



Freeport-McMoRan Chino Mines Company
P.O. Box 10.
Bayard, NM 88023

October 30, 2024

Certified Mail # 70190140000026680556

Mr. Joseph Fox, Manager
New Mexico Environment Department
Ground Water Quality Bureau
Mining Environmental Compliance Section
P. O. Box 5624
Santa Fe, New Mexico 87502

Dear Mr. Fox:

**Re: Annual Monitoring Report, Groundhog Mine Site IRA
Hanover-Whitewater Creeks Investigation Unit, Chino AOC**

Freeport-McMoRan Chino Mines Company (Chino) submits the attached Annual Monitoring Report for the completed Groundhog Mine Site Interim Remedial Action (IRA) for the monitoring period ending September 30, 2024. The Groundhog Mine Site IRA was completed by Chino pursuant to requirements of the Administrative Order on Consent (AOC) between the New Mexico Environment Department (NMED) and Chino.

As per Section 6.0 of both the IRA Completion Report and of the Completion Report for the Osceolla, CG Bell, and Tenderfoot B Stockpiles IRA dated June 10, 2009, this annual monitoring report includes the bulleted information listed below.

- Data tabulation sheet of analytical results screened against NM Groundwater Quality Standards from monitoring well and surface water samples collected at the Groundhog Mine Site;
- Copies of the original laboratory data sheets; and
- **Figure 1** illustrates locations for all the IRA sites.

The attached ground water quality data are for monitor wells GH-2004-2S and GH-2004-2D. See Figure 1 for well locations. Beginning in 2009 shallow ground water quality began to increase in concentrations for cadmium, manganese, sulfate, TDS, and zinc. This is being addressed as part of the Discharge Permit DP-1340 Site Wide Abatement (SWA) process. A *Draft Revised Final Site Investigation Report* under Stage I Site Wide Abatement dated March 30, 2016, is under review by NMED.

Water quality data in the table for the existing surface impoundment system are also provided. The surface impoundment sampling locations include the Lower Stormwater Sump "GH-Sump" and the Lower Stormwater Pond "GH-Lower Pond" which make up the Groundhog Mine seepage collection system located up-gradient of, and including, the headwall. See Figure 1. Surface water from this collection system when present is pumped to Reservoir 17 for use as process water.

Chino has continued monitoring surface water quality for improvements from remediation at this seepage collection system for sixteen years as it is the downstream drainage endpoint for the Groundhog Mine Site. Sample results are provided in this annual report, as per the Groundhog IRA Completion Report, to document improving water quality. Upon reaching water quality

standards, and following the Record of Decision, the watershed surface water from the remediated mine site runoff, as per the completion report, would flow into Whitewater Creek.

Currently the operational pipelines for the Chino mill divide the IRA site and the Groundhog Mine seepage collection system. Thus, the Groundhog Lower Stormwater Pond is now utilized by mine operations as a containment for upset conditions in the event of a pipeline break as part of the "pipeline spill containment system" under Discharge Permit DP-484. The Groundhog Lower Pond, and the upstream natural drainage comprising the collection system, will no longer be included in the Groundhog Mine IRA as the remedial objectives are not in alignment with active operations. See **Figure 2**.

In alignment with comments made by NMED in a letter dated March 21, 2018, Chino has requested the Groundhog Lower Pond collection system be removed from the oversight of the AOC and placed under Discharge Permit DP-484. The renewed DP-484 (issued January 19, 2024) has met that request and now incorporates the collection system, addressing this portion of the IRA site that is now part of active operations. Additionally, DP 1340 also incorporates this area of the Groundhog site under closure/closeout permit (CCP) requirements (5 year CCP plan submitted October 30, 2024) as well as under Site Wide Abatement (SWA).

Chino requests that NMED address the removal of these acres identified in Figure 2 from the AOC monitoring requirements and from the AOC Hanover-Whitewater Creek Investigative Unit. Surface water and groundwater water quality data should now be addressed under DP 484 and DP 1340 SWA.

If you require additional information regarding this submittal, please contact Ms. Pam Pinson at (575) 912-5213.

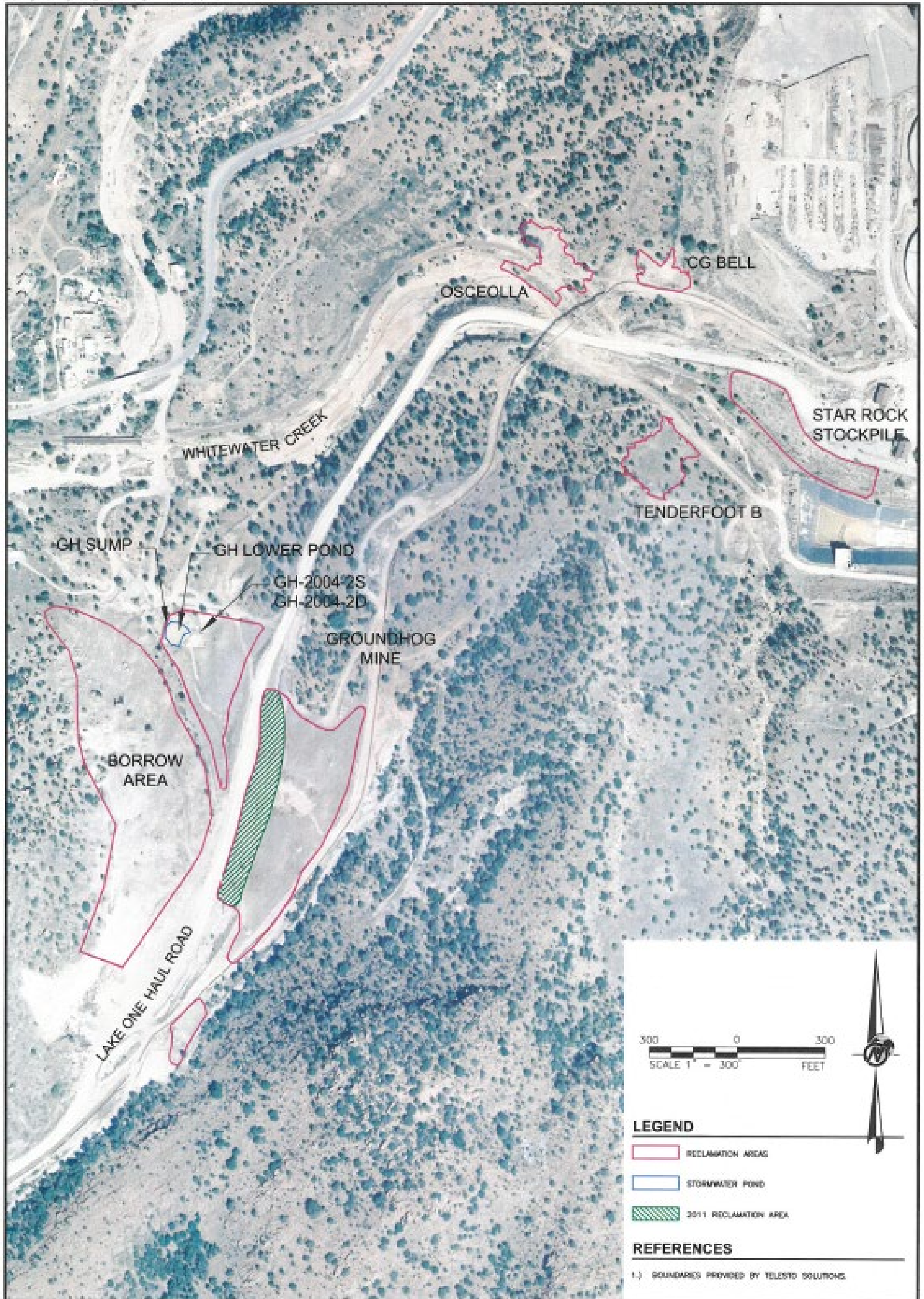
Sincerely,



Sherry Burt-Kestel, Manager
Environmental Services

SBK:pp
Enclosures
20241030-003

ec: David Mercer, NMED (via email)
Joseph Fox, NMED (via email)
D.J. Ennis, Mining & Minerals Division, NMEMNRD (via email)
Petra Sanchez, Environmental Protection Agency (via email)
Steward, Mike, FMI (via email)
Mariana Lafon, Chino



