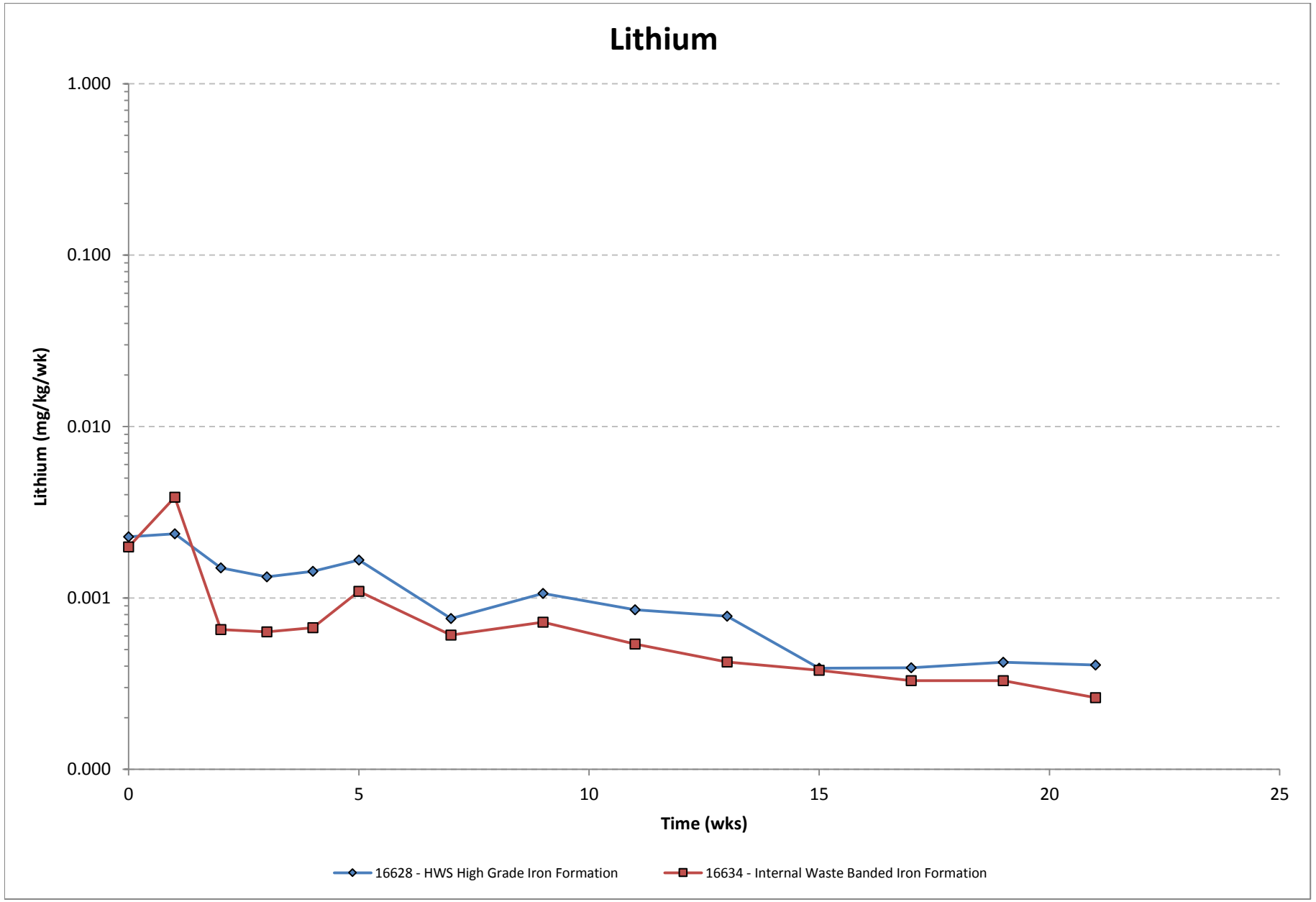

Cobalt
1.000
0.100
0.010
0.001
0.000
Cobalt (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

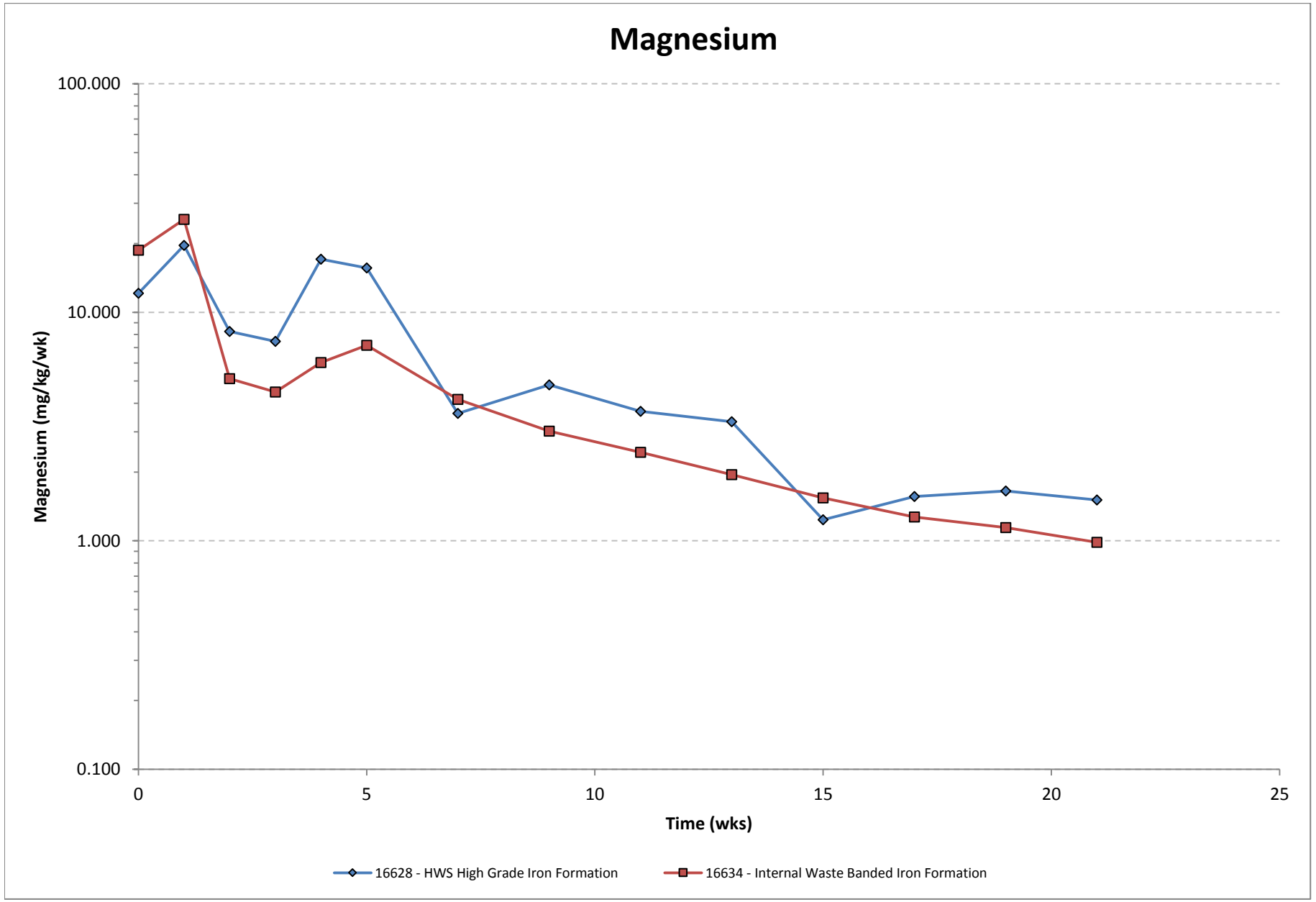

Chromium
1.000
0.100
0.010
0.001
0.000
0.000
Chromium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

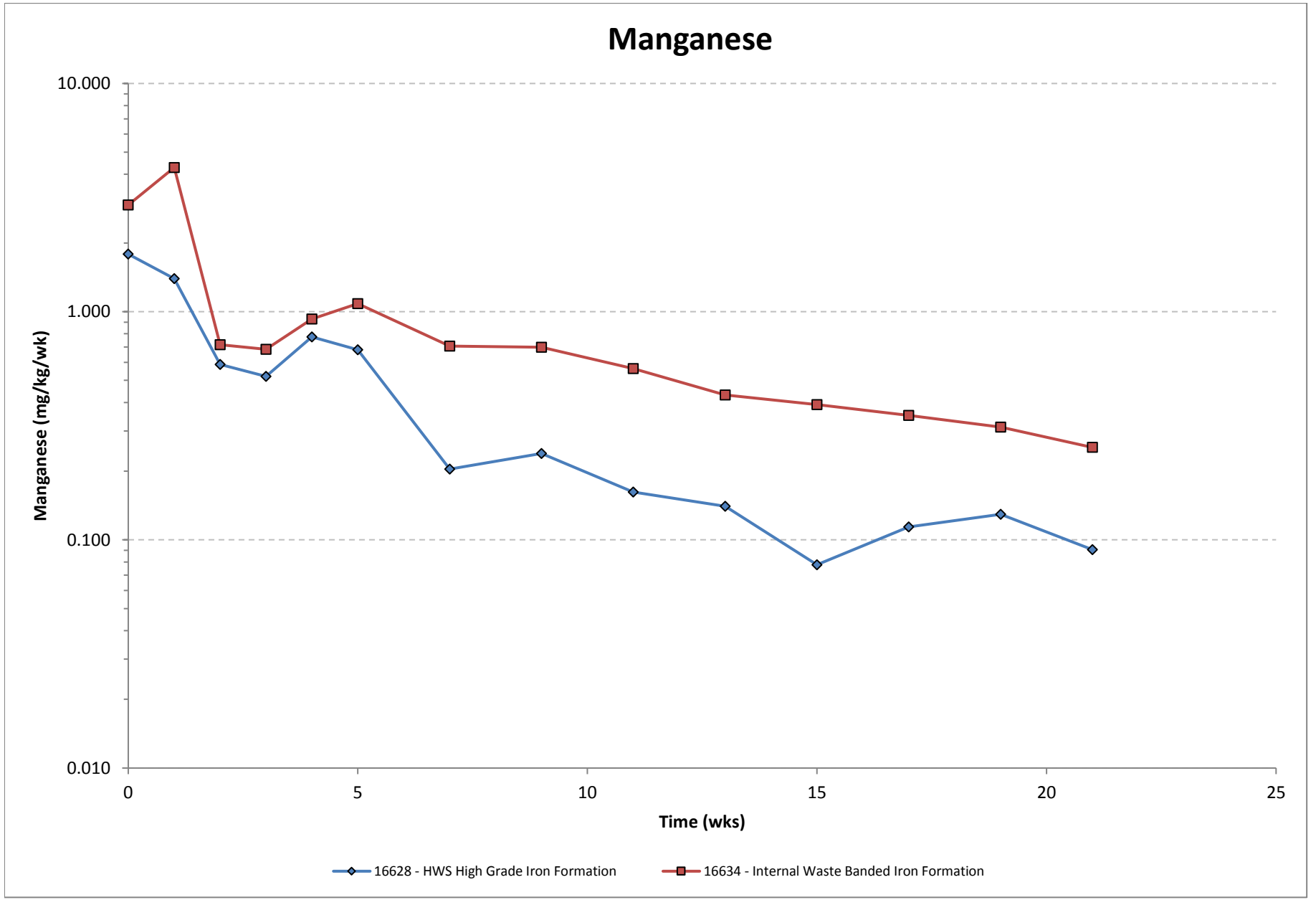

Copper
1.000
0.100
0.010
0.001
0.000
Copper (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

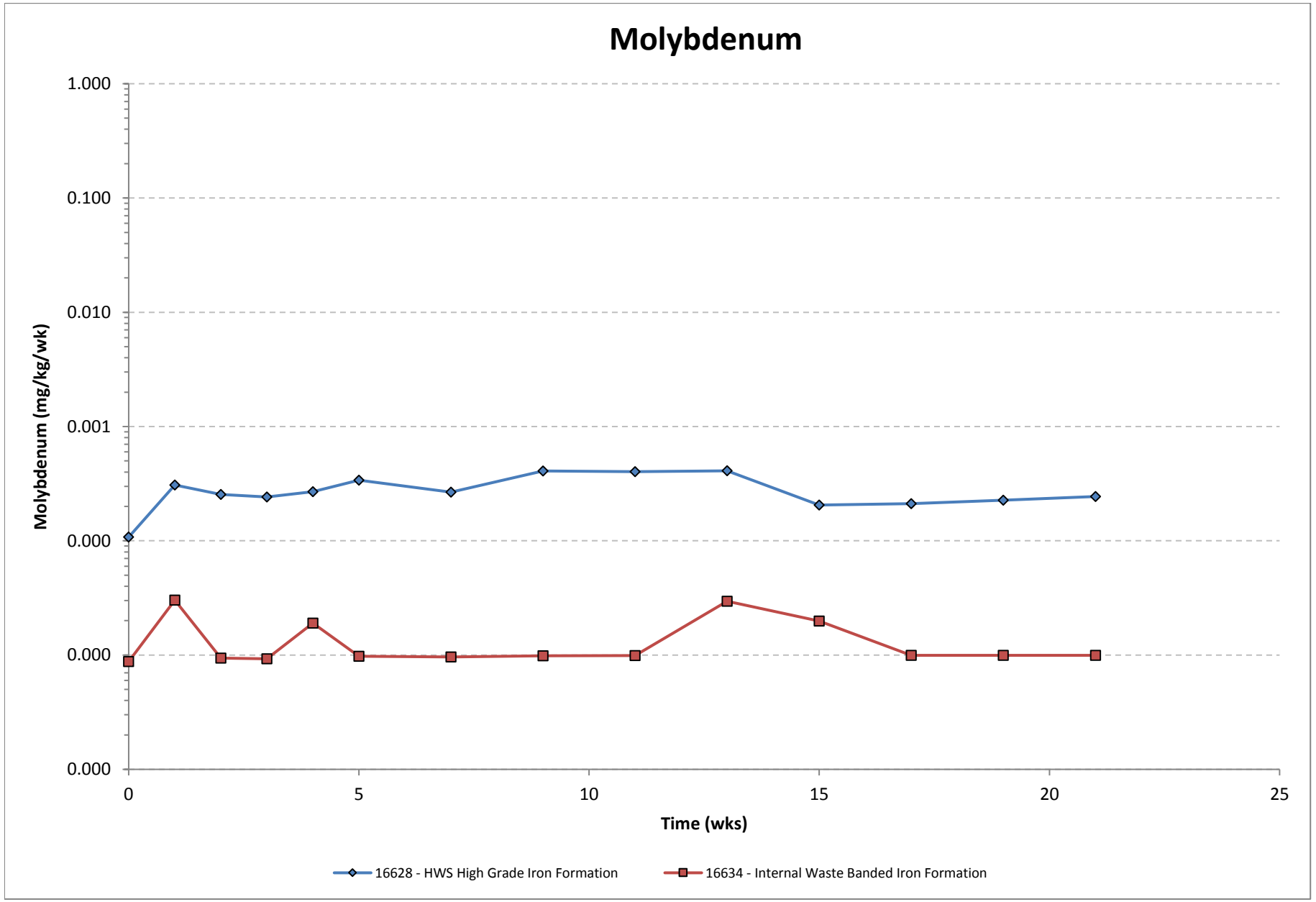

Iron
10.000
1.000
0.100
0.010
0.001
Iron (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

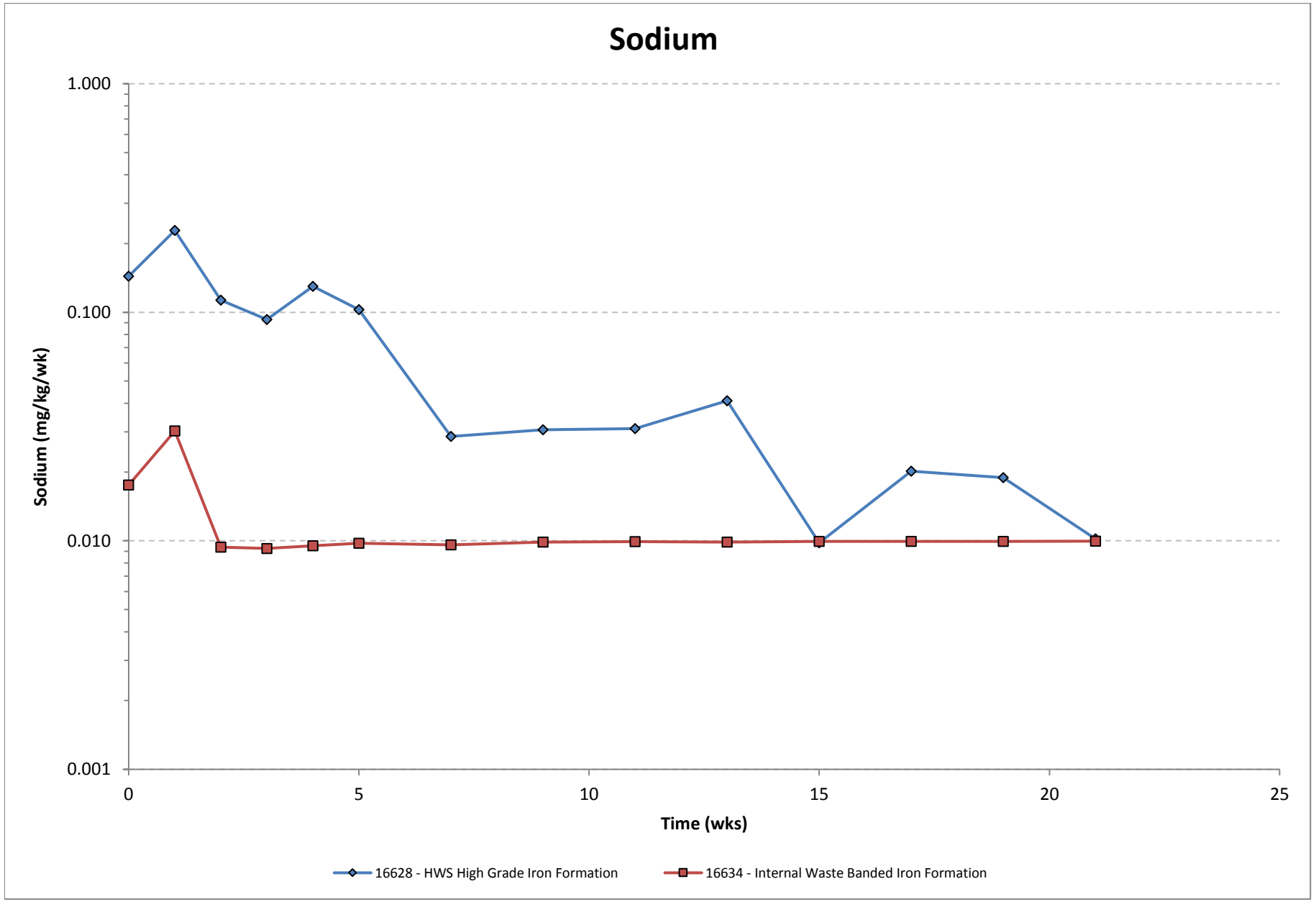

Potassium
1.000
0.100
0.010
Potassium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

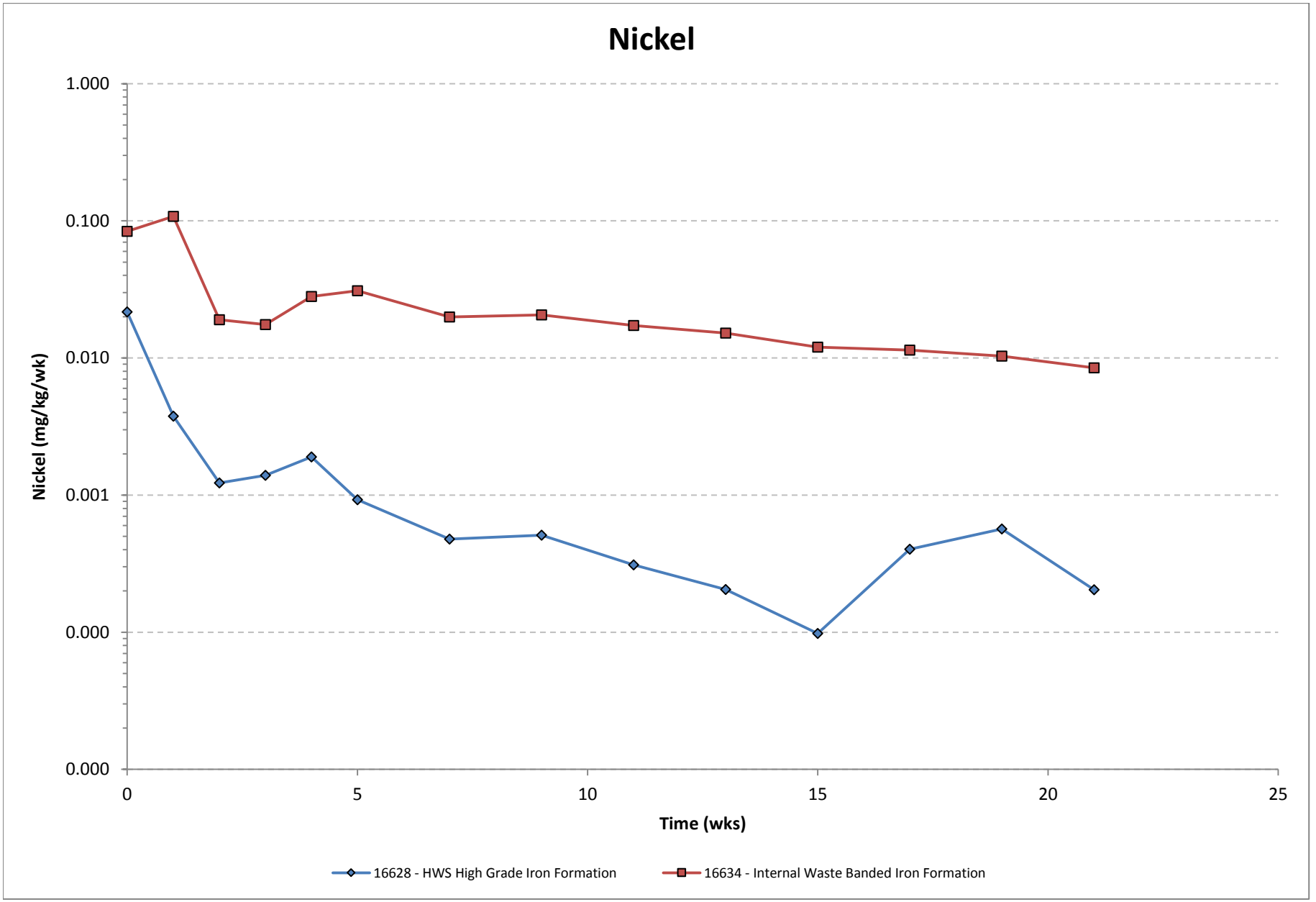

Lithium
1.000
0.100
0.010
0.001
0.000
Lithium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

