

Arizona Department of Environmental Quality 1110 West Washington, Phoenix, AZ 85007 Phone: (602) 771-2338 July 5, 2023

Subject: Air Quality Permit No. 71633. Place ID #5683 Renewal of Existing Permit

To ADEQ Air Quality Permit Division:

Excelsior Mining is requesting a renewal of existing Air Quality Permit No. 71633. Place ID #5683.

There have been no modifications or changes to Excelsior Mining's existing Air Quality Permit or to its equipment or processes since being issued to Excelsior Mining in 2019.

Contact information has changed: Robert Winton, SVP/GM is the Responsible Official and Preston McDonald, EHS Superintendent is the Facility Manager/Contact Person. Their contact information has been updated on Section 3.1 standard class II permit application form.

Included in the submission is Section 3.5 Equipment list and Section 3.6 Emission calculations for HTR 5 and HTR 6. There have been no changes or modifications to the equipment list since 2019.

Main: 602-559-5579

Toll Free: 1-844-206-3713

If you have any questions, please feel free to contact me.

Sincerely,

Robert Winton, SVP/GM

931-266-6856

rwinton@excelsiormining.com

SECTION 3.1

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Air Quality Division

1110 West Washington • Phoenix, AZ 85007 • Phone: (602) 771-2338

STANDARD CLASS II PERMIT APPLICATION FORM

(As required by A.R.S. § 49-426, and Chapter 2, Article 3, Arizona Administrative Code)

1.	Permit to be issued to (Business license name of organization that is to receive permit): Excelsior Mining Arizona, Inc.	
2.	Mailing Address: 2999 North 44 th Street	_
	City: Phoenix State: Arizona ZIP: 85018	
3.	Name (or names) of Responsible Official: Robert Winton, SVP/GM Phone: 931-266-6856	
	Fax:Email:_rwinton@excelsiormining.com	_
4.	Facility Manager/Contact Person and Title: Preston McDonald, EHS Superintendent	_
	Phone: 801-673-4010 Fax: Email: pmcdonald@excelsiormining.co	<u>m</u>
5.	Facility Name: Excelsior Mining Arizona, Inc.	_
	Facility Location/Address (Current/Proposed): 3048 North Seven Dash Road	
	City: <u>Dragoon</u> County: <u>Cochise</u> ZIP: <u>85609</u>	- 8
5.	Indian Reservation (if applicable, which one):	_
	Latitude/Longitude, Elevation: Latitude: 32° 5′ 59″ N. Longitude: 110° 4′ 9.5″ W	
·.	General Nature of Business: Copper Cathode, Ore	_
3.	Type of Organization:	
	X Corporation Individual Owner Partnership Government Entity LLC	
	Other	
).	Permit Application Basis: New Source Revision X Renewal of Existing Permit	
	For renewal or modification, include existing permit number (and exp. date): Permit#71633. Plane	ice
	ID# 5683. Expiry Date September 5, 2023	
	Date of Commencement of Construction or Modification: June 25, 2019	
	Primary Standard Industrial Classification Code: 212230	
10.	I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and to the best of my knowledge and belief, and that all information not identified by me as conf nature shall be treated by ADEQ as public record. I also attest that I am in compliance with the requirements of the Permit and will continue to comply with such requirements and a requirements that become effective during the life of the Permit. I will present a certif	com ident appli ny f

I will assume responsibility for the con with Arizona Administrative Code, Title	struction, modification, or one 18, Chapter 2 and any per	operation of the source in accordance mit issued thereof.
Signature of Responsible Official:	fr. K	
Printed Name of Signer/Official Title: _	Robert Winto	in Sr. UP Operations
Date: 2023-07-05	Telephone Number: 931-	266-6856

Section 3.5 - Equipment List

Equipment	NSPS	Maximum Rated Capacity	Make	Model	Equipment ID Number	Date of Manufacture
		Solve	Solvent Extraction and Electrowinning	and		
SX Mixer Settler Train A (3 mixer/settler units)	None	5,177 ft² (surface area)	In House Fabricated	In House Fabricated	SX-1	1990
SX Mixer Settler Train B (3 mixer/settler units)	None	5,299 ft ² (surface area)	In House Fabricated	In House Fabricated	SX-2	1990
SX Organic Recovery Sump Tank	None	725 ft² (surface area)	In House Fabricated	In House Fabricated	CST-1	1990
Electrowinning Cell Block 1 (56 cells)	None	1,628 ft ² (surface area)	NA	NA	EW-1	NA
Electrowinning Cell Block 2 (32 cells)	None	1,560 ft ² (surface area)	NA	NA	EW-2	NA
PLS/Draindown Pond Evaporators	None	45 gal/min	SMI	420F	EVAP-1 through EVAP-6	2016
Heap Leach Evaporative Spray Nozzles	None	5.6 gal/min	Senninger	NA	HEAP-EVAP	2016
		Auxili	Auxiliary Operations and Equipment	ıs and		
Electrolyte Heater	None	5.3 MMBtu/hr	Power Flame	M-004	HTR-5	N/A
Back, 1p Electrolyte Heater	None	5.3 MMBtu/hr	Power Flame	M-004	HTR-6	N/A
Unleaded Gasoline Storage Tank	None	1,000 gallons	Advance Pacific	1000 double wall UR rated 142 tanks	Unleaded 1	2006
Gunnison Pond Evaporator	EVAP-7 though EVAP -10	174 gal/min	SMI	Mega PoleCat	2018	N/A
Heap Leach Evaporative Spray Nozzles	HEAP- EVAP2	2.61 gal/min	BETE	TF8M	Various	N/A

SECTION 3.6 - EMISSION SOURCE FORM

The emissions calculated below are based on the evaporative equipment that was installed in 2019, the reduction in emissions due to replacing the electrolyte heaters. The previous electrolyte heaters (HTR-3 and HTR-4) were replaced by electrolyte heaters (HTR-5 and HTR-6) in 2019. Since 2019, there has been no modification or changes to HTR-5 and HTR-6.

Emissions (tons per_year,	Emissions ns per_year,	ي ا		Permitting Exemption	Minor NSR
Pre- Post- Revision Revision	Post- Revision		Difference	Threshold (Tons per year)	Triggered?
9.18 13.97	13.97		4.79	7.5	
7.66 10.74	10.74		3.08	5	
7.13 4.09	4.09		-3.04	20	,
0.04 0.03	0.03		-0.01	20	o N
4.25 5.02	5.02		0.77	20	
5.99 1.72	1.72		-4.27	50	