LEGEND

- RECLAMATION AREAS
- STORMWATER POND
- 2011 RECLAMATION AREA

REFERENCES

- 1.) BOUNDARIES PROVIDED BY TELESTO SOLUTIONS

FIGURE 1

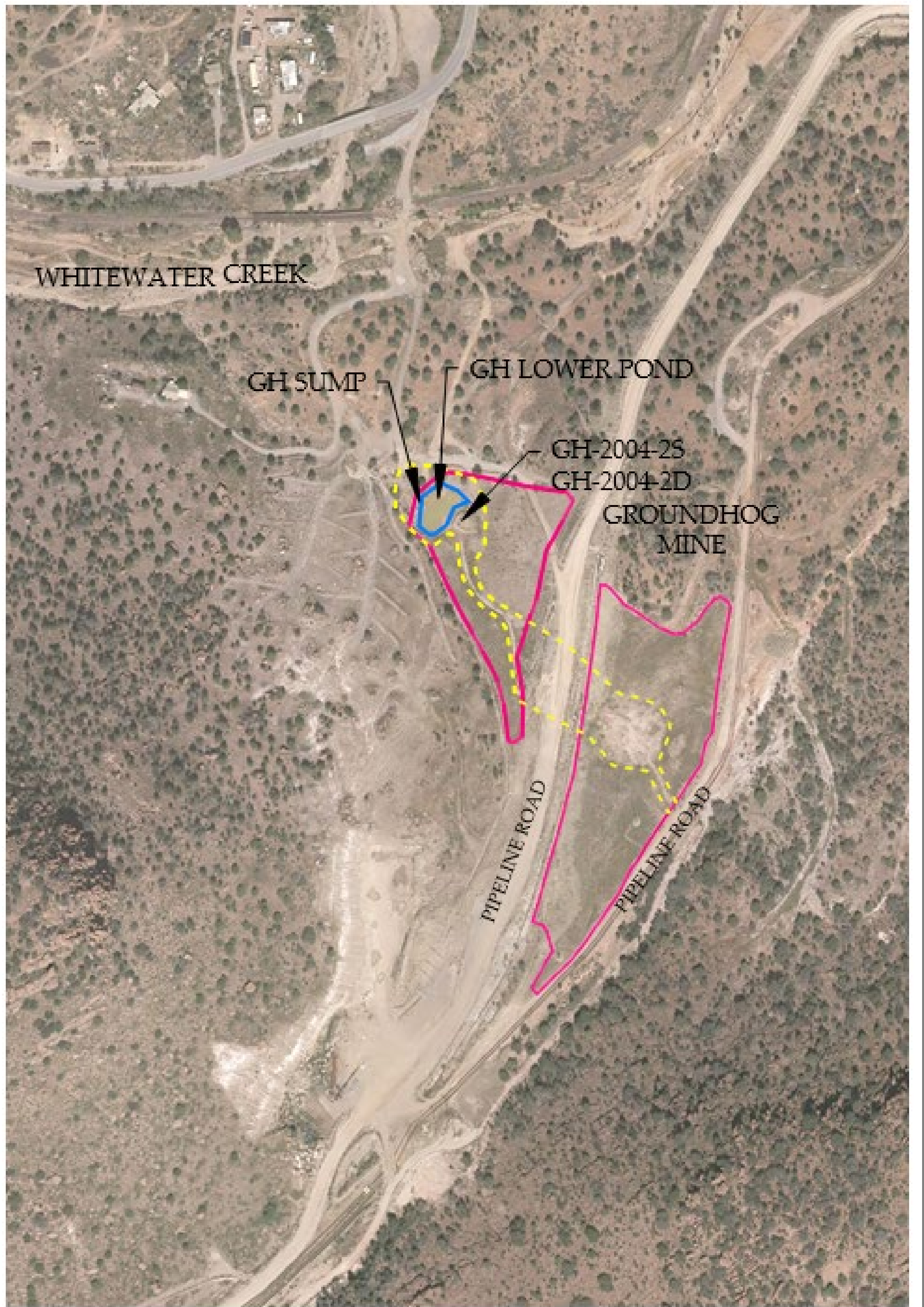
PROJECT NO.	141-1180
FILE NO.	Figure01.dwg
REV.	0 SCALE AS SHOWN
DATE	10/29/14
BY	GH
CHECKED	GS
DATE	10/29/14
APPROVED	GS

TITLE
**ANNUAL MONITORING OF INTERIM
 REMEDIAL ACTION SITES
 LOCATION MAP**

PROJECT

 GROUNDHOG MINE AND SMALL
 HISTORIC STOCKPILES IRAS
 GRANT COUNTY, NEW MEXICO


**Golder
 Associates**
 Albuquerque, NM



WHITEWATER CREEK

GH SUMP

GH LOWER POND

GH-2004-2S

GH-2004-2D

GROUNDHOG
MINE

PIPELINE ROAD

PIPELINE ROAD

Legend

- - - - - Proposed Operations Area/Pipeline Spill Containment System
- Reclaimed Area
- Pond



Figure 2

Scale	As Noted	Date	10-21-2017	Drawn	
Prep	Environmental Services	Checked			
Drawn	By: [unclear]	Checked	By: [unclear]		

Freeport-McMoRan Chino Mines Company
Groundhog Mine IRA Annual Report
October 30, 2024