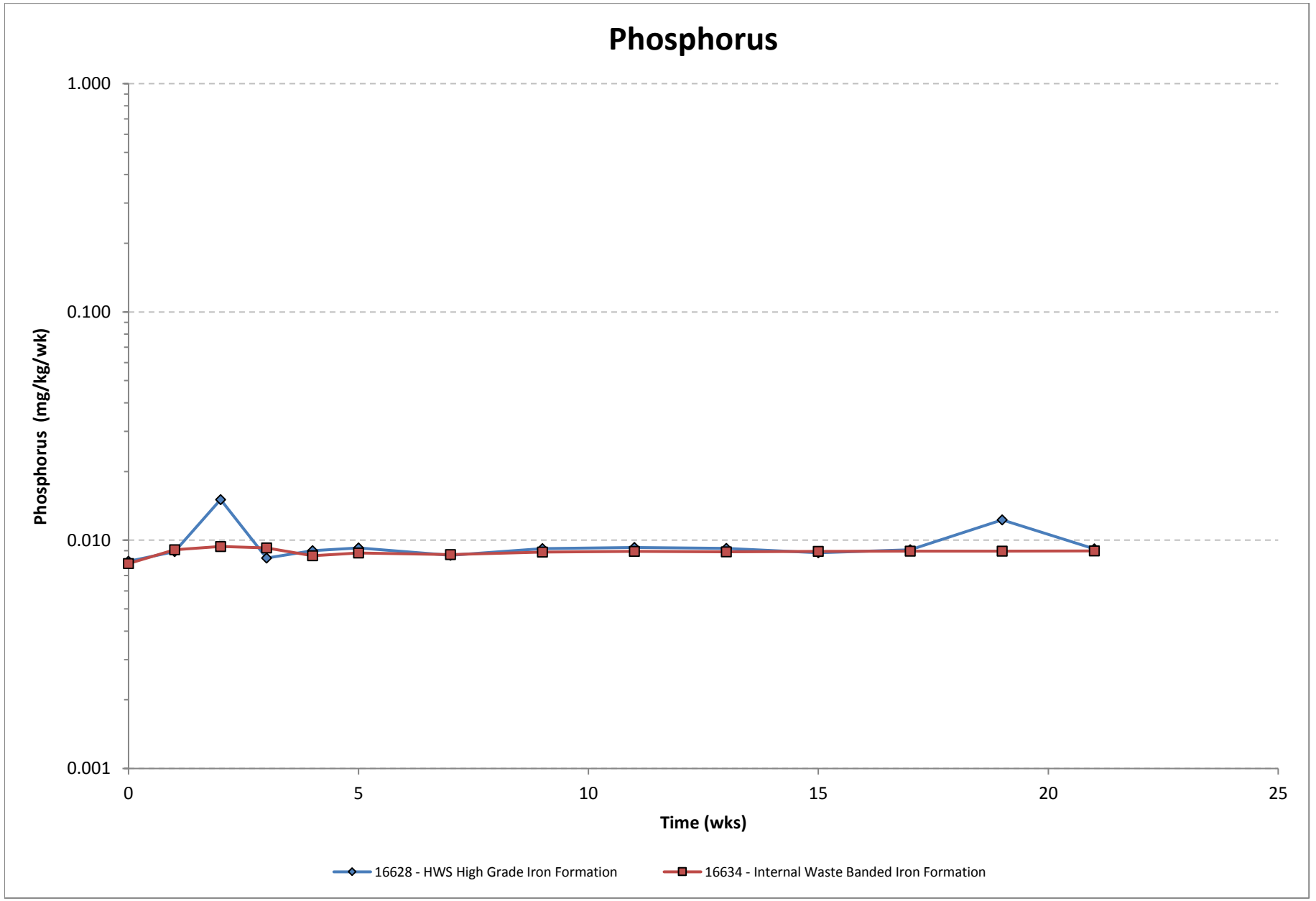

Magnesium
100.000
10.000
1.000
0.100
Magnesium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

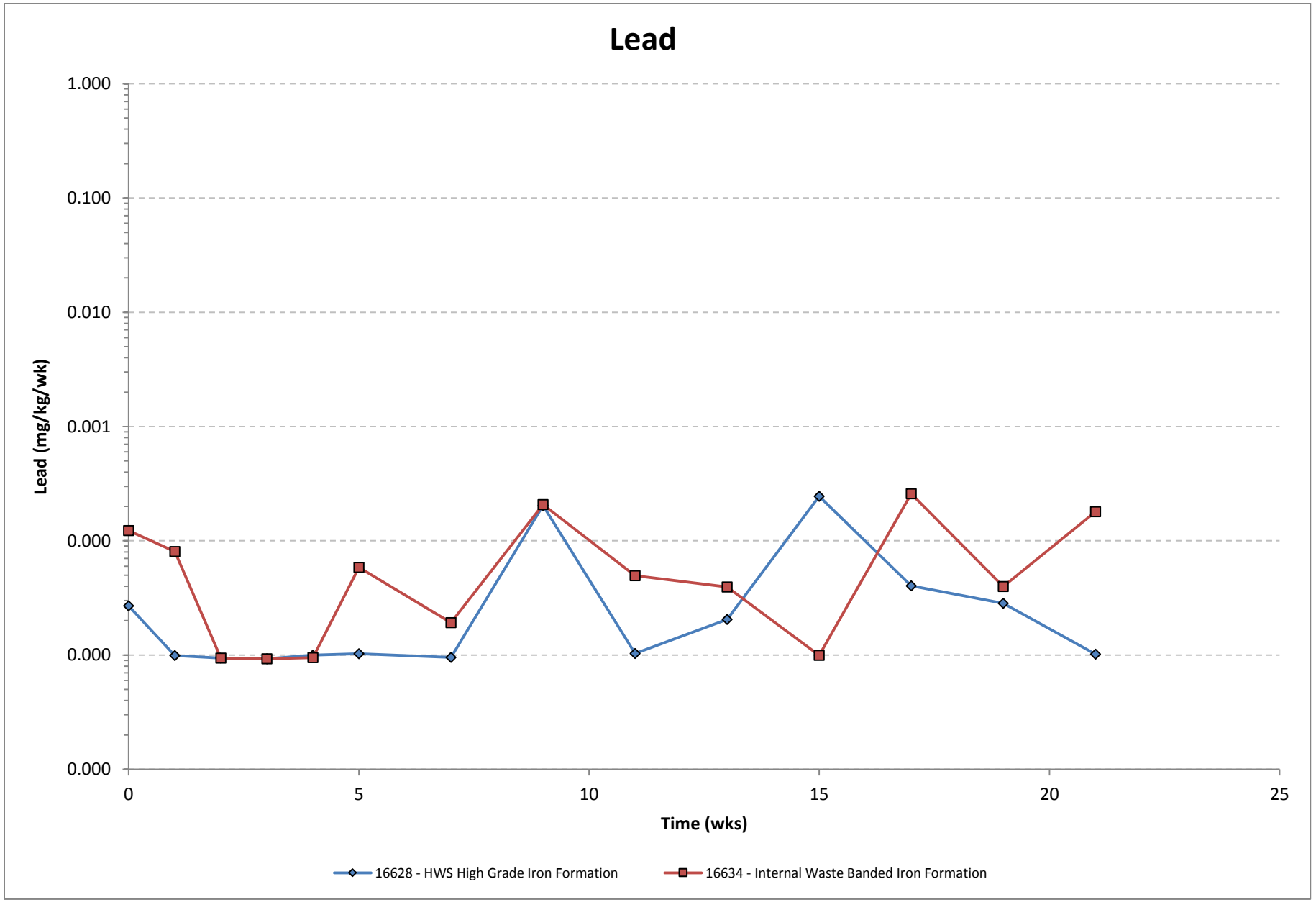

Manganese
10.000
1.000
0.100
0.010
Manganese (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

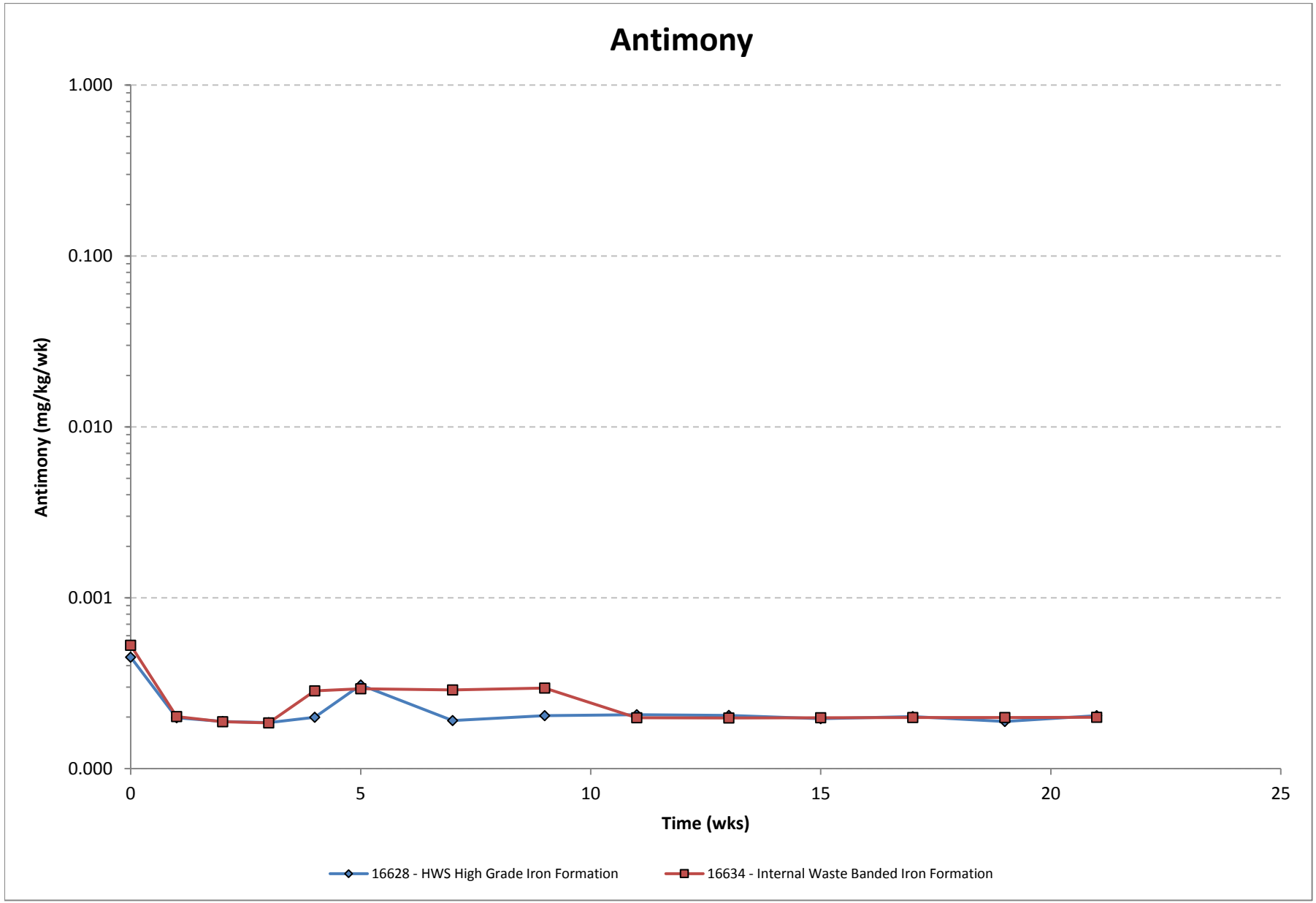

Molybdenum
1.000
0.100
0.010
0.001
0.000
0.000
Molybdenum (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

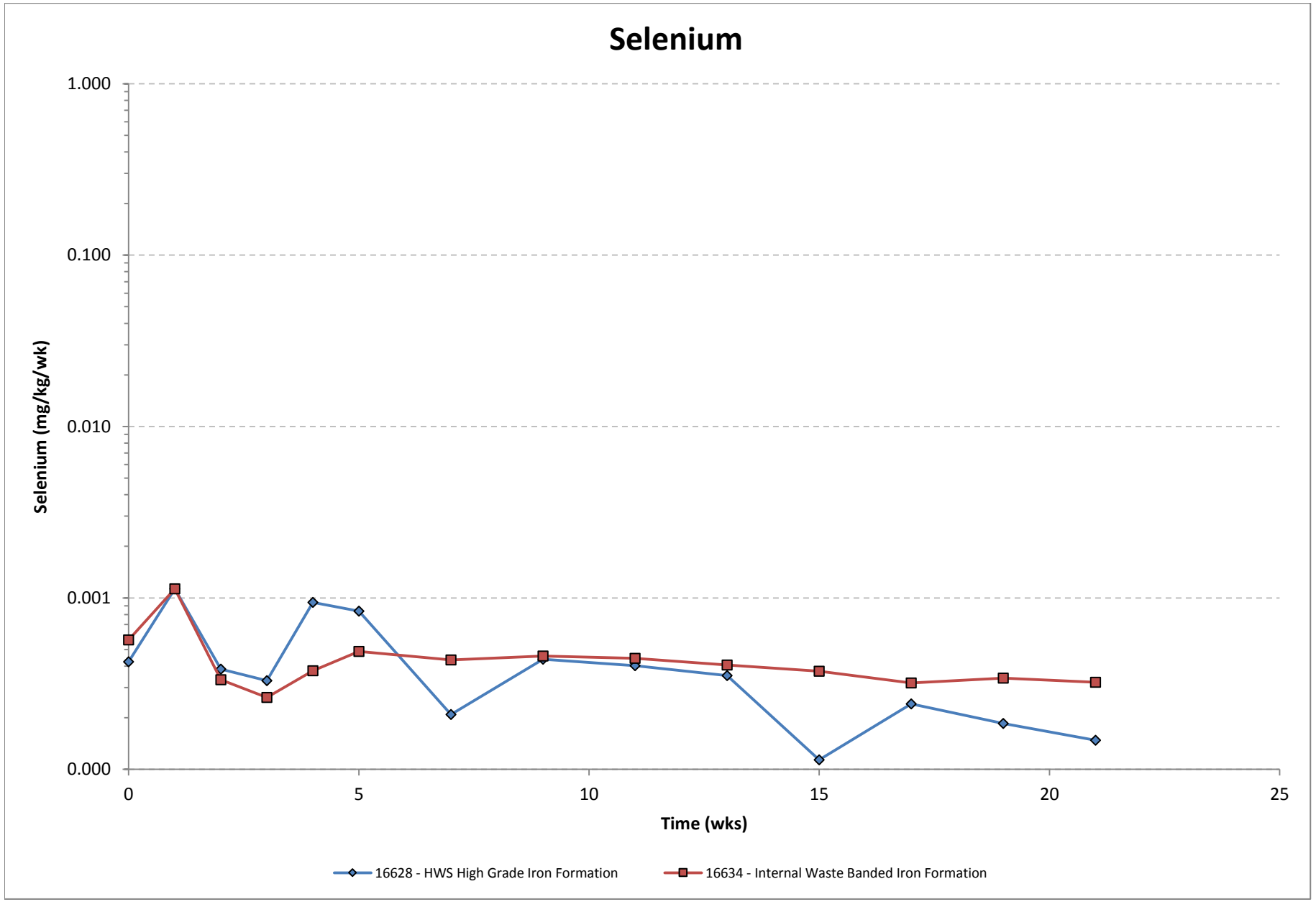

Sodium
1.000
0.100
0.010
0.001
Sodium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

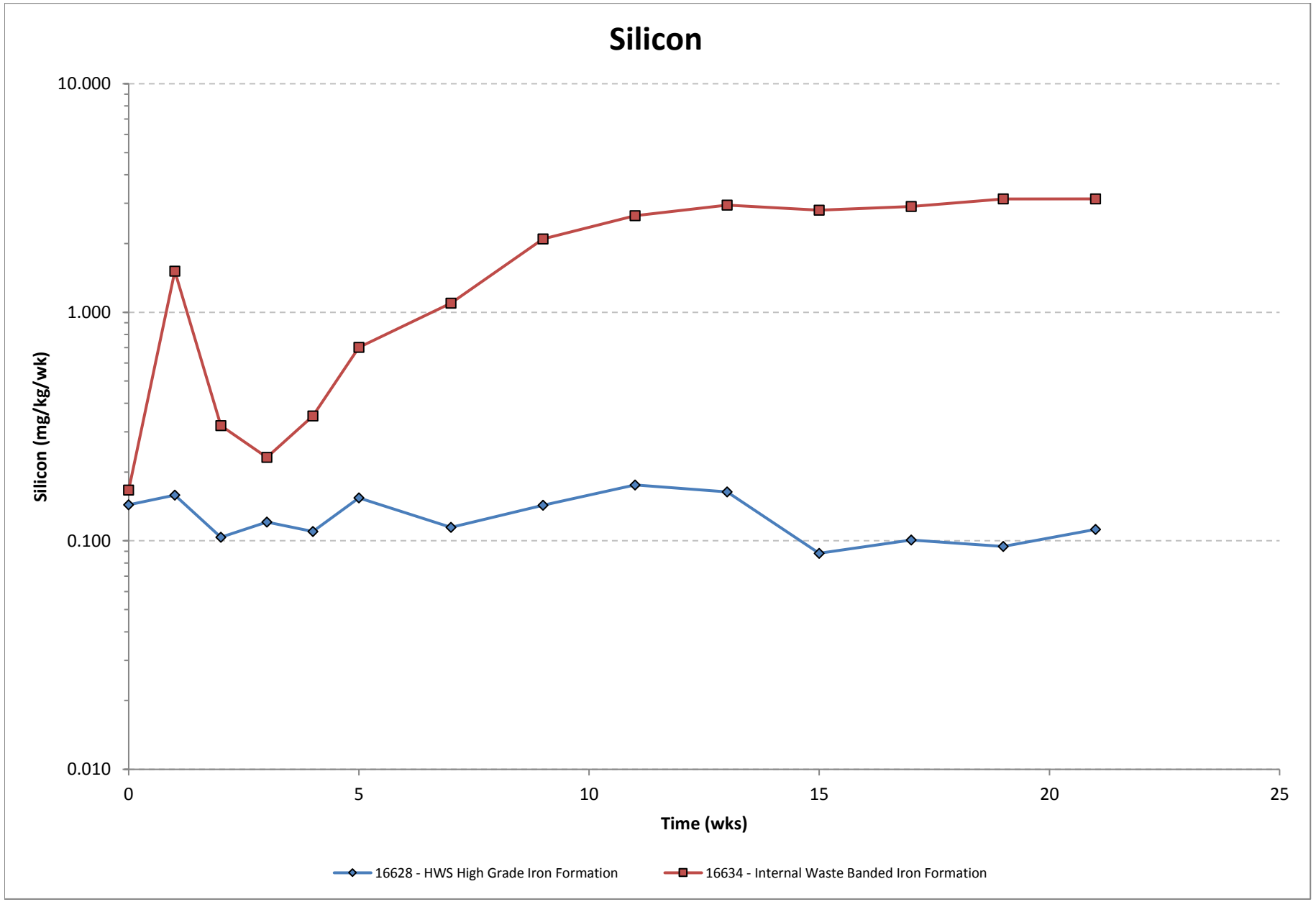

Nickel
1.000
0.100
0.010
0.001
0.000
0.000
Nickel (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

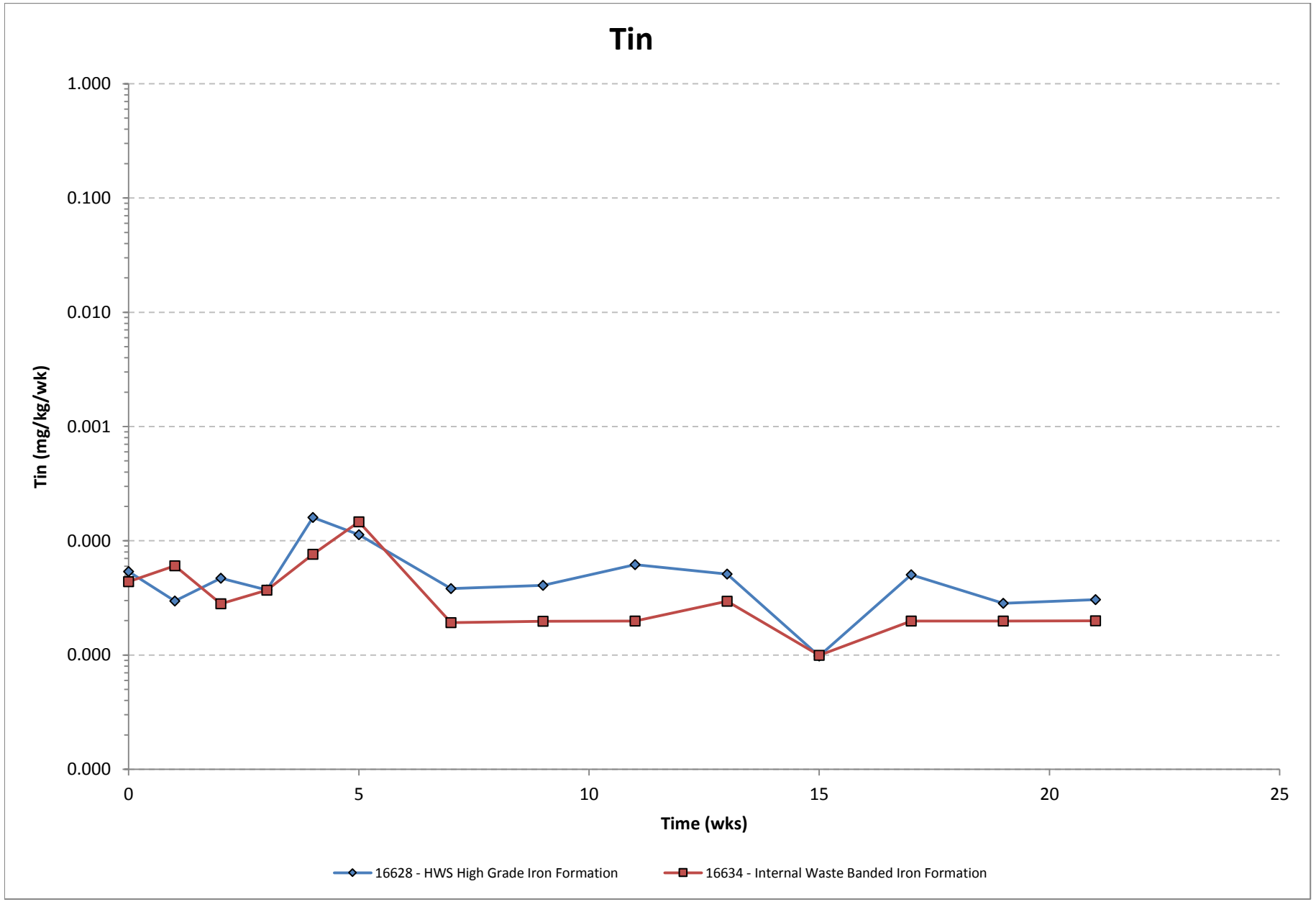

Phosphorus
1.000
0.100
0.010
0.001
Phosphorus (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

