April 15, 2023

Mr. Kevin Bilash US EPA Region III Land and Chemical Division 1650 Arch Street - 3LC30 Philadelphia, PA 19103

Re: Initial Administrative Order EPA Docket No. RCRA-3-067CA Progress Report #169

Dear Mr. Bilash:

In accordance with Section G, Paragraph 4 of the above referenced Initial Administrative Order, enclosed are two copies of Progress Report #169 for the period of January 2023 – March 2023. NGK Metals Corporation (NGK) received approval from the United States Environmental Protection Agency (US EPA) on October 29, 2018, to reduce the Progress Report submission frequency from bi-monthly to quarterly submissions to coincide with quarterly groundwater sampling events. A copy of the approval letter is provided as **Attachment 1**.

1.0 DESCRIPTION OF WORK PERFORMED FOR THE PERIOD

1.1 RED MUD CAPS

The red mud caps were inspected on January 30, 2023, February 27, 2023, and March 31, 2023 and continue to function as designed. The red mud caps will continue to be inspected on a monthly basis.

1.2 RETENTION BASIN

The retention basin continues to be inspected quarterly and continues to function as designed.

1.3 GROUND WATER TREATMENT SYSTEM

Groundwater Treatment System (GWTS) restart and shutdown chronology:

- 1. October 3, 2016 The GWTS was restarted.
- 2. **April 5, 2018** NGK received authorization from the US EPA to cease GWTS operation and the recovery wells were shut-down.
- December 2018 The GWTS shut-down plan was completed and all GWTS storage tanks, conveyance piping and chemical storage tanks have been drained and cleaned. No chemicals remain on-Site.
- 4. **December 2018 to present** All GWTS pumps and controls are in 'Stand-by' and can be

reactivated, if required, after treatment chemicals are delivered.

GWTS Observations:

1. The treatment equipment remains in stand-by. The building and appurtenances are inspected quarterly to maintain system readiness.

1.4 ASSESSMENT OF GROUNDWATER CONDITIONS

Collection and review of the quarterly water elevation and groundwater quality data continued during this reporting period. Groundwater monitoring and sampling data for the 1st quarter of 2023 are enclosed with this report (**Attachment 2**).

All available on and offsite wells were surveyed this reporting period.

2.0 SUMMARY OF FINDINGS

No new findings to report.

3.0 SUMMARY OF CHANGES TO THE CMI

No changes were made to the CMI during this reporting period.

4.0 SUMMARIES OF CONTACTS TO OR WITH OUTSIDE ORGANIZATIONS

May 9, 2022 – NGK submitted a revised Summary of Groundwater Treatment Facility Shutdown Period to EPA.

July 21, 2022 - NGK submitted an Act II Cleanup Plan/Final Report for soils to PADEP.

July 27, 2022 – NGK received a Notice of Violation (NOV) from EPA requiring an Interim Measures Work Plan to address red mud beneath Tuckerton Road be submitted to EPA.

August 4, 2022 - NGK submitted an Interim Measures Work Plan to EPA.

September 12, 2022 – NGK received EPA comments on the revised Summary of Groundwater Treatment Facility Shutdown Period.

September 12, 2022 - NGK received EPA comments on the Interim Measures Work Plan from EPA.

October 20, 2022 – Received Letter of Deficiency from PADEP on Act II Cleanup Plan/Final Report for soils.

October 20, 2022 - Received EPA comments to the Act II Cleanup Plan/Final Report for soils.

November 9, 2022 – Virtual meeting with PADEP, HDR and NGK to review comments to Act II Cleanup Plan/Final Report for Soils.

February 24, 2023 – Received a Street Cut Permit from Muhlenberg Township.

March 15, 2023 – NGK submitted the 2022 Annual Corrective Measures Operations and Maintenance Report to USEPA.

5.0 GENERAL ASSESSMENT OF PERFORMANCE

- 1. The red mud caps are functioning as designed.
- 2. The GWTS was shut down as of April 5, 2018, and remained off during this reporting period.

6.0 ACTIONS TAKEN TO RECTIFY PROBLEMS

No problems to report.

7.0 CHANGES IN PERSONNEL

Lynne Woodside of NGK Metals will continue to be the primary contact for NGK Metals during the reporting period.

8.0 PROJECT WORK FOR NEXT PERIOD

The following activities are anticipated for the next period:

- 1. The GWTS shut-down plan has been completed and the system can be put back into service in the future, if required.
- 2. Groundwater sampling will continue and is scheduled on a quarterly basis.
- 3. NGK has developed erosion repair plan with Roux & HMS to provide long-term protection of the geotextile liner in the detention basin associated with the red mud caps.
- 4. Prepare and submit to EPA a response to comments on the Interim Measures Work Plan.
- 5. Propose off-site groundwater monitoring well locations to EPA.
- 6. Perform additional soil sampling/waste delineation for Act II investigation.
- 7. Prepare and submit responses to EPA/PADEP comments on the Act II soil Cleanup Plan/Final Report.
- 8. Prepare and submit to EPA a response to comments on the revised Groundwater Treatment Facility Shutdown Period.
- 9. Prepare an updated Financial Assurance calculation.

9.0 RESULTS OF SAMPLING AND TESTING

Groundwater monitoring and sampling for the 1st quarter 2023 was completed in March 2023.

10.0 CERTIFICATION

I certify that the information contained in or accompanying this letter is true, accurate, and complete. As to the portion of this submission for which I cannot personally verify its accuracy, I certify under penalty of law that this submission and all attachments were prepared in accordance with the procedures designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, or the immediate supervisor of such person(s), the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fines and imprisonment for knowing violations.

Respectfully submitted,

Lynne Woodside NGK Metals Corporation

Manager Environment and Safety

Lynne Woodside

cc: Kelly Kinkaid, PADEP

ATTACHMENT 1

EPA Approval Letter

1328.0001J005.EPA PROG 169

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III



1650 Arch Street Philadelphia, Pennsylvania 19103-2029

October 29, 2018

Mr. Taizo Oshika 917 US Highway 11 South Sweetwater, TN 37874

Subject:

NGK Metals - Temple, PA

Request for Modification to Progress Report Submission Frequency

Dear Mr. Oshika:

The U.S. Environmental Protection Agency (EPA) has received and reviewed the October 15, 2018 Request for Modification to Progress Report Submission Frequency (Bi-monthly to Quarterly) for the NGK Metals Facility located at 150 Tuckerton Road, Temple, PA 19560. The reason for the request is to reduce the Progress Report submission to coincide with the groundwater monitoring schedule during the Groundwater Treatment System shutdown.

The EPA approves the Progress Report submission reduction from bi-monthly to quarterly for the duration of the Groundwater Treatment System shutdown. Progress Report submissions should return to bi-monthly unless NGK requests, and the EPA approves, a continued reduction based on the results of the Groundwater Treatment System shutdown evaluation.

If you have any questions or concerns once you have received and reviewed this letter, please contact me at 215-814-2796 or <u>bilash.kevin@epa.gov</u>.

Sincerely,

Kevin Bilash, RPM Land and Chemicals Division

cc: file

ATTACHMENT 2

First Quarter 2023 Groundwater Monitoring and Sampling Data

1328.0001J005.EPA PROG 169



ENVIRONMENTAL TESTING LABORATORY U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2308267 **Report:** 03/23/23

Lab Contact: Richard A Wheeler

Attention: Lynne Woodside

Reported To: NGK Metals Corporation

917 State Hwy 11S Sweetwater, TN 37974 **Project Info:** MW - 100 - Quarterly Monitor Wells 05, 06, 07, 08

Lab ID: 2308267-01 **Collected By:** Craig Smith **Sampled:** 03/08/23 10:11 **Received:** 03/08/23 16:12

Sample Desc: Well 005 Sample Type: Grab

			Rep.				
	Result	Unit	Limit	Analysis Method	Analyzed	Notes	Analyst
Dissolved Metals							
Beryllium	7	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG
Calcium	39	mg/l	1	EPA 200.7 Rev 4.4	03/10/23		HRG
Chromium	17	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG
Iron	<20	ug/l	20	EPA 200.7 Rev 4.4	03/09/23		HRG
Magnesium	21.7	mg/l	0.5	EPA 200.7 Rev 4.4	03/10/23		HRG
Manganese	5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG
Potassium	9.3	mg/l	0.5	EPA 200.7 Rev 4.4	03/10/23		HRG
Sodium	232	mg/l	5.0	EPA 200.7 Rev 4.4	03/10/23		HRG
Field							
pН	7.3	SU	1.0	SM 4500-H+ B	03/08/23 10:11		KMD
Conductivity	1350	umhos/cm	1	SM 2510 B	03/08/23		KMD
Temperature	14.7	С	1.0	SM 2550 B	03/08/23		KMD
General Chemistry							
Alkalinity, Bicarbonate	380	mg CaCO3/L	10	SM 2320 B	03/09/23		ORL
Alkalinity, Total to pH 4.5	380	mg CaCO3/L	10	SM 2320 B	03/09/23		ORL
Ammonia as N	0.40	mg/l	0.02	EPA 350.1 Rev 2.0	03/09/23		JMW
Chemical Oxygen Demand	<25	mg/l	25	HACH 8000	03/13/23		ALD
Chloride	12.8	mg/l	1.00	EPA 300.0 Rev 2.1	03/09/23		KCS
Chromium VI	0.0146	mg/l	0.0100	EPA 218.6 Rev 3.3	03/15/23		MPB
Fluoride	8.86	mg/l	0.50	EPA 300.0 Rev 2.1	03/09/23		KCS
Nitrate as N	2.02	mg/l	1.00	EPA 300.0 Rev 2.1	03/09/23 5:48		KCS
pН	8.50	SU	1.00	SM 4500-H+ B	03/15/23 11:24	C-53c, Q-20	ZJB
Conductivity	1310	umhos/cm	1	SM 2510 B	03/14/23		ZJB
Sulfate	277	mg/l	5.00	EPA 300.0 Rev 2.1	03/09/23		KCS
Solids, Total Dissolved	804	mg/l	5	SM 2540 C	03/09/23		TMH
Total Organic Carbon	1.1	mg/l	0.5	SM 5310 C	03/10/23		ALD
Turbidity	0.95	NTU	0.20	EPA 180.1 Rev 2	03/09/23 15:06		HRG