Site Number	Sample ID	Sample Date	Comments	Ca, Diss (mg/L)	Cd, Diss (mg/l)	Co, Diss (mg/l)	Cu, Diss (mg/l)	F, Tot_ (mg/l)	Fe, Diss (mg/l)	Mg, Diss (mg/L)	Mn, Diss (mg/l)	Ni, Diss (mg/l)	Pb, Diss (mg/l)	Zn, Diss (mg/l)	pH, Field (su)	SO4, Tot_ (mg/l)	TDS (mg/l)	Cond, Fld (micromho)	Water Temp (Cent)	Well Collar Level (ft msl)	Well Depth (ft)	Depth to Water (ft)
WQCC Water Quality Standard					0.01	0.05	1	1.6	1		0.2	0.2	0.015	10	6-9	600	1000					
GH-2004-2D	235809	10/28/2004		NA	0.0044	<0.006	0.0049	<1	<0.02	NA	0.0591	<0.01	<0.005	0.743	6.63	1780	2580	2292	17.3	6009.7	157.6	62
GH-2004-2D	245863	5/17/2005		NA	0.0027	<0.006	<0.01	<0.5	0.089	NA	0.374	<0.01	<0.005	0.654	6.76	1640	2440	2339	17.4	6003.74	147.6	44.5
GH-2004-2D	270674	10/25/2005		NA	0.0074	<0.006	<0.01	1.03	<0.06	NA	0.213	<0.01	0.009	1.65	6.62	1620	2530	2354	17.4	6003.74	147.6	46.3
GH-2004-2D	276910	3/14/2006		NA	0.0087	<0.006	<0.01	0.2	<0.06	NA	0.129	<0.01	0.009	0.851	6.63	1600	2770	2334	17.2	6003.74	147.6	47.43
GH-2004-2D	283019	8/4/2006		NA	0.0119	<0.006	<0.01	<0.2	<0.06	NA	0.123	<0.01	0.0108	1	6.58	1590	2620	2384	17.6	6003.74	147.6	50.3
GH-2004-2D	299167	2/6/2007		NA	0.0095	<0.006	<0.01	<0.2	<0.06	NA	0.108	<0.01	0.0091	0.903	6.53	1660	2630	2372	17.3	6003.74	147.6	43.03
GH-2004-2D	305946	7/23/2007		NA	0.011	<0.006	<0.01	<0.5	<0.06	NA	0.0899	<0.01	0.011	0.935	6.72	1640	2700	2432	18.1	6003.74	147.6	43.45
GH-2004-2D	316507	3/25/2008		NA	0.0105	<0.006	<0.01	<0.2	<0.06	NA	0.0555	<0.01	0.0086	0.82	6.79	1760	2700	2304	17	6003.74	147.6	44.7
GH-2004-2D	320089	10/28/2008		NA	0.0094	<0.006	<0.01	<0.5	<0.06	NA	0.112	<0.01	0.011	0.866	6.63	1990	2700	2351	17.2	6003.74	147.6	41.42
GH-2004-2D	321236	03/23/2009		NA	0.0072	<0.006	0.015	0.107	<0.06	NA	0.254	<0.01	<0.0075	0.904	6.82	1570	2690	2348	17.2	6003.74	147.6	44.8
GH-2004-2D	322688	09/30/2009		494	0.0101	<0.006	0.016	<0.5	<0.06	121	0.139	<0.01	<0.0075	0.873	6.43	1560	2730	2405	17.8	6003.74	147.6	48.08
GH-2004-2D	323312	03/11/2010		491	0.0116	<0.0061	0.013	<0.2	<0.061	118	0.0689	<0.01	0.008	0.838	6.77	1710	2680	2382	16.9	6003.74	147.6	48.22
GH-2004-2D	324880	09/20/2010		515	0.0117	<0.006	<0.01	<0.5	<0.06	125	0.0606	<0.01	0.0108	0.775	6.81	1660	2760	2422	18.7	6003.74	147.6	44.74
GH-2004-2D	326361	03/02/2011		509	0.0122	<0.006	<0.01	<0.5	<0.06	118	0.0703	<0.01	0.0134	0.855	6.73	1620	2540	2367	17.5	6003.74	147.6	47.99
GH-2004-2D	327872	09/02/2011		489	0.0098	<0.006	0.01	<0.1	<0.06	113	0.0474	<0.01	<0.0075	0.782	6.75	1640	2660	2416	18.9	6003.74	147.6	50.32
GH-2004-2D	329325	03/22/2012		527	0.0118	<0.006	<0.01	<0.5	<0.06	122	0.0626	<0.01	0.0096	0.804	6.63	1,750	2,710	2,272	17.9	6003.74	147.6	45.34
GH-2004-2D	330950	09/06/2012		525	0.0119	<0.006	<0.01	<0.5	<0.06	123	0.0484	<0.01	0.009	0.852	6.72	1,800	2,640	2,467	19.3	6003.74	147.6	49.13
GH-2004-2D	332598	03/11/2013		540	0.0136	<0.006	0.011	<0.5	<0.06	130	0.0496	<0.01	0.0144	0.912	6.69	1,780	2,720	2,389	18	6003.74	147.6	52.56
GH-2004-2D	334321	09/18/2013		541	0.0143	<0.006	<0.01	1.01	<0.06	127	0.0635	<0.01	0.012	0.912	6.69	1,780	2,720	2,428	17.9	6003.74	147.6	50.28
GH-2004-2D	335938	03/06/2014		512	0.0156	<0.006	<0.01	0.96	<0.06	122	0.0932	<0.01	0.0091	0.883	6.63	1,720	2,570	2,361	17.9	6003.74	147.6	47
GH-2004-2D	337693	09/09/2014		521	0.0148	<0.006	<0.01	<0.5	<0.06	124	0.064	<0.01	<0.0075	0.843	6.75	1,750	2,680	2,404	18.3	6003.74	147.6	50.24
GH-2004-2D	339360	03/12/2015		503	0.0119	<0.006	<0.01	<0.5	<0.06	118	0.0436	<0.01	<0.0075	0.801	6.79	1,700	2,440	2,247	16.9	6003.74	147.6	45.65
GH-2004-2D	341186	09/02/2015		489	0.0147	<0.006	<0.01	<0.5	<0.06	112	0.0507	<0.01	<0.0075	0.874	6.71	1,730	2,580	2,396	19.3	6003.74	147.6	49.32
GH-2004-2D	343006	03/03/2016		486	0.0154	<0.006	<0.01	0.732	<0.06	115	0.0539	<0.01	<0.0075	0.956	6.75	1,710	2,610	2,310	18	6003.74	147.6	49.74
GH-2004-2D	345111	09/13/2016		505	0.0146	<0.006	<0.01	<0.1	<0.1	116	0.0276	<0.01	<0.0075	0.79	6.74	1,650	2,530	2,260	17.4	6003.74	147.6	54.09
GH-2004-2D	347288	06/01/2017		498	0.0151	<0.006	<0.01	0.577	<0.1	118	0.0484	<0.01	0.0089	0.889	6.74	1,690	2,540	2,450	17.6	6003.74	147.6	44.35
GH-2004-2D	349336	09/12/2017		522	0.0151	<0.006	<0.01	0.185	<0.1	127	0.0829	<0.01	<0.0075	0.866	6.65	44	2,500	2,539	18.8	6003.74	147.6	44.21
GH-2004-2D	351227	03/21/2018		515	0.0142	<0.006	<0.01	<0.5	<0.1	113	0.0517	<0.01	<0.0075	0.878	6.77	2,030	2,490	2,504	17.6	6003.74	147.6	48.47
GH-2004-2D	352966	09/24/2018		460	<0.002	<0.006	<0.01	<0.1	<0.1	108	0.129	<0.01	<0.0075	0.117	7.01	1,490	2,440	2,279	17.7	6003.74	147.6	46.7
GH-2004-2D	354773	03/15/2019		480	<0.002	<0.006	<0.01	0.138	<0.1	109	0.212	<0.01	<0.0075	<0.01	6.55	1,500	2,330	2,661	16.2	6003.74	147.6	65.27
GH-2004-2D	356619	09/17/2019		464	<0.002	<0.006	<0.01	0.111	<0.1	107	0.107	<0.01	<0.0075	0.291	6.37	1,550	2,530	3,370	18.3	6003.74	147.6	47.71
GH-2004-2D	358230	03/27/2020		473	<0.002	<0.006	<0.01	0.243	<0.1	116	0.0952	<0.01	<0.0075	0.504	6.42	1,490	2,370	2,335	17.8	6003.74	147.6	39.6
GH-2004-2D	359910	09/26/2020		417	<0.002	<0.006	<0.01	0.321	<0.1	105	0.0773	<0.01	<0.0075	0.546	6.83	1,340	3,050	2,148	19	6003.74	147.6	46.31
GH-2004-2D	361587	03/25/2021		456	<0.002	<0.006	<0.01	0.192	<0.1	97.8	0.122	<0.01	<0.0075	0.223	6.8	1,430	2,270	1,968	17.4	6003.74	147.6	53.1
GH-2004-2D	367151	09/14/2021	water level sounder level issue not reading correctly	448	<0.002	<0.006	<0.01	0.172	<0.1	104	0.0843	<0.01	<0.0075	0.463	6.59	1,490	2,140	2,311	17.8	6003.74	147.6	NA
GH-2004-2D	368786	03/17/2022		422	<0.002	<0.006	<0.01	0.189	<0.1	97.4	0.0888	<0.01	<0.0075	0.347	6.93	1,460	2,090	2,360	18	6003.74	147.6	48.66
GH-2004-2D	370736	09/29/2022		419	<0.002	<0.006	<0.01	0.134	<0.1	97.8	0.0628	<0.01	<0.0075	0.605	7.02	1,530	2,160	2,137	18	6003.74	147.6	41.19
GH-2004-2D	372683	03/22/2023		474	0.0077	<0.006	<0.01	0.222	<0.1	107	0.0877	<0.01	0.0123	0.661	6.51	1,490	2,180	2,222	18	6003.74	147.6	42.2
GH-2004-2D	374425	09/28/2023		412	0.0039	<0.006	<0.01	0.194	<0.1	101	0.0809	<0.01	<0.0075	0.702	6.57	1,430	2,070	1,981	17.8	6003.74	147.6	47.1
GH-2004-2D	376212	03/27/2024		427	<0.002	<0.006	<0.01	0.2	<0.1	100	0.0841	<0.01	<0.0075	0.615	7.05	1,490	1,900	1,924	16.9	6003.74	147.6	48.26
GH-2004-2D	378090	09/26/2024		420	<0.002	<0.006	<0.01	0.209	<0.1	101	0.0623	<0.01	<0.0075	0.662	6.83	1,400	2,010	2,190	18.7	6003.74	147.6	48.67
GH-2004-2S	236057	10/28/2004		NA	0.0153	<0.006	0.007	0.31	<0.02	NA	0.703	<0.01	<0.005	2.15	7.07	1460	2120	2019	17	6009.7	**	53.25
GH-2004-2S	245864	5/17/2005		NA	0.0029	<0.006	0.014	<0.5	<0.06	NA	0.0826	<0.01	<0.005	0.371	7.39	1360	2080	2046	17.4	6003.74	83	46.73
GH-2004-2S	270675	10/25/2005		NA	0.0026	<0.006	<0.01	1.02	<0.06	NA	0.0321	<0.01	<0.0075	0.421	6.99	1390	2160	2152	17.3	6003.74	83	40.16
GH-2004-2S	276911	3/14/2006		NA	0.0027	<0.006	<0.01	0.73	<0.06	NA	0.0216	<0.01	<0.008	0.291	7.26	1410	2240					

Freeport-McMoRan Chino Mines Company
Groundhog Mine IRA Annual Report
October 30, 2024