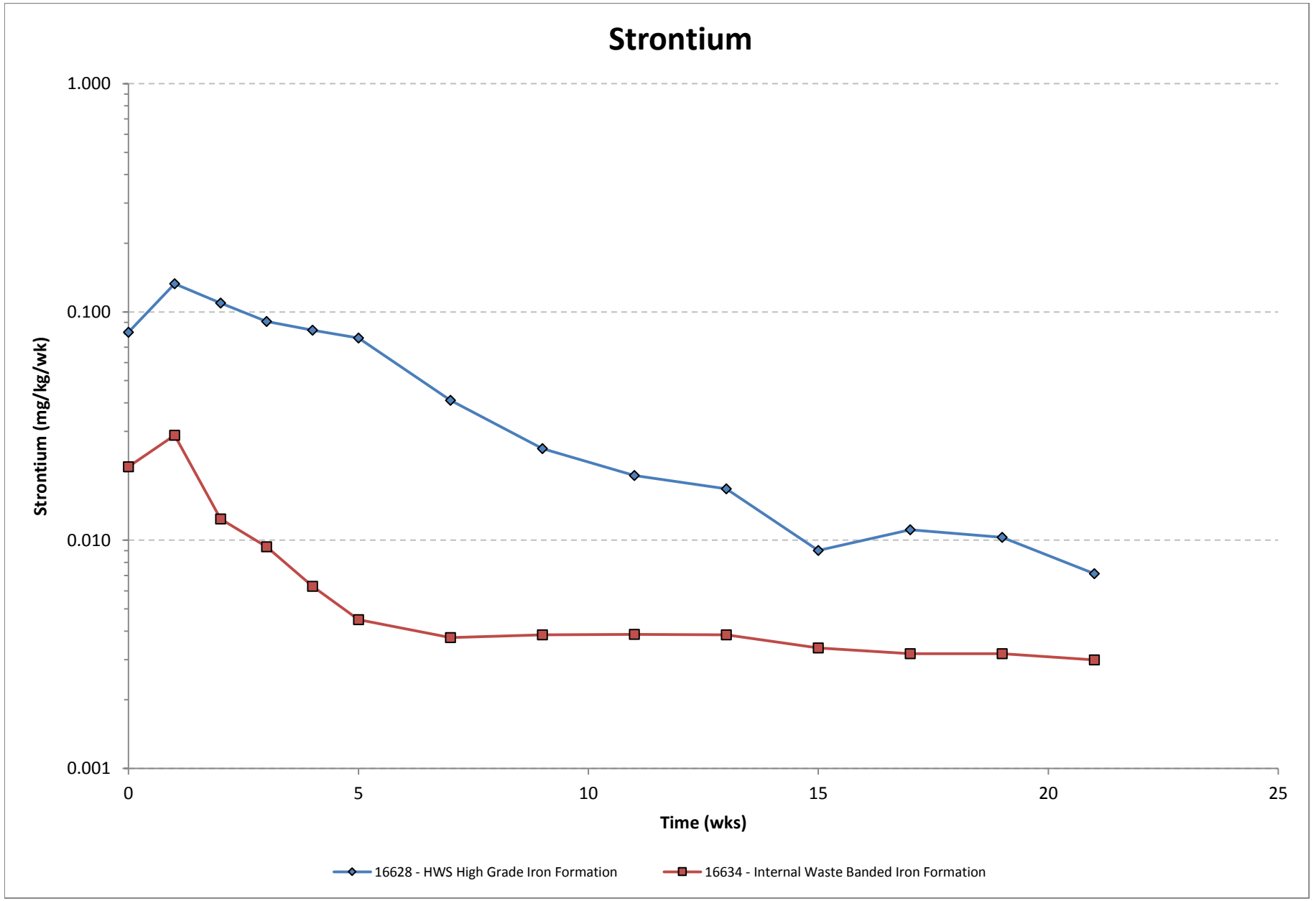

Lead
1.000
0.100
0.010
0.001
0.000
0.000
Lead (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

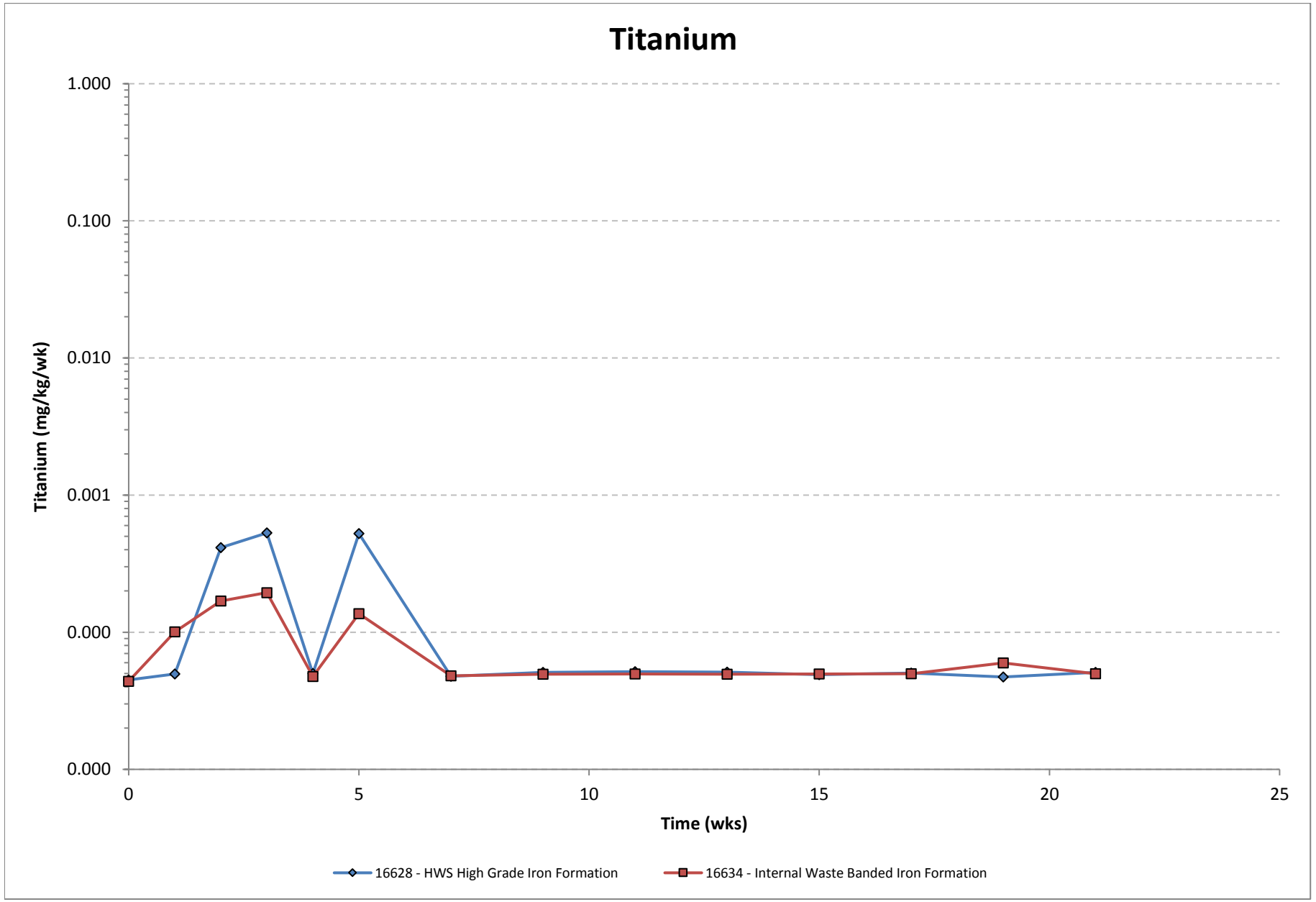

Antimony
1.000
0.100
0.010
0.001
0.000
Antimony (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

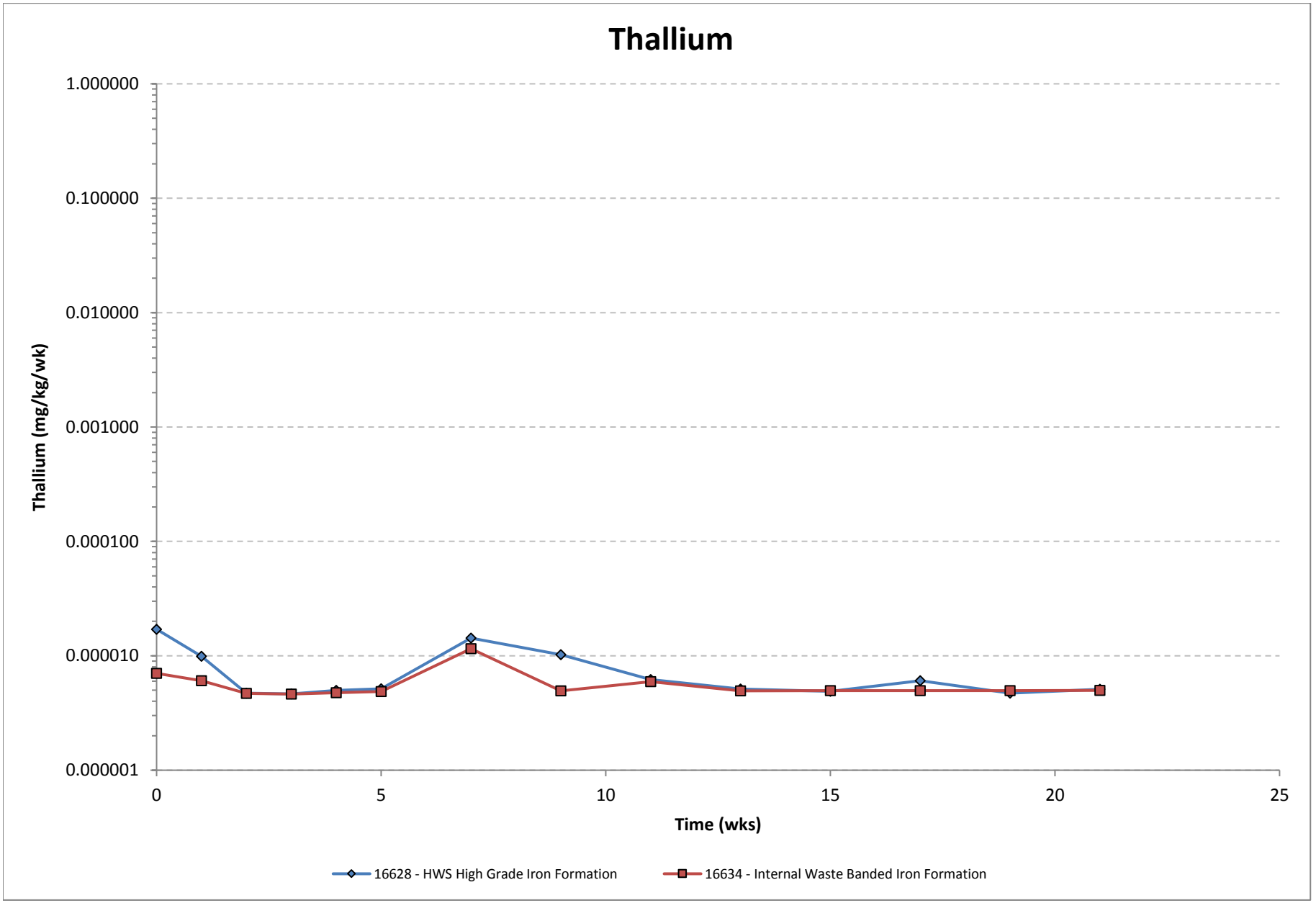

Selenium
1.000
0.100
0.010
0.001
0.000
Selenium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

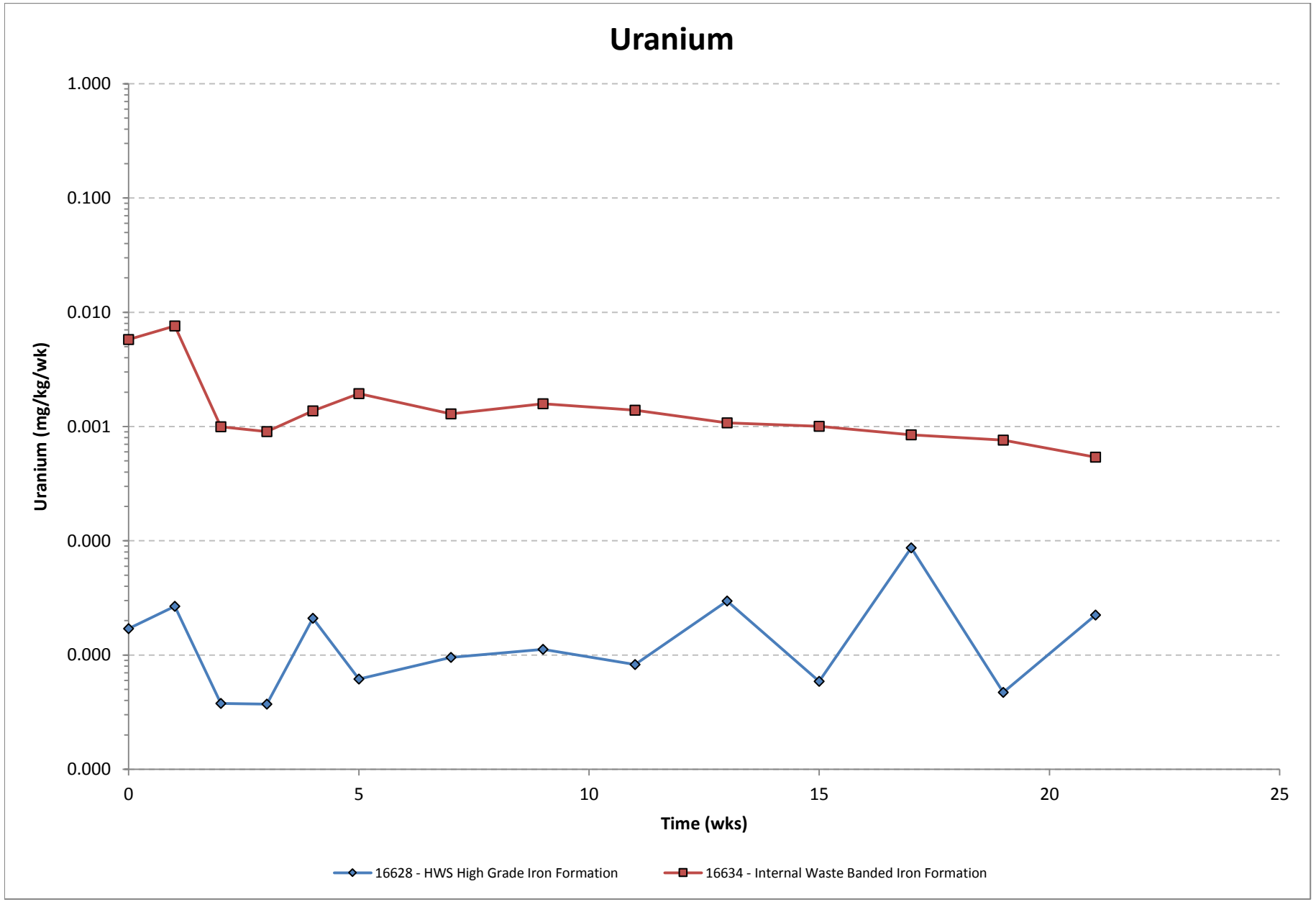

Silicon
10.000
1.000
0.100
0.010
Silicon (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

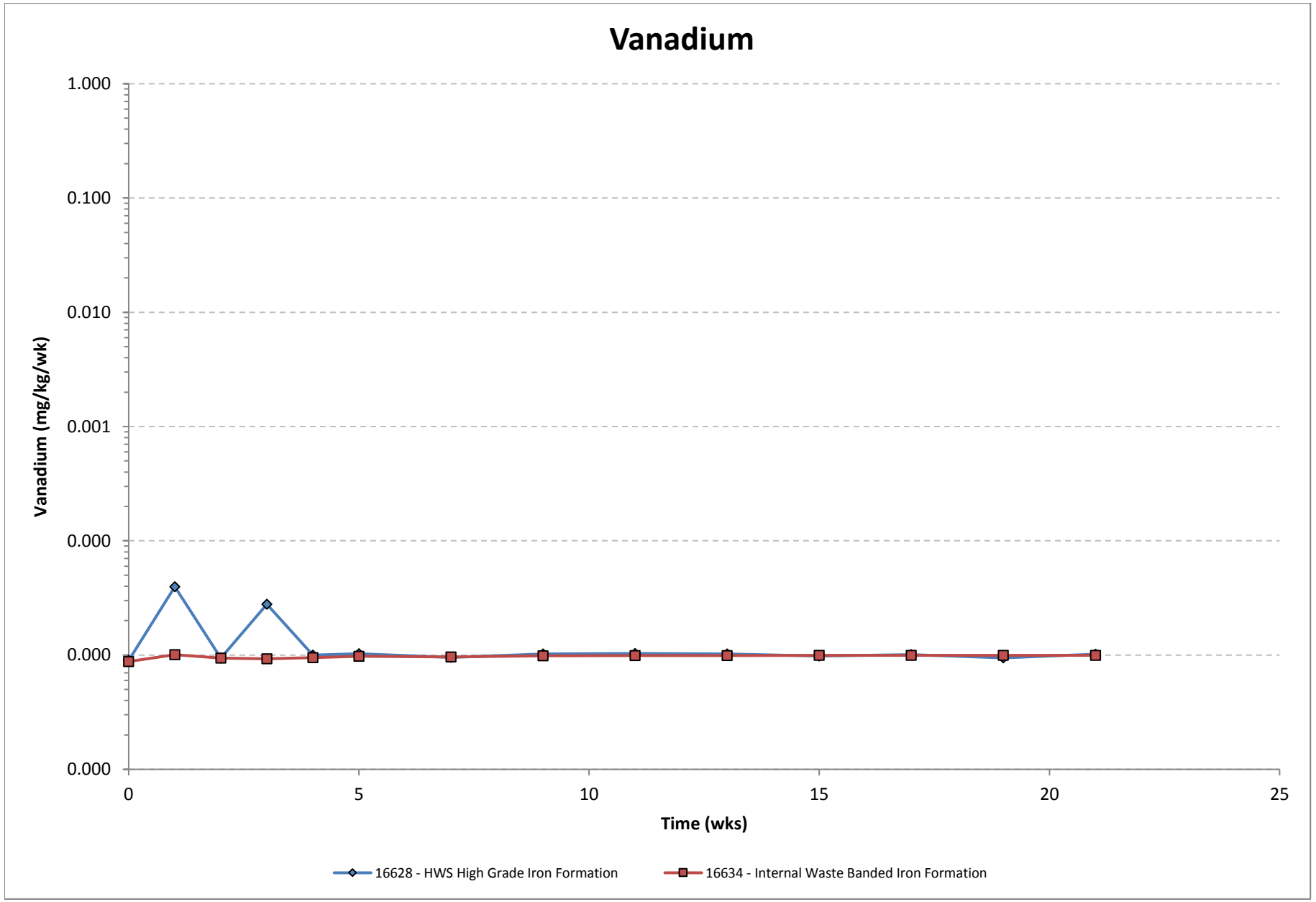

Tin
1.000
0.100
0.010
0.001
0.000
0.000
Tin (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

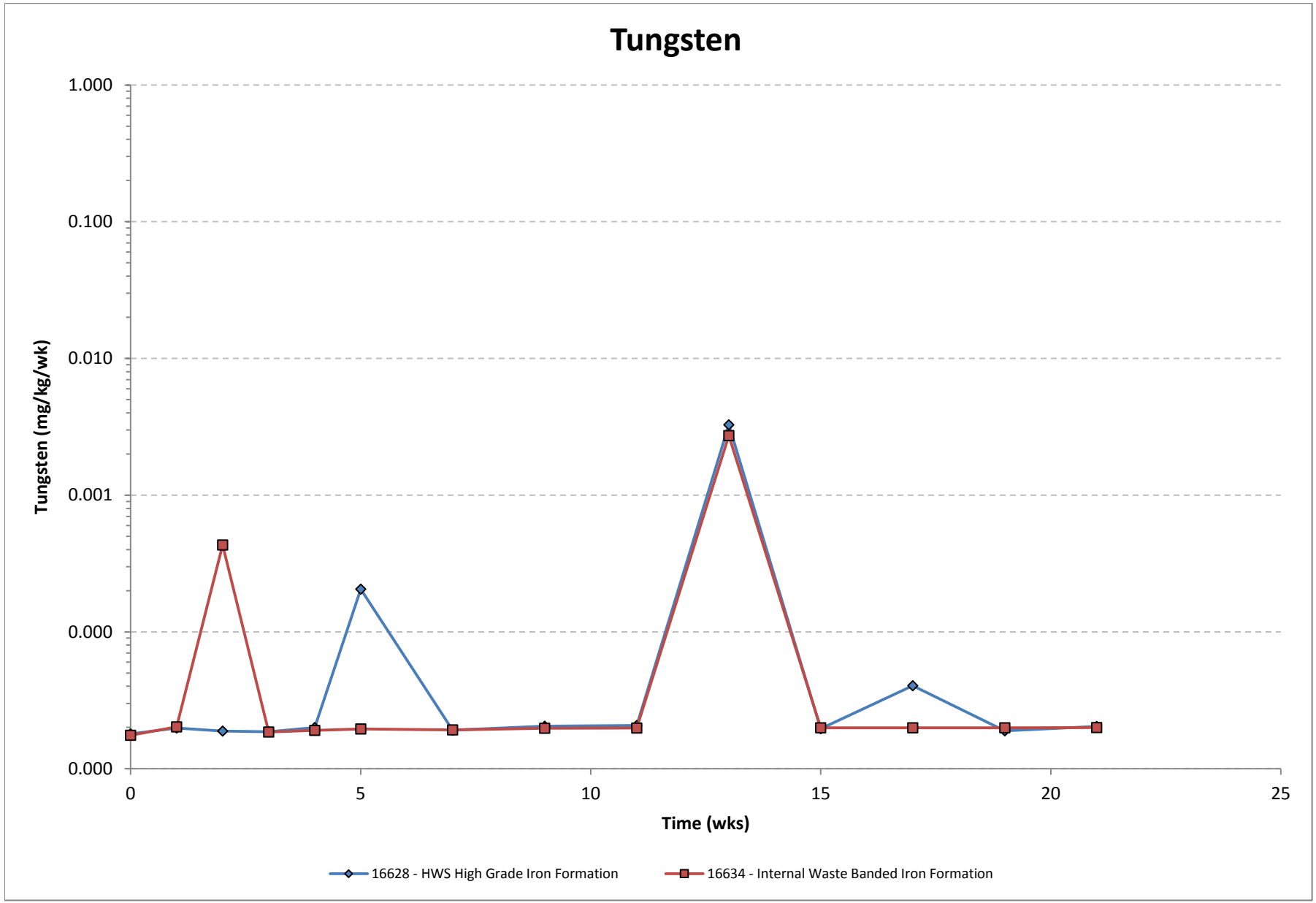

Strontium
1.000
0.100
0.010
0.001
Strontium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

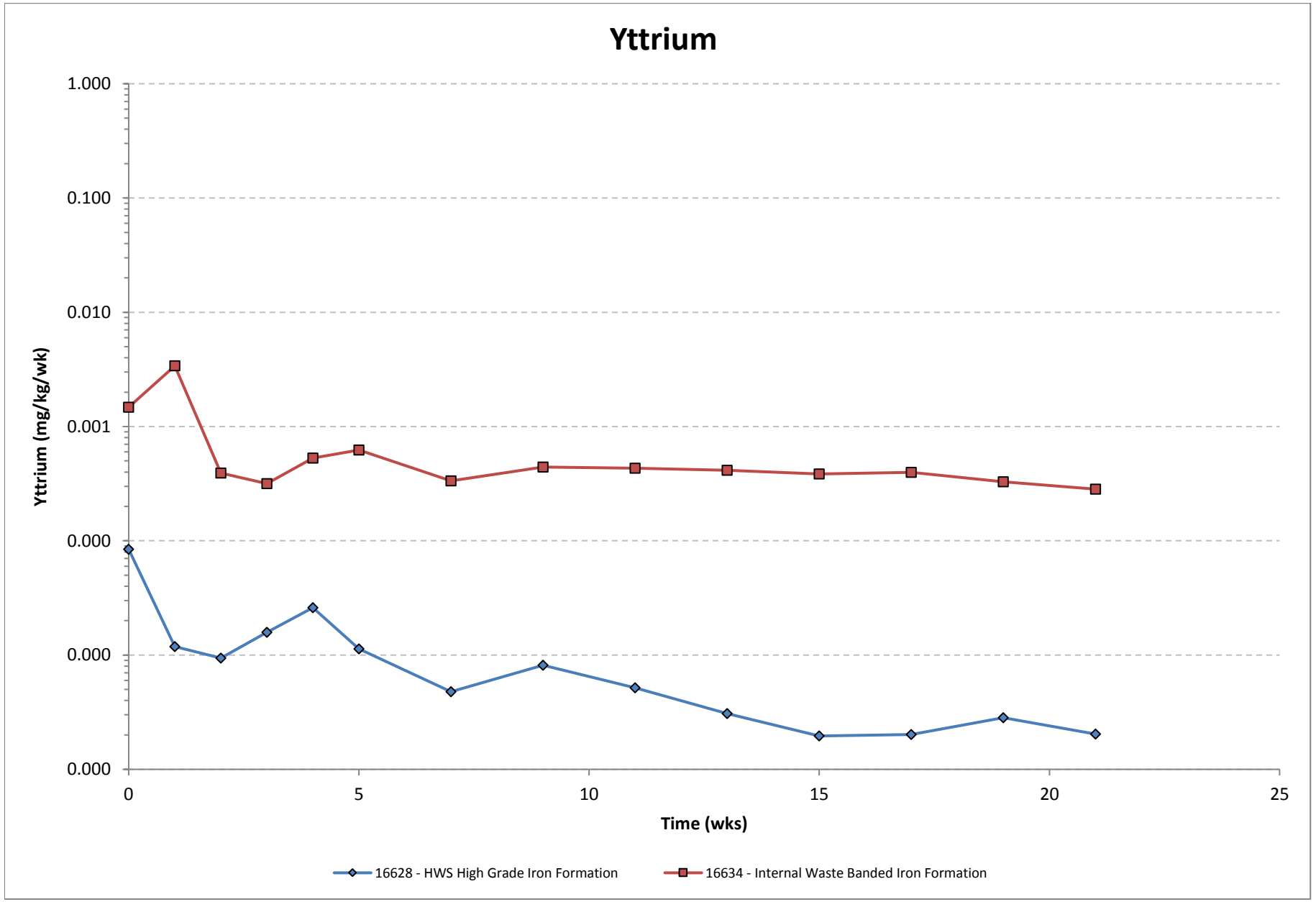

Titanium
1.000
0.100
0.010
0.001
0.000
0.000
Titanium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

