



July 24, 2020

Sarah Richman
Arizona Minerals Inc.
2210 E. Fort Lowell Rd
Tucson, AZ 85719

TEL (805) 617-9300
FAX

Work Order No.: 20F0174

RE: AMI Non Discharge WTP

Dear Sarah Richman,

Turner Laboratories, Inc. received 1 sample(s) on 06/03/2020 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Arizona Minerals Inc.
Project: AMI Non Discharge WTP
Work Order: 20F0174
Date Received: 06/03/2020

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date/Time |
|----------------------|-------------------------|-------------------|-----------------------------|
| 20F0174-01 | POC-2-06022020 | Non-Potable Water | 06/02/2020 0951 |

Client: Arizona Minerals Inc.
Project: AMI Non Discharge WTP
Work Order: 20F0174
Date Received: 06/03/2020

Case Narrative

The radiochemistry analysis was performed by Radiation Safety Engineering, Inc. in Chandler, AZ.

This report has been revised to report Thallium to the MDL.

- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- H2 Initial analysis was performed within holding time. Reanalysis for the required dilution was past holding time.
- H5 This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
- L1 The associated LCS/LCSD recovery was above laboratory acceptance limits.
- L5 The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample.
- M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- R1 RPD/RSD exceeded the method acceptance limit. See case narrative.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

Client: Arizona Minerals Inc.
Project: AMI Non Discharge WTP
Work Order: 20F0174
Lab Sample ID: 20F0174-01

Client Sample ID: POC-2-06022020
Collection Date/Time: 06/02/2020 0951
Matrix: Non-Potable Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|-----------|---------|--------|-------|-----|-----------------|-----------------|---------|
| Hardness-Calculation | | | | | | | | | |
| Hardness, Calcium/Magnesium (As CaCO3) | 1800 | | | | mg/L | 1 | 06/05/2020 0830 | 06/09/2020 1110 | MH |
| Nitrate + Nitrite Sum-Calculation | | | | | | | | | |
| Nitrate and Nitrite Sum | ND | | 0.10 | | mg/L | 1 | 06/03/2020 1430 | 06/11/2020 2100 | JG |
| ICP Dissolved Metals-E 200.7 (4.4) | | | | | | | | | |
| Iron | 0.83 | | 0.30 | | mg/L | 1 | 06/04/2020 0900 | 06/08/2020 1351 | MH |
| ICP/MS Dissolved Metals-E 200.8 (5.4) | | | | | | | | | |
| Antimony | 0.00051 | 0.00039 | 0.0050 | E4 | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Arsenic | 0.0062 | | 0.0050 | | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Barium | 0.021 | | 0.0050 | | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Beryllium | 0.00056 | 0.00013 | 0.0025 | E4 | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Cadmium | 0.0076 | | 0.0025 | | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Chromium | 0.0043 | 0.00023 | 0.0050 | E4 | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Copper | ND | 0.0015 | 0.0050 | E8 | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Lead | 0.00091 | 0.00057 | 0.0050 | E4 | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Manganese | 21 | | 0.025 | M3 | mg/L | 100 | 06/04/2020 0900 | 06/05/2020 1156 | MH |
| Nickel | 0.059 | | 0.0050 | | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Selenium | 0.0040 | 0.0025 | 0.025 | E4 | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Thallium | 0.00058 | 0.00023 | 0.0050 | E4 | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| Zinc | 3.7 | 0.023 | 0.40 | E4 | mg/L | 10 | 06/04/2020 0900 | 06/05/2020 1113 | MH |
| CVAA Dissolved Mercury-E 245.1 | | | | | | | | | |
| Mercury | ND | 0.0000041 | 0.00050 | E8, L5 | mg/L | 1 | 06/09/2020 1130 | 06/09/2020 1514 | MH |
| ICP Total Metals-E200.7 (4.4) | | | | | | | | | |
| Calcium | 430 | | 4.0 | M3 | mg/L | 1 | 06/05/2020 0830 | 06/09/2020 1110 | MH |
| Iron | 1.1 | | 0.30 | | mg/L | 1 | 06/05/2020 0830 | 06/09/2020 1110 | MH |
| Magnesium | 180 | | 3.0 | M3 | mg/L | 1 | 06/05/2020 0830 | 06/09/2020 1110 | MH |
| ICP/MS Total Metals-E200.8 (5.4) | | | | | | | | | |

Client: Arizona Minerals Inc.
Project: AMI Non Discharge WTP
Work Order: 20F0174
Lab Sample ID: 20F0174-01

