STATE OF ALASKA

Application for Permits to Mine in Alaska (APMA)

☐ Single Year ____ ☑ Multi-year Start: 3/1/2022 Finish: 12/31/2026 APMA Number (A/F/J,Year,****) A-22-3099

What type activity are you planning to perform? *REQUIRED (1)

- ☑ Exploration/Reclamation
- ☐ Mining/Reclamation
- ☐ Hardrock Exploration/Reclamat
- ☐ Access Equipment
- ☐ Suction Dredge
- ☐ Reclamation

Surface estate of mineral properties: *REQUIRED (2)

- ☑ State (General)
- ☐ Private (Patented)
- ☐ Private (Native Corp.)
- ☐ State (Mental Health)
- ☐ Federal
- ☐ City or Borough

Check All That Apply: ☑ Mineral Property Owner ☐ Lessee ☐ Operator *Required (3)

Name: Rob Retherford
Primary Phone Number: 907-522-4664
Address: 11401 Olive Lane
Anchorage, AK 99515
Secondary Phone Number: 9074449553
Email: rretherford@alaskaearthsciences.com
If Applicable, Corporation Name: Chuchuna Minerals Co.
Alaska Business/Corporation Entity# 10025654
Registered Agent (Corp./LLC/LP) Rob Retherford
Click here for the Department of Commerce Link

Check All That Apply: ☑ Mineral Property Owner ☐ Lessee ☑ Operator *Required (4)

Name: Connor Taylor
Primary Phone Number: 907-522-4664
Address: 11401 Olive Lane
Anchorage, AK 99515
Secondary Phone Number:
Email: ctaylor@alaskaearthsciences.com
If Applicable, Corporation Name: Chuchuna Minerals Co.
Alaska Business/Corporation Entity# 10025654
Registered Agent (Corp./LLC/LP)

RECEIVED
FEB 22 2022

Check All That Apply: ☐ Mineral Property Owner ☐ Lessee ☐ Operator *Required (5)

Name:
Primary Phone Number:
Address:
Secondary Phone Number:
Email:
If Applicable, Corporation Name:
Alaska Business/Corporation Entity#
Registered Agent (Corp./LLC/LP)

Check All That Apply: ☐ Mineral Property Owner ☐ Lessee ☐ Operator *Required (6)

Name:
Primary Phone Number:
Address:
Secondary Phone Number:
Email:
If Applicable, Corporation Name:
Alaska Business/Corporation Entity#
Registered Agent (Corp./LLC/LP)
Attach a separate sheet for additional contacts

Project Name If Applicable: (7)	Average Number of Workers: *REQUIRED (8)	Start-Up/Shut Down: (Month/Day) (9)
Groundhog	12	May 1 to October 31

Mining District: *REQUIRED (10)	Applicable USGS Map: *REQUIRED (11)	On What Stream Is This Activity? (12)
Bristol Bay	Lake Clark A6, A7 & Iliamna D6, D7	See attached maps and narrative

Legal Description of mineral properties to be worked (MTRS) *REQUIRED (13)