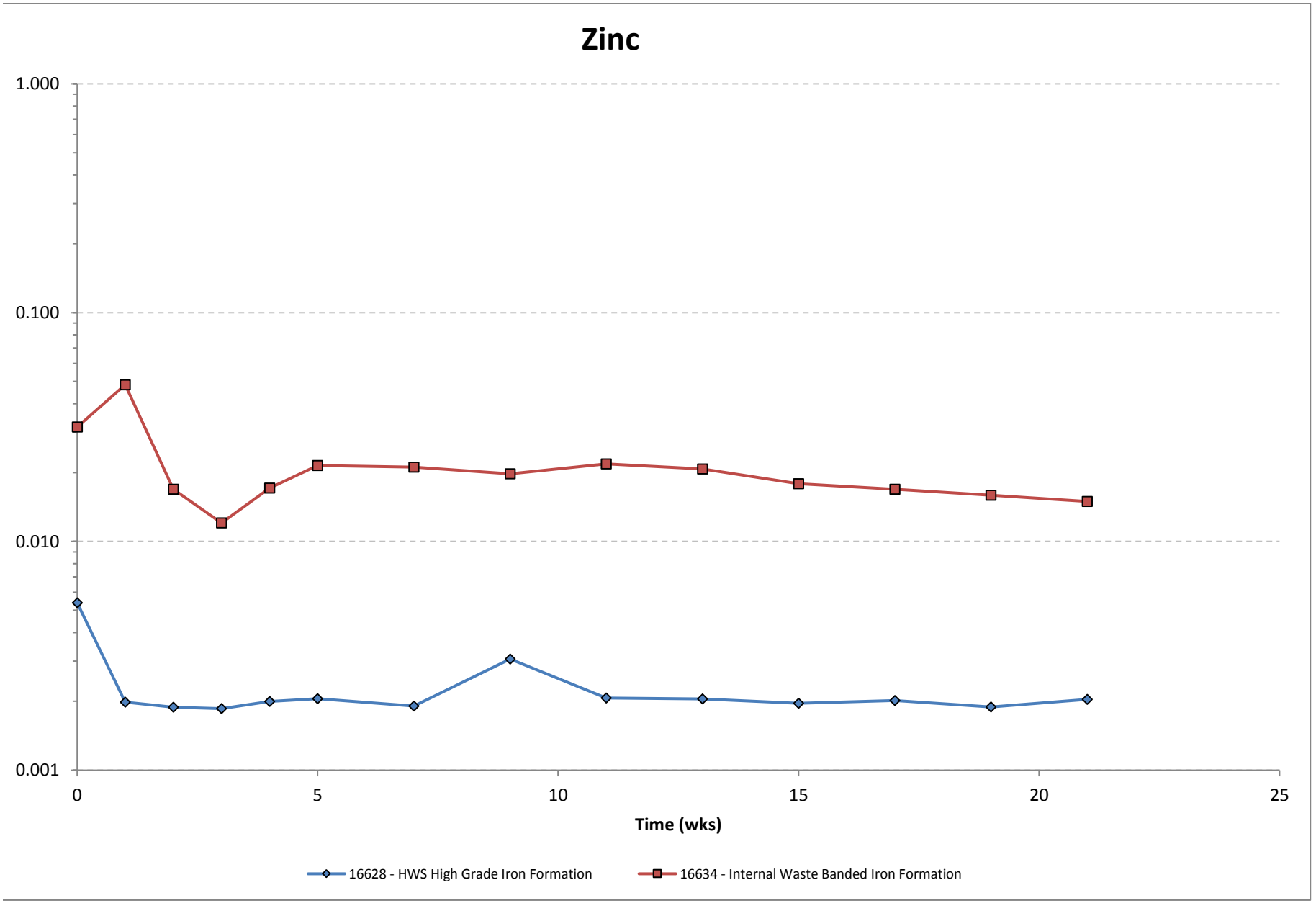

Thallium
1.000000
0.100000
0.010000
0.001000
0.000100
0.000010
0.000001
Thallium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

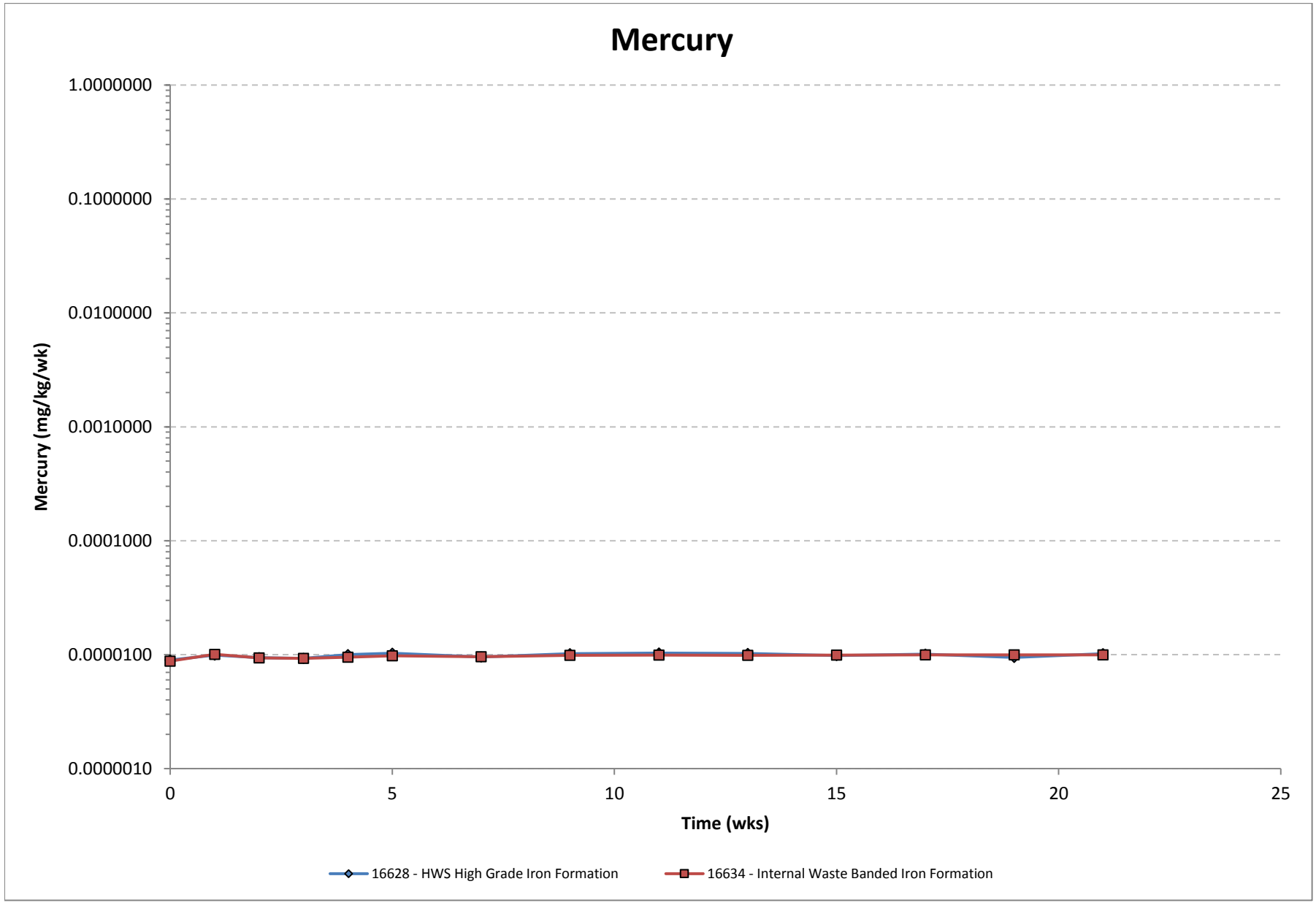

Uranium
1.000
0.100
0.010
0.001
0.000
0.000
0.000
Uranium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation


Vanadium
1.000
0.100
0.010
0.001
0.000
0.000
Vanadium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation


Tungsten
1.000
0.100
0.010
0.001
0.000
0.000
Tungsten (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation


Yttrium
1.000
0.100
0.010
0.001
0.000
0.000
0.000
Yttrium (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation


Zinc
1.000
0.100
0.010
0.001
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation


Mercury
1.0000000
0.1000000
0.0100000
0.0010000
0.0001000
0.0000100
0.0000010
Mercury (mg/kg/wk)
0
5
10
15
20
25
Time (wks)
16628 - HWS High Grade Iron Formation
16634 - Internal Waste Banded Iron Formation

# APPENDIX E.6

# QUARRY GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS

Baffinland

**TABLE E.6.1**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY Q1 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014 - SUMMARY STATISTICS**

| | Analysis | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | Units | | | | | | | | | | | | | | | | |
| | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/1000 t | t CaCO3/1000 t | t CaCO3/1000 t | ratio | % | % | % | % | % |
| COUNT | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 15 | 4 | 4 | 51 | 51 |
| MIN | 8.74 | 1 | 1.93 | 20 | 0.1 | 0.1 | 6.26 | 0.9 | 2.2 | 0.31 | 1.89 | 7.1 | 0.006 | 0.01 | 0.01 | 0.034 | 0.03 |
| MAX | 9.96 | 4 | 2.05 | 51.1 | 0.1 | 0.1 | 19.97 | 1.84 | 76 | 0.44 | 76 | 246 | 0.037 | 0.03 | 0.01 | 1.14 | 4.53 |
| MEAN | 9.4978987 | 1.6459865 | 2.0010046 | 22.236764 | 0.1 | 0.1 | 15.36087 | 1.2137048 | 17.18596491 | 0.312522787 | 16.86946388 | 55.019602 | 0.003835 | 0.0015731 | 0.000786 | 0.2528131 | 0.7591797 |

Baffinland

**TABLE E.6.2**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY Q1 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014**

| Quarry ID | Blast ID | Assay Sample ID | Hole Number | Analysis | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | | | | Units | | | | | | | | | | | | | | | | |
| | | | | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/1000 t | t CaCO3/1000 t | t CaCO3/1000 t | ratio | % | % | % | % | % |
| Quarry 01 | Q01 1061 001 | Q161001-014 | 138 | 9.59 | 1 | 2.01 | 20 | 0.1 | 0.1 | 17.73 | 0.9 | 5.7 | 0.31 | 5.39 | 18.4 | 0.007 | < 0.01 | < 0.01 | 0.039 | 0.04 |
| Quarry 01 | Q01 1061 001 | Q161001-015 | 161 | 9.51 | 1 | 2 | 20 | 0.1 | 0.1 | 15.65 | 1.08 | 11 | 0.31 | 10.6 | 35.2 | 0.006 | < 0.01 | < 0.01 | 0.127 | 0.385 |
| Quarry 01 | Q01 1061 001 | Q161001-016 | 199 | 9.74 | 1 | 1.99 | 20 | 0.1 | 0.1 | 17.07 | 1.06 | 7.4 | 0.31 | 7.09 | 23.9 | 0.006 | < 0.01 | < 0.01 | 0.063 | 0.235 |
| Quarry 01 | Q01 1061 001 | Q01610001-259 | 259 | 9.49 | 1 | 2 | 20 | 0.1 | 0.1 | 15.78 | 1.09 | 11 | 0.31 | 10.3 | 34.2 | 0.007 | < 0.01 | < 0.01 | 0.163 | 0.375 |
| Quarry 01 | Q01 1061 001 | Q01610001-200 | 200 | 9.42 | 1 | 2.03 | 20 | 0.1 | 0.1 | 16.44 | 1.06 | 8.8 | 0.31 | 8.49 | 28.4 | 0.008 | < 0.01 | < 0.01 | 0.122 | 0.29 |
| Quarry 01 | Q01 1061 001 | Q01610001-284 | 284 | 9.83 | 1 | 2.04 | 20 | 0.1 | 0.1 | 17.93 | 1 | 5.1 | 0.31 | 4.79 | 16.5 | 0.006 | < 0.01 | < 0.01 | 0.054 | 0.13 |
| Quarry 01 | Q01 1061 001 | Q01610001-292 | 292 | 9.62 | 1 | 1.99 | 20 | 0.1 | 0.1 | 18.01 | 0.97 | 5 | 0.31 | 4.69 | 16.1 | 0.006 | < 0.01 | < 0.01 | 0.068 | 0.11 |
| Quarry 01 | Q01 1061 001 | Q01-021 | 423 | 9.68 | 1 | 2.01 | 20 | 0.1 | 0.1 | 17.73 | 0.95 | 5.6 | 0.31 | 5.29 | 18.1 | < 0.005 | <0.01 | < 0.01 | 0.06 | 0.14 |
| Quarry 01 | Q01 1061 001 | Q01-022 | 423 | 9.86 | 1 | 2 | 20 | 0.1 | 0.1 | 17.02 | 1.11 | 7.5 | 0.31 | 7.19 | 24.2 | < 0.005 | < 0.01 | < 0.01 | 0.068 | 0.13 |
| Quarry 01 | Q01 1061 001 | Q01-023 | 384 | 9.32 | 1 | 1.97 | 20 | 0.1 | 0.1 | 16 | 1.12 | 10 | 0.31 | 9.89 | 32.9 | < 0.005 | < 0.01 | < 0.01 | 0.214 | 0.4 |
| Quarry 01 | Q01 1061 001 | Q01-024 | 358 | 9.51 | 1 | 2.05 | 20 | 0.1 | 0.1 | 17.94 | 1.05 | 5 | 0.31 | 4.69 | 16.1 | < 0.005 | < 0.01 | < 0.01 | 0.058 | 0.095 |
| Quarry 01 | Q01 1061 001 | Q01-025 | 319 | 9.59 | 1 | 2.03 | 20 | 0.1 | 0.1 | 18.42 | 1.02 | 3.9 | 0.31 | 3.59 | 12.6 | < 0.005 | < 0.01 | < 0.01 | 0.066 | 0.05 |
| Quarry 01 | Q01 1061 001 | Q01-026 | 484 | 9.9 | 1 | 2 | 20 | 0.1 | 0.1 | 17.81 | 1.04 | 5.5 | 0.31 | 5.19 | 17.7 | < 0.005 | < 0.01 | < 0.01 | 0.05 | 0.115 |
| Quarry 01 | Q01 1061 001 | Q01-027 | 456 | 9.7 | 1 | 2.02 | 20 | 0.1 | 0.1 | 17.61 | 0.99 | 5.9 | 0.31 | 5.59 | 19 | < 0.005 | < 0.01 | < 0.01 | 0.088 | 0.115 |
| Quarry 01 | Q01 1061 001 | Q01-028 | 417 | 9.96 | 1 | 2.01 | 20 | 0.1 | 0.1 | 17.67 | 1.13 | 5.8 | 0.31 | 5.49 | 18.7 | < 0.005 | < 0.01 | < 0.01 | 0.034 | 0.055 |
| Quarry 01 | Q01 1061 001 | Q01-029 | 390 | 9.79 | 1 | 2.03 | 20 | 0.1 | 0.1 | 17.66 | 1.16 | 5.8 | 0.31 | 5.49 | 18.7 | < 0.005 | < 0.01 | < 0.01 | 0.073 | 0.09 |
| Quarry 01 | Q01 1061 001 | Q01-030 | 351 | 9.86 | 1 | 2.03 | 20 | 0.1 | 0.1 | 13.99 | 1.3 | 15 | 0.31 | 14.5 | 47.7 | < 0.005 | < 0.01 | < 0.01 | 0.175 | 0.545 |
| Quarry 01 | Q01 1061 001 | Q01-031 | 327 | 9.88 | 1 | 1.95 | 20 | 0.1 | 0.1 | 16.82 | 1.16 | 8.1 | 0.31 | 7.79 | 26.1 | < 0.005 | < 0.01 | < 0.01 | 0.073 | 0.145 |
| Quarry 01 | Q01 1061 001 | Q01-032 | 265 | 9.67 | 1 | 2.04 | 20 | 0.1 | 0.1 | 17.24 | 1.06 | 6.8 | 0.31 | 6.49 | 21.9 | < 0.005 | < 0.01 | < 0.01 | 0.066 | 0.16 |
| Quarry 01 | Q01 1061 002 | Q01-033 | 59 | 9.25 | 1 | 2.04 | 20 | 0.1 | 0.1 | 17.26 | 0.94 | 6.7 | 0.31 | 6.39 | 21.4 | 0.032 | 0.02 | 0.01 | 0.066 | 0.04 |
| Quarry 01 | Q01 1061 002 | Q01-034 | 112 | 9.72 | 1 | 2.02 | 20 | 0.1 | 0.1 | 17.86 | 0.9 | 5.3 | 0.31 | 4.99 | 17.1 | < 0.005 | < 0.01 | < 0.01 | 0.056 | 0.07 |
| Quarry 01 | Q01 1061 002 | Q01-035 | 190 | 9.24 | 2 | 1.97 | 20 | 0.1 | 0.1 | 14.84 | 1.25 | 13 | 0.31 | 12.8 | 42.3 | < 0.005 | < 0.01 | < 0.01 | 0.278 | 0.58 |
| Quarry 01 | Q01 1061 002 | Q01-036 | 178 | 9.6 | 1 | 2 | 20 | 0.1 | 0.1 | 17.28 | 0.93 | 6.8 | 0.31 | 6.49 | 21.9 | < 0.005 | < 0.01 | < 0.01 | 0.135 | 0.13 |
| Quarry 01 | Q01 1061 002 | Q01-037 | 226 | 9.13 | 2 | 1.99 | 28.5 | 0.1 | 0.1 | 11.42 | 1.6 | 43 | 0.31 | 42.6 | 138 | < 0.005 | < 0.01 | < 0.01 | 0.68 | 2.07 |
| Quarry 01 | Q01 1061 002 | Q01-038 | 252 | 9.33 | 2 | 1.97 | 20 | 0.1 | 0.1 | 13.4 | 1.05 | 17 | 0.31 | 16.5 | 53.8 | 0.037 | 0.03 | 0.01 | 0.198 | 0.555 |
| Quarry 01 | Q01 1061 002 | Q01-039 | 292 | 9.09 | 3 | 2.04 | 51.1 | 0.1 | 0.1 | 19.97 | 1.5 | 76 | 0.31 | 76 | 246 | 0.021 | 0.02 | < 0.01 | 1.1 | 4.24 |
| Quarry 01 | Q01 1061 002 | Q01-040 | 292 | 9.12 | 3 | 1.96 | 46.7 | 0.1 | 0.1 | 18.16 | 1.5 | 73 | 0.31 | 72.5 | 233 | 0.015 | < 0.01 | 0.01 | 1.05 | 3.93 |
| Quarry 01 | Q01 1061 002 | Q01-041 | 332 | 9.18 | 1 | 1.98 | 20 | 0.1 | 0.1 | 13.62 | 1.35 | 16 | 0.44 | 15.7 | 36.8 | 0.014 | 0.01 | < 0.01 | 0.422 | 0.684 |
| Quarry 01 | Q01 1061 002 | Q01-042 | 352 | 9.6 | 3 | 1.99 | 20 | 0.1 | 0.1 | 11.59 | 1.21 | 21 | 0.31 | 20.8 | 68.1 | < 0.005 | < 0.01 | < 0.01 | 0.274 | 0.919 |
| Quarry 01 | Q01 1061 002 | Q01-043 | 425 | 9.33 | 3 | 1.99 | 24.8 | 0.1 | 0.1 | 8.84 | 1.64 | 40 | 0.31 | 39.8 | 129 | < 0.005 | < 0.01 | < 0.01 | 0.546 | 2.03 |
| Quarry 01 | Q01 1061 002 | Q01-044 | 461 | 9.41 | 1 | 2.02 | 20 | 0.1 | 0.1 | 14.54 | 1.33 | 14 | 0.31 | 13.2 | 43.5 | < 0.005 | < 0.01 | < 0.01 | 0.243 | 0.644 |
| Quarry 01 | Q01 1061 002 | Q01-045 | 516 | 9.42 | 3 | 1.97 | 20 | 0.1 | 0.1 | 6.26 | 1.62 | 35 | 0.31 | 34.6 | 113 | 0.007 | < 0.01 | < 0.01 | 0.447 | 1.91 |
| Quarry 01 | Q01 1061 002 | Q01-046 | 616 | 9.17 | 3 | 2.02 | 20 | 0.1 | 0.1 | 9.4 | 1.52 | 26 | 0.31 | 25.9 | 84.5 | < 0.005 | < 0.01 | < 0.01 | 0.422 | 1.1 |
| Quarry 01 | Q01 1061 002 | Q01-047 | 671 | 9.47 | 1 | 1.99 | 20 | 0.1 | 0.1 | 15.1 | 0.99 | 12 | 0.31 | 12 | 39.7 | < 0.005 | < 0.01 | < 0.01 | 0.198 | 0.48 |
| Quarry 01 | Q01 1054 002 | Q01-048 | 88 | 9.53 | 1 | 2.03 | 20 | 0.1 | 0.1 | 17.66 | 1.21 | 5.8 | 0.31 | 5.49 | 18.7 | < 0.005 | < 0.01 | < 0.01 | 0.121 | 0.17 |
| Quarry 01 | Q01 1054 002 | Q01-049 | 127 | 9.73 | 1 | 1.98 | 20 | 0.1 | 0.1 | 19.11 | 1.1 | 2.2 | 0.31 | 1.89 | 7.1 | < 0.005 | < 0.01 | < 0.01 | 0.057 | 0.03 |
| Quarry 01 | Q01 1054 002 | Q01-050 | 260 | 9.74 | 1 | 1.98 | 20 | 0.1 | 0.1 | 18.45 | 1.16 | 3.9 | 0.31 | 3.59 | 12.6 | < 0.005 | < 0.01 | < 0.01 | 0.055 | 0.095 |
| Quarry 01 | Q01 1054 002 | Q01-051 | 253 | 9.7 | 1 | 1.98 | 20 | 0.1 | 0.1 | 18.1 | 1.16 | 4.8 | 0.31 | 4.49 | 15.5 | < 0.005 | < 0.01 | < 0.01 | 0.061 | 0.105 |
| Quarry 01 | Q01 1075 001 | Q01-052 | 80 | 8.74 | 3 | 1.99 | 32.1 | 0.1 | 0.1 | 9.27 | 1.76 | 57 | 0.31 | 57.1 | 185 | < 0.005 | < 0.01 | < 0.01 | 0.983 | 3.03 |
| Quarry 01 | Q01 1075 001 | Q01-053 | 149 | 9.48 | 3 | 2.05 | 20 | 0.1 | 0.1 | 6.92 | 1.72 | 32 | 0.31 | 31.6 | 103 | < 0.005 | < 0.01 | < 0.01 | 0.416 | 1.59 |
| Quarry 01 | Q01 1075 001 | Q01-054 | 184 | 9.13 | 3 | 1.99 | 30.5 | 0.1 | 0.1 | 8.78 | 1.84 | 55 | 0.31 | 54.3 | 176 | < 0.005 | < 0.01 | < 0.01 | 0.776 | 2.72 |
| Quarry 01 | Q01 1075 001 | Q01-055 | 81 | 9.27 | 2 | 1.98 | 20 | 0.1 | 0.1 | 12.91 | 1.28 | 18 | 0.31 | 17.6 | 57.7 | < 0.005 | < 0.01 | < 0.01 | 0.231 | 0.794 |
| Quarry 01 | Q01 1054 003 | Q01-056 | 119 | 9.43 | 2 | 2.03 | 20 | 0.1 | 0.1 | 15.22 | 1.16 | 12 | 0.31 | 11.5 | 38.1 | < 0.005 | < 0.01 | < 0.01 | 0.178 | 0.555 |
| Quarry 01 | Q01 1054 003 | Q01-057 | 133 | 9.64 | 2 | 1.96 | 20 | 0.1 | 0.1 | 17.98 | 1.07 | 5.1 | 0.31 | 4.79 | 16.5 | < 0.005 | < 0.01 | < 0.01 | 0.06 | 0.13 |
| Quarry 01 | Q01 1054 003 | Q01-058 | 12 | 9.18 | 2 | 1.93 | 20 | 0.1 | 0.1 | 13.26 | 1.24 | 18 | 0.31 | 17.2 | 56.5 | < 0.005 | < 0.01 | < 0.01 | 0.296 | 0.649 |
| Quarry 01 | Q01 1054 003 | Q01-059 | 96 | 9.75 | 2 | 1.97 | 20 | 0.1 | 0.1 | 18.34 | 1.07 | 4.2 | 0.31 | 3.89 | 13.5 | < 0.005 | < 0.01 | < 0.01 | 0.074 | 0.065 |
| Quarry 01 | Q01 1054 003 | Q01-060 | 96 | 9.93 | 2 | 1.98 | 20 | 0.1 | 0.1 | 18.16 | 1.11 | 4.6 | 0.31 | 4.29 | 14.8 | < 0.005 | < 0.01 | < 0.01 | 0.152 | 0.075 |
| Quarry 01 | Q01 1054 003 | Q01-061 | 32 | 9.02 | 2 | 1.95 | 20 | 0.1 | 0.1 | 17.01 | 1.16 | 7.7 | 0.31 | 7.39 | 24.8 | < 0.005 | < 0.01 | < 0.01 | 0.217 | 0.165 |
| Quarry 01 | CRUSHER | Q01-CRU-001 | | 8.99 | 4 | 2.05 | 40 | 0.1 | 0.1 | 9.91 | 1.8 | 73 | 0.31 | 73.1 | 235 | 0.016 | < 0.01 | 0.01 | 1.14 | 4.53 |
| Quarry 01 | CRUSHER | Q01-CRU-002 | | 9.42 | 2 | 2.02 | 20 | 0.1 | 0.1 | 15.04 | 1.19 | 12 | 0.31 | 12 | 39.7 | 0.007 | < 0.01 | < 0.01 | 0.119 | 0.405 |
| Quarry 01 | CRUSHER | Q01-CRU-003 | | 9.71 | 2 | 2.01 | 20 | 0.1 | 0.1 | 13.14 | 1.29 | 17 | 0.31 | 16.8 | 55.2 | < 0.005 | < 0.01 | < 0.01 | 0.183 | 0.575 |

