



May 2, 2023

Project No. GL12393309

Mr. Kevin O'Hara

Ohio Environmental Protection Agency
Division of Environmental Response and Revitalization
Southeast District Office
2195 Front Street
Logan, OH 43138

**RE: WELL DECOMMISSIONING IN PREPARATION FOR INTERIM ACTION
SATRALLOY SITE (JEFFERSON COUNTY, OHIO)**

Dear Mr. O'Hara:

On behalf of Cyprus Amax Minerals Company (CAMC), this letter is to request approval for decommissioning certain wells at the Former Satralloy Site (the Site).

A number of wells need to be decommissioned prior to beginning slag removal interim action at the Site. These wells are listed in Table 1. Some of these are in the footprint of the planned slag stockpile; others are in slag to be removed and would be damaged/destroyed if still present during slag removal.

These wells will be decommissioned in accordance with the Ohio EPA Division of Drinking and Ground Waters Technical Guidance Manual (TGM) for Hydrogeologic Investigations and Ground Water Monitoring, Chapter 9, Sealing Boreholes and Decommissioned Monitoring Wells (September 2016).

A long-term monitoring plan will be submitted to Ohio EPA, which will identify the monitoring well network for the Site. This will include replacement wells as necessary.

If you have any questions, please contact Barbara Nielsen at (480) 313-2895.

Very truly yours,

WSP USA INC.

R. Stephen Anderson
Mid Atlantic District Leader, E&E, Vice President

Lee Holder
Director

RSA/LH/mtd

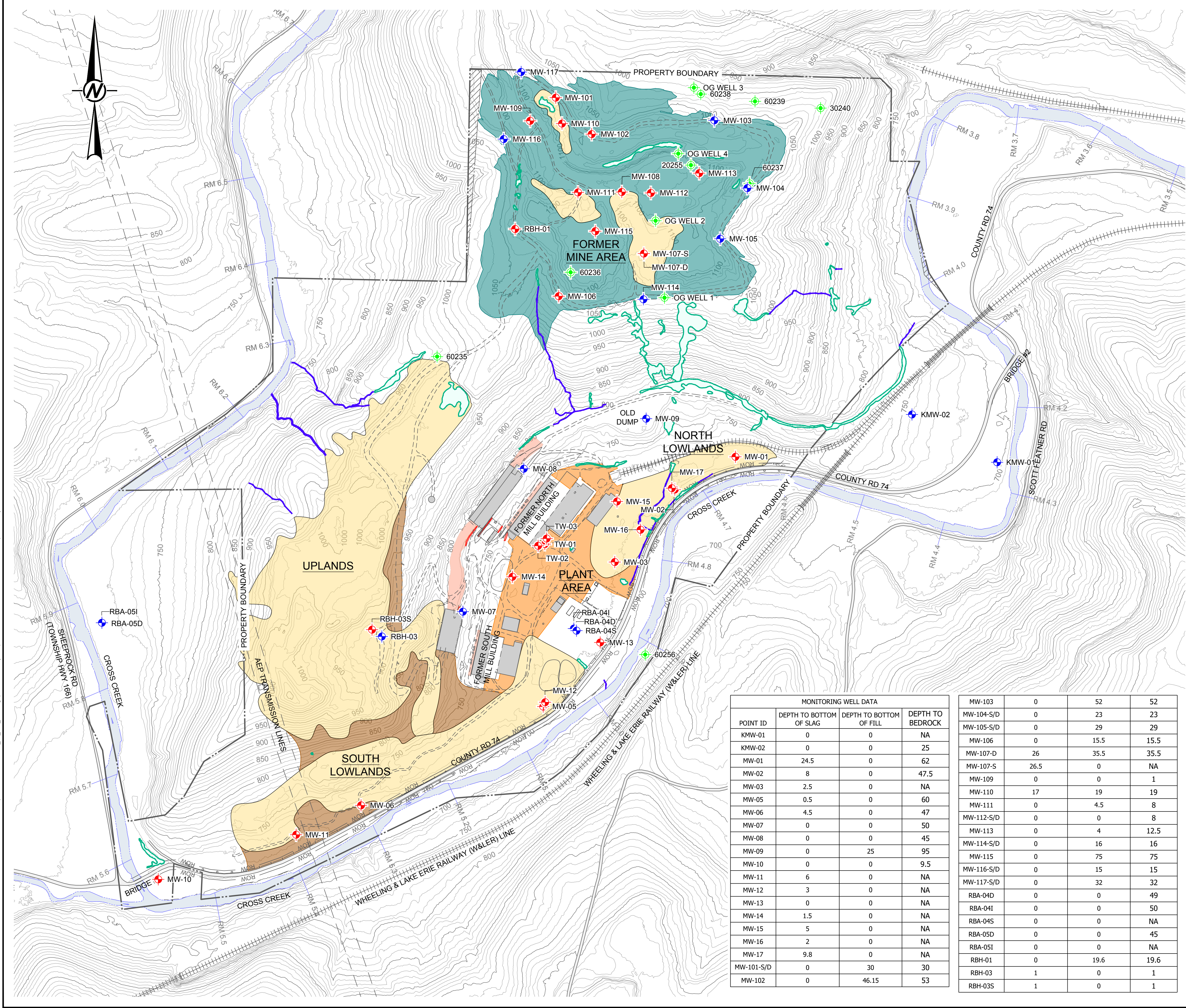
CC: Barbara Nielsen, Cyprus Amax Minerals Company