Lab ID: 2308267-01 Continued

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Total Metals						
Beryllium	7	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Calcium	39	mg/l	1	EPA 200.7 Rev 4.4	03/10/23	HRG
Chromium	17	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Iron	<20	ug/l	20	EPA 200.7 Rev 4.4	03/09/23	HRG
Magnesium	22.0	mg/l	0.5	EPA 200.7 Rev 4.4	03/10/23	HRG
Manganese	5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Potassium	9.5	mg/l	0.5	EPA 200.7 Rev 4.4	03/10/23	HRG
Sodium	253	mg/l	5.0	EPA 200.7 Rev 4.4	03/10/23	HRG



Lab ID: 2308267-02 **Collected By:** Craig Smith **Sampled:** 03/10/23 12:47 **Received:** 03/10/23 14:07

Sample Desc: Well 006 Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	
Dissolved Metals					-			
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Calcium	9	mg/l	1	EPA 200.7 Rev 4.4	03/14/23		HRG	
Chromium	107	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Iron	<20	ug/l	20	EPA 200.7 Rev 4.4	03/15/23		HRG	
Magnesium	2.6	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Manganese	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Potassium	3.0	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Sodium	117	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23	Q-14a	HRG	
Field								
pН	7.1	SU	1.0	SM 4500-H+ B	03/10/23 12:47		KMD	
Conductivity	574	umhos/cm	1	SM 2510 B	03/10/23		KMD	
Temperature	14.1	С	1.0	SM 2550 B	03/10/23		KMD	
General Chemistry								
Alkalinity, Bicarbonate	206	mg CaCO3/L	10	SM 2320 B	03/15/23		ORL	
Alkalinity, Total to pH 4.5	206	mg CaCO3/L	10	SM 2320 B	03/15/23		ORL	
Ammonia as N	< 0.02	mg/l	0.02	EPA 350.1 Rev 2.0	03/14/23		JMW	
Chemical Oxygen Demand	<25	mg/l	25	HACH 8000	03/14/23		ALD	
Chloride	1.50	mg/l	1.00	EPA 300.0 Rev 2.1	03/10/23		KCS	
Chromium VI	0.110	mg/l	0.0250	EPA 218.6 Rev 3.3	03/15/23		MPB	
Fluoride	21.7	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23		KCS	
Nitrate as N	6.61	mg/l	1.00	EPA 300.0 Rev 2.1	03/10/23 23:16		KCS	
pН	7.94	SU	1.00	SM 4500-H+ B	03/13/23 11:21	C-53b, Q-20	ZJB	
Conductivity	571	umhos/cm	1	SM 2510 B	03/14/23		ZJB	
Sulfate	19.5	mg/l	1.00	EPA 300.0 Rev 2.1	03/10/23		KCS	
Solids, Total Dissolved	357	mg/l	5	SM 2540 C	03/13/23		ALD	
Total Organic Carbon	0.6	mg/l	0.5	SM 5310 C	03/16/23		ALD	
Turbidity	3.8	NTU	0.20	EPA 180.1 Rev 2	03/10/23 15:37		ORL	
Total Metals								
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Calcium	9	mg/l	1	EPA 200.7 Rev 4.4	03/14/23		HRG	
Chromium	104	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Iron	190	ug/l	20	EPA 200.7 Rev 4.4	03/14/23		HRG	
Magnesium	2.8	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Manganese	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Potassium	3.1	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Sodium	112	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23	Q-14	HRG	





Lab ID: 2308267-03 **Collected By:** Craig Smith **Sampled:** 03/10/23 13:25 **Received:** 03/10/23 14:07

Sample Desc: Well 007 Sample Type: Grab

			Rep.					
	Result	Unit	Limit	Analysis Method	Analyzed	Notes	Analyst	
Dissolved Metals			_				****	
Beryllium	22	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Calcium	20	mg/l	1	EPA 200.7 Rev 4.4	03/14/23		HRG	
Chromium	94	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Iron	<20	ug/l	20	EPA 200.7 Rev 4.4	03/15/23		HRG	
Magnesium	7.8	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Manganese	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Potassium	5.2	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Sodium	124	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Field								
pН	7.3	SU	1.0	SM 4500-H+ B	03/10/23 13:25		KMD	
Conductivity	734	umhos/cm	1	SM 2510 B	03/10/23		KMD	
Temperature	14.1	С	1.0	SM 2550 B	03/10/23		KMD	
General Chemistry								
Alkalinity, Bicarbonate	240	mg CaCO3/L	10	SM 2320 B	03/15/23		ORL	
Alkalinity, Total to pH 4.5	240	mg CaCO3/L	10	SM 2320 B	03/15/23		ORL	
Ammonia as N	< 0.02	mg/l	0.02	EPA 350.1 Rev 2.0	03/13/23		JMW	
Chemical Oxygen Demand	<25	mg/l	25	HACH 8000	03/13/23		ALD	
Chloride	24.9	mg/l	1.00	EPA 300.0 Rev 2.1	03/11/23		KCS	
Chromium VI	0.0953	mg/l	0.0250	EPA 218.6 Rev 3.3	03/15/23		MPB	
Fluoride	23.6	mg/l	0.50	EPA 300.0 Rev 2.1	03/11/23		KCS	
Nitrate as N	3.39	mg/l	1.00	EPA 300.0 Rev 2.1	03/11/23 0:06		KCS	
рН	7.90	SU	1.00	SM 4500-H+ B	03/13/23 11:21	C-53, Q-20	ZJB	
Conductivity	724	umhos/cm	1	SM 2510 B	03/14/23		ZJB	
Sulfate	55.0	mg/l	1.00	EPA 300.0 Rev 2.1	03/11/23		KCS	
Solids, Total Dissolved	429	mg/l	5	SM 2540 C	03/13/23		ALD	
Total Organic Carbon	0.8	mg/l	0.5	SM 5310 C	03/16/23		ALD	
Turbidity	0.55	NTU	0.20	EPA 180.1 Rev 2	03/10/23 15:38		ORL	
Total Metals								
Beryllium	23	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Calcium	21	mg/l	1	EPA 200.7 Rev 4.4	03/14/23		HRG	
Chromium	98	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Iron	<20	ug/l	20	EPA 200.7 Rev 4.4	03/14/23		HRG	
Magnesium	8.2	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Manganese	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Potassium	5.3	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Sodium	123	mg/l	0.5	EPA 200.7 Rev 4.4	03/14/23		HRG	
		1118/1						





Lab ID: 2308267-04 **Collected By:** Craig Smith **Sampled:** 03/09/23 11:21 **Received:** 03/09/23 15:36

Sample Desc: Well 008 Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	
Dissolved Metals	Result	OIII	LIIII	Analysis Method	Anaryzeu	Notes	Anaryst	
Beryllium	23	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Calcium	57	mg/l	1	EPA 200.7 Rev 4.4	03/10/23		HRG	
Chromium	484	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Iron	<20	ug/l	20	EPA 200.7 Rev 4.4	03/14/23		HRG	
Magnesium	25.3	mg/l	0.5	EPA 200.7 Rev 4.4	03/10/23		HRG	
Manganese	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Potassium	11.0	mg/l	0.5	EPA 200.7 Rev 4.4	03/10/23		HRG	
Sodium	106	mg/l	0.5	EPA 200.7 Rev 4.4	03/10/23		HRG	
Field								
pН	6.8	SU	1.0	SM 4500-H+ B	03/09/23 11:21		KMD	
Conductivity	909	umhos/cm	1	SM 2510 B	03/09/23		KMD	
Temperature	14.7	С	1.0	SM 2550 B	03/09/23		KMD	
General Chemistry								
Alkalinity, Bicarbonate	286	mg CaCO3/L	10	SM 2320 B	03/15/23		ORL	
Alkalinity, Total to pH 4.5	286	mg CaCO3/L	10	SM 2320 B	03/15/23		ORL	
Ammonia as N	0.08	mg/l	0.02	EPA 350.1 Rev 2.0	03/13/23		JMW	
Chemical Oxygen Demand	28	mg/l	25	HACH 8000	03/14/23		ALD	
Chloride	9.05	mg/l	1.00	EPA 300.0 Rev 2.1	03/09/23		KCS	
Chromium VI	0.423	mg/l	0.0500	EPA 218.6 Rev 3.3	03/15/23		MPB	
Fluoride	12.4	mg/l	0.50	EPA 300.0 Rev 2.1	03/09/23		KCS	
Nitrate as N	3.30	mg/l	1.00	EPA 300.0 Rev 2.1	03/09/23 18:28		KCS	
рН	7.17	SU	1.00	SM 4500-H+ B	03/13/23 11:21	C-53a, Q-20	ZJB	
Conductivity	861	umhos/cm	1	SM 2510 B	03/16/23		ALD	
Sulfate	137	mg/l	5.00	EPA 300.0 Rev 2.1	03/10/23		KCS	
Solids, Total Dissolved	554	mg/l	5	SM 2540 C	03/10/23		TMH	
Total Organic Carbon	1.1	mg/l	0.5	SM 5310 C	03/10/23		ALD	
Turbidity	0.91	NTU	0.20	EPA 180.1 Rev 2	03/10/23 15:35		ORL	
Total Metals								
Beryllium	23	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Calcium	55	mg/l	1	EPA 200.7 Rev 4.4	03/10/23		HRG	
Chromium	477	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Iron	<20	ug/l	20	EPA 200.7 Rev 4.4	03/14/23		HRG	
Magnesium	25.0	mg/l	0.5	EPA 200.7 Rev 4.4	03/10/23		HRG	
Manganese	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23		HRG	
Potassium	11.0	mg/l	0.5	EPA 200.7 Rev 4.4	03/10/23		HRG	
Sodium	107	mg/l	0.5	EPA 200.7 Rev 4.4	03/10/23		HRG	



Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
08267-01				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0490	03/09/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0491	03/09/2023	HRG
08267-02				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0755	03/14/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0756	03/14/2023	HRG
08267-03				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0755	03/14/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0756	03/14/2023	HRG
08267-04				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0580	03/10/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0582	03/10/2023	HRG

Notes and Definitions

C-53	pH was measured at 10.1°C.
C-53a	pH was measured at 10.5°C.
C-53b	pH was measured at 11.2°C.
C-53c	pH was measured at 13.4°C.
Q-14	The matrix spike(s) were outside acceptable limits of 70-130% recovery at 196% and 182%.
Q-14a	The matrix spike(s) were outside acceptable limits of 70-130% recovery at 222% and 185%.
Q-20	The sample was analyzed beyond the required 15 minute hold time.



Relinquished By

Relinquished By

M.J. Reider Associates, Inc.

107 Angelica St, Reading PA, 19611 610-374-5129 www.mjreider.com

Client Code: 0100

Project Manager: Richard A Wheeler

WORK ORDER Chain of Custody



Client: NGK Metals Corporation

Project: MW - 100 - Quarterly Monitor Wells 05, 06, 07, 08

Report To: NGK Metals Corporation - Lynne Woodside - 917 State Hwy 11S, Sweetwater, TN 37974 Invoice To: NGK Metals Corporation - Jamie Lones - 917 State Hwy 11S., Sweetwater, TN 37974

Date/Time

Date/Time

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and

to pay for the above requested services including any additional associated fees incurred.

Received By

Received at Laboratory By

Project Notes: Samples are collected as part of a multiday sampling event.

Collected By: Craig Smith	Comments:			
Short Hold Analysis Receipts NO3-N(2) 166 Turbid (2-) 167 2308267-01 Well 005	np Field SM 2550B (as C) 14,73 C A 200.7, Ca-D EPA 200.7, CI- EPA 30 Fe EPA 200.7, Fe-D EPA 200.7, K EPA 200.7, Na EPA 200.7	EPA D - Pl 250ml NP	ered, HNO3 ered, Cr+6 buffer (3PO4, minimal hdspc	-2023 @ JD11
2308267-02 Well 006 pH-Field SM 4500H+B T. SU, Sp Cond-Field SM 2510B umhos/cm, Ten NO3-N EPA 300.0, Turbid EPA 180.1 Be-D EPA 200.7, Ca EPA 200.7, Cr EPA 200.7, Cr+6 EPA 218.6, Cr-D EPA 200.7 EPA 200.7, Mn EPA 200.7, Na-D EPA 200.7, NH3-N EPA 350.1, Sp Cond SM 25 2320B, Alk SM 2320B, Be EPA 200.7, Ca-D EPA 200.7, Cl- EPA 300.0, COD Hak-C EPA 200.7, Mg EPA 200.7, Mn-D EPA 200.7, Na EPA 200.7, pH SM 4500H-	np Field SM 2550B (as C) C , Fe-D EPA 200.7, K EPA 200.7, Mg- 10B, TDS SM 2540C, Alk (Bicarb) S ch 8000, F- EPA 300.0, Fe EPA 200.7	J - Vial Amber 40ml H3 Sype: Grab A - Pl 500ml NP, minin B - Pl 500ml HNO3 C - Pl 250ml Field Filte D - Pl 250ml NP E - Pl 500ml H2SO4	BPO4, minimal hdspc Date/Time: 03 - /C mal hdspc ered, HNO3 red, Cr+6 buffer 3PO4, minimal hdspc PO4, minimal hdspc)-2023@12i
2-8-23@\(0\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Date/Time		Sample Kit Prepared By	Date/Time

Date/Time

Date/Time

Printed: 2/27/2023 3:41:20PM

Report Templa

Sample Temp (°C): Samples on Ice?

Approved By: Entered By:

Page 9 of 22

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	4	
100	A COMPANY	-

Client Code:

0100

Project Manager: Richard A Wheeler

Client: NGK Metals Corporation

Project: MW - 100 - Quarterly Monitor Wells 05, 06, 07, 08

Comments:

Collected By:	Craig	South
Full Name)	0/019	Smith

Matrix: Non-Potable Water

Type: Grab

Type: Grab

Date/Time: 03-10-2023 @ 1325

-09-2023 @ 1121

2308267-03 Well 007 pH-Field SM 4500H+B 7:3 SU, Sp Cond-Field SM 2510B 734 umhos/cm, Temp Field SM 2550B (as C) 14.0 NO3-N EPA 300.0, Turbid EPA 180.1

Alk (Bicarb) SM 2320B, Alk SM 2320B, Be EPA 200.7, Ca-D EPA 200.7, Cl- EPA 300.0, COD Hach 8000, F- EPA 300.0, Fe EPA 200.7, K-D EPA 200.7, Mg EPA 200.7, Mn-D EPA 200.7, Na EPA 200.7, pH SM 4500H+B, SO4 EPA 300.0, Be-D EPA 200.7, Ca EPA 200.7, Cr EPA 200.7, Cr+6 EPA 218.6, Cr-D EPA 200.7, Fe-D EPA 200.7, K EPA 200.7, Mg-D EPA 200.7, Mn EPA 200.7, Na-D EPA 200.7, NH3-N EPA 350.1, TOC SM 5310C, Sp Cond SM 2510B, TDS SM 2540C

A - Pl 500ml NP, minimal hdspc

B - Pl 500ml HNO3

C - Pl 250ml Field Filtered, HNO3

D - PI 250ml NP

E - Pl 500ml H2SO4

F - Pl 250ml Field Filtered, Cr+6 buffer

G - Pl Liter NP

H - Vial Amber 40ml H3PO4, minimal hdspc

I - Vial Amber 40ml H3PO4, minimal hdspc

J - Vial Amber 40ml H3PO4, minimal hdspc

2308267-04 Well 008 SU, Sp Cond-Field SM 2510B OF umhos/cm, Temp Field SM 2550B (as C) NO3-N EPA 300.0, Turbid EPA 180.1 Signed for 02 3/9/22 SU Alk (Bicarb) SM 2320B, Alk SM 2320B, Be EPA 200.7, Ca-D EPA 200.7, Cl- EPA 300.0, COD Hach 8000, Be-D E

Alk (Bicarb) SM 2320B, Alk SM 2320B, Be EPA 200.7, Ca-D EPA 200.7, Cl- EPA 300.0, COD Hach 8000, Be-D EPA 200.7, Ca EPA 200.7, Cr EPA 200.7, Cr+6 EPA 218.6, Cr-D EPA 200.7, F- EPA 300.0, Fe EPA 200.7, Fe-D EPA 200.7, K EPA 200.7, K-D EPA 200.7, Mg EPA 200.7, Mg-D EPA 200.7, Mn-D EPA 200.7, Na EPA 200.7, Na-D EPA 200.7, NH3-N EPA 350.1, pH SM 4500H+B, SO4 EPA 300.0, Sp Cond SM 2510B, TDS SM 2540C, TOC SM 5310C

A - Pl 500ml NP, minimal hdspc

B - Pl 500ml HNO3

C - Pl 250ml Field Filtered, HNO3

D - Pl 250ml NP

E - PI 500ml H2SO4

F - Pl 250ml Field Filtered, Cr+6 buffer

G - Pl Liter NP

H - Vial Amber 40ml H3PO4, minimal hdspc

I - Vial Amber 40ml H3PO4, minimal hdspc

J - Vial Amber 40ml H3PO4, minimal hdspc

Com !	2 3-9-23 @	1536	
Relinquished By	Date/Time	Received By	Date/Time
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Relinquished 1	Date/Time	Received By	Date/Time
		Kathler M. au stam	3/9/23 1536
Relinquished By	Date/Time	Received at Laboratory By	Date/Time 2002
) MAR 1 N 2023 140 +

Sample Kit Prepared By

WAR 0 1 2023

Sample Temp (°C):
Samples on Ice?
Approved By:
Entered By:

Date/Time
APRO 1 2023

Printed: 2/27/2023 3:41:20PM

MJRA Terms & Conditions

All samples submitted must be accompanied by signed documentation representing a Chain of Custody (COC). The COC Record acts as a contract between the client and MJRA. Signing the COC form gives approval for MJRA to perform the requested analyses and is an agreement to pay for the cost of such analyses. COC Records must be completed in black or blue indelible ink (must not run when wet). COC documentation begins at the time of sample collection. Client is required to document all sample details prior to releasing samples to MJRA. All samples must be placed on ice immediately after sampling and shipped or delivered to the laboratory in a manner that will maintain the sample temperature above freezing and below 6C (loose ice is preferred).