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**TABLE E.6.3**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY QMR2 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014 - SUMMARY STATISTICS**

| | Analysis | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | Units | | | | | | | | | | | | | | | | |
| | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/1000 t | t CaCO3/1000 t | t CaCO3/1000 t | ratio | % | % | % | % | % |
| COUNT | 270 | 269 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 225 | 142 | 118 | 270 | 234 |
| MIN | 7.13 | 1 | 1.94 | 20 | 0.1 | 0.1 | 7.15 | 0.93 | -16.4 | 0.31 | -16.71 | -52.9 | 0.005 | 0.01 | 0.01 | 0.015 | 0.01 |
| MAX | 10.13 | 4 | 2.08 | 135 | 0.1 | 0.1 | 58.72 | 1.99 | 278 | 14.4 | 277 | 680 | 0.612 | 0.15 | 0.46 | 3.01 | 12 |
| MEAN | 9.337 | 1.593 | 2.005 | 27.955 | 0.100 | 0.100 | 17.961 | 1.390 | 24.937 | 0.861 | 24.090 | 56.650 | 0.037 | 0.011 | 0.025 | 0.285 | 0.813 |

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**TABLE E.6.4**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY QMR2 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014**

| Blast ID | Assay Sample ID | Hole Number | Analysis | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | | | Units | | | | | | | | | | | | | | | | |
| | | | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/ 1000 t | t CaCO3/ 1000 t | t CaCO3/ 1000 t | ratio | % | % | % | % | % |
| QMR2 1210 001 | QMR2 1210 001- 130 | 130 | 9.98 | 1 | 1.99 | 20.00 | 0.10 | 0.10 | 14.45 | 1.23 | 14 | 0.31 | 13.7 | 45.2 | 0.010 | 0.01 | < 0.01 | 0.141 | 0.470 |
| QMR2 1210 001 | QMR2 1210 001- 253 | 253 | 9.77 | 1 | 2.01 | 20.00 | 0.10 | 0.10 | 17.28 | 1.13 | 6.8 | 0.31 | 6.49 | 21.9 | 0.012 | 0.01 | < 0.01 | 0.026 | 0.020 |
| QMR2 1210 001 | QMR2 1210 001- 265 | 265 | 9.97 | 1 | 1.99 | 20.00 | 0.10 | 0.10 | 17.66 | 1.08 | 5.9 | 0.31 | 5.59 | 19.0 | 0.014 | 0.01 | < 0.01 | 0.028 | 0.020 |
| QMR2 1210 001 | QMR2 1210 001- 273 | 273 | 9.21 | 1 | 2.04 | 20.00 | 0.10 | 0.10 | 13.49 | 1.26 | 16 | 0.31 | 15.7 | 51.6 | 0.016 | 0.02 | < 0.01 | 0.269 | 0.530 |
| QMR2 1210 001 | QMR2 1210 001- 203 | 203 | 9.97 | 1 | 1.98 | 20.00 | 0.10 | 0.10 | 15.12 | 1.10 | 12 | 0.62 | 11.7 | 19.7 | 0.047 | 0.05 | 0.02 | 0.115 | 0.330 |
| QMR2 1210 001 | QMR2 1210 001- 296 | 296 | 9.38 | 1 | 2.01 | 20.00 | 0.10 | 0.10 | 13.86 | 1.21 | 15 | 0.31 | 15.0 | 49.4 | 0.013 | 0.01 | < 0.01 | 0.152 | 0.440 |
| QMR2 1210 001 | QMR2 1210 001- 299 | 299 | 9.66 | 1 | 2.00 | 20.00 | 0.10 | 0.10 | 12.53 | 1.39 | 19 | 0.31 | 18.4 | 60.3 | 0.014 | 0.01 | < 0.01 | 0.257 | 0.550 |
| QMR2 1210 001 | QMR2 1210 001- 306 | 306 | 9.56 | 1 | 2.03 | 20.00 | 0.10 | 0.10 | 14.74 | 1.21 | 13 | 0.31 | 12.6 | 41.6 | 0.012 | 0.01 | < 0.01 | 0.130 | 0.310 |
| QMR2 1210 001 | QMR2 1210 001- 314 | 314 | 9.65 | 1 | 2.01 | 20.00 | 0.10 | 0.10 | 17.01 | 1.09 | 7.4 | 0.31 | 7.09 | 23.9 | 0.010 | 0.01 | < 0.01 | 0.085 | 0.105 |
| QMR2 1210 001 | QMR2 1210 001- 278A | 278A | 9.85 | 1 | 2.02 | 20.00 | 0.10 | 0.10 | 16.19 | 1.05 | 9.4 | 0.31 | 9.09 | 30.3 | 0.011 | 0.01 | < 0.01 | 0.078 | 0.225 |
| QMR2 1210 002 | QMR2-011 | 516 | 9.10 | 3 | 2.00 | 55.70 | 0.10 | 0.10 | 32.52 | 1.59 | 58 | 0.31 | 57.6 | 187 | 0.007 | < 0.01 | < 0.01 | 0.818 | 2.39 |
| QMR2 1210 002 | QMR2-012 | 171 | 9.36 | 3 | 1.95 | 46.90 | 0.10 | 0.10 | 19.75 | 1.60 | 70 | 0.31 | 69.3 | 225 | 0.005 | < 0.01 | < 0.01 | 0.893 | 3.46 |
| QMR2 1210 002 | QMR2-013 | 237 | 9.09 | 2 | 1.99 | 20.00 | 0.10 | 0.10 | 12.73 | 1.52 | 18 | 0.31 | 18.0 | 59.0 | 0.015 | < 0.01 | 0.01 | 0.166 | 0.280 |
| QMR2 1210 002 | QMR2-014 | 254 | 9.63 | 2 | 2.04 | 32.30 | 0.10 | 0.10 | 19.98 | 1.57 | 30 | 0.31 | 29.9 | 97.4 | 0.026 | < 0.01 | 0.02 | 0.414 | 1.22 |
| QMR2 1210 002 | QMR2-015 | 321 | 9.55 | 2 | 2.03 | 20.00 | 0.10 | 0.10 | 13.74 | 1.35 | 15 | 0.31 | 15.1 | 49.7 | 0.010 | < 0.01 | 0.01 | 0.129 | 0.380 |
| QMR2 1210 002 | QMR2-016 | 177 | 9.90 | 2 | 1.98 | 20.00 | 0.10 | 0.10 | 14.51 | 1.18 | 14 | 0.31 | 13.6 | 44.8 | 0.007 | < 0.01 | < 0.01 | 0.138 | 0.400 |
| QMR2 1210 002 | QMR2-017 | 307 | 9.64 | 3 | 1.97 | 34.00 | 0.10 | 0.10 | 14.58 | 1.59 | 49 | 0.31 | 49.0 | 159 | 0.007 | < 0.01 | < 0.01 | 0.609 | 2.28 |
| QMR2 1210 002 | QMR2-018 | 268 | 9.85 | 2 | 2.01 | 20.00 | 0.10 | 0.10 | 12.01 | 1.45 | 20 | 0.31 | 19.6 | 64.2 | 0.018 | < 0.01 | 0.01 | 0.222 | 0.644 |
| QMR2 1210 002 | QMR2-019 | 223 | 9.80 | 1 | 2.04 | 20.00 | 0.10 | 0.10 | 16.74 | 1.22 | 8.0 | 0.31 | 7.69 | 25.8 | 0.012 | 0.01 | < 0.01 | 0.049 | 0.075 |
| QMR2 1210 002 | QMR2-020 | 223 | 9.86 | 1 | 1.99 | 20.00 | 0.10 | 0.10 | 16.88 | 1.17 | 7.8 | 0.31 | 7.49 | 25.2 | 0.018 | < 0.01 | 0.01 | 0.045 | 0.085 |
| QMR2 1210 002 | QMR2-021 | 184 | 9.97 | 1 | 2.00 | 20.00 | 0.10 | 0.10 | 17.66 | 1.06 | 5.9 | 0.31 | 5.59 | 19.0 | < 0.005 | < 0.01 | < 0.01 | 0.031 | < 0.005 |
| QMR2 1210 002 | QMR2-022 | 31 | 9.91 | 1 | 2.01 | 20.00 | 0.10 | 0.10 | 17.41 | 1.13 | 6.4 | 0.31 | 6.09 | 20.6 | < 0.005 | < 0.01 | < 0.01 | 0.035 | 0.020 |
| QMR2 1210 002 | QMR2-023 | 36 | 9.47 | 1 | 2.04 | 20.00 | 0.10 | 0.10 | 12.80 | 1.64 | 18 | 0.31 | 17.3 | 56.8 | 0.010 | < 0.01 | 0.01 | 0.143 | 0.395 |
| QMR2 1210 002 | QMR2-024 | 424 | 9.98 | 1 | 2.04 | 20.00 | 0.10 | 0.10 | 17.68 | 1.12 | 5.7 | 0.31 | 5.39 | 18.4 | 0.006 | < 0.01 | < 0.01 | 0.029 | 0.025 |
| QMR2 1210 002 | QMR2-025 | 344 | 9.31 | 2 | 2.04 | 55.00 | 0.10 | 0.10 | 37.02 | 1.52 | 44 | 14.4 | 29.7 | 3.07 | 0.612 | 0.15 | 0.46 | 0.295 | 0.874 |
| QMR2 1210 002 | QMR2-026 | 358 | 9.84 | 1 | 1.99 | 20.00 | 0.10 | 0.10 | 14.18 | 1.26 | 15 | 0.31 | 14.3 | 47.1 | 0.006 | < 0.01 | < 0.01 | 0.153 | 0.435 |
| QMR2 1210 002 | QMR2-027 | 314 | 9.42 | 1 | 1.97 | 32.40 | 0.10 | 0.10 | 24.10 | 1.55 | 21 | 2.19 | 18.9 | 9.65 | 0.072 | < 0.01 | 0.07 | 0.072 | 0.075 |
| QMR2 1210 002 | QMR2-028 | 327 | 9.96 | 1 | 1.94 | 20.00 | 0.10 | 0.10 | 16.19 | 1.09 | 9.8 | 0.31 | 9.49 | 31.4 | 0.012 | < 0.01 | 0.01 | 0.071 | 0.170 |
| QMR2 1210 002B | QMR2-029 | 401 | 9.62 | 1 | 2.01 | 32.00 | 0.10 | 0.10 | 16.19 | 1.63 | 39 | 4.38 | 34.9 | 8.98 | 0.182 | 0.04 | 0.14 | 0.158 | 0.395 |
| QMR2 1210 002B | QMR2-030 | 438 | 9.62 | 3 | 2.05 | 54.50 | 0.10 | 0.10 | 29.41 | 1.55 | 61 | 0.31 | 60.9 | 196 | 0.012 | < 0.01 | 0.01 | 0.743 | 2.97 |
| QMR2 1210 002B | QMR2-031 | 476 | 9.82 | 3 | 2.06 | 27.50 | 0.10 | 0.10 | 15.24 | 1.57 | 30 | 0.31 | 29.5 | 96.1 | 0.005 | < 0.01 | < 0.01 | 0.345 | 1.25 |
| QMR2 1210 002B | QMR2-032 | 490 | 9.36 | 3 | 2.04 | 57.60 | 0.10 | 0.10 | 35.24 | 1.59 | 55 | 0.94 | 53.9 | 58.5 | 0.029 | < 0.01 | 0.03 | 0.632 | 2.01 |
| QMR2 1210 002B | QMR2-033 | 521 | 9.51 | 3 | 2.01 | 33.40 | 0.10 | 0.10 | 17.29 | 1.55 | 40 | 0.31 | 39.8 | 129 | 0.006 | < 0.01 | < 0.01 | 0.493 | 1.60 |
| QMR2 1210 002B | QMR2-034 | 574 | 9.64 | 2 | 1.95 | 31.50 | 0.10 | 0.10 | 20.57 | 1.57 | 28 | 0.94 | 27.1 | 29.9 | 0.039 | < 0.01 | 0.03 | 0.255 | 0.799 |
| QMR2 1210 002B | QMR2-035 | 593 | 9.55 | 2 | 2.05 | 20.00 | 0.10 | 0.10 | 11.53 | 1.53 | 21 | 0.31 | 20.4 | 66.8 | 0.010 | 0.01 | < 0.01 | 0.226 | 0.595 |
| QMR2 1210 002B | QMR2-036 | 607 | 9.63 | 3 | 1.96 | 35.00 | 0.10 | 0.10 | 13.91 | 1.57 | 54 | 0.31 | 53.5 | 174 | 0.005 | < 0.01 | < 0.01 | 0.628 | 2.44 |
| QMR2 1210 002B | QMR2-037 | 654 | 9.27 | 2 | 1.96 | 33.50 | 0.10 | 0.10 | 16.27 | 1.55 | 44 | 0.31 | 43.7 | 141 | 0.013 | < 0.01 | 0.01 | 0.455 | 1.68 |
| QMR2 1210 002B | QMR2-038 | 682 | 9.22 | 2 | 2.00 | 52.00 | 0.10 | 0.10 | 31.83 | 1.58 | 50 | 0.62 | 49.8 | 80.6 | 0.032 | 0.01 | 0.02 | 0.593 | 1.98 |
| QMR2 1210 002B | QMR2-039 | 742 | 9.25 | 2 | 1.98 | 29.00 | 0.10 | 0.10 | 14.86 | 1.56 | 36 | 0.31 | 35.4 | 115 | 0.005 | < 0.01 | < 0.01 | 0.442 | 1.31 |
| QMR2 1210 002B | QMR2-040 | 760 | 9.25 | 3 | 2.01 | 105.70 | 0.10 | 0.10 | 58.72 | 1.56 | 117 | 2.19 | 115 | 53.4 | 0.097 | 0.03 | 0.07 | 1.16 | 3.82 |
| QMR2 1210 002B | QMR2-041 | 760 | 9.42 | 3 | 2.05 | 91.00 | 0.10 | 0.10 | 56.69 | 1.58 | 84 | 2.81 | 80.9 | 29.8 | 0.135 | 0.14 | 0.09 | 0.838 | 3.08 |
| QMR2 1210 002B | QMR2-042 | 774 | 9.80 | 1 | 1.98 | 20.00 | 0.10 | 0.10 | 14.63 | 1.22 | 14 | 0.31 | 13.3 | 43.9 | 0.009 | < 0.01 | < 0.01 | 0.132 | 0.275 |
| QMR2 1210 003 | QMR2-043 | 344 | 9.96 | 1 | 2.04 | 20.00 | 0.10 | 0.10 | 17.49 | 1.25 | 6.2 | 0.31 | 5.89 | 20.0 | < 0.005 | < 0.01 | < 0.01 | 0.020 | < 0.005 |
| QMR2 1210 003 | QMR2-044 | 296 | 9.64 | 1 | 1.96 | 20.00 | 0.10 | 0.10 | 13.79 | 1.42 | 16 | 0.31 | 15.5 | 51.0 | 0.010 | 0.01 | < 0.01 | 0.218 | 0.375 |
| QMR2 1210 003 | QMR2-045 | 288 | 9.26 | 1 | 2.06 | 20.00 | 0.10 | 0.10 | 15.45 | 1.72 | 11 | 0.31 | 10.7 | 35.2 | 0.020 | 0.01 | 0.01 | 0.045 | < 0.005 |
| QMR2 1210 003 | QMR2-046 | 248 | 9.85 | 1 | 2.03 | 20.00 | 0.10 | 0.10 | 17.02 | 1.29 | 7.3 | 0.31 | 6.99 | 23.5 | 0.005 | < 0.01 | < 0.01 | 0.033 | 0.030 |
| QMR2 1210 003 | QMR2-047 | 240 | 10.03 | 1 | 1.99 | 20.00 | 0.10 | 0.10 | 17.03 | 1.26 | 7.5 | 0.31 | 7.19 | 24.2 | 0.011 | 0.01 | < 0.01 | 0.018 | < 0.005 |

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**TABLE E.6.4**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY QMR2 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014**