Site Number	Sample ID	Sample Date	Comments	Ca, Diss (mg/L)	Cd, Diss (mg/l)	Co, Diss (mg/l)	Cu, Diss (mg/l)	F, Tot_ (mg/l)	Fe, Diss (mg/l)	Mg, Diss (mg/L)	Mn, Diss (mg/l)	Ni, Diss (mg/l)	Pb, Diss (mg/l)	Zn, Diss (mg/l)	pH, Field (su)	SO4, Tot_ (mg/l)	TDS (mg/l)	Cond, Fld (micromho)	Water Temp (Cent)	Well Collar Level (ft msl)	Well Depth (ft)	Depth to Water (ft)
WQCC Water Quality Standard					0.01	0.05	1	1.6	1		0.2	0.2	0.015	10	6-9	600	1000					
GH-2004-2S	339361	03/12/2015		531	0.169	<0.006	0.0181	1.76	<0.06	196	3.55	0.0349	<0.0075	43.2	6.33	2,400	3,310	2,812	17.1	6003.74	83	37.76
GH-2004-2S	341187	09/02/2015		511	0.197	<0.006	0.0688	<0.5	<0.06	178	2.87	0.038	<0.0075	52.4	6.04	2,350	3,220	2,930	19.7	6003.74	83	40.5
GH-2004-2S	343007	03/03/2016		458	0.291	<0.006	0.0189	1.66	<0.06	167	16.9	0.0563	<0.0075	61.8	6.26	2,370	3,420	2,915	19	6003.74	83	40.36
GH-2004-2S	345112	09/06/2016		509	0.221	<0.006	0.0103	1.86	<0.1	180	7.83	0.0426	<0.0075	61.7	6.31	2,220	3,310	2,722	17.8	6003.74	83	44.61
GH-2004-2S	347289	06/01/2017		535	0.338	<0.006	0.0189	1.85	0.155	195	30.3	0.0646	<0.0075	74.5	6.31	2,400	3,320	3,022	18.6	6003.74	83	39.06
GH-2004-2S	349337	09/12/2017		512	0.33	<0.006	0.0155	0.996	<0.1	201	31.4	0.0594	<0.0075	69.1	6.4	2,220	3,350	3,136	19.3	6003.74	83	39.06
GH-2004-2S	343007	03/03/2016		458	0.291	<0.006	0.0189	1.66	<0.06	167	16.9	0.0563	<0.0075	61.8	6.26	2,370	3,420	3,292	19	6003.74	83	40.36
GH-2004-2S	345112	09/06/2016		509	0.221	<0.006	0.0103	1.86	<0.1	180	7.83	0.0426	<0.0075	61.7	6.31	2,220	3,310	3,156	17.8	6003.74	83	44.61
GH-2004-2S	351228	03/21/2018		499	0.385	<0.006	0.391	1.49	<0.1	168	17.4	0.0803	<0.0075	102	6.09	2,180	3,130	2,879	17.3	6003.74	83	40.91
GH-2004-2S	352967	09/24/2018		510	0.187	<0.006	0.0108	1.11	<0.1	179	43.7	0.0696	0.0121	71.1	6.61	2,150	3,500	3,055	17.6	6003.74	83	39.77
GH-2004-2S	354774	03/15/2019		541	0.0999	<0.006	<0.01	0.815	<0.1	182	38.4	0.0597	<0.0075	59.1	6.47	2,140	3,220	3,460	16.3	6003.74	83	39.91
GH-2004-2S	356620	09/17/2019		509	0.0599	<0.006	<0.01	0.569	<0.1	172	20.9	0.0491	<0.0075	53.8	6.28	2,190	3,220	3,546	18.1	6003.74	83	40.48
GH-2004-2S	358231	03/27/2020		557	0.119	<0.006	0.0104	0.947	<0.1	199	17.3	0.0404	<0.0075	59.5	6.49	2,180	3,160	2,937	16.1	6003.74	83	31.58
GH-2004-2S	359911	09/26/2020		512	0.0472	<0.006	<0.01	1.1	<0.1	178	10.3	0.0441	0.0093	52.6	6.74	2,030	3,060	2,840	17.6	6003.74	83	39.17
GH-2004-2S	361588	03/25/2021		522	0.0117	<0.006	0.0258	1.17	<0.1	154	10	0.0353	<0.0075	44.4	6.35	2,140	3,040	2,455	16.4	6003.74	83	46.45
GH-2004-2S	367152	09/14/2021		526	0.193	<0.006	<0.01	0.651	<0.1	166	1.38	0.0208	<0.0075	35.3	6.25	2,160	2,940	2,822	17	6003.74	83	43.19
GH-2004-2S	368787	03/17/2022		511	0.052	<0.006	<0.01	0.783	<0.1	165	8.04	0.0394	<0.0075	48.2	6.62	2,200	3,040	3,016	17.2	6003.74	83	40.71
GH-2004-2S	370737	09/29/2022		547	0.122	<0.006	<0.01	0.641	<0.1	184	8.29	0.0409	<0.0075	55.1	6.54	2,250	2,990	2,748	16	6003.74	83	49.02
GH-2004-2S	372684	03/22/2023		580	0.142	<0.006	<0.01	0.825	<0.1	184	4.41	0.0285	<0.0075	44	6.41	2,210	3,040	2,865	16.8	6003.74	83	35.44
GH-2004-2S	374426	09/28/2023		522	0.163	<0.006	<0.01	0.758	<0.1	173	2.35	0.0376	<0.0075	47.4	6.09	2,150	3,040	2,566	17.2	6003.74	83	39.41
GH-2004-2S	376213	03/27/2024		565	0.0263	<0.006	0.0113	0.817	<0.1	179	7.37	0.0459	<0.0075	48.7	6.63	2,220	2,940	2,552	17	6003.74	83	40.61
GH-2004-2S	378091	09/26/2024		528	0.088	<0.006	<0.01	0.826	<0.1	175	5.31	0.044	<0.0075	49.2	6.65	2,160	3,160	2,894	18.3	6003.74	83	40.38
Lower GH-Sump*	250151	4/14/2005		NA	2.31	1.11	95.1	6.04	0.28	NA	333	0.846	1.24	844	3.92	5530	9220	5550	17.7	surface	surface	surface
Lower GH-Sump*	267561	9/26/2005		NA	0.749	0.307	20.2	1.32	<0.3	NA	95.3	0.178	0.289	224	4.05	2870	4450	3643	23.6	surface	surface	surface
Lower GH-Sump*	283021	8/4/2006		NA	0.35	0.147	9.11	1.08	0.15	NA	44	0.086	0.0815	92	5.27	1530	2390	2298	22.6	surface	surface	surface
Lower GH-Sump*	305948	7/23/2007		NA	0.299	0.15	7.19	1.15	<0.06	NA	52.8	0.097	0.078	76.8	5.64	1600	2600	2314	22.8	surface	surface	surface
Lower GH-Sump*	316509	3/25/2008	Dry	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
Lower GH-Sump*	320091	10/28/2008		NA	0.0725	<0.006	0.227	0.825	<0.06	NA	6.43	0.019	<0.0075	18	6.93	1890	2400	1970	15.8	surface	surface	surface
Lower GH-Sump*	321238	03/23/2009	Dry	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
Lower GH-Sump*	322691	09/30/2009		111	0.0028	<0.006	0.03	1.02	<0.06	18.1	0.124	<0.01	<0.0075	0.55	7.35	329	536	645	18	surface	surface	surface
GH-Sump ¹	323315	03/10/2010		279	0.0149	<0.0061	0.04	1.08	<0.061	44.5	0.67	<0.01	<0.0076	1.69	6.88	837	1360	1130	8.8	surface	surface	surface
GH-Sump ¹	324883	09/20/2010	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Sump ¹	326364	03/02/2011	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Sump ¹	327875	09/02/2011		126	0.0074	<0.006	0.049	0.87	<0.06	20.6	1.02	<0.01	<0.0075	1.07	6.65	378	626	838	24.5	surface	surface	surface
GH-Sump ¹	329328	03/22/2012	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Sump ¹	330953	09/06/2012	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Sump ¹	332601	03/11/2013	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Sump ¹	334167	08/05/2013		119	0.0046	<0.006	0.027	0.98	<0.06	17.7	0.0281	<0.01	<0.0075	0.737	6.82	379	570	758	24.2	surface	surface	surface
GH-Sump ¹	334324	09/18/2013		155	0.0069	<0.006	0.031	1.06	<0.06	24.6	0.203	<0.01	<0.0075	0.907	6.83	409	699	837	20.6	surface	surface	surface
GH-Sump ¹	335941	03/06/2014	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Sump ¹	337696	09/09/2014		162	0.0029	<0.006	0.019	1.04	<0.06	23.8	<0.004	<0.01	<0.0075	0.461	7.06	475	748	906	21.4	surface	surface	surface
GH-Sump ¹	339363	03/12/2015		310	0.0274	<0.006	0.407	0.828	<0.06	48.3	0.0865	<0.01	<0.0075	7.91	6.66	912	1,370	1,245	14.4	surface	surface	surface
GH-Sump ¹	341189	09/01/2015		130	0.0082	<0.006	0.126	1.27	0.559	21.5	0.235	<0.01	0.0854	1.51	6.8	419	653	851	24.7	surface	surface	surface
GH-Sump ¹	343009	03/04/2016		186	0.0065	<0.006	0.02	0.928	<0.06	29.2	<0.004	<0.01	<0.0075	1.54	7.17	554	884	849	12.2	surface	surface	surface
GH-Sump ¹	345114	09/14/2016		159	0.0046	<0.006	0.0279	0.639	<0.1	23.4	0.0197	<0.01	<0.0075	0.72	7.04	404	691	809	21.5	surface	surface	surface
GH-Sump ¹	347291	06/01/2017	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Sump ¹	349339	09/12/2017		107	0.0039	<0.006	0.0134	0.697	<0.1	18.9	0.316	<0.01	<0.0075	0.834	7.08	348	552	758	22.1	surface	surface	surface
GH-Sump ¹	351230	03/21/2018		107	0.0088	<0.006	0.0347	0.627	<0.1	16.1	0.0335	<0.01	<0.0075	3.38	7.01	350	522	566	10.6	surface	surface	surface
GH-Sump ¹	352970	09/24/2018		61.4	0.0022	<0.006	0.0166	1.18	0.121	9.56	0.284	<0.01	0.0211	0.501	6.92	148	326	426	19.6	surface	surface	surface
GH-Sump	354776	03/15/2019																				