Attachments: Table 1 – Monitoring Wells Decommissioning
Figure 1 – Wells Decommission Plan

Table 1 - Monitoring Well Decommissioning

Location ID	Casing Diameter	Final Borehole Depth	Grout Casing? (Y/N)	Over Drill Depth	Casing Depth (If not Pulled)	Depth to Top of Rock	Overdrill Diameter	TOS: Depth	BOS: Depth
MW-01	2	65	N (Overdrill)	65	-	-	8	35.59	45.59
MW-02	2	48.12	N (Overdrill)	49	-	47.5	8	38.12	48.12
MW-03	2	30	N (Overdrill)	30	-	-	8	15.64	25.64
MW-05	2	65	N (Overdrill)	65	-	-	8	30.72	40.72
MW-06	2	55	N (Overdrill)	49	-	-	8	37.59	47.59
MW-10	2	10	N (Overdrill)	10	-	-	8	5	10
MW-107D	2	48	N (Overdrill)	48	-	25	8	38.89	47.89
MW-107S	2	27	N (Overdrill)	27	-	-	8	4.94	14.94
MW-109	2	67	N (Overdrill)	34	-	1	8	18.87	31.87
MW-11	2	14.5	N (Overdrill)	15	-	-	8	11.45	14.45
MW-12	2	10	N (Overdrill)	10	-	-	8	3.4	6.9
MW-13	2	15	N (Overdrill)	15	-	-	8	11.73	14.73
MW-14	2	20	N (Overdrill)	20	-	-	8	13.62	17.62
MW-15	2	18	N (Overdrill)	18	-	-	8	12.49	17.49
MW-16	2	24	N (Overdrill)	24	-	-	8	14.11	24.11
MW-17	2	16	N (Overdrill)	16	-	-	8	9.96	14.96
RBH-3S	2	50	N (Overdrill)	50	-	1	8	28.41	48.41
MW-110	2	38	N (Overdrill)	38	-	19	8	23.59	33.59
TW-01 (BUSTR)	2	40	N (Overdrill)	28	-	-	8	14.7	24.7
TW-02 (BUSTR)	2	40	N (Overdrill)	40	-	-	8	30	40
TW-03 (BUSTR)	2	40	N (Overdrill)	40	-	-	8	29.75	39.75
RBH-1	2.5	199.6	Y	25	198	19.5	10	178.7	198
MW-113	2	177.4	Y	47	131.44	12.5	8	111.44	131.44
MW-112-S/D	2	142.6	Y-D N-S	72	92.22 (-D)	8	8	82.22	92.22
MW-115	2	88	Y	76	87.46	75	8	79.46	87.46
MW-102	2	90	Y	55	83.47	65.5	8	73.47	83.47
MW-106	2	70	Y	38	68.3	15.5	8	53.3	68.3
MW-111	2	68	Y	42	67.69	8	10	58.69	67.69
MW-101-S/D	2	96	Y (Two Casings)	32	45.54 / 88.32	30	8	35.54 / 73.22	45.54 / 88.32