| Blast ID | Assay Sample ID | Hole Number | Analysis | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | | | Units | | | | | | | | | | | | | | | | |
| | | | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/ 1000 t | t CaCO3/ 1000 t | t CaCO3/ 1000 t | ratio | % | % | % | % | % |
| QMR2 1210 003 | QMR2-048 | 352 | 9.54 | 1 | 2.02 | 42.80 | 0.10 | 0.10 | 28.22 | 1.54 | 36 | 3.12 | 33.0 | 11.6 | 0.166 | 0.07 | 0.10 | 0.266 | 0.764 |
| QMR2 1210 003 | QMR2-049 | 336 | 9.23 | 1 | 2.01 | 26.00 | 0.10 | 0.10 | 18.48 | 1.65 | 19 | 7.81 | 10.9 | 2.39 | 0.327 | 0.08 | 0.25 | 0.097 | 0.150 |
| QMR2 1210 003 | QMR2-050 | 304 | 9.43 | 3 | 2.02 | 64.00 | 0.10 | 0.10 | 36.64 | 1.59 | 68 | 0.31 | 67.4 | 217 | 0.019 | < 0.01 | 0.01 | 0.611 | 2.29 |
| QMR2 1210 003 | QMR2-051 | 280 | 9.64 | 1 | 1.99 | 20.00 | 0.10 | 0.10 | 16.44 | 1.30 | 8.9 | 0.31 | 8.59 | 28.5 | 0.032 | 0.02 | 0.01 | 0.040 | < 0.005 |
| QMR2 1210 003 | QMR2-052 | 256 | 9.53 | 1 | 2.02 | 20.00 | 0.10 | 0.10 | 16.65 | 1.26 | 8.3 | 0.31 | 7.99 | 26.6 | 0.023 | 0.01 | 0.01 | 0.040 | 0.015 |
| QMR2 1210 003 | QMR2-053 | 199 | 9.17 | 1 | 2.03 | 26.00 | 0.10 | 0.10 | 19.06 | 1.56 | 17 | 11.2 | 5.85 | 1.52 | 0.434 | 0.07 | 0.36 | 0.101 | 0.045 |
| QMR2 1210 003 | QMR2-054 | 184 | 9.37 | 1 | 1.97 | 20.00 | 0.10 | 0.10 | 13.08 | 1.67 | 18 | 0.31 | 17.3 | 56.3 | 0.023 | 0.01 | 0.01 | 0.245 | 0.290 |
| QMR2 1210 003 | QMR2-055 | 152 | 9.18 | 1 | 1.99 | 20.00 | 0.10 | 0.10 | 12.24 | 1.93 | 20 | 3.12 | 16.4 | 6.24 | 0.130 | 0.03 | 0.10 | 0.376 | 0.295 |
| QMR2 1210 003 | QMR2-056 | 138 | 8.85 | 1 | 1.98 | 33.00 | 0.10 | 0.10 | 12.37 | 1.92 | 52 | 0.31 | 51.8 | 167 | 0.011 | < 0.01 | 0.01 | 0.778 | 2.60 |
| QMR2 1210 003 | QMR2-057 | 104 | 9.41 | 1 | 1.99 | 20.00 | 0.10 | 0.10 | 17.67 | 1.16 | 5.9 | 0.31 | 5.59 | 19.0 | 0.006 | < 0.01 | < 0.01 | 0.034 | 0.025 |
| QMR2 1210 003 | QMR2-058 | 96 | 9.80 | 1 | 1.97 | 20.00 | 0.10 | 0.10 | 13.54 | 1.23 | 16 | 0.31 | 16.1 | 52.9 | < 0.005 | < 0.01 | < 0.01 | 0.167 | 0.634 |
| QMR2 1210 003 | QMR2-059 | 88 | 8.98 | 1 | 1.95 | 27.00 | 0.10 | 0.10 | 17.75 | 1.52 | 24 | 1.88 | 21.8 | 12.6 | 0.116 | 0.06 | 0.06 | 0.279 | 0.644 |
| QMR2 1210 003 | QMR2-060 | 48 | 8.74 | 3 | 2.03 | 83.50 | 0.10 | 0.10 | 26.74 | 1.63 | 140 | 0.31 | 139 | 447 | 0.012 | < 0.01 | 0.01 | 2.02 | 6.98 |
| QMR2 1210 005 | QMR2-061 | 23 | 10.00 | 2 | 2.02 | 20.00 | 0.10 | 0.10 | 17.62 | 1.15 | 6 | 0.31 | 5.6 | 19.00 | 0.011 | 0.01 | < 0.01 | 0.038 | < 0.005 |
| QMR2 1210 005 | QMR2-062 | 23 | 9.98 | 2 | 2.05 | 20 | 0.1 | 0.1 | 16.81 | 1.16 | 7.8 | 0.31 | 7.49 | 25 | 0.022 | 0.01 | 0.01 | 0.06 | 0.01 |
| QMR2 1210 005 | QMR2-063 | 7 | 9.79 | 2 | 2.03 | 20 | 0.1 | 0.1 | 13.69 | 1.67 | 16 | 0.62 | 14.9 | 24.8 | 0.028 | < 0.01 | 0.02 | 0.074 | 0.125 |
| QMR2 1210 005 | QMR2-064 | 14 | 9.84 | 2 | 2 | 20 | 0.1 | 0.1 | 17.56 | 1.24 | 6.1 | 0.31 | 5.79 | 19.7 | 0.017 | 0.02 | < 0.01 | 0.116 | 0.025 |
| QMR2 1210 005 | QMR2-065 | 20 | 10.04 | 2 | 1.98 | 20 | 0.1 | 0.1 | 15.44 | 1.2 | 12 | 0.31 | 11.2 | 37.1 | 0.017 | 0.02 | < 0.01 | 0.054 | 0.02 |
| QMR2 1210 005 | QMR2-066 | 25 | 9.76 | 2 | 2.04 | 20 | 0.1 | 0.1 | 18.04 | 1.21 | 4.8 | 1.88 | 2.92 | 2.56 | 0.089 | 0.03 | 0.06 | 0.075 | 0.01 |
| QMR2 1210 005 | QMR2-067 | 33 | 9.56 | 2 | 2 | 20 | 0.1 | 0.1 | 16.52 | 1.29 | 8.7 | 0.31 | 8.39 | 27.8 | 0.025 | 0.02 | 0.01 | 0.058 | 0.02 |
| QMR2 1210 007 | QMR2-068 | 1 | 9.22 | 2 | 2 | 20 | 0.1 | 0.1 | 16.64 | 1.19 | 8.4 | 0.31 | 8.09 | 27.1 | 0.019 | 0.02 | < 0.01 | 0.054 | 0.035 |
| QMR2 1210 007 | QMR2-069 | 5 | 9.47 | 3 | 2 | 20 | 0.1 | 0.1 | 8.91 | 1.81 | 28 | 0.31 | 27.4 | 89.4 | 0.022 | 0.02 | < 0.01 | 0.415 | 1.09 |
| QMR2 1210 007 | QMR2-070 | 30 | 8.81 | 3 | 1.98 | 28.3 | 0.1 | 0.1 | 17.77 | 1.84 | 27 | 0.94 | 25.7 | 28.4 | 0.043 | 0.01 | 0.03 | 0.131 | 0.19 |
| QMR2 1210 007 | QMR2-071 | 37 | 9.32 | 3 | 2.05 | 45.5 | 0.1 | 0.1 | 25.5 | 1.63 | 49 | 0.94 | 47.9 | 52.1 | 0.048 | 0.02 | 0.03 | 0.455 | 1.4 |
| QMR2 1210 007 | QMR2-072 | 43 | 9.27 | 3 | 1.97 | 45.8 | 0.1 | 0.1 | 27.54 | 1.61 | 46 | 2.5 | 43.8 | 18.5 | 0.098 | 0.02 | 0.08 | 0.413 | 1.18 |
| QMR2 1210 007 | QMR2-073 | 89 | 8.88 | 3 | 1.99 | 39.7 | 0.1 | 0.1 | 26.55 | 1.61 | 33 | 1.88 | 31.1 | 17.6 | 0.076 | 0.02 | 0.06 | 0.17 | 0.395 |
| QMR2 1210 007 | QMR2-074 | 78 | 9.28 | 3 | 2.02 | 41 | 0.1 | 0.1 | 23.73 | 1.63 | 43 | 2.81 | 39.9 | 15.2 | 0.122 | 0.03 | 0.09 | 0.37 | 1.19 |
| QMR2 1210 004 | QMR2-075 | 18 | 9.42 | 3 | 1.99 | 79.5 | 0.1 | 0.1 | 42.95 | 1.54 | 92 | 5.31 | 86.5 | 17.3 | 0.192 | 0.02 | 0.17 | 0.916 | 3.47 |
| QMR2 1210 004 | QMR2-076 | 52 | 9.31 | 2 | 1.99 | 26 | 0.1 | 0.1 | 18.93 | 1.56 | 18 | 4.38 | 13.4 | 4.07 | 0.147 | < 0.01 | 0.14 | 0.077 | 0.12 |
| QMR2 1210 004 | QMR2-077 | 93 | 9.45 | 2 | 2.04 | 39.8 | 0.1 | 0.1 | 24.21 | 1.59 | 38 | 0.62 | 37.6 | 61.1 | 0.028 | < 0.01 | 0.02 | 0.28 | 0.914 |
| QMR2 1210 004 | QMR2-078 | 78 | 9.38 | 2 | 2.02 | 26.2 | 0.1 | 0.1 | 16.42 | 1.54 | 24 | 0.31 | 23.9 | 77.4 | 0.02 | 0.01 | 0.01 | 0.188 | 0.5 |
| QMR2 1210 004 | QMR2-079 | 131 | 9.36 | 2 | 1.99 | 35 | 0.1 | 0.1 | 21.71 | 1.62 | 33 | 2.81 | 30.6 | 11.9 | 0.109 | 0.02 | 0.09 | 0.296 | 0.605 |
| QMR2 1210 004 | QMR2-080 | 156 | 9.48 | 2 | 2.05 | 41.2 | 0.1 | 0.1 | 24.28 | 1.64 | 41 | 3.75 | 37.6 | 11 | 0.118 | < 0.01 | 0.12 | 0.356 | 0.889 |
| QMR2 1210 004 | QMR2-081 | 156 | 9.31 | 2 | 2 | 41.5 | 0.1 | 0.1 | 25.47 | 1.56 | 40 | 5 | 35.1 | 8.02 | 0.17 | 0.01 | 0.16 | 0.338 | 0.889 |
| QMR2 1210 004 | QMR2-082 | 91 | 9.55 | 2 | 2.01 | 34.1 | 0.1 | 0.1 | 22.44 | 1.61 | 29 | 1.56 | 27.4 | 18.6 | 0.065 | 0.02 | 0.05 | 0.229 | 0.59 |
| QMR2 1210 004 | QMR2-083 | 150 | 9.29 | 2 | 2.03 | 25.2 | 0.1 | 0.1 | 15.71 | 1.76 | 23 | 0.31 | 23.1 | 74.9 | 0.026 | 0.02 | 0.01 | 0.182 | 0.545 |
| QMR2 1210 004 | QMR2-084 | 189 | 9.33 | 2 | 2.01 | 30 | 0.1 | 0.1 | 15.79 | 1.99 | 35 | 0.62 | 34.8 | 56.6 | 0.03 | 0.01 | 0.02 | 0.318 | 0.939 |
| QMR2 1200 001 | QMR2-085 | 56 | 9.49 | 2 | 1.99 | 20 | 0.1 | 0.1 | 17.6 | 1.13 | 6 | 0.31 | 5.69 | 19.4 | 0.018 | 0.02 | < 0.01 | 0.015 | < 0.005 |
| QMR2 1200 001 | QMR2-086 | 98 | 9.57 | 2 | 1.99 | 20 | 0.1 | 0.1 | 9.27 | 1.67 | 27 | 0.31 | 26.7 | 87.1 | 0.013 | 0.01 | < 0.01 | 0.352 | 1.19 |
| QMR2 1200 001 | QMR2-087 | 121 | 8.36 | 2 | 2.02 | 20 | 0.1 | 0.1 | 15.07 | 1.29 | 12 | 0.31 | 11.9 | 39.4 | 0.012 | 0.01 | < 0.01 | 0.141 | 0.27 |
| QMR2 1200 001 | QMR2-088 | 100 | 9.11 | 3 | 2.02 | 30 | 0.1 | 0.1 | 15.34 | 1.5 | 36 | 0.31 | 36 | 117 | 0.008 | < 0.01 | < 0.01 | 0.44 | 1.41 |
| QMR2 1200 001 | QMR2-089 | 71 | 9.64 | 2 | 2.04 | 20 | 0.1 | 0.1 | 15 | 1.28 | 12 | 0.62 | 11.7 | 19.7 | 0.045 | 0.02 | 0.02 | 0.12 | 0.215 |
| QMR2 1200 001 | QMR2-090 | 59 | 9.1 | 3 | 2.04 | 73.7 | 0.1 | 0.1 | 25.19 | 1.59 | 119 | 0.31 | 119 | 384 | 0.015 | 0.02 | < 0.01 | 1.49 | 6.56 |
| QMR2 1200 001 | QMR2-091 | 83 | 8.35 | 3 | 2.01 | 47.4 | 0.1 | 0.1 | 18.9 | 1.6 | 71 | 0.31 | 70.6 | 227 | 0.017 | < 0.01 | 0.01 | 1.24 | 3.62 |
| QMR2 1200 001 | QMR2-092 | 23 | 9.52 | 2 | 2.05 | 20 | 0.1 | 0.1 | 26.2 | 1.17 | -15.1 | 0.31 | -15.41 | -48.71 | 0.016 | 0.02 | < 0.01 | 0.031 | < 0.005 |
| QMR2 1200 001 | QMR2-093 | 110 | 9.59 | 2 | 1.97 | 20 | 0.1 | 0.1 | 16.55 | 1.18 | 8.8 | 0.31 | 8.49 | 28.2 | 0.024 | 0.01 | 0.01 | 0.052 | 0.09 |
| QMR2 1200 001 | QMR2-094 | 35 | 8.35 | 2 | 2.04 | 20 | 0.1 | 0.1 | 26.71 | 1.22 | -16.4 | 0.31 | -16.71 | -52.9 | 0.018 | 0.02 | < 0.01 | 0.169 | 0.13 |

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**TABLE E.6.4**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY QMR2 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014**

| Blast ID | Assay Sample ID | Hole Number | Analysis | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | | | Units | | | | | | | | | | | | | | | | |
| | | | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/ 1000 t | t CaCO3/ 1000 t | t CaCO3/ 1000 t | ratio | % | % | % | % | % |
| QMR2 1200 001 | QMR2-095 | 95 | 9.35 | 2 | 2.05 | 20 | 0.1 | 0.1 | 23.89 | 1.09 | -9.5 | 0.31 | -9.81 | -30.4 | 0.038 | 0.03 | 0.01 | 0.03 | < 0.005 |
| QMR2 1200 001 | QMR2-096 | 132 | 8.93 | 2 | 2.04 | 20 | 0.1 | 0.1 | 15.97 | 1.18 | 9.9 | 0.31 | 9.59 | 31.9 | 0.027 | 0.03 | < 0.01 | 0.062 | 0.035 |
| QMR2 1200 001 | QMR2-097 | 50 | 9.31 | 2 | 2 | 20 | 0.1 | 0.1 | 13.2 | 1.25 | 17 | 0.31 | 16.7 | 54.8 | 0.011 | 0.01 | < 0.01 | 0.119 | 0.29 |
| QMR2 1200 002 | QMR2-098 | 291 | 8.84 | 3 | 2.03 | 20 | 0.1 | 0.1 | 10.76 | 1.33 | 23 | 0.31 | 22.5 | 73.5 | 0.007 | < 0.01 | < 0.01 | 0.315 | 0.779 |
| QMR2 1200 002 | QMR2-099 | 101 | 7.35 | 2 | 2.01 | 20 | 0.1 | 0.1 | 19.01 | 1.03 | 2.5 | 0.31 | 2.19 | 8.06 | 0.01 | 0.01 | < 0.01 | 0.03 | 0.01 |
| QMR2 1200 002 | QMR2-100 | 130 | 7.39 | 2 | 1.98 | 20 | 0.1 | 0.1 | 18.24 | 1 | 4.4 | 0.31 | 4.09 | 14.2 | 0.013 | 0.01 | < 0.01 | 0.084 | 0.01 |
| QMR2 1200 002 | QMR2-101 | 130 | 7.13 | 2 | 1.99 | 20 | 0.1 | 0.1 | 18.78 | 0.93 | 3.1 | 0.31 | 2.79 | 10 | 0.005 | < 0.01 | < 0.01 | 0.015 | 0.01 |
| QMR2 1200 002 | QMR2-102 | 232 | 7.88 | 2 | 1.97 | 20 | 0.1 | 0.1 | 17.56 | 0.99 | 6.2 | 0.31 | 5.89 | 20 | 0.011 | 0.01 | < 0.01 | 0.065 | 0.01 |
| QMR2 1200 002 | QMR2-103 | 422 | 8.49 | 2 | 2.01 | 20 | 0.1 | 0.1 | 16.25 | 1 | 9.3 | 0.31 | 8.99 | 30 | 0.007 | < 0.01 | < 0.01 | 0.105 | 0.14 |
| QMR2 1210 008 | QMR2-104 | 19 | 9.51 | 1 | 2.01 | 20 | 0.1 | 0.1 | 17.62 | 0.97 | 5.9 | 0.31 | 5.59 | 19 | 0.011 | 0.01 | < 0.01 | 0.064 | 0.095 |
| QMR2 1210 008 | QMR2-105 | 25 | 8.88 | 1 | 2 | 20 | 0.1 | 0.1 | 12.91 | 1.35 | 18 | 0.31 | 17.4 | 57.1 | 0.021 | 0.02 | < 0.01 | 0.226 | 0.639 |
| QMR2 1210 008 | QMR2-106 | 47 | 9.23 | 1 | 1.99 | 20 | 0.1 | 0.1 | 18.45 | 1.13 | 3.9 | 0.31 | 3.59 | 12.5 | 0.025 | 0.02 | 0.01 | 0.034 | < 0.005 |
| QMR2 1210 008 | QMR2-107 | 180 | 9.35 | 1 | 2 | 20 | 0.1 | 0.1 | 16.21 | 1.17 | 9.5 | 0.31 | 9.19 | 30.6 | 0.014 | 0.01 | < 0.01 | 0.139 | 0.335 |
| QMR2 1210 008 | QMR2-108 | 100 | 9.1 | 1 | 1.99 | 20 | 0.1 | 0.1 | 18.14 | 1.06 | 4.7 | 0.31 | 4.39 | 15.2 | 0.02 | 0.02 | < 0.01 | 0.038 | 0.025 |
| QMR2 1210 008 | QMR2-109 | 279 | 8.74 | 1 | 1.99 | 20 | 0.1 | 0.1 | 18.02 | 0.98 | 5 | 1.25 | 3.75 | 4 | 0.069 | 0.03 | 0.04 | 0.163 | 0.015 |
| QMR2 1210 008 | QMR2-110 | 134 | 8.43 | 1 | 2.01 | 20 | 0.1 | 0.1 | 17.7 | 1 | 5.7 | 0.31 | 5.39 | 18.2 | 0.02 | 0.01 | 0.01 | 0.153 | 0.015 |
| QMR2 1210 008 | QMR2-111 | 57 | 9.49 | 1 | 2.02 | 20.00 | 0.10 | 0.10 | 17.82 | 1.29 | 5.4 | 0.31 | 5.09 | 17.4 | < 0.005 | < 0.01 | < 0.01 | 0.053 | 0.070 |
| QMR2 1210 008 | QMR2-112 | 67 | 9.56 | 2 | 1.95 | 20.00 | 0.10 | 0.10 | 19.34 | 1.62 | 1.7 | 0.31 | 1.39 | 5.48 | 0.010 | 0.01 | < 0.01 | 0.318 | 1.09 |
| QMR2 1210 008 | QMR2-113 | 128 | 9.50 | 1 | 2.05 | 20.00 | 0.10 | 0.10 | 17.59 | 1.17 | 5.9 | 0.31 | 5.59 | 19.0 | < 0.005 | < 0.01 | < 0.01 | 0.051 | 0.125 |
| QMR2 1210 008 | QMR2-114 | 213 | 9.70 | 1 | 1.96 | 20.00 | 0.10 | 0.10 | 18.27 | 1.27 | 4.4 | 0.31 | 4.09 | 14.2 | 0.005 | < 0.01 | < 0.01 | 0.027 | < 0.005 |
| QMR2 1210 008 | QMR2-115 | 275 | 10.00 | 1 | 2.02 | 20.00 | 0.10 | 0.10 | 18.24 | 1.42 | 4.4 | 0.31 | 4.09 | 14.2 | < 0.005 | < 0.01 | < 0.01 | 0.044 | < 0.005 |
| QMR2 1210 008 | QMR2-116 | 189 | 9.35 | 1 | 2.02 | 20.00 | 0.10 | 0.10 | 13.57 | 1.48 | 16 | 1.25 | 14.6 | 12.7 | 0.081 | 0.04 | 0.04 | 0.192 | 0.435 |
| QMR2 1210 008 | QMR2-117 | 253 | 9.43 | 1 | 2.05 | 29.40 | 0.10 | 0.10 | 15.72 | 1.53 | 33 | 0.31 | 33.1 | 108 | < 0.005 | < 0.01 | < 0.01 | 0.477 | 1.61 |
| QMR2 1210 008 | QMR2-118 | 472 | 9.55 | 1 | 2.00 | 20.00 | 0.10 | 0.10 | 15.60 | 1.42 | 11 | 0.62 | 10.4 | 17.6 | 0.016 | < 0.01 | 0.02 | 0.143 | 0.265 |
| QMR2 1210 009 | QMR2-119 | 205 | 8.82 | 1 | 2 | 26.6 | 0.1 | 0.1 | 18.39 | 1.63 | 20 | 0.31 | 20.2 | 66.1 | 0.007 | < 0.01 | < 0.01 | 0.116 | 0.17 |
| QMR2 1210 009 | QMR2-120 | 205 | 8.88 | 1 | 1.99 | 27.1 | 0.1 | 0.1 | 19.46 | 1.65 | 19 | 0.31 | 18.9 | 61.4 | 0.013 | < 0.01 | 0.01 | 0.106 | 0.1 |
| QMR2 1210 009 | QMR2-121 | 97 | 9.31 | 1 | 2.01 | 20 | 0.1 | 0.1 | 14.64 | 1.95 | 13 | 2.81 | 10.5 | 4.73 | 0.138 | 0.05 | 0.09 | 0.062 | 0.03 |
| QMR2 1210 009 | QMR2-122 | 215 | 9.25 | 1 | 2.01 | 38.1 | 0.1 | 0.1 | 25.15 | 1.69 | 32 | 1.88 | 30.3 | 17.2 | 0.096 | 0.04 | 0.06 | 0.127 | 0.325 |
| QMR2 1210 009 | QMR2-123 | 196 | 9.57 | 1 | 2.01 | 26.9 | 0.1 | 0.1 | 17.82 | 1.7 | 23 | 1.25 | 21.4 | 18.1 | 0.056 | 0.02 | 0.04 | 0.174 | 0.15 |
| QMR2 1210 009 | QMR2-124 | 150 | 9.42 | 1 | 2.01 | 20 | 0.1 | 0.1 | 17.35 | 1.15 | 6.6 | 0.31 | 6.29 | 21.1 | 0.022 | 0.01 | 0.01 | 0.121 | 0.025 |
| QMR2 1210 009 | QMR2-125 | 160 | 9.9 | 1 | 2.01 | 20 | 0.1 | 0.1 | 15.62 | 1.42 | 11 | 0.31 | 10.6 | 35.2 | < 0.005 | < 0.01 | < 0.01 | 0.067 | 0.015 |
| QMR2 1210 009 | QMR2-126 | 42 | 9.69 | 1 | 1.99 | 20 | 0.1 | 0.1 | 14.71 | 1.56 | 13 | 0.31 | 13 | 42.9 | 0.006 | < 0.01 | < 0.01 | 0.072 | 0.1 |
| QMR2 1210 009 | QMR2-127 | 101 | 9.79 | 1 | 2.01 | 20 | 0.1 | 0.1 | 14.68 | 1.6 | 13 | 0.31 | 12.9 | 42.6 | < 0.005 | < 0.01 | < 0.01 | 0.059 | 0.04 |
| QMR2 1210 009 | QMR2-128 | 108 | 9.38 | 1 | 2.01 | 43.1 | 0.1 | 0.1 | 25.36 | 1.59 | 44 | 1.56 | 42.5 | 28.2 | 0.068 | 0.02 | 0.05 | 0.42 | 1.24 |
| QMR2 1210 009 | QMR2-129 | 52 | 9.98 | 1 | 2.01 | 20 | 0.1 | 0.1 | 15.85 | 1.43 | 10 | 0.62 | 9.68 | 16.5 | 0.036 | 0.02 | 0.02 | 0.039 | 0.04 |
| QMR2 1210 009 | QMR2-130 | 67 | 9.83 | 1 | 2.01 | 20 | 0.1 | 0.1 | 15.65 | 1.43 | 11 | 0.31 | 10.5 | 34.8 | < 0.005 | < 0.01 | < 0.01 | 0.035 | 0.02 |
| QMR2 1210 009 | QMR2-131 | 21 | 9.5 | 1 | 1.98 | 20 | 0.1 | 0.1 | 16.4 | 1.25 | 9.1 | 0.31 | 8.79 | 29.4 | < 0.005 | < 0.01 | < 0.01 | 0.06 | 0.03 |
| QMR2 1210 012 | QMR2-132 | 783 | 9.52 | 2 | 1.98 | 20.00 | 0.10 | 0.10 | 8.27 | 1.57 | 30 | 0.31 | 29.3 | 95.5 | < 0.005 | < 0.01 | < 0.01 | 0.498 | 1.44 |
| QMR2 1210 012 | QMR2-133 | 678 | 9.56 | 1 | 2.02 | 20.00 | 0.10 | 0.10 | 17.13 | 1.12 | 7.1 | 0.31 | 6.79 | 22.9 | 0.005 | < 0.01 | < 0.01 | 0.074 | 0.160 |
| QMR2 1210 012 | QMR2-134 | 566 | 9.46 | 2 | 2.05 | 29.00 | 0.10 | 0.10 | 12.70 | 1.42 | 40 | 0.31 | 39.5 | 128 | 0.010 | 0.01 | < 0.01 | 0.542 | 1.84 |
| QMR2 1210 006 | QMR2-135 | 19 | 8.78 | 1 | 2 | 20 | 0.1 | 0.1 | 13.99 | 1.56 | 15 | 0.31 | 14.7 | 48.4 | < 0.005 | < 0.01 | < 0.01 | 0.188 | 0.19 |
| QMR2 1210 006 | QMR2-136 | 115 | 9.21 | 2 | 2 | 20 | 0.1 | 0.1 | 15.6 | 1.33 | 11 | 0.31 | 10.7 | 35.5 | < 0.005 | < 0.01 | < 0.01 | 0.08 | 0.11 |
| QMR2 1210 006 | QMR2-137 | 35 | 9.25 | 1 | 1.95 | 64.9 | 0.1 | 0.1 | 33.78 | 1.61 | 80 | 1.88 | 77.9 | 42.6 | 0.05 | < 0.01 | 0.06 | 0.743 | 2.83 |
| QMR2 1200 004 | QMR2-138 | 66 | 9.17 | 2 | 2.06 | 28.4 | 0.1 | 0.1 | 13.04 | 1.93 | 37 | 0.31 | 37 | 120 | 0.009 | < 0.01 | < 0.01 | 0.274 | 0.989 |
| QMR2 1200 004 | QMR2-139 | 96 | 9.15 | 1 | 2.03 | 34.40 | 0.10 | 0.1 | 19 | 1.6 | 38 | 0.31 | 37.6 | 122 | 0.005 | < 0.01 | < 0.01 | 0.271 | 0.934 |
| QMR2 1200 004 | QMR2-140 | 96 | 8.82 | 1 | 2 | 28 | 0 | 0.1 | 16.39 | 1.59 | 28 | 0.31 | 27.9 | 91 | < 0.005 | < 0.01 | < 0.01 | 0.154 | 0.415 |
| QMR2 1200 004 | QMR2-141 | 48 | 9.26 | 1 | 2.08 | 20.00 | 0.10 | 0.1 | 14.08 | 1.59 | 14 | 0.31 | 13.9 | 45.8 | 0.008 | < 0.01 | < 0.01 | 0.05 | 0.085 |