Freeport-McMoRan Chino Mines Company

Groundhog Mine IRA Annual Report

October 30, 2024

Site Number	Sample ID	Sample Date	Comments	Ca, Diss (mg/L)	Cd, Diss (mg/l)	Co, Diss (mg/l)	Cu, Diss (mg/l)	F, Tot_ (mg/l)	Fe, Diss (mg/l)	Mg, Diss (mg/L)	Mn, Diss (mg/l)	Ni, Diss (mg/l)	Pb, Diss (mg/l)	Zn, Diss (mg/l)	pH, Field (su)	SO4, Tot_ (mg/l)	TDS (mg/l)	Cond, Fld (micromho)	Water Temp (Cent)	Well Collar Level (ft msl)	Well Depth (ft)	Depth to Water (ft)
WQCC Water Quality Standard					0.01	0.05	1	1.6	1		0.2	0.2	0.015	10	6-9	600	1000					
GH-Sump	372686	03/22/2023	Not enough water to sample		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Sump	374429	09/28/2023		55	0.0026	<0.006	0.0796	0.866	0.228	8.31	0.197	<0.01	<0.0075	0.796	6.78	197	289	407	20.3	surface	surface	surface
GH-Sump	376215	03/27/2024		49.1	<0.002	<0.006	0.0624	0.751	0.178	7.3	0.105	<0.01	<0.0075	0.653	6.85	176	265	256	8.1	surface	surface	10.7
GH-Sump	378094	09/26/2024	Dry		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	NM
Lower GH-Sump Pond*		3/14/2006		NA	0.701	0.284	20.2	5.34	<0.06	NA	116	0.184	0.16	232	4.88	3160	5100	3293	13.1	surface	surface	surface
Lower GH-Sump Pond*	299169	2/6/2007		NA	0.273	0.117	6.41	2.22	<0.06	NA	45	0.073	0.053	72.6	4.8	1870	2900	2047	10.5	surface	surface	surface
GH-Lower Pond ²	322690	09/30/2009		85.3	<0.002	<0.006	0.017	0.991	<0.06	15.3	0.0159	<0.01	<0.0075	0.0108	7.72	254	438	524	17.1	surface	surface	surface
GH-Lower Pond ²	323314	03/10/2010		261	0.0048	<0.0061	0.016	1.21	<0.061	49.7	0.225	<0.01	<0.0076	0.496	7.49	849	1360	1140	9.5	surface	surface	surface
GH-Lower Pond ²	324882	09/20/2010		151	<0.002	<0.006	0.013	0.847	<0.06	25.9	0.183	<0.01	<0.0075	0.0204	8.58	430	740	874	23.5	surface	surface	surface
GH-Lower Pond ²	326363	03/02/2011	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Lower Pond ²	327874	09/02/2011		130	<0.002	<0.006	0.018	0.86	<0.06	20.7	0.119	<0.01	<0.0075	<0.01	7.94	415	656	821	23.8	surface	surface	surface
GH-Lower Pond ²	329327	03/22/2012	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Lower Pond ²	330952	09/06/2012	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Lower Pond ²	332600	03/11/2013	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Lower Pond ²	GH-Lower Pond	07/22/2013		62.3	0.0059	<0.006	0.061	0.52	<0.06	10.9	1.12	<0.01	<0.0075	1.02	6.75	210	350	442	21.6	surface	surface	surface
GH-Lower Pond ²	334166	08/05/2013		98.1	0.0061	<0.006	0.039	0.7	<0.06	16	1.71	<0.01	<0.0075	0.447	7.52	330	494	682	26.5	surface	surface	surface
GH-Lower Pond ²	334323	09/18/2013		123	0.018	0.0061	0.131	0.62	<0.06	24.1	2.84	<0.01	0.0077	3.53	7.09	411	634	745	21.2	surface	surface	surface
GH-Lower Pond ²	335940	03/06/2014		333	0.0055	<0.006	0.051	1.52	<0.06	59.6	0.0924	<0.01	<0.0075	0.554	8.03	1,090	1,650	1,574	16.5	surface	surface	surface
GH-Lower Pond ²	337695	09/09/2014		127	0.0055	<0.006	0.045	0.95	<0.06	19.5	0.812	<0.01	<0.0075	0.35	7.79	406	607	772	22.7	surface	surface	surface
GH-Lower Pond ²	339362	03/12/2015		251	0.0377	0.0069	0.0354	1	<0.06	50.9	4.88	<0.01	<0.0075	3.66	7.18	873	1,260	1,157	13.6	surface	surface	surface
GH-Lower Pond ²	341188	09/01/2015		83.2	0.0047	<0.006	0.0282	0.67	<0.06	13	0.92	<0.01	<0.0075	0.266	8.58	269	406	585	26.3	surface	surface	surface
GH-Lower Pond ²	343008	03/04/2016		191	0.0043	<0.006	0.0199	0.936	<0.06	32	0.292	<0.01	<0.0075	0.216	8.27	622	956	911	13.1	surface	surface	surface
GH-Lower Pond ²	345113	09/13/2016		108	0.0028	<0.006	0.0207	0.555	<0.1	16.3	0.467	<0.01	<0.0075	0.067	7.78	310	486	606	19.7	surface	surface	surface
GH-Lower Pond ²	347290	04/28/2017	Dry		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Lower Pond ²	349338	09/12/2017		109	<0.002	<0.006	0.0137	0.621	<0.1	17.4	0.144	<0.01	<0.0075	0.056	7.2	339	507	761	24.2	surface	surface	surface
GH-Lower Pond ²	351229	03/21/2018		150	0.0056	<0.006	0.012	0.818	<0.1	23.3	1.22	<0.01	<0.0075	0.5	7.54	480	722	793	13.4	surface	surface	surface
GH-Lower Pond ²	352969	09/24/2018		144	0.0086	<0.006	0.0225	0.685	<0.1	23.3	2.22	<0.01	<0.0075	0.361	7.19	423	695	898	21.2	surface	surface	surface
GH-Lower Pond ²	354775	03/15/2019		328	0.0429	0.0124	0.115	0.623	<0.1	57.9	5.32	0.0138	0.0103	8.84	6.77	1,040	1,610	1,920	8.1	surface	surface	surface
GH-Lower Pond ²	356622	09/17/2019		101	0.0149	0.0083	0.0547	0.576	<0.1	14.7	2.62	<0.01	<0.0075	2.67	6.23	322	509	744	22.9	surface	surface	surface
GH-Lower Pond ²	358232	03/19/2020		225	0.0642	0.024	0.284	0.708	<0.1	47.4	9.41	0.0189	0.0166	16.9	7.74	842	1,240	1,242	14.6	surface	surface	surface
GH-Lower Pond ²	359913	09/26/2020	Too low to grab sample		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Lower Pond ²	361589	03/25/2021	Dry		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Lower Pond	367154	09/14/2021		165	<0.002	<0.006	0.0165	0.727	<0.1	21.4	0.0495	<0.01	<0.0075	<0.01	8.51	499	713	1,033	25.3	surface	surface	surface
GH-Lower Pond ²	368788	03/17/2022			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Lower Pond ²	370739	09/29/2022		284	0.0238	<0.006	0.032	0.759	<0.1	47	4.35	<0.01	<0.0075	1.87	7.89	973	1,370	1,449	19.8	surface	surface	surface
GH-Lower Pond ²	372685	03/22/2023	Dry		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Lower Pond ²	374428	09/28/2023		111	0.0164	0.0066	0.0317	0.475	<0.1	18	2.76	<0.01	<0.0075	2.35	7.03	369	564	649	20.3	surface	surface	surface
GH-Lower Pond ²	376214	03/27/2024		191	0.0264	<0.006	0.0246	0.606	<0.1	32.2	4.06	<0.01	<0.0075	2.11	6.9	669	894	752	8.2	surface	surface	NA
GH-Lower Pond ²	378093	09/26/2024	Dry		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	NM
GH-Upper Pond	327876	09/02/2011	Reclaimed	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Upper Pond	329329	03/22/2012	Reclaimed	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Upper Pond	330954	09/06/2012	Dry/Closed	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Upper Pond	332602	03/11/2013	Reclaimed	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface
GH-Upper Pond	334325	09/18/2013	Closed	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	surface	surface	surface

*Water in sump at this time was from the construction phase of the stockpile removal.

**Well depth on record is incorrect.

NS - Not sampled, sump and/or sump pond are dry.

NS - Not analysed.