Client Sample ID: POC-2-06022020
Collection Date/Time: 06/02/2020 0951
Matrix: Non-Potable Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|-----------|---------|----------|---------|------|-------|-----|-----------------|-----------------|---------|
| Antimony | 0.00041 | 0.000039 | 0.00050 | E4 | mg/L | 1 | 06/05/2020 0845 | 06/08/2020 1358 | CR |
| Arsenic | 0.0051 | | 0.00050 | | mg/L | 1 | 06/05/2020 0845 | 06/08/2020 1358 | CR |
| Barium | 0.017 | | 0.0050 | | mg/L | 10 | 06/05/2020 0845 | 06/08/2020 1342 | CR |
| Beryllium | 0.00080 | 0.00013 | 0.0025 | E4 | mg/L | 10 | 06/05/2020 0845 | 06/08/2020 1342 | CR |
| Cadmium | 0.0085 | | 0.0025 | | mg/L | 10 | 06/05/2020 0845 | 06/08/2020 1342 | CR |
| Chromium | 0.00072 | | 0.00050 | | mg/L | 1 | 06/05/2020 0845 | 06/08/2020 1358 | CR |
| Copper | 0.00036 | 0.00015 | 0.00050 | E4 | mg/L | 1 | 06/05/2020 0845 | 06/08/2020 1358 | CR |
| Lead | 0.0051 | | 0.0050 | | mg/L | 10 | 06/05/2020 0845 | 06/08/2020 1342 | CR |
| Manganese | 20 | | 0.025 | | mg/L | 100 | 06/05/2020 0845 | 06/08/2020 1210 | CR |
| Nickel | 0.060 | | 0.0050 | | mg/L | 10 | 06/05/2020 0845 | 06/09/2020 1301 | CR |
| Selenium | 0.00049 | 0.00025 | 0.0015 | E4 | mg/L | 1 | 06/05/2020 0845 | 06/08/2020 1358 | CR |
| Thallium | 0.00011 | 0.000023 | 0.00050 | E4 | mg/L | 1 | 06/05/2020 0845 | 06/08/2020 1358 | CR |
| Zinc | 4.0 | | 0.40 | | mg/L | 10 | 06/05/2020 0845 | 06/08/2020 1342 | CR |

CVAA Total Mercury-E245.1

| | | | | | | | | | |
|---------|----|----------|---------|----|------|---|-----------------|-----------------|----|
| Mercury | ND | 0.000041 | 0.00050 | E8 | mg/L | 1 | 06/04/2020 0925 | 06/04/2020 1429 | MH |
|---------|----|----------|---------|----|------|---|-----------------|-----------------|----|

Anions by Ion Chromatography-E300.0 (2.1)

| | | | | | | | | | |
|--------------------------|------|--|------|----|------|-----|-----------------|-----------------|----|
| Fluoride | 0.75 | | 0.50 | | mg/L | 1 | 06/03/2020 1430 | 06/03/2020 1746 | EJ |
| Nitrogen, Nitrate (As N) | ND | | 0.50 | | mg/L | 1 | 06/03/2020 1430 | 06/03/2020 1746 | EJ |
| Nitrogen, Nitrite (As N) | ND | | 0.10 | H2 | mg/L | 1 | 06/03/2020 1430 | 06/11/2020 2100 | JG |
| Sulfate | 1900 | | 500 | | mg/L | 100 | 06/03/2020 1430 | 06/11/2020 2117 | JG |

Alkalinity-SM2320B

| | | | | | | | | | |
|------------------------------------|-----|--|-----|--|------|---|-----------------|-----------------|-----|
| Alkalinity, Bicarbonate (As CaCO3) | 170 | | 2.0 | | mg/L | 1 | 06/05/2020 0900 | 06/05/2020 1526 | CWB |
| Alkalinity, Carbonate (As CaCO3) | ND | | 2.0 | | mg/L | 1 | 06/05/2020 0900 | 06/05/2020 1526 | CWB |
| Alkalinity, Hydroxide (As CaCO3) | ND | | 2.0 | | mg/L | 1 | 06/05/2020 0900 | 06/05/2020 1526 | CWB |
| Alkalinity, Total (As CaCO3) | 170 | | 2.0 | | mg/L | 1 | 06/05/2020 0900 | 06/05/2020 1526 | CWB |

Specific Conductance-SM2510 B

| | | | | | | | | | |
|--------------|------|--|------|--|----------|---|-----------------|-----------------|----|
| Conductivity | 4000 | | 0.50 | | µmhos/cm | 5 | 06/04/2020 1115 | 06/04/2020 1130 | CW |
|--------------|------|--|------|--|----------|---|-----------------|-----------------|----|

Total Dissolved Solids (Residue, Filterable)-SM2540 C

| | | | | | | | | | |
|--|------|--|----|--|------|---|-----------------|-----------------|-----|
| Total Dissolved Solids (Residue, Filterable) | 2900 | | 20 | | mg/L | 1 | 06/04/2020 1700 | 06/09/2020 0840 | CWB |
|--|------|--|----|--|------|---|-----------------|-----------------|-----|

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Work Order: 20F0174
Lab Sample ID: 20F0174-01