Sample Submission, Sample Acceptance & Sampling Containers

Included on the COC must be the sample description, date and time of collection (including start and stop for composites), container size and type, preservative information, sample matrix, indication of whether the sample is a grab or composite, number of containers & a list of the tests to be performed. Poor sample collection technique, inappropriate sampling containers and/or improper sample preservation may lead to sample rejection. Suitable sample containers, labels, and preservatives (as applicable), along with blank COCs are provided at no additional cost.

Turnaround Times (TAT)

Average TAT for test results range from 5 to 15 working days depending on the specific analyses and time of year submitted. Faster turnaround times (*RUSH TAT) may be available depending on the current workload in a particular department and the nature of the analyses requested. We encourage you to verify requests for expedited sample results with one of our Technical Directors prior to sample submittal. Without confirmation from a Technical Director, your results may not be completed by your deadline. *RUSH TAT Surcharges are applied for expedited turnaround times.

Analytical Results, Sample Collection Integrity & Subcontracting

Analytical values are for the sample as submitted and relate only to the item tested. The value indicates a snapshot of the constituent content of the sample at the time of sample collection. Analytical results can be impacted by poor sample collection technique and/or improper preservation. All sample collection completed by MJRA was performed in accordance with applicable regulatory protocols or as specified in customer specific sampling plans. Constituent content will vary over time based on the matrix of the sample and the physical and chemical changes to its environment. All sample results and laboratory reports are strictly confidential. Results will not be available to anyone except the primary client or authorized party representing the client unless MJRA receives additional permissions from the client. When necessary, MJRA will subcontract certain analyses to a third party accredited laboratory. If client prohibits subcontracting, it must be provided in writing and include instruction on how to proceed with client samples that require third party analyses.

Payment Terms

Payment Terms are Net 30 days. Prices are subject to change without notice. A standing monthly charge of 1.5% of the clients over-30-day-unpaid balance may be added to the balance after 30 days and each month thereafter (day 31, 61, 91 etc.). The laboratory accepts all major credit cards, ACH transactions, checks and cash. New clients must pay for all services rendered prior to sample collection and/or in some cases report processing. Clients must contact the MJRA accounting department to pursue a credit-based account. MJRA reserves the right to terminate the client's credit account and to refuse to perform additional services on a credit basis if any balance is outstanding for more than 60 days.

Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the day of its discovery and within one year of the date of invoice.

Reviewed and Approved by:

Richard A Wheeler Director of Field Services





ENVIRONMENTAL TESTING LABORATORY U.S. EPA/PA DEP #06-00003

Reported To: NGK Metals Corporation

Certificate of Analysis

Laboratory No.: 2308268 **Report:** 03/23/23

Lab Contact: Richard A Wheeler

Attention: Lynne Woodside Project Info: MW - 4334-Rdg Crest/Laureldale

Wells(OFF-SITE)Qtly

917 State Hwy 11S Sweetwater, TN 37974

Lab ID: 2308268-01 **Collected By:** Craig Smith **Sampled:** 03/06/23 15:37 **Received:** 03/06/23 16:15

Sample Desc: DW-34 Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes Anal	vst
Dissolved Metals	resure	O III C		That you rection	· mai, zeu		.,,
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HR	G
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HR	G
Chromium	14	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HR	G
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/07/23	HR	G
General Chemistry							
Chromium VI	0.0161	mg/l	0.00250	EPA 218.6 Rev 3.3	03/22/23	MP	В
Chromium, Trivalent	< 0.00350	mg/l	0.00350	CALCULATED	03/22/23	MP	В
Fluoride	0.87	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KC	CS .
Solids, Total Dissolved	481	mg/l	5	SM 2540 C	03/07/23	TM	Н
Total Metals							
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HR	G
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HR	G
Chromium	0.0179	mg/l	0.0010	EPA 200.8 Rev 5.4	03/07/23	MP	В
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/07/23	HR	G



Lab ID: 2308268-02 **Collected By:** Craig Smith **Sampled:** 03/07/23 11:15 **Received:** 03/07/23 15:31

Sample Desc: LR-1S Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	
Dissolved Metals							•	
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23		HRG	
General Chemistry								
Chromium VI	0.00051	mg/l	0.00025	EPA 218.6 Rev 3.3	03/15/23		MPB	
Chromium, Trivalent	0.00140	mg/l	0.00125	CALCULATED	03/15/23		MPB	
Fluoride	< 0.50	mg/l	0.50	EPA 300.0 Rev 2.1	03/09/23		KCS	
Solids, Total Dissolved	185	mg/l	5	SM 2540 C	03/08/23		TMH	
Total Metals								
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Chromium	0.0019	mg/l	0.0010	EPA 200.8 Rev 5.4	03/08/23		MPB	
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23		HRG	

Lab ID: 2308268-03 **Collected By:** Craig Smith **Sampled:** 03/07/23 11:46 **Received:** 03/07/23 15:31

Sample Desc: LR-11 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Chromium VI	< 0.00025	mg/l	0.00025	EPA 218.6 Rev 3.3	03/15/23	MPB
Chromium, Trivalent	0.00318	mg/l	0.00125	CALCULATED	03/15/23	MPB
Fluoride	< 0.50	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Solids, Total Dissolved	166	mg/l	5	SM 2540 C	03/08/23	TMH
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	0.0032	mg/l	0.0010	EPA 200.8 Rev 5.4	03/08/23	MPB
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23	HRG



Lab ID: 2308268-04 **Collected By:** Craig Smith **Sampled:** 03/07/23 10:33 **Received:** 03/07/23 15:31

Sample Desc:Reading CresSample Type:Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	
Dissolved Metals							•	
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23		HRG	
General Chemistry								
Chromium VI	< 0.00025	mg/l	0.00025	EPA 218.6 Rev 3.3	03/15/23		MPB	
Chromium, Trivalent	0.00161	mg/l	0.00125	CALCULATED	03/15/23		MPB	
Fluoride	< 0.50	mg/l	0.50	EPA 300.0 Rev 2.1	03/09/23		KCS	
Solids, Total Dissolved	172	mg/l	5	SM 2540 C	03/08/23		TMH	
Total Metals								
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Chromium	0.0016	mg/l	0.0010	EPA 200.8 Rev 5.4	03/08/23		MPB	
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23		HRG	

Lab ID: 2308268-05 **Collected By:** Craig Smith **Sampled:** 03/07/23 09:45 **Received:** 03/07/23 15:31

Sample Desc: MW-26 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Chromium VI	< 0.00025	mg/l	0.00025	EPA 218.6 Rev 3.3	03/15/23	MPB
Chromium, Trivalent	0.00279	mg/l	0.00125	CALCULATED	03/15/23	MPB
Fluoride	< 0.50	mg/l	0.50	EPA 300.0 Rev 2.1	03/09/23	KCS
Solids, Total Dissolved	174	mg/l	5	SM 2540 C	03/08/23	TMH
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	0.0028	mg/l	0.0010	EPA 200.8 Rev 5.4	03/08/23	MPB
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23	HRG



Lab ID: 2308268-06 **Collected By:** Craig Smith **Sampled:** 03/06/23 14:45 **Received:** 03/06/23 16:15

Sample Desc: MI MW Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
Chromium	9	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/07/23	HRG
General Chemistry						
Chromium VI	0.00819	mg/l	0.00250	EPA 218.6 Rev 3.3	03/22/23	MPB
Chromium, Trivalent	< 0.00350	mg/l	0.00350	CALCULATED	03/22/23	MPB
Fluoride	< 0.50	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Solids, Total Dissolved	602	mg/l	5	SM 2540 C	03/07/23	TMH
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
Chromium	0.0107	mg/l	0.0010	EPA 200.8 Rev 5.4	03/07/23	MPB
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/07/23	HRG

Lab ID: 2308268-07 **Collected By:** Craig Smith **Sampled:** 03/07/23 12:55 **Received:** 03/07/23 15:31

Sample Desc: LR-2S Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Chromium VI	0.00207	mg/l	0.00025	EPA 218.6 Rev 3.3	03/15/23	MPB
Chromium, Trivalent	0.00446	mg/l	0.00125	CALCULATED	03/15/23	MPB
Fluoride	1.09	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Solids, Total Dissolved	282	mg/l	5	SM 2540 C	03/08/23	TMH
Total Metals						
Beryllium	6	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	0.0065	mg/l	0.0010	EPA 200.8 Rev 5.4	03/08/23	MPB
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23	HRG



Lab ID: 2308268-08 **Collected By:** Craig Smith **Sampled:** 03/07/23 13:36 **Received:** 03/07/23 15:31

Sample Desc: LR-2I Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	
Dissolved Metals							•	
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Chromium	20	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23		HRG	
General Chemistry								
Chromium VI	0.0187	mg/l	0.00250	EPA 218.6 Rev 3.3	03/22/23		MPB	
Chromium, Trivalent	< 0.00350	mg/l	0.00350	CALCULATED	03/22/23		MPB	
Fluoride	6.58	mg/l	0.50	EPA 300.0 Rev 2.1	03/09/23		KCS	
Solids, Total Dissolved	412	mg/l	5	SM 2540 C	03/08/23		TMH	
Total Metals								
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23		HRG	
Chromium	0.0215	mg/l	0.0010	EPA 200.8 Rev 5.4	03/08/23		MPB	
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23		HRG	