² "GH-Lower Pond" is the same monitoring site and location as "Lower GH-Sump" (the site was renamed)

DP-526 Groundhog 03/2024



DP-526

Freeport McMoRan - Chino Mines
PO Box 10
Bayard, NM 88023

Project Name: Chino Routine
Work Order: X4D0040
Reported: 17-Apr-24 17:06

ANALYTICAL REPORT FOR SAMPLES

COC Number: 10042

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
376212 / GH-2004-2D	X4D0040-01	Water	27-Mar-24 10:13	LS	02-Apr-2024	
376213 / GH-2004-2S	X4D0040-02	Water	27-Mar-24 10:27	LS	02-Apr-2024	
376214 / GH-Lower Pond	X4D0040-03	Water	27-Mar-24 09:27	LS	02-Apr-2024	
376215 / GH-Sump	X4D0040-04	Water	27-Mar-24 09:13	LS	02-Apr-2024	

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4D0040

The state of origin only accredits for drinking water analyses.



One Government Gulch - PO Box 929
 Kellogg, ID 83837-0929
 (208) 784-1258
www.svl.net

Freeport McMoRan - Chino Mines PO Box 10 Bayard, NM 88023	Project Name: Chino Routine Work Order: X4D0040 Reported: 17-Apr-24 17:06
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Client Sample ID: **376212 : GH-2004-2D**
 SVL Sample ID: **X4D0040-01 (Water)**

Sampled: 27-Mar-24 10:13
 Received: 02-Apr-24
 Sampled By: LS

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X414219	NMS	04/17/24 14:05	
EPA 200.7	Calcium	427	mg/L	0.100	0.069		X414219	NMS	04/17/24 14:05	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X414219	NMS	04/17/24 14:05	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X414219	NMS	04/17/24 14:05	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X414219	NMS	04/17/24 14:05	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X414219	NMS	04/17/24 14:05	
EPA 200.7	Magnesium	100	mg/L	0.500	0.090		X414219	NMS	04/17/24 14:05	
EPA 200.7	Manganese	0.0841	mg/L	0.0080	0.0034		X414219	NMS	04/17/24 14:05	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X414219	NMS	04/17/24 14:05	
EPA 200.7	Zinc	0.615	mg/L	0.0100	0.0054		X414219	NMS	04/17/24 14:05	
Classical Chemistry Parameters										
SM 2540 C	Total Diss. Solids	1900	mg/L	40			X414089	TJL	04/04/24 14:40	D2
Anions by Ion Chromatography										
EPA 300.0	Fluoride	0.200	mg/L	0.100	0.017		X414107	RS	04/03/24 18:54	
EPA 300.0	Sulfate as SO4	1490	mg/L	15.0	9.00	50	X414107	RS	04/03/24 19:12	D2

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
 Project Manager



Freepport McMoRan - Chino Mines PO Box 10 Bayard, NM 88023	Project Name: Chino Routine Work Order: X4D0040 Reported: 17-Apr-24 17:06
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Client Sample ID: **376213 : GH-2004-2S**

Sampled: 27-Mar-24 10:27

SVL Sample ID: **X4D0040-02 (Water)**

Received: 02-Apr-24

Sample Report Page 1 of 1

Sampled By: LS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 200.7	Cadmium	0.0263	mg/L	0.0020	0.0016		X414219	NMS	04/17/24 14:08	
EPA 200.7	Calcium	565	mg/L	0.100	0.069		X414219	NMS	04/17/24 14:08	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X414219	NMS	04/17/24 14:08	
EPA 200.7	Copper	0.0113	mg/L	0.0100	0.0027		X414219	NMS	04/17/24 14:08	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X414219	NMS	04/17/24 14:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X414219	NMS	04/17/24 14:08	
EPA 200.7	Magnesium	179	mg/L	0.500	0.090		X414219	NMS	04/17/24 14:08	
EPA 200.7	Manganese	7.37	mg/L	0.0080	0.0034		X414219	NMS	04/17/24 14:08	
EPA 200.7	Nickel	0.0459	mg/L	0.0100	0.0048		X414219	NMS	04/17/24 14:08	
EPA 200.7	Zinc	48.7	mg/L	0.100	0.0540	10	X414219	NMS	04/17/24 14:23	D2
Classical Chemistry Parameters										
SM 2540 C	Total Diss. Solids	2940	mg/L	40			X414089	TJL	04/04/24 14:40	D2
Anions by Ion Chromatography										
EPA 300.0	Fluoride	0.817	mg/L	0.100	0.017		X414107	RS	04/03/24 19:31	
EPA 300.0	Sulfate as SO4	2220	mg/L	15.0	9.00	50	X414107	RS	04/03/24 19:49	D2

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager



Freeport McMoRan - Chino Mines PO Box 10 Bayard, NM 88023	Project Name: Chino Routine Work Order: X4D0040 Reported: 17-Apr-24 17:06
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Client Sample ID: **376214 : GH-Lower Pond**
 SVL Sample ID: **X4D0040-03 (Water)**

Sampled: 27-Mar-24 09:27
 Received: 02-Apr-24
 Sampled By: LS

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 200.7	Cadmium	0.0264	mg/L	0.0020	0.0016		X414219	NMS	04/17/24 14:12	
EPA 200.7	Calcium	191	mg/L	0.100	0.069		X414219	NMS	04/17/24 14:12	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X414219	NMS	04/17/24 14:12	
EPA 200.7	Copper	0.0246	mg/L	0.0100	0.0027		X414219	NMS	04/17/24 14:12	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X414219	NMS	04/17/24 14:12	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X414219	NMS	04/17/24 14:12	
EPA 200.7	Magnesium	32.2	mg/L	0.500	0.090		X414219	NMS	04/17/24 14:12	
EPA 200.7	Manganese	4.06	mg/L	0.0080	0.0034		X414219	NMS	04/17/24 14:12	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X414219	NMS	04/17/24 14:12	
EPA 200.7	Zinc	2.11	mg/L	0.0100	0.0054		X414219	NMS	04/17/24 14:12	
Classical Chemistry Parameters										
SM 2540 C	Total Diss. Solids	894	mg/L	10			X414089	TJL	04/04/24 14:40	
Anions by Ion Chromatography										
EPA 300.0	Fluoride	0.606	mg/L	0.100	0.017		X414107	RS	04/03/24 20:44	
EPA 300.0	Sulfate as SO4	669	mg/L	15.0	9.00	50	X414107	RS	04/03/24 21:03	D2

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
 Project Manager



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Freeport McMoRan - Chino Mines
 PO Box 10
 Bayard, NM 88023

Project Name: **Chino Routine**
 Work Order: **X4D0040**
 Reported: 17-Apr-24 17:06

Client Sample ID: **376215 : GH-Sump**
 SVL Sample ID: **X4D0040-04 (Water)**

Sampled: 27-Mar-24 09:13
 Received: 02-Apr-24
 Sampled By: LS

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X414219	NMS	04/17/24 14:16	
EPA 200.7	Calcium	49.1	mg/L	0.100	0.069		X414219	NMS	04/17/24 14:16	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X414219	NMS	04/17/24 14:16	
EPA 200.7	Copper	0.0624	mg/L	0.0100	0.0027		X414219	NMS	04/17/24 14:16	
EPA 200.7	Iron	0.178	mg/L	0.100	0.056		X414219	NMS	04/17/24 14:16	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X414219	NMS	04/17/24 14:16	
EPA 200.7	Magnesium	7.30	mg/L	0.500	0.090		X414219	NMS	04/17/24 14:16	
EPA 200.7	Manganese	0.105	mg/L	0.0080	0.0034		X414219	NMS	04/17/24 14:16	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X414219	NMS	04/17/24 14:16	
EPA 200.7	Zinc	0.653	mg/L	0.0100	0.0054		X414219	NMS	04/17/24 14:16	
Classical Chemistry Parameters										
SM 2540 C	Total Diss. Solids	265	mg/L	10			X414089	TJL	04/04/24 14:40	
Anions by Ion Chromatography										
EPA 300.0	Fluoride	0.751	mg/L	0.100	0.017		X414107	RS	04/03/24 21:21	
EPA 300.0	Sulfate as SO4	176	mg/L	3.00	1.80	10	X414107	RS	04/03/24 21:40	D2

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
 Project Manager



Freeport McMoRan - Chino Mines PO Box 10 Bayard, NM 88023	Project Name: Chino Routine Work Order: X4D0040 Reported: 17-Apr-24 17:06
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Quality Control - BLANK Data									
Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes	

Metals (Dissolved)									
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X414219	17-Apr-24		
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X414219	17-Apr-24		
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X414219	17-Apr-24		
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X414219	17-Apr-24		
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X414219	17-Apr-24		
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X414219	17-Apr-24		
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X414219	17-Apr-24		
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X414219	17-Apr-24		
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X414219	17-Apr-24		
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X414219	17-Apr-24		
Classical Chemistry Parameters									
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X414089	04-Apr-24		
Anions by Ion Chromatography									
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X414107	03-Apr-24		
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X414107	03-Apr-24		