Client Sample ID: POC-2-06022020
Collection Date/Time: 06/02/2020 0951
Matrix: Non-Potable Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|-----------------------------|--------|-----|------|------|-------|----|-----------------|-----------------|---------|
| Cyanide-SM4500-CN BE | | | | | | | | | |
| Cyanide | ND | | 0.10 | | mg/L | 1 | 06/15/2020 0830 | 06/16/2020 1650 | JG |
| pH-SM4500-H+ B | | | | | | | | | |
| pH (pH Units) | 6.6 | | | H5 | - | 1 | 06/04/2020 1030 | 06/04/2020 1038 | CW |
| Temperature (°C) | 23 | | | H5 | - | 1 | 06/04/2020 1030 | 06/04/2020 1038 | CW |

Client: Arizona Minerals Inc.
Project: AMI Non Discharge WTP
Work Order: 20F0174
Date Received: 06/03/2020

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--------------------------------------|----------|-----------------|-------|---------------------------------|---------------|---------------------------------|-------------|-----|-----------|------|
| Batch 2006005 - E 200.7 (4.4) | | | | | | | | | | |
| Blank (2006005-BLK1) | | | | Prepared & Analyzed: 06/08/2020 | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| LCS (2006005-BS1) | | | | Prepared & Analyzed: 06/08/2020 | | | | | | |
| Iron | 0.99 | 0.30 | mg/L | 1.000 | | 99 | 85-115 | | | |
| LCS Dup (2006005-BSD1) | | | | Prepared & Analyzed: 06/08/2020 | | | | | | |
| Iron | 0.95 | 0.30 | mg/L | 1.000 | | 95 | 85-115 | 4 | 20 | |
| Matrix Spike (2006005-MS1) | | | | Source: 20E0596-01 | | Prepared & Analyzed: 06/08/2020 | | | | |
| Iron | 0.96 | 0.30 | mg/L | 1.000 | 0.014 | 94 | 70-130 | | | |
| Batch 2006050 - E 200.8 (5.4) | | | | | | | | | | |
| Blank (2006050-BLK1) | | | | Prepared & Analyzed: 06/05/2020 | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Barium | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | 0.000030 | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (2006050-BS1) | | | | Prepared & Analyzed: 06/05/2020 | | | | | | |
| Antimony | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | | 103 | 85-115 | | | |
| Barium | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| Beryllium | 0.052 | 0.00025 | mg/L | 0.05000 | | 104 | 85-115 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Chromium | 0.051 | 0.00050 | mg/L | 0.05000 | | 103 | 85-115 | | | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 103 | 85-115 | | | |
| Lead | 0.052 | 0.00050 | mg/L | 0.05000 | | 104 | 85-115 | | | |
| Manganese | 0.053 | 0.00025 | mg/L | 0.05000 | | 106 | 85-115 | | | |
| Nickel | 0.052 | 0.00050 | mg/L | 0.05000 | | 104 | 85-115 | | | |
| Selenium | 0.051 | 0.0025 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| Thallium | 0.054 | 0.00050 | mg/L | 0.05000 | | 108 | 85-115 | | | |
| Zinc | 0.11 | 0.040 | mg/L | 0.1000 | | 108 | 85-115 | | | |

Client: Arizona Minerals Inc.
Project: AMI Non Discharge WTP
Work Order: 20F0174
Date Received: 06/03/2020