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**TABLE E.6.4**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY QMR2 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014**

| Blast ID | Assay Sample ID | Hole Number | Analysis | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | | | Units | | | | | | | | | | | | | | | | |
| | | | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/ 1000 t | t CaCO3/ 1000 t | t CaCO3/ 1000 t | ratio | % | % | % | % | % |
| QMR2 1200 004 | QMR2-142 | 149 | 9.82 | 1 | 1.97 | 20.00 | 0.10 | 0.1 | 16.79 | 1.25 | 8.1 | 0.31 | 7.79 | 26.1 | < 0.005 | < 0.01 | < 0.01 | 0.028 | 0.015 |
| QMR2 1210 011 | QMR2-143 | 1 | 9.91 | 1 | 1.95 | 20.00 | 0.10 | 0.1 | 16.48 | 1.14 | 9 | 0.31 | 8.69 | 29 | 0.019 | 0.02 | < 0.01 | 0.091 | 0.16 |
| QMR2 1210 011 | QMR2-144 | 5 | 10.1 | 1 | 2.04 | 20.00 | 0.10 | 0.1 | 17.33 | 1.27 | 6.5 | 0.31 | 6.19 | 21 | 0.013 | 0.01 | < 0.01 | 0.042 | < 0.005 |
| QMR2 1210 011 | QMR2-145 | 8 | 9.95 | 1 | 2.01 | 20.00 | 0.10 | 0.1 | 18.12 | 1.21 | 4.7 | 0.62 | 4.08 | 7.52 | 0.072 | 0.05 | 0.02 | 0.044 | < 0.005 |
| QMR2 1210 011 | QMR2-146 | 12 | 9.83 | 1 | 2.00 | 20.00 | 0.10 | 0.1 | 12.67 | 1.46 | 18 | 0.31 | 18 | 59 | 0.007 | < 0.01 | < 0.01 | 0.244 | 0.689 |
| QMR2 1210 011 | QMR2-147 | 16 | 9.86 | 1 | 1.98 | 20.00 | 0.10 | 0.1 | 17.83 | 1.2 | 5.5 | 0.31 | 5.19 | 17.7 | 0.01 | 0.01 | < 0.01 | 0.038 | < 0.005 |
| QMR2 1210 011 | QMR2-148 | 20 | 9.62 | 1 | 2.00 | 20.00 | 0.10 | 0.1 | 15.14 | 1.3 | 12 | 0.31 | 11.8 | 39 | 0.007 | < 0.01 | < 0.01 | 0.456 | 0.37 |
| QMR2 1210 011 | QMR2-149 | 23 | 9.59 | 1 | 1.97 | 20.00 | 0.10 | 0.1 | 12.27 | 1.56 | 20 | 0.31 | 19.3 | 62.7 | 0.035 | 0.02 | 0.01 | 0.29 | 0.649 |
| QMR2 1210 011 | QMR2-150 | 27 | 10.01 | 1 | 2.00 | 20.00 | 0.10 | 0.1 | 17.86 | 1.23 | 5.4 | 0.31 | 5.09 | 17.4 | < 0.005 | < 0.01 | < 0.01 | 0.07 | 0.04 |
| QMR2 1210 011 | QMR2-151 | 31 | 9.69 | 1 | 1.98 | 20.00 | 0.10 | 0.1 | 16.84 | 1.26 | 8 | 0.31 | 7.69 | 25.8 | 0.013 | 0.01 | < 0.01 | 0.068 | 0.04 |
| QMR2 1210 011 | QMR2-152 | 35 | 10.13 | 1 | 2.02 | 20.00 | 0.10 | 0.1 | 17.57 | 1.22 | 6 | 0.31 | 5.69 | 19.4 | 0.009 | < 0.01 | < 0.01 | 0.066 | < 0.005 |
| QMR2 1210 011 | QMR2-153 | 39 | 10.01 | 1 | 2.03 | 20.00 | 0.10 | 0.1 | 18.07 | 1.21 | 4.8 | 0.31 | 4.49 | 15.4 | 0.033 | 0.02 | 0.01 | 0.046 | < 0.005 |
| QMR2 1210 011 | QMR2-154 | 42 | 10.03 | 1 | 1.96 | 20.00 | 0.10 | 0.1 | 17.68 | 1.16 | 5.9 | 0.31 | 5.59 | 19 | 0.017 | 0.02 | < 0.01 | 0.052 | < 0.005 |
| QMR2 1210 011 | QMR2-155 | 46 | 9.76 | 1 | 2.02 | 20.00 | 0.10 | 0.1 | 17.04 | 1.22 | 7.3 | 0.31 | 6.99 | 23.5 | < 0.005 | < 0.01 | < 0.01 | 0.064 | 0.06 |
| QMR2 1210 011 | QMR2-156 | 52 | 9.62 | 1 | 2.02 | 26 | 0.1 | 0.1 | 17.53 | 1.65 | 21 | 0.94 | 20.1 | 22.4 | 0.069 | 0.04 | 0.03 | 0.239 | 0.275 |
| QMR2 1210 011 | QMR2-157 | 54 | 9.85 | 1 | 2 | 20 | 0.1 | 0.1 | 16.83 | 1.26 | 7.9 | 0.31 | 7.59 | 25.5 | 0.008 | < 0.01 | < 0.01 | 0.111 | 0.195 |
| QMR2 1210 011 | QMR2-158 | 58 | 9.9 | 1 | 2.04 | 20 | 0.1 | 0.1 | 18.04 | 1.22 | 4.8 | 0.31 | 4.49 | 15.5 | 0.012 | 0.01 | < 0.01 | 0.092 | 0.015 |
| QMR2 1200 003 | QMR2-159 | 32 | 9.83 | 1 | 1.97 | 20 | 0.1 | 0.1 | 19.85 | 1.09 | 0.4 | 0.31 | 0.09 | 1.29 | < 0.005 | < 0.01 | < 0.01 | 0.024 | < 0.005 |
| QMR2 1200 003 | QMR2-160 | 32 | 7.34 | 1 | 2 | 20 | 0.1 | 0.1 | 18.74 | 1.03 | 3.2 | 0.31 | 2.89 | 10.3 | < 0.005 | < 0.01 | < 0.01 | 0.03 | < 0.005 |
| QMR2 1200 003 | QMR2-161 | 91 | 7.93 | 1 | 1.98 | 20 | 0.1 | 0.1 | 18.27 | 1.12 | 4.4 | 0.31 | 4.09 | 14.2 | 0.006 | < 0.01 | < 0.01 | 0.104 | 0.01 |
| QMR2 1200 003 | QMR2-162 | 215 | 8.68 | 2 | 2.01 | 20 | 0.1 | 0.1 | 9.68 | 1.61 | 26 | 0.31 | 25.4 | 82.9 | 0.011 | 0.01 | < 0.01 | 0.59 | 1.12 |
| QMR2 1200 003 | QMR2-163 | 344 | 8.35 | 2 | 2.05 | 20 | 0.1 | 0.1 | 7.45 | 1.85 | 31 | 6.88 | 23.7 | 4.45 | 0.252 | 0.03 | 0.22 | 1.08 | 1.23 |
| QMR2 1210 013 | QMR2-166 | 12 | 8.95 | 2 | 2 | 20 | 0.1 | 0.1 | 13.22 | 1.42 | 17 | 0.31 | 16.7 | 54.8 | < 0.005 | < 0.01 | < 0.01 | 0.244 | 0.634 |
| QMR2 1210 013 | QMR2-167 | 62 | 9.22 | 2 | 1.96 | 20 | 0.1 | 0.1 | 13.18 | 1.54 | 17 | 0.31 | 17.1 | 56.1 | 0.008 | < 0.01 | < 0.01 | 0.166 | 0.47 |
| QMR2 1210 013 | QMR2-168 | 112 | 8.83 | 1 | 2.05 | 20 | 0.1 | 0.1 | 18.18 | 1.19 | 4.4 | 0.31 | 4.09 | 14.2 | 0.008 | < 0.01 | < 0.01 | 0.058 | < 0.005 |
| QMR2 1210 013 | QMR2-169 | 212 | 9.15 | 1 | 2 | 20 | 0.1 | 0.1 | 17.9 | 1.17 | 5.2 | 0.31 | 4.89 | 16.8 | < 0.005 | < 0.01 | < 0.01 | 0.05 | < 0.005 |
| QMR2 1210 013 | QMR2-170 | 101 | 8.97 | 1 | 1.98 | 20 | 0.1 | 0.1 | 17.79 | 1.19 | 5.6 | 0.31 | 5.29 | 18.1 | 0.005 | < 0.01 | < 0.01 | 0.078 | < 0.005 |
| QMR2 1210 013 | QMR2-171 | 234 | 9.91 | 1 | 1.99 | 20 | 0.1 | 0.1 | 18.85 | 1.13 | 2.9 | 0.31 | 2.59 | 9.35 | 0.008 | < 0.01 | < 0.01 | 0.043 | < 0.005 |
| QMR2 1210 013 | QMR2-172 | 292 | 9.21 | 1 | 1.98 | 20 | 0.1 | 0.1 | 18.12 | 1.12 | 4.7 | 0.31 | 4.39 | 15.2 | < 0.005 | < 0.01 | < 0.01 | 0.031 | < 0.005 |
| QMR2 1210 014 | QMR2-173 | 231 | 9.69 | 1 | 1.99 | 20 | 0.1 | 0.1 | 11.35 | 1.74 | 22 | 0.31 | 21.4 | 70 | 0.018 | 0.02 | < 0.01 | 0.345 | 1.01 |
| QMR2 1210 014 | QMR2-174 | 141 | 9.11 | 1 | 1.98 | 20 | 0.1 | 0.1 | 16.62 | 1.25 | 8.5 | 0.31 | 8.19 | 27.4 | 0.012 | 0.01 | < 0.01 | 0.056 | < 0.005 |
| QMR2 1210 014 | QMR2-175 | 191 | 8.98 | 1 | 1.98 | 135 | 0.1 | 0.1 | 24.82 | 1.6 | 278 | 0.94 | 277 | 297 | 0.096 | 0.07 | 0.03 | 0.207 | 0.295 |
| QMR2 1210 014 | QMR2-176 | 115 | 9.17 | 1 | 1.97 | 20 | 0.1 | 0.1 | 14.6 | 1.49 | 14 | 0.94 | 12.8 | 14.6 | 0.048 | 0.02 | 0.03 | 0.116 | 0.09 |
| QMR2 1210 010 | QMR2-177 | 12B | 9.69 | 1 | 1.99 | 20 | 0.1 | 0.1 | 11.35 | 1.74 | 22 | 0.31 | 21.4 | 70 | 0.018 | 0.02 | < 0.01 | 0.345 | 1.01 |
| QMR2 1210 010 | QMR2-178 | 205 | 9.11 | 1 | 1.98 | 20 | 0.1 | 0.1 | 16.62 | 1.25 | 8.5 | 0.31 | 8.19 | 27.4 | 0.012 | 0.01 | < 0.01 | 0.056 | < 0.005 |
| QMR2 1210 010 | QMR2-179 | 5B | 8.98 | 1 | 1.98 | 135 | 0.1 | 0.1 | 24.82 | 1.6 | 278 | 0.94 | 277 | 297 | 0.096 | 0.07 | 0.03 | 0.207 | 0.295 |
| QMR2 1210 010 | QMR2-180 | 5B | 9.17 | 1 | 1.97 | 20 | 0.1 | 0.1 | 14.6 | 1.49 | 14 | 0.94 | 12.8 | 14.6 | 0.048 | 0.02 | 0.03 | 0.116 | 0.09 |
| QMR2 1210 014 | QMR2-181 | 20 | 9.79 | 1 | 2.02 | 20 | 0.1 | 0.1 | 14.22 | 1.21 | 14 | 1.25 | 13 | 11.4 | 0.055 | 0.02 | 0.04 | 0.16 | 0.335 |
| QMR2 1210 014 | QMR2-182 | 13 | 9.25 | 3 | 1.98 | 52.9 | 0.1 | 0.1 | 22.22 | 1.54 | 78 | 0.31 | 77.2 | 250 | < 0.005 | < 0.01 | < 0.01 | 1.05 | 4.23 |
| QMR2 1210 014 | QMR2-183 | 141 | 9.38 | 1 | 1.97 | 20 | 0.1 | 0.1 | 17.37 | 1.08 | 6.7 | 0.31 | 6.39 | 21.6 | 0.006 | < 0.01 | < 0.01 | 0.049 | 0.06 |
| QMR2 1210 014 | QMR2-184 | 63 | 9.67 | 3 | 2.03 | 25.5 | 0.1 | 0.1 | 10.14 | 1.71 | 38 | 0.31 | 37.5 | 121 | 0.041 | 0.03 | 0.01 | 0.536 | 1.85 |
| QMR2 1210 014 | QMR2-185 | 44 | 9.15 | 3 | 2.01 | 72.7 | 0.1 | 0.1 | 26.64 | 1.54 | 115 | 0.31 | 114 | 370 | < 0.005 | < 0.01 | < 0.01 | 1.47 | 6.42 |
| QMR2 1210 014 | QMR2-186 | 101 | 9.54 | 1 | 2.04 | 20 | 0.1 | 0.1 | 16.94 | 0.95 | 7.5 | 0.31 | 7.19 | 24.2 | 0.01 | 0.01 | < 0.01 | 0.059 | 0.095 |
| QMR2 1200 005 | QMR2-187 | 27 | 9.17 | 1 | 2.05 | 20.00 | 0.10 | 0.10 | 16.25 | 1.63 | 9.1 | 0.31 | 8.79 | 29.1 | 0.040 | 0.01 | 0.03 | 0.033 | 0.010 |
| QMR2 1200 005 | QMR2-188 | 25 | 9.88 | 1 | 2.04 | 20.00 | 0.10 | 0.10 | 19.40 | 1.12 | 1.5 | 0.66 | 0.84 | 2.29 | 0.021 | 0.02 | < 0.01 | 0.040 | 0.010 |
| QMR2 1200 005 | QMR2-189 | 72 | 9.55 | 1 | 2.04 | 20.00 | 0.10 | 0.10 | 18.71 | 1.22 | 3.2 | 0.34 | 2.86 | 9.31 | 0.011 | 0.01 | < 0.01 | 0.061 | 0.040 |
| QMR2 1200 005 | QMR2-190 | 82 | 9.53 | 1 | 1.99 | 20.00 | 0.10 | 0.10 | 19.14 | 1.23 | 2.2 | 0.75 | 1.45 | 2.93 | 0.024 | 0.02 | < 0.01 | 0.046 | 0.010 |

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**TABLE E.6.4**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY QMR2 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014**

| Blast ID | Assay Sample ID | Hole Number | Analysis | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | | | Units | | | | | | | | | | | | | | | | |
| | | | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/ 1000 t | t CaCO3/ 1000 t | t CaCO3/ 1000 t | ratio | % | % | % | % | % |
| QMR2 1200 005 | QMR2-191 | 65 | 9.66 | 1 | 2.00 | 20.00 | 0.10 | 0.10 | 19.26 | 1.19 | 1.8 | 0.41 | 1.39 | 4.43 | 0.013 | 0.01 | < 0.01 | 0.031 | < 0.005 |
| QMR2 1200 005 | QMR2-192 | 97 | 9.60 | 1 | 2.00 | 20.00 | 0.10 | 0.10 | 16.44 | 1.30 | 8.9 | 0.72 | 8.18 | 12.4 | 0.023 | 0.02 | < 0.01 | 0.104 | 0.060 |
| QMR2 1200 005 | QMR2-193 | 52 | 8.38 | 1 | 1.99 | 27.00 | 0.10 | 0.10 | 17.97 | 1.60 | 23 | 0.50 | 22.2 | 45.4 | 0.016 | 0.02 | < 0.01 | 0.204 | 0.400 |
| QMR2 1200 005 | QMR2-194 | 102 | 8.86 | 1 | 2.04 | 23.50 | 0.10 | 0.10 | 16.11 | 1.63 | 18 | 0.72 | 17.4 | 25.2 | 0.203 | 0.02 | 0.18 | 0.156 | 0.230 |
| QMR2 1200 005 | QMR2-195 | 127 | 10.09 | 1 | 2.01 | 20.00 | 0.10 | 0.10 | 18.45 | 1.17 | 3.9 | 0.38 | 3.52 | 10.4 | 0.012 | 0.01 | < 0.01 | 0.055 | 0.015 |
| QMR2 1200 005 | QMR2-196 | 134 | 9.83 | 1 | 2.01 | 20.00 | 0.10 | 0.10 | 18.89 | 1.17 | 2.8 | 0.69 | 2.11 | 4.07 | 0.022 | 0.02 | < 0.01 | 0.094 | 0.015 |
| QMR2 1200 005 | QMR2-197 | 87 | 9.87 | 1 | 2.00 | 20.00 | 0.10 | 0.10 | 18.79 | 1.19 | 3.0 | 0.69 | 2.31 | 4.36 | 0.022 | 0.02 | < 0.01 | 0.038 | < 0.005 |
| QMR2 1200 005 | QMR2-198 | 160 | 9.55 | 1 | 2.02 | 20.00 | 0.10 | 0.10 | 19.25 | 1.17 | 1.9 | 0.47 | 1.43 | 4.05 | 0.015 | 0.02 | < 0.01 | 0.029 | < 0.005 |
| QMR2 1200 005 | QMR2-199 | 228 | 9.14 | 1 | 2.00 | 20.00 | 0.10 | 0.10 | 15.80 | 1.58 | 10 | 0.31 | 10.2 | 33.9 | 0.157 | < 0.01 | 0.17 | 0.037 | 0.050 |
| QMR2 1200 005 | QMR2-200 | 228 | 9.51 | 1 | 2.05 | 20.00 | 0.10 | 0.10 | 12.94 | 1.78 | 17 | 0.31 | 16.9 | 55.5 | 0.122 | < 0.01 | 0.12 | 0.120 | 0.190 |
| QMR2 1200 005 | QMR2-201 | 213 | 9.07 | 1 | 2.01 | 27.60 | 0.10 | 0.10 | 20.56 | 1.65 | 18 | 0.53 | 17.0 | 32.9 | 0.087 | 0.02 | 0.07 | 0.030 | 0.015 |
| QMR2 1200 005 | QMR2-202 | 165 | 8.97 | 1 | 2.02 | 20.00 | 0.10 | 0.10 | 15.17 | 1.93 | 12 | 0.94 | 11.1 | 12.8 | 0.050 | 0.03 | 0.02 | 0.047 | 0.025 |
| QMR2 1200 005 | QMR2-203 | 235 | 9.83 | 1 | 1.95 | 20.00 | 0.10 | 0.10 | 18.52 | 1.20 | 3.8 | 0.62 | 3.18 | 6.08 | 0.020 | 0.02 | < 0.01 | 0.046 | 0.010 |
| QMR2 1200 005 | QMR2-204 | 206 | 9.84 | 1 | 2.04 | 20.00 | 0.10 | 0.10 | 19.07 | 1.17 | 2.3 | 0.34 | 1.96 | 6.69 | 0.011 | 0.01 | < 0.01 | 0.098 | 0.010 |
| QMR2 1200 005 | QMR2-205 | 172 | 9.06 | 1 | 1.99 | 20.00 | 0.10 | 0.10 | 18.42 | 1.27 | 4.0 | 0.38 | 3.62 | 10.7 | 0.012 | 0.01 | < 0.01 | 0.020 | < 0.005 |
| QMR2 1200 005 | QMR2-206 | 242 | 9.90 | 1 | 1.97 | 20.00 | 0.10 | 0.10 | 18.52 | 1.17 | 3.8 | 0.62 | 3.18 | 6.08 | 0.030 | 0.02 | 0.01 | 0.026 | 0.010 |
| QMR2 1200 005 | QMR2-207 | 198 | 9.14 | 1 | 2.05 | 20.00 | 0.10 | 0.10 | 14.61 | 1.68 | 13 | 0.53 | 12.6 | 24.7 | 0.117 | 0.02 | 0.10 | 0.128 | 0.105 |
| QMR2 1200 005 | QMR2-208 | 179 | 9.06 | 1 | 2.02 | 20.00 | 0.10 | 0.10 | 17.89 | 1.21 | 5.2 | 0.31 | 4.89 | 16.6 | 0.010 | 0.01 | < 0.01 | 0.104 | 0.030 |
| QMR2 1225 001 | QMR2-209 | 24 | 8.87 | 2 | 2.03 | 43.00 | 0.10 | 0.10 | 12.09 | 1.81 | 76 | 0.31 | 75.8 | 245 | < 0.005 | < 0.01 | < 0.01 | 1.08 | 3.83 |
| QMR2 1225 001 | QMR2-210 | 65 | 9.08 | 2 | 2.03 | 82.60 | 0.10 | 0.10 | 19.88 | 1.79 | 154 | 0.72 | 154 | 215 | 0.023 | 0.02 | < 0.01 | 2.04 | 8.77 |
| QMR2 1225 001 | QMR2-211 | 129 | 9.17 | 2 | 2.02 | 29.80 | 0.10 | 0.10 | 13.23 | 1.82 | 41 | 0.53 | 40.5 | 77.2 | 0.037 | 0.02 | 0.02 | 0.620 | 2.03 |
| QMR2 1225 001 | QMR2-212 | 102 | 9.05 | 2 | 2.00 | 41.70 | 0.10 | 0.10 | 16.91 | 1.85 | 62 | 0.31 | 61.7 | 200 | 0.417 | < 0.01 | 0.41 | 0.797 | 2.50 |
| QMR2 1225 001 | QMR2-213 | 30 | 8.79 | 2 | 1.98 | 36.40 | 0.10 | 0.10 | 14.03 | 1.89 | 56 | 0.31 | 56.2 | 182 | 0.097 | < 0.01 | 0.09 | 0.698 | 2.23 |
| QMR2 1225 001 | QMR2-214 | 4 | 9.08 | 2 | 1.99 | 38.00 | 0.10 | 0.10 | 15.20 | 1.59 | 57 | 0.50 | 56.8 | 115 | 0.016 | 0.02 | < 0.01 | 1.01 | 2.95 |
| QMR2 1225 001 | QMR2-215 | 33 | 9.72 | 2 | 2.02 | 20.00 | 0.10 | 0.10 | 11.44 | 1.50 | 21 | 0.31 | 20.9 | 68.4 | 0.005 | < 0.01 | < 0.01 | 0.420 | 1.24 |
| QMR2 1225 001 | QMR2-216 | 91 | 9.85 | 3 | 2.03 | 38.70 | 0.10 | 0.10 | 15.12 | 1.58 | 58 | 0.47 | 57.6 | 124 | 0.015 | 0.02 | < 0.01 | 0.755 | 2.75 |
| QMR2 1225 001 | QMR2-217 | 10 | 9.47 | 2 | 2.00 | 27.30 | 0.10 | 0.10 | 13.70 | 1.56 | 34 | 0.31 | 33.7 | 110 | < 0.005 | < 0.01 | < 0.01 | 0.544 | 1.91 |
| QMR2 1225 001 | QMR2-218 | 52 | 8.91 | 3 | 1.99 | 38.80 | 0.10 | 0.10 | 15.51 | 1.59 | 58 | 0.31 | 58.2 | 189 | < 0.005 | < 0.01 | < 0.01 | 1.25 | 3.14 |
| QMR2 1225 001 | QMR2-219 | 87 | 9.11 | 3 | 2.00 | 47.70 | 0.10 | 0.10 | 13.76 | 1.82 | 85 | 0.31 | 84.6 | 274 | < 0.005 | < 0.01 | < 0.01 | 1.37 | 4.91 |
| QMR2 1225 001 | QMR2-220 | 87 | 9.15 | 2 | 2.04 | 26.00 | 0.10 | 0.10 | 11.10 | 1.64 | 36 | 0.31 | 36.2 | 118 | < 0.005 | < 0.01 | < 0.01 | 0.631 | 1.83 |
| QMR2 1225 001 | QMR2-221 | 119 | 9.47 | 2 | 1.96 | 20 | 0.1 | 0.1 | 13.6 | 1.29 | 16 | 0.31 | 16 | 52.6 | < 0.005 | < 0.01 | < 0.01 | 0.232 | 0.699 |
| QMR2 1225 001 | QMR2-222 | 7 | 8.83 | 2 | 1.97 | 29.60 | 0.10 | 0.10 | 11.53 | 1.75 | 46 | 0.41 | 45.5 | 113 | 0.013 | 0.01 | < 0.01 | 0.791 | 2.36 |
| QMR2 1225 001 | QMR2-223 | 79 | 8.84 | 2 | 1.99 | 20.00 | 0.10 | 0.10 | 12.13 | 1.44 | 20 | 0.31 | 19.5 | 63.9 | < 0.005 | < 0.01 | < 0.01 | 0.323 | 0.689 |
| QMR2 1225 001 | QMR2-224 | 114 | 8.78 | 2 | 2.04 | 34.50 | 0.10 | 0.10 | 16.81 | 1.62 | 43 | 0.31 | 43.1 | 140 | 0.008 | < 0.01 | < 0.01 | 0.834 | 1.79 |
| QMR2 1200 006 | QMR2-225 | 100 | 9 | 1.00 | 2.00 | 20.00 | 0.10 | 0.10 | 18.72 | 1.2 | 3.20 | 0.31 | 2.9 | 10.300 | 0.01 | < 0.01 | < 0.01 | 0.097 | 0 |
| QMR2 1200 006 | QMR2-226 | 82 | 9 | 1.00 | 2.01 | 20.00 | 0.10 | 0.10 | 19.09 | 1.2 | 2.30 | 0.31 | 1.99 | 7.360 | 0.01 | 0.01 | < 0.01 | 0.024 | < 0.005 |
| QMR2 1200 006 | QMR2-227 | 108 | 10 | 1.00 | 2.01 | 20.00 | 0.10 | 0.10 | 17.89 | 1.2 | 5.20 | 0.31 | 4.89 | 16.600 | 0.01 | 0.01 | < 0.01 | 0.051 | 0 |
| QMR2 1200 006 | QMR2-228 | 71 | 10 | 1.00 | 2.05 | 20.00 | 0.10 | 0.10 | 18.44 | 1.2 | 3.80 | 0.44 | 3.36 | 8.690 | 0.04 | 0.01 | 0.030 | 0.038 | 0 |
| QMR2 1200 006 | QMR2-229 | 36 | 10 | 1.00 | 2.00 | 20.00 | 0.10 | 0.10 | 18.72 | 1.2 | 3.20 | 0.88 | 2.32 | 3.660 | 0.03 | 0.03 | < 0.01 | 0.037 | < 0.005 |
| QMR2 1200 006 | QMR2-230 | X12 | 9.34 | < 0.001 | 2.01 | 20.00 | 0.10 | 0.10 | 18.28 | 1.13 | 4.30 | 0.31 | 3.99 | 13.80 | 0.02 | < 0.01 | 0.010 | 0.037 | 0 |
| QMR2 1200 006 | QMR2-231 | 17 | 9.09 | 2.00 | 2.00 | 20.00 | 0.10 | 0.10 | 15.90 | 1.23 | 10.00 | 0.31 | 9.99 | 33.20 | 0.01 | 0.01 | < 0.01 | 0.146 | 0 |
| QMR2 1200 006 | QMR2-232 | 75 | 8.95 | 2.00 | 2.01 | 20.00 | 0.10 | 0.10 | 18.73 | 1.17 | 3.20 | 0.62 | 2.58 | 5.12 | 0.02 | < 0.01 | 0.020 | 0.041 | 0 |
| QMR2 1200 006 | QMR2-233 | X20 | 8.96 | 2 | 1.96 | 20 | 0.1 | 0.1 | 18.87 | 1.13 | 2.9 | 0.31 | 2.59 | 9.28 | 0.013 | < 0.01 | 0.01 | 0.041 | 0.015 |
| QMR2 1200 006 | QMR2-234 | 47 | 8.72 | 2 | 1.95 | 20 | 0.1 | 0.1 | 17.68 | 1.17 | 5.9 | 0.62 | 5.28 | 9.44 | 0.033 | 0.01 | 0.02 | 0.079 | 0.04 |
| QMR2 1200 006 | QMR2-235 | 50 | 9.24 | 2 | 2.04 | 20 | 0.1 | 0.1 | 17.85 | 1.12 | 5.3 | 0.62 | 4.68 | 8.48 | 0.017 | < 0.01 | 0.02 | 0.038 | 0.02 |
| QMR2 1200 006 | QMR2-236 | 54 | 9.11 | 2 | 2 | 20 | 0.1 | 0.1 | 11.78 | 1.88 | 20 | 3.75 | 16.8 | 5.47 | 0.125 | < 0.01 | 0.12 | 0.224 | 0.355 |
| QMR2 1200 006 | QMR2-237 | 97 | 8.42 | 2 | 1.98 | 20 | 0.1 | 0.1 | 18.46 | 1.18 | 3.9 | 0.31 | 3.59 | 12.6 | < 0.005 | < 0.01 | < 0.01 | 0.106 | 0.02 |