Quality Control - LABORATORY CONTROL SAMPLE Data									
Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

Metals (Dissolved)									
EPA 200.7	Cadmium	mg/L	0.982	1.00	98.2	85 - 115	X414219	17-Apr-24	
EPA 200.7	Calcium	mg/L	20.1	20.0	100	85 - 115	X414219	17-Apr-24	
EPA 200.7	Cobalt	mg/L	0.962	1.00	96.2	85 - 115	X414219	17-Apr-24	
EPA 200.7	Copper	mg/L	0.949	1.00	94.9	85 - 115	X414219	17-Apr-24	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X414219	17-Apr-24	
EPA 200.7	Lead	mg/L	0.978	1.00	97.8	85 - 115	X414219	17-Apr-24	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X414219	17-Apr-24	
EPA 200.7	Manganese	mg/L	0.973	1.00	97.3	85 - 115	X414219	17-Apr-24	
EPA 200.7	Nickel	mg/L	0.969	1.00	96.9	85 - 115	X414219	17-Apr-24	
EPA 200.7	Zinc	mg/L	0.988	1.00	98.8	85 - 115	X414219	17-Apr-24	
Anions by Ion Chromatography									
EPA 300.0	Fluoride	mg/L	2.08	2.00	104	90 - 110	X414107	03-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	11.0	10.0	110	90 - 110	X414107	03-Apr-24	

Quality Control - DUPLICATE Data									
Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes

Classical Chemistry Parameters									
SM 2540 C	Total Diss. Solids	mg/L	246	280	12.9	10	X414089 - X4D0042-01	04-Apr-24	R2B
SM 2540 C	Total Diss. Solids	mg/L	666	653	2.0	10	X414089 - X4D0019-02	04-Apr-24	



Freeport McMoRan - Chino Mines PO Box 10 Bayard, NM 88023	Project Name: Chino Routine Work Order: X4D0040 Reported: 17-Apr-24 17:06
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Quality Control - MATRIX SPIKE Data										
Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes

Metals (Dissolved)										
EPA 200.7	Cadmium	mg/L	0.981	<0.0020	1.00	98.1	70 - 130	X414219 - X4D0039-01	17-Apr-24	
EPA 200.7	Cadmium	mg/L	1.01	0.0397	1.00	97.2	70 - 130	X414219 - X4D0043-01	17-Apr-24	
EPA 200.7	Calcium	mg/L	95.2	75.1	20.0	100	70 - 130	X414219 - X4D0039-01	17-Apr-24	
EPA 200.7	Calcium	mg/L	613	584	20.0	0.30R>S	70 - 130	X414219 - X4D0043-01	17-Apr-24	M3
EPA 200.7	Cobalt	mg/L	0.939	<0.0060	1.00	93.9	70 - 130	X414219 - X4D0039-01	17-Apr-24	
EPA 200.7	Cobalt	mg/L	1.24	0.253	1.00	98.4	70 - 130	X414219 - X4D0043-01	17-Apr-24	
EPA 200.7	Copper	mg/L	0.981	<0.0100	1.00	98.1	70 - 130	X414219 - X4D0039-01	17-Apr-24	
EPA 200.7	Copper	mg/L	7.69	6.58	1.00	110	70 - 130	X414219 - X4D0043-01	17-Apr-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X414219 - X4D0039-01	17-Apr-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X414219 - X4D0043-01	17-Apr-24	
EPA 200.7	Lead	mg/L	0.979	<0.0075	1.00	97.9	70 - 130	X414219 - X4D0039-01	17-Apr-24	
EPA 200.7	Lead	mg/L	0.982	<0.0075	1.00	98.2	70 - 130	X414219 - X4D0043-01	17-Apr-24	
EPA 200.7	Magnesium	mg/L	60.0	38.3	20.0	109	70 - 130	X414219 - X4D0039-01	17-Apr-24	
EPA 200.7	Magnesium	mg/L	123	102	20.0	107	70 - 130	X414219 - X4D0043-01	17-Apr-24	
EPA 200.7	Manganese	mg/L	1.01	0.0156	1.00	99.1	70 - 130	X414219 - X4D0039-01	17-Apr-24	
EPA 200.7	Manganese	mg/L	18.8	17.5	1.00	0.30R>S	70 - 130	X414219 - X4D0043-01	17-Apr-24	M3
EPA 200.7	Nickel	mg/L	0.950	<0.0100	1.00	94.5	70 - 130	X414219 - X4D0039-01	17-Apr-24	
EPA 200.7	Nickel	mg/L	1.16	0.176	1.00	98.9	70 - 130	X414219 - X4D0043-01	17-Apr-24	
EPA 200.7	Zinc	mg/L	1.34	0.364	1.00	98.0	70 - 130	X414219 - X4D0039-01	17-Apr-24	
EPA 200.7	Zinc	mg/L	15.3	14.4	1.00	81.4	70 - 130	X414219 - X4D0043-01	17-Apr-24	

Anions by Ion Chromatography										
EPA 300.0	Fluoride	mg/L	2.05	<0.100	2.00	102	90 - 110	X414107 - X4D0032-01	03-Apr-24	
EPA 300.0	Fluoride	mg/L	2.40	0.316	2.00	104	90 - 110	X414107 - X4D0041-01	03-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.8	<0.30	10.0	108	90 - 110	X414107 - X4D0032-01	03-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	23.5	12.7	10.0	109	90 - 110	X414107 - X4D0041-01	03-Apr-24	

Quality Control - MATRIX SPIKE DUPLICATE Data										
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes

Metals (Dissolved)										
EPA 200.7	Cadmium	mg/L	1.01	0.981	1.00	3.3	20	101	X414219 - X4D0039-01	
EPA 200.7	Calcium	mg/L	96.8	95.2	20.0	1.6	20	108	X414219 - X4D0039-01	
EPA 200.7	Cobalt	mg/L	0.970	0.939	1.00	3.2	20	97.0	X414219 - X4D0039-01	
EPA 200.7	Copper	mg/L	0.995	0.981	1.00	1.4	20	99.5	X414219 - X4D0039-01	
EPA 200.7	Iron	mg/L	10.5	10.2	10.0	2.4	20	105	X414219 - X4D0039-01	
EPA 200.7	Lead	mg/L	1.01	0.979	1.00	3.0	20	101	X414219 - X4D0039-01	
EPA 200.7	Magnesium	mg/L	58.9	60.0	20.0	1.8	20	103	X414219 - X4D0039-01	
EPA 200.7	Manganese	mg/L	1.04	1.01	1.00	2.8	20	102	X414219 - X4D0039-01	
EPA 200.7	Nickel	mg/L	0.980	0.950	1.00	3.2	20	97.6	X414219 - X4D0039-01	
EPA 200.7	Zinc	mg/L	1.39	1.34	1.00	3.2	20	102	X414219 - X4D0039-01	

Anions by Ion Chromatography										
EPA 300.0	Fluoride	mg/L	2.07	2.05	2.00	1.0	20	103	X414107 - X4D0032-01	
EPA 300.0	Sulfate as SO4	mg/L	10.9	10.8	10.0	1.4	20	109	X414107 - X4D0032-01	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573



Freeport McMoRan - Chino Mines
PO Box 10
Bayard, NM 88023

Project Name: Chino Routine
Work Order: **X4D0040**
Reported: 17-Apr-24 17:06

Notes and Definitions

D2 Sample required dilution due to high concentration of target analyte.

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.

R2B RPD exceeded the laboratory acceptance limit.

LCS Laboratory Control Sample (Blank Spike)

RPD Relative Percent Difference

UDL A result is less than the detection limit

0.30R>S % recovery not applicable; spike level is less than 30% of the sample concentration

<RL A result is less than the reporting limit

MRL Method Reporting Limit

MDL Method Detection Limit

N/A Not Applicable



DP-526

Freeport McMoRan - Chino Mines
PO Box 10
Bayard, NM 88023

Project Name: Chino Routine
Work Order: X4J0028
Reported: 09-Oct-24 17:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
378090 / GH-2004-2D	X4J0028-01	Water	26-Sep-24 14:14	LS	01-Oct-2024	
378091 / GH-2004-2S	X4J0028-02	Water	26-Sep-24 14:27	LS	01-Oct-2024	

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0028

The state of origin only accredits for drinking water analyses.