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|--|----------|---------------------------|-------|---------------------------------|---------------------------------|-----------|-------------|---------|-----------|------|
| Batch 2006050 - E 200.8 (5.4) | | | | | | | | | | |
| LCS Dup (2006050-BSD1) | | | | Prepared & Analyzed: 06/05/2020 | | | | | | |
| Antimony | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 0.2 | 20 | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 0.6 | 20 | |
| Barium | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.6 | 20 | |
| Beryllium | 0.054 | 0.00025 | mg/L | 0.05000 | | 108 | 85-115 | 4 | 20 | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | | 97 | 85-115 | 2 | 20 | |
| Chromium | 0.052 | 0.00050 | mg/L | 0.05000 | | 104 | 85-115 | 1 | 20 | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 1 | 20 | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 5 | 20 | |
| Manganese | 0.053 | 0.00025 | mg/L | 0.05000 | | 106 | 85-115 | 0.1 | 20 | |
| Nickel | 0.054 | 0.00050 | mg/L | 0.05000 | | 107 | 85-115 | 3 | 20 | |
| Selenium | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 1 | 20 | |
| Thallium | 0.052 | 0.00050 | mg/L | 0.05000 | | 105 | 85-115 | 3 | 20 | |
| Zinc | 0.11 | 0.040 | mg/L | 0.1000 | | 110 | 85-115 | 2 | 20 | |
| Matrix Spike (2006050-MS1) | | | | | | | | | | |
| | | Source: 20F0174-01 | | | Prepared & Analyzed: 06/05/2020 | | | | | |
| Antimony | 0.049 | 0.0050 | mg/L | 0.05000 | 0.00051 | 97 | 70-130 | | | |
| Arsenic | 0.055 | 0.0050 | mg/L | 0.05000 | 0.0062 | 97 | 70-130 | | | |
| Barium | 0.064 | 0.0050 | mg/L | 0.05000 | 0.021 | 86 | 70-130 | | | |
| Beryllium | 0.050 | 0.0025 | mg/L | 0.05000 | 0.00056 | 99 | 70-130 | | | |
| Cadmium | 0.054 | 0.0025 | mg/L | 0.05000 | 0.0076 | 94 | 70-130 | | | |
| Chromium | 0.050 | 0.0050 | mg/L | 0.05000 | 0.0043 | 91 | 70-130 | | | |
| Copper | 0.043 | 0.0050 | mg/L | 0.05000 | ND | 86 | 70-130 | | | |
| Lead | 0.045 | 0.0050 | mg/L | 0.05000 | 0.00091 | 88 | 70-130 | | | |
| Manganese | 20 | 0.025 | mg/L | 0.05000 | 21 | NR | 70-130 | | | |
| Nickel | 0.11 | 0.0050 | mg/L | 0.05000 | 0.059 | 100 | 70-130 | | | |
| Selenium | 0.049 | 0.025 | mg/L | 0.05000 | 0.0040 | 90 | 70-130 | | | |
| Thallium | 0.047 | 0.0050 | mg/L | 0.05000 | 0.00058 | 94 | 70-130 | | | |
| Zinc | 3.8 | 0.40 | mg/L | 0.1000 | 3.7 | 76 | 70-130 | | | |
| Batch 2006055 - E245.1 | | | | | | | | | | |
| Blank (2006055-BLK1) | | | | Prepared & Analyzed: 06/04/2020 | | | | | | |
| Mercury | 0.000058 | 0.00050 | mg/L | | | | | | | |
| LCS (2006055-BS1) | | | | Prepared & Analyzed: 06/04/2020 | | | | | | |
| Mercury | 0.0053 | 0.00050 | mg/L | 0.005000 | | 106 | 85-115 | | | |
| LCS Dup (2006055-BSD1) | | | | Prepared & Analyzed: 06/04/2020 | | | | | | |
| Mercury | 0.0053 | 0.00050 | mg/L | 0.005000 | | 105 | 85-115 | 0.1 | 20 | |
| Matrix Spike (2006055-MS1) | | | | Prepared & Analyzed: 06/04/2020 | | | | | | |
| | | Source: 20E0554-01 | | | | | | | | |
| Mercury | 0.0052 | 0.00050 | mg/L | 0.005000 | 0.000079 | 103 | 70-130 | | | |
| Matrix Spike (2006055-MS2) | | | | Prepared & Analyzed: 06/04/2020 | | | | | | |
| | | Source: 20F0142-01 | | | | | | | | |
| Mercury | 0.0052 | 0.00050 | mg/L | 0.005000 | ND | 104 | 70-130 | | | |
| Matrix Spike Dup (2006055-MSD1) | | | | Prepared & Analyzed: 06/04/2020 | | | | | | |
| | | Source: 20E0554-01 | | | | | | | | |
| Mercury | 0.0053 | 0.00050 | mg/L | 0.005000 | 0.000079 | 104 | 70-130 | 1 | 20 | |
| Matrix Spike Dup (2006055-MSD2) | | | | Prepared & Analyzed: 06/04/2020 | | | | | | |
| | | Source: 20F0142-01 | | | | | | | | |
| Mercury | 0.0056 | 0.00050 | mg/L | 0.005000 | ND | 111 | 70-130 | 7 | 20 | |

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Project: AMI Non Discharge WTP
Work Order: 20F0174
Date Received: 06/03/2020

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|---------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
| Batch 2006075 - E200.7 (4.4) | | | | | | | | | | |
| Blank (2006075-BLK1) Prepared: 06/05/2020 Analyzed: 06/09/2020 | | | | | | | | | | |
| Calcium | ND | 4.0 | mg/L | | | | | | | |
| Iron | 0.0046 | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| LCS (2006075-BS1) Prepared: 06/05/2020 Analyzed: 06/09/2020 | | | | | | | | | | |
| Calcium | 9.8 | 4.0 | mg/L | 10.00 | | 98 | 85-115 | | | |
| Iron | 0.99 | 0.30 | mg/L | 1.000 | | 99 | 85-115 | | | |
| Magnesium | 9.9 | 3.0 | mg/L | 10.00 | | 99 | 85-115 | | | |
| LCS Dup (2006075-BSD1) Prepared: 06/05/2020 Analyzed: 06/09/2020 | | | | | | | | | | |
| Calcium | 9.5 | 4.0 | mg/L | 10.00 | | 95 | 85-115 | 4 | 20 | |
| Iron | 0.96 | 0.30 | mg/L | 1.000 | | 96 | 85-115 | 2 | 20 | |
| Magnesium | 9.7 | 3.0 | mg/L | 10.00 | | 97 | 85-115 | 2 | 20 | |
| Matrix Spike (2006075-MS1) Source: 20F0174-01 Prepared: 06/05/2020 Analyzed: 06/09/2020 | | | | | | | | | | |
| Calcium | 430 | 4.0 | mg/L | 10.00 | 430 | NR | 70-130 | | | M3 |
| Iron | 2.0 | 0.30 | mg/L | 1.000 | 1.1 | 89 | 70-130 | | | |
| Magnesium | 180 | 3.0 | mg/L | 10.00 | 180 | 28 | 70-130 | | | M3 |
| Batch 2006076 - E200.8 (5.4) | | | | | | | | | | |
| Blank (2006076-BLK1) Prepared: 06/05/2020 Analyzed: 06/08/2020 | | | | | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Barium | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | 0.00017 | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0015 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (2006076-BS1) Prepared: 06/05/2020 Analyzed: 06/08/2020 | | | | | | | | | | |
| Antimony | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Arsenic | 0.052 | 0.00050 | mg/L | 0.05000 | | 104 | 85-115 | | | |
| Barium | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Beryllium | 0.048 | 0.00025 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Chromium | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Lead | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Manganese | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Nickel | 0.054 | 0.00050 | mg/L | 0.05000 | | 108 | 85-115 | | | |
| Selenium | 0.052 | 0.0015 | mg/L | 0.05000 | | 104 | 85-115 | | | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Zinc | 0.11 | 0.040 | mg/L | 0.1000 | | 107 | 85-115 | | | |