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LEGEND

- 1050 EXISTING MAJOR CONTOURS (50-FT INTERVAL)
- EXISTING MINOR CONTOURS (10-FT INTERVAL)
- PROPERTY BOUNDARY
- DEMOLITION AS-BUILT SURVEY LIMITS
- PROPERTY DEED OVERLAP
- CROSS CREEK
- EXISTING ON-SITE ACCESS ROAD
- EXISTING COUNTY ROAD (PAVED)
- COUNTY ROAD RIGHT-OF-WAY (ROW)
- EXISTING RAILROAD
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING CONCRETE PAD
- EXISTING BUILDING
- EXISTING SLAG PILE
- EXISTING PLANT AREA SLAG - SURFICIAL
- EXISTING PLANT AREA SLAG - SLAG FILL AREAS
- EXISTING PERIPHERAL SLAG
- ESTIMATED CRIB WALL EXTENTS
- CONSOLIDATION STOCKPILE AREA
- JURISDICTIONAL WETLANDS (USACE JURISDICTION)
- JURISDICTIONAL TRIBUTARY (USACE JURISDICTION)
- MW-101 GROUNDWATER MONITORING WELL (TO BE PROTECTED \ RETAINED)
- MW-108 GROUNDWATER MONITORING WELL TO BE DECOMMISSIONED
- 60235 OIL/GAS WELL (NO CONTRACTOR ACTION REQUIRED)

DRAFT

0 300 600
1" = 300' FEET

CLIENT
CYPRUS AMAX MINERALS COMPANY

PROJECT
FORMER SATRALLOY SITE
SLAG REMOVAL INTERIM ACTION
JEFFERSON COUNTY, OHIO

TITLE
WELL DECOMMISSION PLAN

CONSULTANT



YYYY-MM-DD	2023-04-21
DESIGNED	VMN
PREPARED	REDMOND
REVIEWED	FSS
APPROVED	RSA

PROJECT NO. 1239330907	PHASE 900	REV. A	FIGURE 1
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MONITORING WELL DATA			
POINT ID	DEPTH TO BOTTOM OF SLAG	DEPTH TO BOTTOM OF FILL	DEPTH TO BEDROCK
KMW-01	0	0	NA
KMW-02	0	0	25
MW-01	24.5	0	62
MW-02	8	0	47.5
MW-03	2.5	0	NA
MW-05	0.5	0	60
MW-06	4.5	0	47
MW-07	0	0	50
MW-08	0	0	45
MW-09	0	25	95
MW-10	0	0	9.5
MW-11	6	0	NA
MW-12	3	0	NA
MW-13	0	0	NA
MW-14	1.5	0	NA
MW-15	5	0	NA
MW-16	2	0	NA
MW-17	9.8	0	NA
MW-101-S/D	0	30	30
MW-102	0	46.15	53

MW-103	0	52	52
MW-104-S/D	0	23	23
MW-105-S/D	0	29	29
MW-106	0	15.5	15.5
MW-107-D	26	35.5	35.5
MW-107-S	26.5	0	NA
MW-109	0	0	1
MW-110	17	19	19
MW-111	0	4.5	8
MW-112-S/D	0	0	8
MW-113	0	4	12.5
MW-114-S/D	0	16	16
MW-115	0	75	75
MW-116-S/D	0	15	15
MW-117-S/D	0	32	32
RBA-04D	0	0	49
RBA-04I	0	0	50
RBA-04S	0	0	NA
RBA-05D	0	0	45
RBA-05I	0	0	NA
RBH-01	0	19.6	19.6
RBH-03	1	0	1
RBH-03S	1	0	1