Freeport McMoRan - Chino Mines PO Box 10 Bayard, NM 88023	Project Name: Chino Routine Work Order: X4J0028 Reported: 09-Oct-24 17:32
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Client Sample ID: **378090 : GH-2004-2D**

Sampled: 26-Sep-24 14:14

SVL Sample ID: **X4J0028-01 (Water)**

Received: 01-Oct-24

Sample Report Page 1 of 1

Sampled By: LS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X441053	SJN	10/08/24 16:25	
EPA 200.7	Calcium	420	mg/L	0.100	0.069		X441053	SJN	10/08/24 16:25	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441053	SJN	10/08/24 16:25	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441053	SJN	10/08/24 16:25	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X441053	SJN	10/08/24 16:25	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441053	SJN	10/08/24 16:25	
EPA 200.7	Magnesium	101	mg/L	0.500	0.090		X441053	SJN	10/08/24 16:25	
EPA 200.7	Manganese	0.0623	mg/L	0.0080	0.0034		X441053	SJN	10/08/24 16:25	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X441053	SJN	10/08/24 16:25	
EPA 200.7	Zinc	0.662	mg/L	0.0100	0.0054		X441053	SJN	10/08/24 16:25	
Classical Chemistry Parameters										
SM 2540 C	Total Diss. Solids	2010	mg/L	40			X440095	TJL	10/03/24 13:30	
Anions by Ion Chromatography										
EPA 300.0	Fluoride	0.209	mg/L	0.100	0.017		X440155	RS	10/05/24 00:17	
EPA 300.0	Sulfate as SO4	1400	mg/L	15.0	9.00	50	X440155	RS	10/05/24 00:36	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager



Freeport McMoRan - Chino Mines
 PO Box 10
 Bayard, NM 88023

Project Name: Chino Routine
 Work Order: X4J0028
 Reported: 09-Oct-24 17:32

Client Sample ID: 378091 : GH-2004-2S
 SVL Sample ID: X4J0028-02 (Water)

Sampled: 26-Sep-24 14:27
 Received: 01-Oct-24
 Sampled By: LS

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 200.7	Cadmium	0.0880	mg/L	0.0020	0.0016		X441053	SJN	10/08/24 16:29	
EPA 200.7	Calcium	528	mg/L	0.100	0.069		X441053	SJN	10/08/24 16:29	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441053	SJN	10/08/24 16:29	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441053	SJN	10/08/24 16:29	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X441053	SJN	10/08/24 16:29	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441053	SJN	10/08/24 16:29	
EPA 200.7	Magnesium	175	mg/L	0.500	0.090		X441053	SJN	10/08/24 16:29	
EPA 200.7	Manganese	5.31	mg/L	0.0080	0.0034		X441053	SJN	10/08/24 16:29	
EPA 200.7	Nickel	0.0440	mg/L	0.0100	0.0048		X441053	SJN	10/08/24 16:29	
EPA 200.7	Zinc	49.2	mg/L	0.0500	0.0270	5	X441053	SJN	10/08/24 17:45	
Classical Chemistry Parameters										
SM 2540 C	Total Diss. Solids	3160	mg/L	40			X440095	TJL	10/03/24 13:30	
Anions by Ion Chromatography										
EPA 300.0	Fluoride	0.826	mg/L	0.100	0.017		X440155	RS	10/05/24 00:54	
EPA 300.0	Sulfate as SO4	2160	mg/L	15.0	9.00	50	X440155	RS	10/05/24 01:13	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
 Project Manager



Freeport McMoRan - Chino Mines	Project Name: Chino Routine
PO Box 10	Work Order: X4J0028
Bayard, NM 88023	Reported: 09-Oct-24 17:32

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Dissolved)								
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X441053	08-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X441053	08-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X441053	08-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X441053	08-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X441053	08-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X441053	08-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X441053	08-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X441053	08-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X441053	08-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X441053	08-Oct-24	
Classical Chemistry Parameters								
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X440095	03-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X440155	04-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X440155	04-Oct-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved)									
EPA 200.7	Cadmium	mg/L	0.992	1.00	99.2	85 - 115	X441053	08-Oct-24	
EPA 200.7	Calcium	mg/L	19.5	20.0	97.6	85 - 115	X441053	08-Oct-24	
EPA 200.7	Cobalt	mg/L	0.980	1.00	98.0	85 - 115	X441053	08-Oct-24	
EPA 200.7	Copper	mg/L	0.981	1.00	98.1	85 - 115	X441053	08-Oct-24	
EPA 200.7	Iron	mg/L	9.93	10.0	99.3	85 - 115	X441053	08-Oct-24	
EPA 200.7	Lead	mg/L	0.990	1.00	99.0	85 - 115	X441053	08-Oct-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.4	85 - 115	X441053	08-Oct-24	
EPA 200.7	Manganese	mg/L	0.969	1.00	96.9	85 - 115	X441053	08-Oct-24	
EPA 200.7	Nickel	mg/L	0.981	1.00	98.1	85 - 115	X441053	08-Oct-24	
EPA 200.7	Zinc	mg/L	0.989	1.00	98.9	85 - 115	X441053	08-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Fluoride	mg/L	2.01	2.00	101	90 - 110	X440155	04-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X440155	04-Oct-24	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2540 C	Total Diss. Solids	mg/L	217	202	7.2	10	X440095 - X4J0010-01	03-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	78	92	16.5	10	X440095 - X4J0015-05	03-Oct-24	R2B



Freepport McMoRan - Chino Mines
 PO Box 10
 Bayard, NM 88023

Project Name: Chino Routine
 Work Order: **X4J0028**
 Reported: 09-Oct-24 17:32

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved)										
EPA 200.7	Cadmium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Cadmium	mg/L	0.997	<0.0020	1.00	99.7	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Calcium	mg/L	34.1	13.6	20.0	103	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Calcium	mg/L	120	98.7	20.0	107	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Cobalt	mg/L	1.00	<0.0060	1.00	100	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Cobalt	mg/L	0.973	<0.0060	1.00	97.3	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Copper	mg/L	1.01	<0.0100	1.00	100	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Copper	mg/L	1.01	<0.0100	1.00	101	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Iron	mg/L	10.3	<0.100	10.0	103	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Lead	mg/L	0.976	<0.0075	1.00	97.6	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Magnesium	mg/L	20.5	<0.500	20.0	102	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Magnesium	mg/L	38.8	17.8	20.0	105	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Manganese	mg/L	1.00	<0.0080	1.00	100	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Manganese	mg/L	0.986	<0.0080	1.00	98.3	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Nickel	mg/L	1.01	<0.0100	1.00	101	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Nickel	mg/L	0.984	<0.0100	1.00	97.7	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Zinc	mg/L	1.05	<0.0100	1.00	105	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	102	70 - 130	X441053 - X4J0114-06	08-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Fluoride	mg/L	2.08	<0.100	2.00	104	90 - 110	X440155 - X4J0053-03	05-Oct-24	
EPA 300.0	Fluoride	mg/L	2.08	<0.100	2.00	104	90 - 110	X440155 - X4J0055-03	05-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	9.98	<0.30	10.0	99.8	90 - 110	X440155 - X4J0053-03	05-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.0	<0.30	10.0	100	90 - 110	X440155 - X4J0055-03	05-Oct-24	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved)										
EPA 200.7	Cadmium	mg/L	1.02	1.03	1.00	1.1	20	102	X441053 - X4I0421-01	
EPA 200.7	Calcium	mg/L	33.7	34.1	20.0	1.4	20	100	X441053 - X4I0421-01	
EPA 200.7	Cobalt	mg/L	0.996	1.00	1.00	0.8	20	99.6	X441053 - X4I0421-01	
EPA 200.7	Copper	mg/L	0.995	1.01	1.00	1.2	20	99.0	X441053 - X4I0421-01	
EPA 200.7	Iron	mg/L	10.2	10.3	10.0	0.6	20	102	X441053 - X4I0421-01	
EPA 200.7	Lead	mg/L	1.00	1.02	1.00	1.3	20	100	X441053 - X4I0421-01	
EPA 200.7	Magnesium	mg/L	20.1	20.5	20.0	2.1	20	100	X441053 - X4I0421-01	
EPA 200.7	Manganese	mg/L	0.986	1.00	1.00	1.8	20	98.6	X441053 - X4I0421-01	
EPA 200.7	Nickel	mg/L	1.00	1.01	1.00	1.3	20	100	X441053 - X4I0421-01	
EPA 200.7	Zinc	mg/L	1.03	1.05	1.00	1.7	20	103	X441053 - X4I0421-01	
Anions by Ion Chromatography										
EPA 300.0	Fluoride	mg/L	2.12	2.08	2.00	2.1	20	106	X440155 - X4J0053-03	
EPA 300.0	Sulfate as SO4	mg/L	10.2	9.98	10.0	2.2	20	102	X440155 - X4J0053-03	



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Freeport McMoRan - Chino Mines
PO Box 10
Bayard, NM 88023

Project Name: Chino Routine
Work Order: **X4J0028**
Reported: 09-Oct-24 17:32

Notes and Definitions

R2B RPD exceeded the laboratory acceptance limit.
LCS Laboratory Control Sample (Blank Spike)
RPD Relative Percent Difference
UDL A result is less than the detection limit
0.30R>S % recovery not applicable; spike level is less than 30% of the sample concentration
<RL A result is less than the reporting limit
MRL Method Reporting Limit
MDL Method Detection Limit
N/A Not Applicable