Client: Arizona Minerals Inc.
Project: AMI Non Discharge WTP
Work Order: 20F0174
Date Received: 06/03/2020

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|---------------------------|-------|---|---------------|------|-------------|-----|-----------|------|
| Batch 2006076 - E200.8 (5.4) | | | | | | | | | | |
| LCS Dup (2006076-BSD1) | | | | Prepared: 06/05/2020 Analyzed: 06/08/2020 | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 1 | 20 | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 2 | 20 | |
| Barium | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 1 | 20 | |
| Beryllium | 0.048 | 0.00025 | mg/L | 0.05000 | | 96 | 85-115 | 1 | 20 | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | 1 | 20 | |
| Chromium | 0.052 | 0.00050 | mg/L | 0.05000 | | 104 | 85-115 | 2 | 20 | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.4 | 20 | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 1 | 20 | |
| Manganese | 0.051 | 0.00025 | mg/L | 0.05000 | | 102 | 85-115 | 1 | 20 | |
| Nickel | 0.054 | 0.00050 | mg/L | 0.05000 | | 108 | 85-115 | 0.5 | 20 | |
| Selenium | 0.052 | 0.0015 | mg/L | 0.05000 | | 105 | 85-115 | 0.6 | 20 | |
| Thallium | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 0.6 | 20 | |
| Zinc | 0.11 | 0.040 | mg/L | 0.1000 | | 106 | 85-115 | 1 | 20 | |
| Matrix Spike (2006076-MS1) | | | | | | | | | | |
| | | Source: 20F0086-01 | | Prepared: 06/05/2020 Analyzed: 06/08/2020 | | | | | | |
| Antimony | 0.049 | 0.00050 | mg/L | 0.05000 | 0.000072 | 98 | 70-130 | | | |
| Arsenic | 0.052 | 0.00050 | mg/L | 0.05000 | 0.00033 | 104 | 70-130 | | | |
| Barium | 0.33 | 0.00050 | mg/L | 0.05000 | 0.28 | 92 | 70-130 | | | |
| Beryllium | 0.046 | 0.00025 | mg/L | 0.05000 | ND | 92 | 70-130 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | 0.000053 | 101 | 70-130 | | | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | 0.0010 | 98 | 70-130 | | | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | 0.0017 | 95 | 70-130 | | | |
| Lead | 0.052 | 0.00050 | mg/L | 0.05000 | 0.00047 | 102 | 70-130 | | | |
| Manganese | 0.050 | 0.00025 | mg/L | 0.05000 | 0.00030 | 100 | 70-130 | | | |
| Nickel | 0.046 | 0.00050 | mg/L | 0.05000 | 0.0042 | 84 | 70-130 | | | |
| Selenium | 0.053 | 0.0015 | mg/L | 0.05000 | ND | 106 | 70-130 | | | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | 0.000098 | 101 | 70-130 | | | |
| Zinc | 0.12 | 0.040 | mg/L | 0.1000 | 0.015 | 108 | 70-130 | | | |
| Batch 2006113 - E 245.1 | | | | | | | | | | |
| Blank (2006113-BLK1) | | | | Prepared & Analyzed: 06/09/2020 | | | | | | |
| Mercury | ND | 0.00050 | mg/L | | | | | | | |
| LCS (2006113-BS1) | | | | Prepared & Analyzed: 06/09/2020 | | | | | | |
| Mercury | 0.043 | 0.00050 | mg/L | 0.005000 | | 867 | 85-115 | | | L1 |
| LCS Dup (2006113-BSD1) | | | | Prepared & Analyzed: 06/09/2020 | | | | | | |
| Mercury | 0.0047 | 0.00050 | mg/L | 0.005000 | | 94 | 85-115 | 161 | 20 | R1 |
| Matrix Spike (2006113-MS1) | | | | Prepared & Analyzed: 06/09/2020 | | | | | | |
| Mercury | 0.0053 | 0.00050 | mg/L | 0.005000 | 0.00029 | 100 | 70-130 | | | |
| Matrix Spike Dup (2006113-MSD1) | | | | Prepared & Analyzed: 06/09/2020 | | | | | | |
| Mercury | 0.0053 | 0.00050 | mg/L | 0.005000 | 0.00029 | 101 | 70-130 | 0.4 | 20 | |