Lab ID: 2308268-09 **Collected By:** Craig Smith **Sampled:** 03/07/23 14:14 **Received:** 03/07/23 15:31

Sample Desc: LR-2D Sample Type: Grab

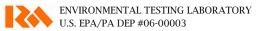
	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals	Resurt	Oint	Lillie	7 Harysis Metriou	7 Hary Zea	Tiones Thairyst
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Chromium VI	0.00036	mg/l	0.00025	EPA 218.6 Rev 3.3	03/15/23	MPB
Chromium, Trivalent	0.00587	mg/l	0.00125	CALCULATED	03/15/23	MPB
Fluoride	4.21	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Solids, Total Dissolved	453	mg/l	5	SM 2540 C	03/08/23	TMH
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Cadmium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	0.0062	mg/l	0.0010	EPA 200.8 Rev 5.4	03/08/23	MPB
Copper	<10	ug/l	10	EPA 200.7 Rev 4.4	03/09/23	HRG



Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
308268-01				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0316	03/07/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0317	03/07/2023	HRG
EPA 200.8 Rev 5.4	EPA 200.2 Rev 2.8	B3C0318	03/07/2023	HRG
308268-02				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0414	03/08/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0415	03/08/2023	HRG
EPA 200.8 Rev 5.4	EPA 200.2 Rev 2.8	B3C0416	03/08/2023	HRG
808268-03				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0414	03/08/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0415	03/08/2023	HRG
EPA 200.8 Rev 5.4	EPA 200.2 Rev 2.8	B3C0416	03/08/2023	HRG
308268-04				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0414	03/08/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0415	03/08/2023	HRG
EPA 200.8 Rev 5.4	EPA 200.2 Rev 2.8	B3C0416	03/08/2023	HRG
808268-05				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0414	03/08/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0415	03/08/2023	HRG
EPA 200.8 Rev 5.4	EPA 200.2 Rev 2.8	B3C0416	03/08/2023	HRG
808268-06				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0316	03/07/2023	HRG
Total Metals			, ,	
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0317	03/07/2023	HRG
EPA 200.8 Rev 5.4	EPA 200.2 Rev 2.8	B3C0318	03/07/2023	HRG
808268-07				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0414	03/08/2023	HRG
Total Metals			,,	
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0415	03/08/2023	HRG





EPA 200.8 Rev 5.4	EPA 200.2 Rev 2.8	B3C0416	03/08/2023	HRG
2308268-08				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0414	03/08/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0415	03/08/2023	HRG
EPA 200.8 Rev 5.4	EPA 200.2 Rev 2.8	B3C0416	03/08/2023	HRG
2308268-09				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0414	03/08/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0415	03/08/2023	HRG
EPA 200.8 Rev 5.4	EPA 200.2 Rev 2.8	B3C0416	03/08/2023	HRG



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WORK ORDER Chain of Custody



Relinquished By

0100

Project Manager: Richard A Wheeler

Client: NGK Metals Corporation

Project: MW - 4334-Rdg Crest/Laureldale Wells(OFF-SITE

Report To: NGK Metals Corporation - Lynne Woodside - 917 State Hwy 11S, Sweetwater, TN 37974

Project Notes: Samples are collected as part of a multiday sampling event.

Invoice To: NGK Metals Corporation - Jamie Lones - 917 State Hwy 11S., Sweetwater, TN 37974 Comments: Collected By: (Full Name) Matrix: Non-Potable Water Date/Time: 03-06-2023 @ Type: Grab 2308268-01 DW-34 Be EPA 200.7, Be-D EPA 200.7, Cd EPA 200.7, Cd-D EPA 200.7, Cr EPA 200.8, Cr+3 (Cr EPA 200.8, CR+6 EPA 218.6), A - Pl Liter HNO3 Cr+6 EPA 218.6, Cr-D EPA 200.7, Cu EPA 200.7, Cu-D EPA 200.7, F- EPA 300.0, TDS SM 2540C B - Pl 250ml Field Filtered, HNO3 C - Pl 500ml NP D - Pl 250ml Field Filtered, Cr+6 buffer 03-07-2023 @ 1115 Matrix: Non-Potable Water Type: Grab Date/Time: 2308268-02 LR-1S Be EPA 200.7, Be-D EPA 200.7, Cd EPA 200.7, Cd-D EPA 200.7, Cr EPA 200.8, Cr+3 (Cr EPA 200.8, CR+6 EPA 218.6), A - Pl Liter HNO3 Cr+6 EPA 218.6, Cr-D EPA 200.7, Cu EPA 200.7, Cu-D EPA 200.7, F- EPA 300.0, TDS SM 2540C B - Pl 250ml Field Filtered, HNO3 C - Pl 500ml NP D - Pl 250ml Field Filtered, Cr+6 buffer 03-07-230 Matrix: Non-Potable Water Type: Grab Date/Time: 2308268-03 LR-11 Be EPA 200.7, Be-D EPA 200.7, Cr+6 EPA 218.6, Cr-D EPA 200.7, Cu EPA 200.7, Cr EPA 200.8, Cd EPA 200.7, Cd-D A - Pl Liter HNO3 EPA 200.7, Cr+3 (Cr EPA 200.8, CR+6 EPA 218.6), Cu-D EPA 200.7, F- EPA 300.0, TDS SM 2540C B - Pl 250ml Field Filtered, HNO3 C - Pl 500ml NP D - Pl 250ml Field Filtered, Cr+6 buffer 03-07-23@1033 Matrix: Non-Potable Water Date/Time: Type: Grab 2308268-04 Reading Cres Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.8, Cr+3 (Cr EPA 200.8, CR+6 EPA 218.6), Cr+6 EPA 218.6, Cu-D EPA 200.7, A - Pl Liter HNO3 F- EPA 300.0, TDS SM 2540C, Cd EPA 200.7, Cd-D EPA 200.7, Cr-D EPA 200.7, Cu EPA 200.7 B - Pl 250ml Field Filtered, HNO3 C - PI 500ml NP D - Pl 250ml Field Filtered, Cr+6 buffer Date/Time: 03-07-23 @ 0945 Type: Grab Matrix: Non-Potable Water 2308268-05 MW-26 Cd EPA 200.7, Cr+6 EPA 218.6, Cr-D EPA 200.7, Cu EPA 200.7, Be EPA 200.7, Be-D EPA 200.7, Cd-D EPA 200.7, Cr A - Pl Liter HNO3 EPA 200.8, Cr+3 (Cr EPA 200.8, CR+6 EPA 218.6), Cu-D EPA 200.7, F- EPA 300.0, TDS SM 2540C B - Pl 250ml Field Filtered, HNO3 C - PI 500ml NP D - Pl 250ml Field Filtered, Cr+6 buffer Received By Date/Time Sample Kit Prepared By Date/Time KIMO

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Date/Time

Page 1 of 2

Date/Time

Received at Laboratory By

Karinen M. de stoon

Printed: 2/27/2023 3:41:34PM

1531

Sample Temp (°C): Samples on Ice? No Approved By: Entered By:

> Report Templa Page 8 of 21

Client Code:

0100

Project Manager: Richard A Wheeler

Client: NGK Metals Corporation

Project: MW - 4334-Rdg Crest/Laureldale Wells(OFF-SIT

Comments:

Collected By: (Full Name)

Matrix: Non-Potable Water

Matrix: Non-Potable Water

Matrix: Non-Potable Water

Type: Grab

Type: Grab

Type: Grab

Date/Time: 03-06-2023 @

Date/Time: 03-07-2023@ 1336

Be EPA 200.7, Be-D EPA 200.7, Cd EPA 200.7, Cd-D EPA 200.7, Cr EPA 200.8, Cr+3 (Cr EPA 200.8, CR+6 EPA 218.6), Cr+6 EPA 218.6, Cu-D EPA 200.7, F- EPA 300.0, TDS SM 2540C, Cr-D EPA 200.7, Cu EPA 200.7

A - Pl Liter HNO3

B - Pl 250ml Field Filtered, HNO3

C - Pl 500ml NP

D - Pl 250ml Field Filtered, Cr+6 buffer

2308268-07 LR-2S

2308268-06 MI MW

Cd EPA 200.7, Cd-D EPA 200.7, Cr-D EPA 200.7, Cu EPA 200.7, Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.8, Cr+3 (Cr EPA 200.8, CR+6 EPA 218.6), Cr+6 EPA 218.6, Cu-D EPA 200.7, F- EPA 300.0, TDS SM 2540C

A - Pl Liter HNO3

B - Pl 250ml Field Filtered, HNO3

C - Pl 500ml NP

D - Pl 250ml Field Filtered, Cr+6 buffer

2308268-08 LR-2I

Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.8, Cr+3 (Cr EPA 200.8, CR+6 EPA 218.6), Cr+6 EPA 218.6, Cu-D EPA 200.7,

F- EPA 300.0, TDS SM 2540C, Cd EPA 200.7, Cd-D EPA 200.7, Cr-D EPA 200.7, Cu EPA 200.7

A - Pl Liter HNO3

B - Pl 250ml Field Filtered, HNO3

C - Pl 500ml NP

D - Pl 250ml Field Filtered, Cr+6 buffer

Matrix: Non-Potable Water

Type: Grab

Date/Time:

Date/Time:

03-07-20230 1414

2023@1255

2308268-09 LR-2D

Cd EPA 200.7, Cd-D EPA 200.7, Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.8, Cr+3 (Cr EPA 200.8, CR+6 EPA 218.6), Cr+6 EPA 218.6, Cr-D EPA 200.7, Cu EPA 200.7, Cu-D EPA 200.7, F- EPA 300.0, TDS SM 2540C

A - Pl Liter HNO3

B - Pl 250ml Field Filtered, HNO3

C - Pl 500ml NP

D - Pl 250ml Field Filtered, Cr+6 buffer

Received By Date/Time Date/Time Relinquished By Date/Time Date/Time 123 1531 The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and Printed: 2/27/2023 3:41:34PM

Sample Kit Prepared By KIND

Entered By:

Sample Temp (°C): Samples on Ice? Approved By:

No NA

Date/Time

Page 9 of 21

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Analytical Results, Sample Collection Integrity & Subcontracting

Analytical values are for the sample as submitted and relate only to the item tested. The value indicates a snapshot of the constituent content of the sample at the time of sample collection. Analytical results can be impacted by poor sample collection technique and/or improper preservation. All sample collection completed by MJRA was performed in accordance with applicable regulatory protocols or as specified in customer specific sampling plans. Constituent content will vary over time based on the matrix of the sample and the physical and chemical changes to its environment. All sample results and laboratory reports are strictly confidential. Results will not be available to anyone except the primary client or authorized party representing the client unless MJRA receives additional permissions from the client. When necessary, MJRA will subcontract certain analyses to a third party accredited laboratory. If client prohibits subcontracting, it must be provided in writing and include instruction on how to proceed with client samples that require third party analyses.

Payment Terms

Payment Terms are Net 30 days. Prices are subject to change without notice. A standing monthly charge of 1.5% of the clients over-30-day-unpaid balance may be added to the balance after 30 days and each month thereafter (day 31, 61, 91 etc.). The laboratory accepts all major credit cards, ACH transactions, checks and cash. New clients must pay for all services rendered prior to sample collection and/or in some cases report processing. Clients must contact the MJRA accounting department to pursue a credit-based account. MJRA reserves the right to terminate the client's credit account and to refuse to perform additional services on a credit basis if any balance is outstanding for more than 60 days.

Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the day of its discovery and within one year of the date of invoice.

Reviewed and Approved by:

Richard A Wheeler Director of Field Services





ENVIRONMENTAL TESTING LABORATORY U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2308269 **Report:** 03/23/23

Lab Contact: Richard A Wheeler

Attention: Lynne Woodside

Reported To: NGK Metals Corporation

917 State Hwy 11S Sweetwater, TN 37974 **Project Info:** MW - 4444 - Qtly DW-12, DW-29, DW-30,

DW-32, P-1

Lab ID: 2308269-01

Sample Desc: DW-12

Collected By: Craig Smith

Sampled: 03/09/23 10:38 **Rece**

Received: 03/09/23 15:36

Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes Analyst
5: 1 11/	Result	Omt	LIIIII	Allalysis Method	Anaryzeu	Notes Allalyst
Dissolved Metals						
Beryllium	14	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	12	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
General Chemistry						
Fluoride	6.24	mg/l	0.50	EPA 300.0 Rev 2.1	03/11/23	KCS
Total Metals						
Beryllium	18	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	16	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG

Lab ID: 2308269-02 **Collected By:** Craig Smith **Sampled:** 03/09/23 13:32 **Received:** 03/09/23 15:36

Sample Desc: DW-29

Sample Type: Grab

Rep. Unit Result Limit Analysis Method Analyzed Notes Analyst Dissolved Metals Beryllium 203 5 EPA 200.7 Rev 4.4 03/14/23 HRG ug/1 Chromium 20 5 EPA 200.7 Rev 4.4 03/14/23 HRG ug/1 General Chemistry Fluoride 0.50 EPA 300.0 Rev 2.1 KCS 19.3 03/11/23 mg/l Total Metals Beryllium 214 EPA 200.7 Rev 4.4 03/14/23 HRG 5 ug/1 5 EPA 200.7 Rev 4.4 HRG Chromium 21 03/14/23 ug/1



Lab ID: 2308269-03 **Collected By:** Craig Smith **Sampled:** 03/09/23 12:15 **Received:** 03/09/23 15:36

Sample Desc: DW-30 Sample Type: Grab

Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes Analyst	
recourt	01110	231111	That, old Piction	i mary zea	Tioteo Tinayor	
9	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	
50	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	
7.19	mg/l	0.50	EPA 300.0 Rev 2.1	03/11/23	KCS	
10	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	
52	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	
	50 7.19 10	9 ug/l 50 ug/l 7.19 mg/l 10 ug/l	Result Unit Limit 9 ug/l 5 50 ug/l 5 7.19 mg/l 0.50 10 ug/l 5	Result Unit Limit Analysis Method 9 ug/l 5 EPA 200.7 Rev 4.4 50 ug/l 5 EPA 200.7 Rev 4.4 7.19 mg/l 0.50 EPA 300.0 Rev 2.1 10 ug/l 5 EPA 200.7 Rev 4.4	Result Unit Limit Analysis Method Analyzed 9 ug/l 5 EPA 200.7 Rev 4.4 03/14/23 50 ug/l 5 EPA 200.7 Rev 4.4 03/14/23 7.19 mg/l 0.50 EPA 300.0 Rev 2.1 03/11/23 10 ug/l 5 EPA 200.7 Rev 4.4 03/14/23	Result Unit Limit Analysis Method Analyzed Notes Analyst 9 ug/l 5 EPA 200.7 Rev 4.4 03/14/23 HRG 50 ug/l 5 EPA 200.7 Rev 4.4 03/14/23 HRG 7.19 mg/l 0.50 EPA 300.0 Rev 2.1 03/11/23 KCS 10 ug/l 5 EPA 200.7 Rev 4.4 03/14/23 HRG

Lab ID: 2308269-04 **Collected By:** Craig Smith **Sampled:** 03/09/23 12:35 **Received:** 03/09/23 15:36

Sample Desc: DW-32 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	27	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	199	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
General Chemistry						
Fluoride	11.3	mg/l	0.50	EPA 300.0 Rev 2.1	03/11/23	KCS
Total Metals						
Beryllium	28	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	208	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG

Lab ID: 2308269-05 **Collected By:** Craig Smith **Sampled:** 03/06/23 13:06 **Received:** 03/06/23 16:15

Sample Desc: P-1 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
General Chemistry						
Fluoride	0.63	mg/l	0.50	EPA 300.0 Rev 2.1	03/11/23	KCS
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
Chromium	6	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG



Lab ID: 2308269-06 **Collected By:** Craig Smith **Sampled:** 03/06/23 13:50 **Received:** 03/06/23 16:15

Sample Desc: P-1D Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
Chromium	20	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
General Chemistry						
Fluoride	1.69	mg/l	0.50	EPA 300.0 Rev 2.1	03/11/23	KCS
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG
Chromium	24	ug/l	5	EPA 200.7 Rev 4.4	03/07/23	HRG



Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2308269-01				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0580	03/10/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0582	03/10/2023	HRG
2308269-02				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0580	03/10/2023	HRG
Total Metals		Dacoroa		IID C
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0582	03/10/2023	HRG
2308269-03				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0580	03/10/2023	HRG
Total Metals	TTP 1 000 0 P	D2C0502	0.0 / 1.0 / 0.00	LIDG
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0582	03/10/2023	HRG
2308269-04				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0580	03/10/2023	HRG
Total Metals	TTP 1 000 0 P	P2C0502	0.0 / 1.0 / 0.00	LIDG
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0582	03/10/2023	HRG
2308269-05				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0316	03/07/2023	HRG
Total Metals EPA 200.7 Rev 4.4	EBA 200 2 B 2 0	B3C0317	02/07/2022	HRG
	EPA 200.2 Rev 2.8	D3C0317	03/07/2023	HKG
2308269-06				
Dissolved Metals		Pa@004.6		IID C
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0316	03/07/2023	HRG
Total Metals EPA 200.7 Rev 4.4	EDA 200 2 B 2 2 9	D2C0217	02/07/2022	⊔вс
EPA 200./ KeV 4.4	EPA 200.2 Rev 2.8	B3C0317	03/07/2023	HRG



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WORK ORDER Chain of Custody



Client Code:

0100

Project Manager: Richard A Wheeler

Client: NGK Metals Corporation

Project: MW - 4444 - Qtly DW-12, DW-29, DW-30, DW-32,

Report To: NGK Metals Corporation - Lynne Woodside - 917 State Hwy 11S, Sweetwater, TN 37974

Project Notes: Samples are collected as part of a multiday sampling event.