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**TABLE E.6.4**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY QMR2 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014**

| Blast ID | Assay Sample ID | Hole Number | Analysis | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | | | Units | | | | | | | | | | | | | | | | |
| | | | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/ 1000 t | t CaCO3/ 1000 t | t CaCO3/ 1000 t | ratio | % | % | % | % | % |
| QMR2 1200 006 | QMR2-238 | 92 | 8.71 | 2 | 1.97 | 20 | 0.1 | 0.1 | 18.62 | 1.16 | 3.5 | 0.94 | 2.56 | 3.73 | 0.031 | < 0.01 | 0.03 | 0.053 | < 0.005 |
| QMR2 1200 006 | QMR2-239 | 21 | 9.17 | 2 | 2.03 | 20 | 0.1 | 0.1 | 18.17 | 1.18 | 4.5 | 0.62 | 3.88 | 7.2 | 0.018 | < 0.01 | 0.02 | 0.145 | 0.055 |
| QMR2 1200 006 | QMR2-240 | 21 | 9.23 | 2 | 1.96 | 20 | 0.1 | 0.1 | 18.68 | 1.13 | 3.4 | 0.31 | 3.09 | 10.9 | 0.008 | < 0.01 | 0.01 | 0.058 | 0.01 |
| QMR2 1210 016 | QMR2-241 | 41 | 9.37 | 2 | 2.05 | 20 | 0.1 | 0.1 | 18.56 | 1.11 | 3.5 | 0.31 | 3.19 | 11.3 | < 0.005 | < 0.01 | < 0.01 | 0.021 | 0.015 |
| QMR2 1210 016 | QMR2-242 | 38 | 9.53 | 2 | 2.01 | 20 | 0.1 | 0.1 | 15.21 | 1.2 | 12 | 0.31 | 11.6 | 38.4 | < 0.005 | < 0.01 | < 0.01 | 0.136 | 0.46 |
| QMR2 1210 016 | QMR2-243 | 49 | 9.41 | 2 | 1.95 | 20 | 0.1 | 0.1 | 17.14 | 1.2 | 7.3 | 0.31 | 6.99 | 23.5 | < 0.005 | < 0.01 | < 0.01 | 0.131 | 0.16 |
| QMR2 1210 016 | QMR2-244 | 32 | 9.27 | 2 | 2.01 | 20 | 0.1 | 0.1 | 18.92 | 1.11 | 2.7 | 0.31 | 2.39 | 8.64 | 0.015 | < 0.01 | 0.01 | 0.016 | 0.015 |
| QMR2 1210 016 | QMR2-245 | 75 | 8.46 | 2 | 1.98 | 20 | 0.1 | 0.1 | 15.89 | 1.28 | 10 | 0.31 | 10.1 | 33.5 | < 0.005 | < 0.01 | < 0.01 | 0.473 | 0.28 |
| QMR2 1210 016 | QMR2-246 | 92 | 9.35 | 2 | 2.01 | 20 | 0.1 | 0.1 | 18.48 | 1.15 | 3.8 | 0.31 | 3.49 | 12.3 | < 0.005 | < 0.01 | < 0.01 | 0.044 | 0.02 |
| QMR2 1210 016 | QMR2-247 | 55 | 9.03 | 2 | 2 | 40.9 | 0.1 | 0.1 | 16.99 | 1.53 | 60 | 0.31 | 59.5 | 193 | < 0.005 | < 0.01 | < 0.01 | 0.771 | 3.14 |
| QMR2 1200 007 | QMR2-248 | 59 | 9.76 | 2 | 2 | 20 | 0.1 | 0.1 | 18.18 | 1.14 | 4.6 | 0.31 | 4.29 | 14.8 | < 0.005 | < 0.01 | < 0.01 | 0.071 | 0.015 |
| QMR2 1200 007 | QMR2-249 | 48 | 9.88 | 2 | 2.03 | 20 | 0.1 | 0.1 | 18.32 | 1.18 | 4.1 | 0.31 | 3.79 | 13.2 | < 0.005 | < 0.01 | < 0.01 | 0.06 | < 0.005 |
| QMR2 1200 007 | QMR2-250 | 158 | 9.7 | 2 | 1.97 | 20 | 0.1 | 0.1 | 16.85 | 1.25 | 8 | 0.94 | 7.06 | 8.53 | 0.03 | < 0.01 | 0.03 | 0.172 | 0.035 |
| QMR2 1200 007 | QMR2-251 | 96 | 8.55 | 1 | 1.96 | 26.5 | 0.1 | 0.1 | 15.62 | 1.59 | 28 | 5.62 | 22.2 | 4.94 | 0.185 | < 0.01 | 0.18 | 0.208 | 0.56 |
| QMR2 1200 007 | QMR2-252 | 37 | 9.19 | 1 | 1.99 | 20 | 0.1 | 0.1 | 15.01 | 1.23 | 12 | 0.94 | 11.6 | 13.3 | 0.027 | < 0.01 | 0.03 | 0.432 | 0.335 |
| QMR2 1200 007 | QMR2-253 | 214 | 9.88 | 1 | 1.99 | 20 | 0.1 | 0.1 | 17.96 | 1.13 | 5.1 | 0.62 | 4.48 | 8.16 | 0.026 | < 0.01 | 0.02 | 0.053 | 0.015 |
| QMR2 1200 007 | QMR2-254 | 179 | 9.24 | 1 | 2.05 | 20 | 0.1 | 0.1 | 13.28 | 1.76 | 16 | 9.69 | 6.71 | 1.69 | 0.353 | 0.04 | 0.31 | 0.112 | 0.125 |
| QMR2 1200 007 | QMR2-255 | 143 | 9.31 | 1 | 1.97 | 20 | 0.1 | 0.1 | 16.11 | 1.2 | 9.9 | 1.56 | 8.34 | 6.34 | 0.047 | < 0.01 | 0.05 | 0.092 | 0.05 |
| QMR2 1200 007 | QMR2-256 | 86 | 8.92 | 1 | 2.04 | 20 | 0.1 | 0.1 | 16.53 | 1.14 | 8.5 | 2.5 | 6 | 3.4 | 0.071 | < 0.01 | 0.08 | 0.037 | 0.03 |
| QMR2 1200 007 | QMR2-257 | 201 | 9.28 | 1 | 2 | 20 | 0.1 | 0.1 | 18.31 | 1.05 | 4.2 | 0.94 | 3.26 | 4.48 | 0.034 | < 0.01 | 0.03 | 0.066 | 0.01 |
| QMR2 1200 007 | QMR2-258 | 132 | 9.41 | 1 | 1.99 | 20 | 0.1 | 0.1 | 18.3 | 1.11 | 4.3 | 1.56 | 2.74 | 2.75 | 0.06 | 0.01 | 0.05 | 0.057 | 0.02 |
| QMR2 1200 007 | QMR2-259 | 192 | 9.33 | 1 | 2.02 | 20 | 0.1 | 0.1 | 18.4 | 1.09 | 4 | 0.62 | 3.38 | 6.4 | 0.025 | 0.02 | 0.02 | 0.083 | < 0.005 |
| QMR2 1200 007 | QMR2-260 | 192 | 9.3 | 1 | 2.02 | 20 | 0.1 | 0.1 | 18.08 | 1.11 | 4.7 | 0.62 | 4.08 | 7.52 | 0.029 | 0.03 | 0.02 | 0.159 | 0.035 |
| QMR2 1225 002 | QMR2-261 | 179 | 9.02 | 4 | 1.97 | 123.4 | 0.1 | 0.1 | 39.66 | 1.59 | 212 | 0.31 | 212 | 680 | 0.013 | 0.01 | 0.01 | 2.54 | 12 |
| QMR2 1225 002 | QMR2-262 | 211 | 9.21 | 1 | 1.98 | 20 | 0.1 | 0.1 | 16.33 | 1.1 | 9.3 | 0.31 | 8.99 | 29.8 | 0.016 | 0.02 | 0.01 | 0.142 | 0.185 |
| QMR2 1225 002 | QMR2-263 | 139 | 9.21 | 1 | 2.03 | 20 | 0.1 | 0.1 | 10.04 | 1.42 | 24 | 0.31 | 24.2 | 79 | 0.006 | < 0.01 | < 0.01 | 0.388 | 0.974 |
| QMR2 1225 002 | QMR2-264 | 132 | 9.24 | 3 | 1.98 | 20 | 0.1 | 0.1 | 7.15 | 1.75 | 32 | 0.31 | 32.1 | 105 | < 0.005 | < 0.01 | < 0.01 | 0.509 | 1.54 |
| QMR2 1225 002 | QMR2-265 | 258 | 9.06 | 1 | 2.02 | 20 | 0.1 | 0.1 | 15.03 | 1.22 | 12 | 0.31 | 12 | 39.7 | < 0.005 | < 0.01 | < 0.01 | 0.283 | 0.39 |
| QMR2 1225 002 | QMR2-266 | 317 | 9.68 | 1 | 2.01 | 41.7 | 0.1 | 0.1 | 27.94 | 1.54 | 34 | 9.06 | 25.1 | 3.77 | 0.28 | < 0.01 | 0.29 | 0.341 | 0.899 |
| QMR2 1225 002 | QMR2-267 | 322 | 9.35 | 1 | 1.98 | 20 | 0.1 | 0.1 | 14.66 | 1.28 | 14 | 0.94 | 12.6 | 14.4 | 0.027 | < 0.01 | 0.03 | 0.133 | 0.325 |
| QMR2 1225 002 | QMR2-268 | 287 | 9.07 | 4 | 2.02 | 55.8 | 0.1 | 0.1 | 22.46 | 1.51 | 82 | 0.31 | 82.2 | 264 | 0.014 | 0.01 | 0.01 | 1.18 | 4.4 |
| QMR2 1225 002 | QMR2-269 | 171 | 8.94 | 3 | 1.99 | 70.3 | 0.1 | 0.1 | 25.5 | 1.56 | 113 | 0.31 | 112 | 360 | 0.011 | 0.01 | 0.01 | 1.53 | 6.04 |
| QMR2 1225 002 | QMR2-270 | 153 | 8.53 | 4 | 2.01 | 88.8 | 0.1 | 0.1 | 29.26 | 1.59 | 148 | 0.62 | 147 | 237 | 0.013 | 0.01 | 0.02 | 2.3 | 7.99 |
| QMR2 1225 002 | QMR2-271 | 49 | 8.74 | 4 | 1.96 | 86.6 | 0.1 | 0.1 | 23.05 | 1.73 | 162 | 0.31 | 162 | 519 | 0.013 | 0.01 | 0.01 | 3.01 | 8.31 |
| QMR2 1225 002 | QMR2-272 | 83 | 9.01 | 3 | 2 | 29 | 0.1 | 0.1 | 10.53 | 1.65 | 46 | 0.31 | 45.9 | 149 | < 0.005 | < 0.01 | < 0.01 | 0.843 | 2.35 |
| QMR2 1190 012 | R570351 | 91 | | | | | | | | | | | | | 0.01 | | | 0.02 | |
| QMR2 1190 012 | R570352 | 109 | | | | | | | | | | | | | 0.04 | | | 0.11 | |
| QMR2 1190 012 | R570353 | 55 | | | | | | | | | | | | | 0.03 | | | 0.01 | |
| QMR2 1190 012 | R570354 | 119D | | | | | | | | | | | | | 0.03 | | | 0.08 | |
| QMR2 1190 012 | R570355 | 38 | | | | | | | | | | | | | 0.01 | | | 0.01 | |
| QMR2 1190 012 | R570356 | 47 | | | | | | | | | | | | | 0.07 | | | 0.12 | |
| QMR2 1190 012 | R570357 | 145 | | | | | | | | | | | | | 0.2 | | | 0.07 | |
| QMR2 1190 012 | R570358 | 125 | | | | | | | | | | | | | 0.01 | | | 0.04 | |
| QMR2 1190 012 | R570359 | 157 | | | | | | | | | | | | | 0.03 | | | 0.02 | |
| QMR2 1190 012 | R570360 | 134 | | | | | | | | | | | | | 0.02 | | | 0.01 | |
| QMR2 1190 012 | R570361 | 163 | | | | | | | | | | | | | 0.07 | | | 0.03 | |
| QMR2 1190 012 | R570362 | 91D | | | | | | | | | | | | | 0.01 | | | 0.01 | |

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**TABLE E.6.4**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY QMR2 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014**

| Blast ID | Assay Sample ID | Hole Number | Analysis | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | | | Units | | | | | | | | | | | | | | | | |
| | | | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/ 1000 t | t CaCO3/ 1000 t | t CaCO3/ 1000 t | ratio | % | % | % | % | % |
| QMR2 1190 012 | R570363 | 13 | | | | | | | | | | | | | 0.23 | | | 0.05 | |
| QMR2 1190 012 | R570364 | 61 | | | | | | | | | | | | | <0.01 | | | 0.01 | |
| QMR2 1190 012 | R570338 | 28 | | | | | | | | | | | | | 0.03 | | | 0.06 | |
| QMR2 1190 012 | R570339 | 131 | | | | | | | | | | | | | 0.01 | | | 0.02 | |
| QMR2 1190 012 | R570340 | 22 | | | | | | | | | | | | | 0.24 | | | 0.07 | |
| QMR2 1190 012 | R570341 | 153 | | | | | | | | | | | | | 0.01 | | | 0.02 | |
| QMR2 1190 012 | R570342 | 171 | | | | | | | | | | | | | 0.03 | | | 0.03 | |
| QMR2 1190 012 | R570343 | 104 | | | | | | | | | | | | | 0.01 | | | 0.04 | |
| QMR2 1190 012 | R570344 | 49 | | | | | | | | | | | | | 0.19 | | | 0.12 | |
| QMR2 1190 012 | R570345 | 44 | | | | | | | | | | | | | 0.01 | | | 0.02 | |
| QMR2 1190 012 | R570346 | 98 | | | | | | | | | | | | | 0.02 | | | 0.03 | |
| QMR2 1190 012 | R570347 | 79 | | | | | | | | | | | | | 0.01 | | | 0.05 | |
| QMR2 1190 012 | R570348 | 85 | | | | | | | | | | | | | 0.04 | | | 0.02 | |
| QMR2 1190 012 | R570349 | 119 | | | | | | | | | | | | | 0.02 | | | 0.09 | |
| QMR2 1190 012 | R570350 | 24 | | | | | | | | | | | | | 0.01 | | | 0.04 | |
| QMR2 1190 013 | R570074 | 2 | | | | | | | | | | | | | 0.04 | | | 0.03 | |
| QMR2 1190 013 | R570075 | 5 | | | | | | | | | | | | | 0.05 | | | 0.04 | |
| QMR2 1190 013 | R570076 | 5B | | | | | | | | | | | | | <0.01 | | | 0.01 | |
| QMR2 1190 013 | R570077 | 8 | | | | | | | | | | | | | <0.01 | | | 0.02 | |
| QMR2 1190 013 | R570078 | 30 | | | | | | | | | | | | | 0.01 | | | 0.01 | |
| QMR2 1190 013 | R570079 | 34 | | | | | | | | | | | | | <0.01 | | | 0.03 | |
| QMR2 1190 013 | R570080 | 38 | | | | | | | | | | | | | 0.01 | | | 0.01 | |
| QMR2 1190 013 | R570081 | 42 | | | | | | | | | | | | | 0.02 | | | 0.03 | |
| QMR2 1190 013 | R570082 | 56 | | | | | | | | | | | | | <0.01 | | | 0.01 | |
| QMR2 1190 013 | R570083 | 66 | | | | | | | | | | | | | 0.01 | | | 0.02 | |
| QMR2 1190 013 | R570084 | 71 | | | | | | | | | | | | | 0.02 | | | 0.07 | |
| QMR2 1190 013 | R570085 | 76 | | | | | | | | | | | | | 0.02 | | | 0.01 | |
| QMR2 1190 013 | R570086 | 81 | | | | | | | | | | | | | 0.05 | | | 0.01 | |
| QMR2 1190 013 | R571476 | 10 | | | | | | | | | | | | | 0.05 | | | 0.03 | |
| QMR2 1190 013 | R571477 | 62 | | | | | | | | | | | | | 0.01 | | | 0.01 | |
| QMR2 1190 013 | R571478 | 37 | | | | | | | | | | | | | 0.02 | | | 0.02 | |
| QMR2 1190 013 | R571479 | 84 | | | | | | | | | | | | | 0.02 | | | 0.04 | |
| QMR2 1190 013 | R571480 | 84 | | | | | | | | | | | | | 0.02 | | | 0.03 | |
| QMR2 1190 013 | R571481 | 51 | | | | | | | | | | | | | 0.03 | | | 0.02 | |
| QMR2 1190 013 | R571482 | 77 | | | | | | | | | | | | | 0.01 | | | 0.03 | |
| QMR2 1190 014 | R571476 | 10 | | | | | | | | | | | | | 0.05 | | | 0.03 | |
| QMR2 1190 014 | R571477 | 62 | | | | | | | | | | | | | 0.01 | | | 0.01 | |
| QMR2 1190 014 | R571478 | 37 | | | | | | | | | | | | | 0.02 | | | 0.02 | |
| QMR2 1190 014 | R571479 | 84 | | | | | | | | | | | | | 0.02 | | | 0.04 | |
| QMR2 1190 014 | R571480 | 84 | | | | | | | | | | | | | 0.02 | | | 0.03 | |
| QMR2 1190 014 | R571481 | 51 | | | | | | | | | | | | | 0.03 | | | 0.02 | |
| QMR2 1190 014 | R571482 | 77 | | | | | | | | | | | | | 0.01 | | | 0.03 | |
| QMR2 1190 014 | R571580 | 19 | | | | | | | | | | | | | <0.01 | | | 0.03 | |
| QMR2 1190 014 | R571581 | 28 | | | | | | | | | | | | | <0.01 | | | 0.01 | |

Baffinland

**TABLE E.6.5**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT**

**QUARRY D1Q2 GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2014 - SUMMARY STATISTICS**

| | Analysis | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Paste pH | Fizz Rate | Sample weight | HCl added | HCl | NaOH | Vol NaOH to pH=8.3 | Final pH | NP | AP | Net NP | NP/AP | S | Acid Leachable SO4-S | Sulphide | C | CO3 |
| | Units | | | | | | | | | | | | | | | | | |
| | --- | --- | g | mL | Normality | Normality | mL | --- | t CaCO3/1000 t | t CaCO3/1000 t | t CaCO3/1000 t | ratio | % | % | % | % | % |
| COUNT | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 22 | 14 | 11 | 25 | 25 |
| MIN | 7.36 | 1 | 1.94 | 20 | 0.1 | 0.1 | 8.72 | 1.08 | 4.1 | 0.31 | 3.26 | 2.7 | 0.005 | 0.01 | 0.01 | 0.02 | 0.015 |
| MAX | 9.73 | 3 | 2.05 | 50.6 | 0.1 | 0.1 | 19.43 | 1.85 | 84 | 1.88 | 84 | 272 | 0.116 | 0.04 | 0.1 | 1.08 | 4.5 |
| MEAN | 9.223 | 1.760 | 1.993 | 26.352 | 0.100 | 0.100 | 13.938 | 1.528 | 31.140 | 0.660 | 30.569 | 91.362 | 0.042 | 0.024 | 0.047 | 0.385 | 1.376 |