Client: Arizona Minerals Inc.
Project: AMI Non Discharge WTP
Work Order: 20F0174
Date Received: 06/03/2020

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|-----------------|----------|-------------|---------------|------|-------------|------|-----------|------|
| Batch 2006032 - SM2540 C | | | | | | | | | | |
| Duplicate (2006032-DUP1) Source: 20F0163-01 Prepared: 06/04/2020 Analyzed: 06/09/2020 | | | | | | | | | | |
| Total Dissolved Solids (Residue, Filterable) | 3700 | 20 | mg/L | | 3700 | | | 0.08 | 5 | |
| Duplicate (2006032-DUP2) Source: 20F0115-01 Prepared: 06/04/2020 Analyzed: 06/09/2020 | | | | | | | | | | |
| Total Dissolved Solids (Residue, Filterable) | 28000 | 20 | mg/L | | 27000 | | | 1 | 5 | |
| Duplicate (2006032-DUP3) Source: 20F0011-01 Prepared: 06/04/2020 Analyzed: 06/09/2020 | | | | | | | | | | |
| Total Dissolved Solids (Residue, Filterable) | 1500 | 20 | mg/L | | 1500 | | | 0.6 | 5 | |
| Batch 2006063 - SM2510 B | | | | | | | | | | |
| LCS (2006063-BS1) Prepared & Analyzed: 06/04/2020 | | | | | | | | | | |
| Conductivity | 140 | 0.10 | µmhos/cm | 141.2 | | 99 | 0-200 | | | |
| LCS Dup (2006063-BSD1) Prepared & Analyzed: 06/04/2020 | | | | | | | | | | |
| Conductivity | 140 | 0.10 | µmhos/cm | 141.2 | | 99 | 0-200 | 0 | 200 | |
| Duplicate (2006063-DUP1) Source: 20F0174-01 Prepared & Analyzed: 06/04/2020 | | | | | | | | | | |
| Conductivity | 3900 | 0.50 | µmhos/cm | | 4000 | | | 1 | 10 | |
| Batch 2006064 - SM4500-H+ B | | | | | | | | | | |
| Duplicate (2006064-DUP1) Source: 20F0116-03 Prepared & Analyzed: 06/04/2020 | | | | | | | | | | |
| pH (pH Units) | 1.9 | | - | | 1.9 | | | 0.5 | 200 | H5 |
| Temperature (°C) | 22 | | - | | 22 | | | 0 | 200 | H5 |
| Batch 2006083 - SM2320B | | | | | | | | | | |
| Blank (2006083-BLK1) Prepared & Analyzed: 06/05/2020 | | | | | | | | | | |
| Alkalinity, Bicarbonate (As CaCO3) | ND | 2.0 | mg/L | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | ND | 2.0 | mg/L | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | ND | 2.0 | mg/L | | | | | | | |
| Alkalinity, Total (As CaCO3) | ND | 2.0 | mg/L | | | | | | | |
| LCS (2006083-BS1) Prepared & Analyzed: 06/05/2020 | | | | | | | | | | |
| Alkalinity, Total (As CaCO3) | 240 | 2.0 | mg/L | 250.0 | | 95 | 90-110 | | | |
| LCS Dup (2006083-BSD1) Prepared & Analyzed: 06/05/2020 | | | | | | | | | | |
| Alkalinity, Total (As CaCO3) | 230 | 2.0 | mg/L | 250.0 | | 94 | 90-110 | 2 | 10 | |
| Matrix Spike (2006083-MS1) Source: 20F0174-01 Prepared & Analyzed: 06/05/2020 | | | | | | | | | | |
| Alkalinity, Total (As CaCO3) | 410 | 2.0 | mg/L | 250.0 | 170 | 94 | 70-130 | | | |
| Matrix Spike Dup (2006083-MSD1) Source: 20F0174-01 Prepared & Analyzed: 06/05/2020 | | | | | | | | | | |
| Alkalinity, Total (As CaCO3) | 400 | 2.0 | mg/L | 250.0 | 170 | 92 | 70-130 | 1 | 10 | |
| Batch 2006205 - SM4500-CN BE | | | | | | | | | | |
| Blank (2006205-BLK1) Prepared: 06/15/2020 Analyzed: 06/16/2020 | | | | | | | | | | |
| Cyanide | ND | 0.10 | mg/L | | | | | | | |

Client: Arizona Minerals Inc.
Project: AMI Non Discharge WTP
Work Order: 20F0174
Date Received: 06/03/2020