Invoice To: NGK Metals Corporation - Lynne Woodside - 917 State Hwy 11S, Sweetwater, TN 37974 Comments: Collected By: (Full Name) Matrix: Non-Potable Water Type: Grab 2308269-01 DW-12 Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03-09-2023 @ 1332 Matrix: Non-Potable Water Type: Grab 2308269-02 DW-29 Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP 03-09-2023@1215 Matrix: Non-Potable Water Type: Grab 2308269-03 DW-30 Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03-09-2023@ 1235 Matrix: Non-Potable Water Type: Grab 2308269-04 DW-32 Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - PI 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03-06-2023 @ 1306 Matrix: Non-Potable Water Type: Grab 2308269-05 P-1 Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03-06-2023 @ 1350 Matrix: Non-Potable Water Type: Grab 2308269-06 P-1D Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time Sample Kit Prepared By Date/Time IMC. Sample Temp (°C): Samples on Ice? Relinquished By -Date/Time

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Page 1 of 1

3/9/23 1536

Kathler M. al apar

Printed: 2/27/2023 3:41:43PM

Approved By: Entered By:

Page 5 of 17 Report Ter

MJRA Terms & Conditions

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Analytical values are for the sample as submitted and relate only to the item tested. The value indicates a snapshot of the constituent content of the sample at the time of sample collection. Analytical results can be impacted by poor sample collection technique and/or improper preservation. All sample collection completed by MJRA was performed in accordance with applicable regulatory protocols or as specified in customer specific sampling plans. Constituent content will vary over time based on the matrix of the sample and the physical and chemical changes to its environment. All sample results and laboratory reports are strictly confidential. Results will not be available to anyone except the primary client or authorized party representing the client unless MJRA receives additional permissions from the client. When necessary, MJRA will subcontract certain analyses to a third party accredited laboratory. If client prohibits subcontracting, it must be provided in writing and include instruction on how to proceed with client samples that require third party analyses.

Payment Terms

Payment Terms are Net 30 days. Prices are subject to change without notice. A standing monthly charge of 1.5% of the clients over-30-day-unpaid balance may be added to the balance after 30 days and each month thereafter (day 31, 61, 91 etc.). The laboratory accepts all major credit cards, ACH transactions, checks and cash. New clients must pay for all services rendered prior to sample collection and/or in some cases report processing. Clients must contact the MJRA accounting department to pursue a credit-based account. MJRA reserves the right to terminate the client's credit account and to refuse to perform additional services on a credit basis if any balance is outstanding for more than 60 days.

Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the day of its discovery and within one year of the date of invoice.

Reviewed and Approved by:

Richard A Wheeler Director of Field Services





ENVIRONMENTAL TESTING LABORATORY U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2308270 **Report:** 03/23/23

Lab Contact: Richard A Wheeler

Attention: Lynne Woodside

Reported To: NGK Metals Corporation

917 State Hwy 11S Sweetwater, TN 37974 **Project Info:** MW - 4543Q On-Site Wells, Qtly -

NGK/Laureldale

Lab ID: 2308270-01 **Collected By:** Craig Smith **Sampled:** 03/10/23 10:24 **Received:** 03/10/23 14:07

Sample Desc: SW-8 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	51	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
General Chemistry						
Fluoride	3.58	mg/l	0.50	EPA 300.0 Rev 2.1	03/11/23	KCS
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	53	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG

Lab ID: 2308270-02 **Collected By:** Craig Smith **Sampled:** 03/10/23 09:51 **Received:** 03/10/23 14:07

Sample Desc: DW-8 Sample Type: Grab

			Rep.				
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst	
Dissolved Metals							
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	
General Chemistry							
Fluoride	2.68	mg/l	0.50	EPA 300.0 Rev 2.1	03/11/23	KCS	
Total Metals							
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	
Chromium	5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	



Lab ID: 2308270-03 **Collected By:** Craig Smith **Sampled:** 03/10/23 11:55 **Received:** 03/10/23 14:07

Sample Desc: SW-10 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
General Chemistry						
Fluoride	1.19	mg/l	0.50	EPA 300.0 Rev 2.1	03/11/23	KCS
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG

Lab ID: 2308270-04 **Collected By:** Craig Smith **Sampled:** 03/10/23 11:22 **Received:** 03/10/23 14:07

Sample Desc: DW-10 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
General Chemistry						
Fluoride	< 0.50	mg/l	0.50	EPA 300.0 Rev 2.1	03/11/23	KCS
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG

Lab ID: 2308270-05 **Collected By:** Craig Smith **Sampled:** 03/09/23 15:03 **Received:** 03/09/23 15:36

Sample Desc: SW-12 Sample Type: Grab

			Rep.				
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst	
Dissolved Metals							
Beryllium	8	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	
General Chemistry							
Fluoride	2.08	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS	
Total Metals							
Beryllium	9	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG	



Lab ID: 2308270-06 **Collected By:** Craig Smith **Sampled:** 03/09/23 09:56 **Received:** 03/09/23 15:36

Sample Desc: DW-13 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	315	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
General Chemistry						
Fluoride	31.0	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG
Chromium	347	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	HRG

Lab ID: 2308270-07 **Collected By:** Craig Smith **Sampled:** 03/09/23 14:15 **Received:** 03/09/23 15:36

Sample Desc: SW-14 Sample Type: Grab

			Rep.				
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Ar	nalyst
Dissolved Metals							
Beryllium	177	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	I	HRG
Chromium	268	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	I	HRG
General Chemistry							
Fluoride	17.1	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	1	KCS
Total Metals							
Beryllium	178	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	I	HRG
Chromium	275	ug/l	5	EPA 200.7 Rev 4.4	03/14/23	I	HRG

Lab ID: 2308270-08 **Collected By:** Craig Smith **Sampled:** 03/08/23 13:32 **Received:** 03/08/23 16:12

Sample Desc: SW-16 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Fluoride	< 0.50	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG



Lab ID: 2308270-09 **Collected By:** Craig Smith **Sampled:** 03/08/23 12:52 **Received:** 03/08/23 16:12

Sample Desc: DW-16 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Fluoride	1.35	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG

Lab ID: 2308270-10 **Collected By:** Craig Smith **Sampled:** 03/08/23 11:56 **Received:** 03/08/23 16:12

Sample Desc: SW-17 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Fluoride	< 0.50	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG

Lab ID: 2308270-11 **Collected By:** Craig Smith **Sampled:** 03/08/23 11:10 **Received:** 03/08/23 16:12

Sample Desc: DW-17 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Fluoride	2.01	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Total Metals						
Beryllium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG



Lab ID: 2308270-12 **Collected By:** Craig Smith **Sampled:** 03/08/23 15:34 **Received:** 03/08/23 16:12

Sample Desc: SW-23 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	65	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Fluoride	2.39	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Total Metals						
Beryllium	64	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	<5	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG

Lab ID: 2308270-13 **Collected By:** Craig Smith **Sampled:** 03/08/23 14:52 **Received:** 03/08/23 16:12

Sample Desc: DW-28 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	42	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	13	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Fluoride	4.56	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Total Metals						
Beryllium	43	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	14	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG

Lab ID: 2308270-14 **Collected By:** Craig Smith **Sampled:** 03/08/23 14:20 **Received:** 03/08/23 16:12

Sample Desc: SW-28 Sample Type: Grab

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Dissolved Metals						
Beryllium	36	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	13	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
General Chemistry						
Fluoride	3.02	mg/l	0.50	EPA 300.0 Rev 2.1	03/10/23	KCS
Total Metals						
Beryllium	36	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG
Chromium	15	ug/l	5	EPA 200.7 Rev 4.4	03/09/23	HRG



Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared I
2308270-01				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0755	03/14/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0756	03/14/2023	HRG
2308270-02				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0755	03/14/2023	HRG
Total Metals		D2C0754	/ /	LIDG
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0756	03/14/2023	HRG
2308270-03				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0755	03/14/2023	HRG
Total Metals	EDA 200 2 D 20	D2C075/	02/44/2022	LIDG
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0756	03/14/2023	HRG
2308270-04				
Dissolved Metals		Da Co#55		IID C
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0755	03/14/2023	HRG
Total Metals EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0756	02/14/2022	HRG
	EPA 200.2 Rev 2.8	D3C0730	03/14/2023	TIKG
2308270-05				
Dissolved Metals EPA 200.7 Rev 4.4	EDA 200 2 B 20	D2C0500	02/40/2002	LIDC
Total Metals	EPA 200.2 Rev 2.8	B3C0580	03/10/2023	HRG
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0582	03/10/2023	HRG
2308270-06	L1 1/ 200.2 Rev 2.0	5300302	03/ 10/ 2023	TINO
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0580	03/10/2023	HRG
Total Metals	EFA 200.2 Rev 2.0	D3C0300	03/10/2023	TIKO
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0582	03/10/2023	HRG
2308270-07			, .,	
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0580	03/10/2023	HRG
Total Metals			00, 00, 000	
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0582	03/10/2023	HRG
2308270-08				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0490	03/09/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0491	03/09/2023	HRG
2308270-09				



Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0490	03/09/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0491	03/09/2023	HRG
2308270-10				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0490	03/09/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0491	03/09/2023	HRG
2308270-11				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0490	03/09/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0491	03/09/2023	HRG
2308270-12				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0490	03/09/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0491	03/09/2023	HRG
2308270-13				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0490	03/09/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0491	03/09/2023	HRG
2308270-14				
Dissolved Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0490	03/09/2023	HRG
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B3C0491	03/09/2023	HRG



Client Code:

M.J. Reider Associates, Inc.

107 Angelica St, Reading PA, 19611 610-374-5129 www.mjreider.com

0100

Project Manager: Richard A Wheeler

to pay for the above requested services including any additional associated fees incurred.