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|---------------------------|-------|---|---------------|------|-------------|-----|-----------|------|
| Batch 2006205 - SM4500-CN BE | | | | | | | | | | |
| LCS (2006205-BS1) | | | | Prepared: 06/15/2020 Analyzed: 06/16/2020 | | | | | | |
| Cyanide | 1.9 | 0.10 | mg/L | 2.000 | | 94 | 85-115 | | | |
| LCS Dup (2006205-BSD1) | | | | Prepared: 06/15/2020 Analyzed: 06/16/2020 | | | | | | |
| Cyanide | 2.0 | 0.10 | mg/L | 2.000 | | 102 | 85-115 | 8 | 15 | |
| Matrix Spike (2006205-MS1) | | Source: 20F0254-01 | | Prepared: 06/15/2020 Analyzed: 06/16/2020 | | | | | | |
| Cyanide | 2.1 | 0.10 | mg/L | 2.000 | ND | 103 | 80-120 | | | |
| Matrix Spike Dup (2006205-MSD1) | | Source: 20F0254-01 | | Prepared: 06/15/2020 Analyzed: 06/16/2020 | | | | | | |
| Cyanide | 1.9 | 0.10 | mg/L | 2.000 | ND | 97 | 80-120 | 6 | 15 | |

Client: Arizona Minerals Inc.
Project: AMI Non Discharge WTP
Work Order: 20F0174
Date Received: 06/03/2020

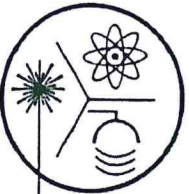
QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
| Batch 2006052 - E300.0 (2.1) | | | | | | | | | | |
| Blank (2006052-BLK1) Prepared & Analyzed: 06/03/2020 | | | | | | | | | | |
| Fluoride | ND | 0.50 | mg/L | | | | | | | |
| Nitrogen, Nitrate (As N) | ND | 0.50 | mg/L | | | | | | | |
| Nitrogen, Nitrite (As N) | ND | 0.10 | mg/L | | | | | | | |
| Sulfate | ND | 5.0 | mg/L | | | | | | | |
| LCS (2006052-BS1) Prepared & Analyzed: 06/03/2020 | | | | | | | | | | |
| Fluoride | 2.0 | 0.50 | mg/L | 2.000 | | 98 | 90-110 | | | |
| Nitrogen, Nitrate (As N) | 4.8 | 0.50 | mg/L | 5.000 | | 96 | 90-110 | | | |
| Nitrogen, Nitrite (As N) | 2.5 | 0.10 | mg/L | 2.500 | | 98 | 90-110 | | | |
| Sulfate | 12 | 5.0 | mg/L | 12.50 | | 99 | 90-110 | | | |
| LCS Dup (2006052-BSD1) Prepared & Analyzed: 06/03/2020 | | | | | | | | | | |
| Fluoride | 1.9 | 0.50 | mg/L | 2.000 | | 97 | 90-110 | 1 | 10 | |
| Nitrogen, Nitrate (As N) | 4.8 | 0.50 | mg/L | 5.000 | | 96 | 90-110 | 0.4 | 10 | |
| Nitrogen, Nitrite (As N) | 2.5 | 0.10 | mg/L | 2.500 | | 99 | 90-110 | 0.4 | 10 | |
| Sulfate | 12 | 5.0 | mg/L | 12.50 | | 99 | 90-110 | 0.5 | 10 | |
| Matrix Spike (2006052-MS1) Source: 20F0144-01 Prepared: 06/03/2020 Analyzed: 06/06/2020 | | | | | | | | | | |
| Fluoride | 1.8 | 0.50 | mg/L | 2.000 | 0.20 | 81 | 80-120 | | | |
| Nitrogen, Nitrate (As N) | 6.1 | 0.50 | mg/L | 5.000 | 1.2 | 97 | 80-120 | | | |
| Nitrogen, Nitrite (As N) | 2.5 | 0.10 | mg/L | 2.500 | 0.093 | 97 | 80-120 | | | |
| Sulfate | 20 | 5.0 | mg/L | 12.50 | 8.8 | 90 | 80-120 | | | |
| Matrix Spike (2006052-MS2) Source: 20E0416-01 Prepared: 06/03/2020 Analyzed: 06/30/2020 | | | | | | | | | | |
| Fluoride | 13 | 2.5 | mg/L | 10.00 | 3.9 | 94 | 80-120 | | | |
| Sulfate | 160 | 25 | mg/L | 62.50 | 21 | 218 | 80-120 | | | M1 |
| Matrix Spike Dup (2006052-MSD1) Source: 20F0144-01 Prepared: 06/03/2020 Analyzed: 06/06/2020 | | | | | | | | | | |
| Fluoride | 1.8 | 0.50 | mg/L | 2.000 | 0.20 | 81 | 80-120 | 0.2 | 10 | |
| Nitrogen, Nitrate (As N) | 6.1 | 0.50 | mg/L | 5.000 | 1.2 | 97 | 80-120 | 0.1 | 10 | |
| Nitrogen, Nitrite (As N) | 2.5 | 0.10 | mg/L | 2.500 | 0.093 | 98 | 80-120 | 0.9 | 10 | |
| Sulfate | 20 | 5.0 | mg/L | 12.50 | 8.8 | 91 | 80-120 | 1 | 10 | |
| Matrix Spike Dup (2006052-MSD2) Source: 20E0416-01 Prepared: 06/03/2020 Analyzed: 06/30/2020 | | | | | | | | | | |
| Fluoride | 13 | 2.5 | mg/L | 10.00 | 3.9 | 96 | 80-120 | 1 | 10 | |
| Sulfate | 160 | 25 | mg/L | 62.50 | 21 | 219 | 80-120 | 0.3 | 10 | M1 |

POC-2 Semi-Annual Suite

| LABORATORY | | | |
|-------------------------------|-------|-----------|-------|
| Analyte | Total | Dissolved | Other |
| Metals | | | |
| Antimony | X | X | |
| Arsenic | X | X | |
| Barium | X | X | |
| Beryllium | X | X | |
| Cadmium | X | X | |
| Chromium | X | X | |
| Copper | X | X | |
| Iron | X | X | |
| Lead | X | X | |
| Manganese | X | X | |
| Mercury | X | X | |
| Nickel | X | X | |
| Selenium | X | X | |
| Thallium | X | X | |
| Zinc | X | X | |
| Major Cations | | | |
| Hardness | X | | |
| Major Anions | | | |
| Total Alkalinity | X | | |
| Acidity | X | | |
| Fluoride | X | X | |
| Nitrate – Nitrite as N | X | X | |
| Nitrite - N | X | X | |
| Nitrate-Nitrite as N 1 | X | X | |
| Sulfate | X | X | |
| Parameters | | | |
| Total Dissolved Solids | | X | |
| pH | | | X |
| Specific Conductivity | | | X |
| RadChem | | | |
| Gross Alpha Particle Activity | X | X | |
| Radium 226 + 228 | X | X | |
| Cyanide | | | |
| Free CN | X | X | Free |

| FIELD MEASUREMENTS | |
|----------------------|--|
| pH | |
| Specific conductance | |



Radiation Safety Engineering, Inc.

3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121
Website: www.radsafe.com

(480) 897-9459
FAX (480) 892-5446

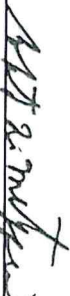
Radiochemical Activity in Water (pCi/L)

Turner Laboratories
2445 N. Coyote Drive, Ste. 104
Tucson, AZ 85745

Sampling Date: June 02, 2020
Sample Received: June 05, 2020
Analysis Completed: June 21, 2020

| Sample ID | Gross Alpha Activity Method 600/00-02 (pCi/L) | Radium 226 Activity Method GammaRay HPGE (pCi/L) | Radium 228 Activity Method GammaRay HPGE (pCi/L) | Total Radium (pCi/L) |
|------------|---|--|--|----------------------|
| 20F0174-01 | < 2.6 | < 0.4 | < 0.8 | < 0.8 |

| Date of Analysis | 6/16/2020 | 6/5/2020 | 6/5/2020 | 6/5/2020 |
|------------------|-----------|----------|----------|----------|
|------------------|-----------|----------|----------|----------|


Robert L. Metzger, Ph.D., C.H.P. Date 6/21/2020
Laboratory License Number AZ0462

SUBCONTRACT ORDER
Turner Laboratories, Inc.
20F0174

| | |
|----------------------------------|--|
| SENDING LABORATORY: | |
| Turner Laboratories, Inc. | |
| 2445 N. Coyote Drive, Ste #104 | |
| Tucson, AZ 85745 | |
| Phone: 520.882.5880 | |
| Fax: 520.882.9788 | |
| Project Manager: Elizabeth Kasik | |

| | |
|---|--|
| RECEIVING LABORATORY: | |
| Radiation Safety Engineering, Inc. | |
| 3245 N. Washington St. | |
| Chandler, AZ 85225-1121 | |
| Phone : (480) 897-9459 | |
| Fax: (480) 892-5446 | |
| Please CC Kevin Brim Kbrim@turnerlabs.com | |

| Analysis | Expires | Laboratory ID | Comments |
|--------------------------------------|--------------------------|---------------|----------|
| Sample ID: 20F0174-01 Non-Potable Wa | Sampled:06/02/2020 09:51 | | |
| Radiochemistry, Radium 226/228 | 07/02/2020 09:51 | | |
| Radiochemistry, Gross Alpha | 11/29/2020 09:51 | | |
| Containers Supplied: | | | 64490 |

| | | | | | | | |
|-------------|--------------|------|-----------------|-------------|-------------------|------|-------------------|
| Released By | <i>qbrim</i> | Date | <i>06/02/20</i> | Received By | <i>US Dubelba</i> | Date | <i>06-05-2026</i> |
| Released By | | Date | | Received By | <i>RS/E</i> | Date | |