Client: NGK Metals Corporation

WORK ORDER

Chain of Custody

Project: MW - 4543Q On-Site Wells, Qtly - NGK/Laureldale

2308270

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Report Templat

Report To: NGK Metals Corporation - Lynne Woodside - 917 State Hwy 11S, Sweetwater, TN 37974 Project Notes: Samples are collected as part of a multiday sampling event. Invoice To: NGK Metals Corporation - Jamie Lones - 917 State Hwy 11S., Sweetwater, TN 37974 Comments: Collected By: (Full Name) Matrix: Non-Potable Water Type: Grab Date/Time: 03-10-2023 2308270-01 SW-8 Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Matrix: Non-Potable Water Date/Time: 03-10-2023 @ 0951 Type: Grab 2308270-02 DW-8 Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03-10-2023 @ 1155 Matrix: Non-Potable Water Type: Grab 2308270-03 SW-10 Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - PI 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Matrix: Non-Potable Water Date/Time: 03-10-2023@1122 Type: Grab 2308270-04 DW-10 Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - PI 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03-09-2023 @ 1503 Matrix: Non-Potable Water Type: Grab 2308270-05 SW-12 Be EPA 200.7, Be-D EPA 200.7, F- EPA 300.0, Cr EPA 200.7, Cr-D EPA 200.7 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Matrix: Non-Potable Water Date/Time: 03 - 09 - 2023 @ 0956 Type: Grab 2308270-06 DW-13 Be EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0, Be-D EPA 200.7, Cr EPA 200.7 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time Sample Kit Prepared By Date/Time Date/Time Sample Temp (°C): 3/9/23 1536 Kathling Midle Relinquished By Samples on Ice? Received at Laboratory By Approved By: Entered By: The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and

Printed: 2/27/2023 3:41:53PM



Client Code:

0100

Client: NGK Metals Corporation

Project Manager: Richard A Wheeler Project: MW - 4543Q On-Site Wells, Qtly - NGK/Laurelda Comments: Collected By: (Full Name) Matrix: Non-Potable Water Type: Grab Date/Time: 2308270-07 SW-14 03-09-2023 @ Cr EPA 200.7, Cr-D EPA 200.7, Be EPA 200.7, Be-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03 -08-2023 @ \332 Matrix: Non-Potable Water Type: Grab 2308270-08 SW-16 Be-D EPA 200.7, Cr EPA 200.7, Be EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03 -08- 2013 Matrix: Non-Potable Water Type: Grab 2308270-09 DW-16 Be EPA 200.7, Be-D EPA 200.7, F- EPA 300.0, Cr EPA 200.7, Cr-D EPA 200.7 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03-08-2023 @1156 Matrix: Non-Potable Water Type: Grab 2308270-10 SW-17 Be EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0, Be-D EPA 200.7, Cr EPA 200.7 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03-08-2023 @ 1110 Matrix: Non-Potable Water Type: Grab 2308270-11 DW-17 Be EPA 200.7, Be-D EPA 200.7, Cr EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - Pl 250ml NP Date/Time: 03-08-2023 @ 153 Matrix: Non-Potable Water Type: Grab 2308270-12 SW-23 Be-D EPA 200.7, Cr EPA 200.7, Be EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0 A - Pl 500ml HNO3 B - Pl 250ml Field Filtered, HNO3 C - PI 250ml NP Date/Time Sample Kit Prepared By Sample Temp (°C): Relinquished By Date/Time Received at Laboratory By

3/9/23 1536

Printed: 2/27/2023 3:41:53PM

Samples on Ice? Approved By: Entered By:

Report Temp

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The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.



Client Code:

0100

Project Manager: Richard A Wheeler

Client: NGK Metals Corporation

Project: MW - 4543Q On-Site Wells, Qtly - NGK/Laurelda

Comments:

Collected By: (Full Name)

2308270-14 SW-28

Matrix: Non-Potable Water

Type: Grab

Date/Time: 03-08-2023

2308270-13 DW-28 Be EPA 200.7, Be-D EPA 200.7, F- EPA 300.0, Cr EPA 200.7, Cr-D EPA 200.7

A - Pl 500ml HNO3

B - Pl 250ml Field Filtered, HNO3

C - Pl 250ml NP

Matrix: Non-Potable Water

Type: Grab

Date/Time: 03-08-2023@1420

Be EPA 200.7, Cr-D EPA 200.7, F- EPA 300.0, Be-D EPA 200.7, Cr EPA 200.7

A - PI 500ml HNO3

B - Pl 250ml Field Filtered, HNO3

C - Pl 250ml NP

Com //	3-8-230	2/612	
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
		$ \bigcirc$ \bigcirc \bigcirc	3-8-73 16:12
Relinquished By	Date/Time	Received at Laboratory By	MAR 1 0 2023 1407

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

drawn	U	2023	140	1
	Pr-	inted: 2/2	7/2023	3-/11-53P

Sample Kit Prepared By Date/Time Sample Temp (°C): Samples on Ice? Approved By: Entered By:

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MJRA Terms & Conditions

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Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the day of its discovery and within one year of the date of invoice.

Reviewed and Approved by:

Richard A Wheeler Director of Field Services





ENVIRONMENTAL TESTING LABORATORY U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2308271 **Report:** 03/23/23

Lab Contact: Richard A Wheeler

Attention: Lynne Woodside

Reported To: NGK Metals Corporation

917 State Hwy 11S Sweetwater, TN 37974 **Project Info:** MW - Residential Well OS-2 (Quarterly)

Lab ID: 2308271-01 **Collected By:** Craig Smith **Sampled:** 03/06/23 11:35 **Received:** 03/06/23 16:15

Sample Desc: OS-2 Sample Type: Grab

			Rep.				
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst	
General Chemistry				•	•		
Fluoride	0.67	mg/l	0.50	EPA 300.0 Rev 2.1	03/07/23	KCS	
Total Metals							
Beryllium	< 0.0008	mg/l	0.0008	EPA 200.8 Rev 5.4	03/08/23	MPB	
Chromium	0.03	mg/l	0.02	EPA 200.8 Rev 5.4	03/08/23	MPB	
Copper	0.007	mg/l	0.001	EPA 200.8 Rev 5.4	03/08/23	MPB	
Volatiles							
1,1,1-Trichloroethane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
1,1,2,2-Tetrachloroethane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
1,1,2-Trichloroethane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
1,1-Dichloroethane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
1,1-Dichloroethene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
1,2-Dichlorobenzene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
1,2-Dichloroethane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
1,2-Dichloropropane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
1,3-Dichlorobenzene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
1,4-Dichlorobenzene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Benzene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Bromodichloromethane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Bromoform	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Bromomethane (Methyl Bromide)	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Carbon Tetrachloride	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Chlorobenzene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Chloroethane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Chloroform	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Chloromethane (Methyl Chloride)	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Cis-1,2-Dichloroethene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Cis-1,3-Dichloropropene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Dibromochloromethane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	



Lab ID: 2308271-01 Continued

			Rep.				
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst	
Volatiles							
Dichlorodifluoromethane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Ethylbenzene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Methylene Chloride	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
(Dichloromethane) Tetrachloroethene (PCE)	0.0010	/1	0.0005	EPA 524.2 Rev 4.1	03/13/23	WIS	
` '		mg/l			, ,	J	
Toluene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Trans-1,2-Dichloroethene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Trans-1,3-Dichloropropene	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Trichloroethene (TCE)	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Trichlorofluoromethane	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Vinyl Chloride	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/13/23	WJS	
Surrogates							
1,2-Dichlorobenzene-d4	97.8%		70-130	EPA 524.2 Rev 4.1	03/13/23	WJS	
4-Bromofluorobenzene	98.4%		70-130	EPA 524.2 Rev 4.1	03/13/23	WJS	

Lab ID: 2308271-02 **Collected By:** Craig Smith **Sampled:** 03/06/23 11:35 **Received:** 03/06/23 16:15

Sample Desc: OS-2 TRIP BLANK Sample Type: Grab

Comments: Trip Blank for 2308271-01

			Rep.			
	Result	Unit	Limit	Analysis Method	Analyzed	Notes Analyst
Volatiles						
Tetrachloroethene (PCE)	< 0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	03/14/23	WJS
Surrogates						
1,2-Dichlorobenzene-d4	91.6%		70-130	EPA 524.2 Rev 4.1	03/14/23	WJS
4-Bromofluorobenzene	92.8%		70-130	EPA 524.2 Rev 4.1	03/14/23	WJS



107 Angelica St, Reading PA, 19611 610-374-5129 www.mjreider.com

0100

Project Manager: Richard A Wheeler

Client: NGK Metals Corporation

Project: MW - Residential Well OS-2 (Quarterly)

WORK ORDER

Chain of Custody

Report To: NGK Metals Corporation - Lynne Woodside - 917 State Hwy 11S, Sweetwater, TN 37974 Invoice To: NGK Metals Corporation - Lynne Woodside - 917 State Hwy 11S, Sweetwater, TN 37974

Project Notes: Mail copy of report to James Buzzard. 522 Florida Ave. Reading Pa 19605

2308271

Collected By: Craig Smith	Comments	:		
308271-01 OS-2 Be EPA 200.8, Cr EPA 200.8, Cu EPA 200.8, F- EPA 300.0, VOA EPA 524.2	Matrix: Drinking Water	Type: Grab A - Pl Liter HNO3 B - Pl 250ml NP C - Vial 40ml Asc & F D - Vial 40ml Asc & F	ICL (pH<2), zero	hdspc

am 9	-03-06-2	2301415					
Relinquished By	Date/Time	Received By	Date/Time				
Relinquished By	Date/Time	Received By	Date/Time				
Relinquished By	Date/Time	Received at Laboratory By	Date/Time Date/Time	3 1613			
	- Company of the Comp						

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Printed: 2/27/2023 3:42:01PM

Sample Kit Prepared By MAC

Date/Time 2 7 2023

Sample Temp (°C):

Samples on Ice? Approved By: Entered By:

F - Vial TRIP BLANK 40ml Asc & HCl (pH<2), zero hdspc

NA

Page 3 of 4 Report Templa

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

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