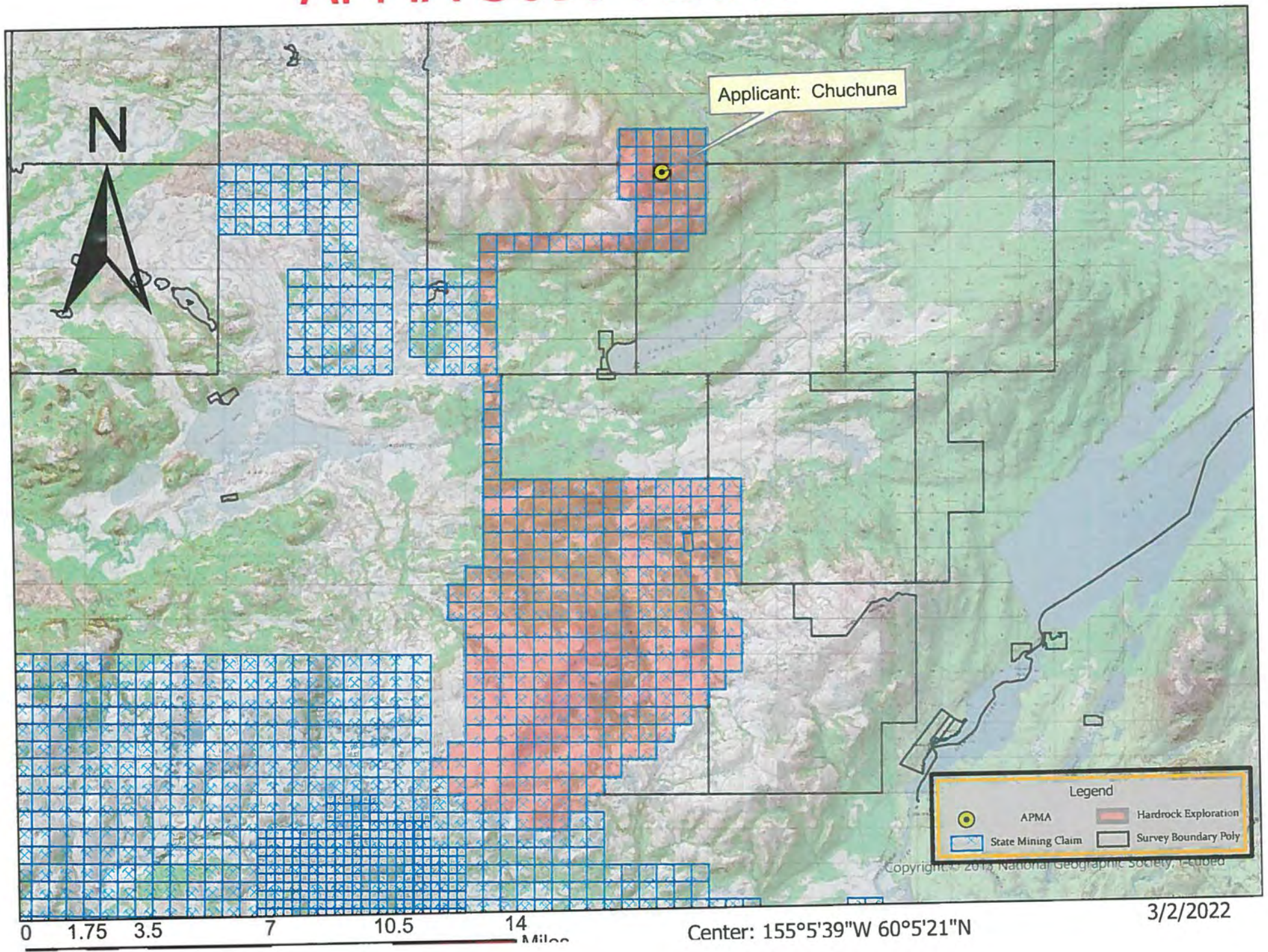
Example: Fairbanks Meridian Township 001N Range 003E Sections 15, 16, and 21 or F 001N 003E Sec. 15, 16, and 21

S 001N 033W Sec. 5, 6, 7, 8, 17, 18 ; S 001N 034W Sec. 01, 13, 14, 15, 16, 17, 19, 20, 29, 30, 31, 32 ; S 001N 035W Sec. 24, 25, 36 ; S 001S 033W Sec. 19, 30, 31 ; S 001 S034W Sec. 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36 ; S 001S 035W Sec. 01, 12, 13, 24, 25, 36 ; S 002N 033W Sec. 31, 32 ; S 002N 034W Sec. 36 ; S 002S 033W 6, 7, 18 ; S 002S 034W Sec. 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33, 34 ; S 002S 035W Sec. 01, 02, 12, 13, 24, 25, 26, 35, 36 ; S 003S 034W Sec. 4, 5, 6 ; S 003S 035W Sec. 1

Internal Use Only:

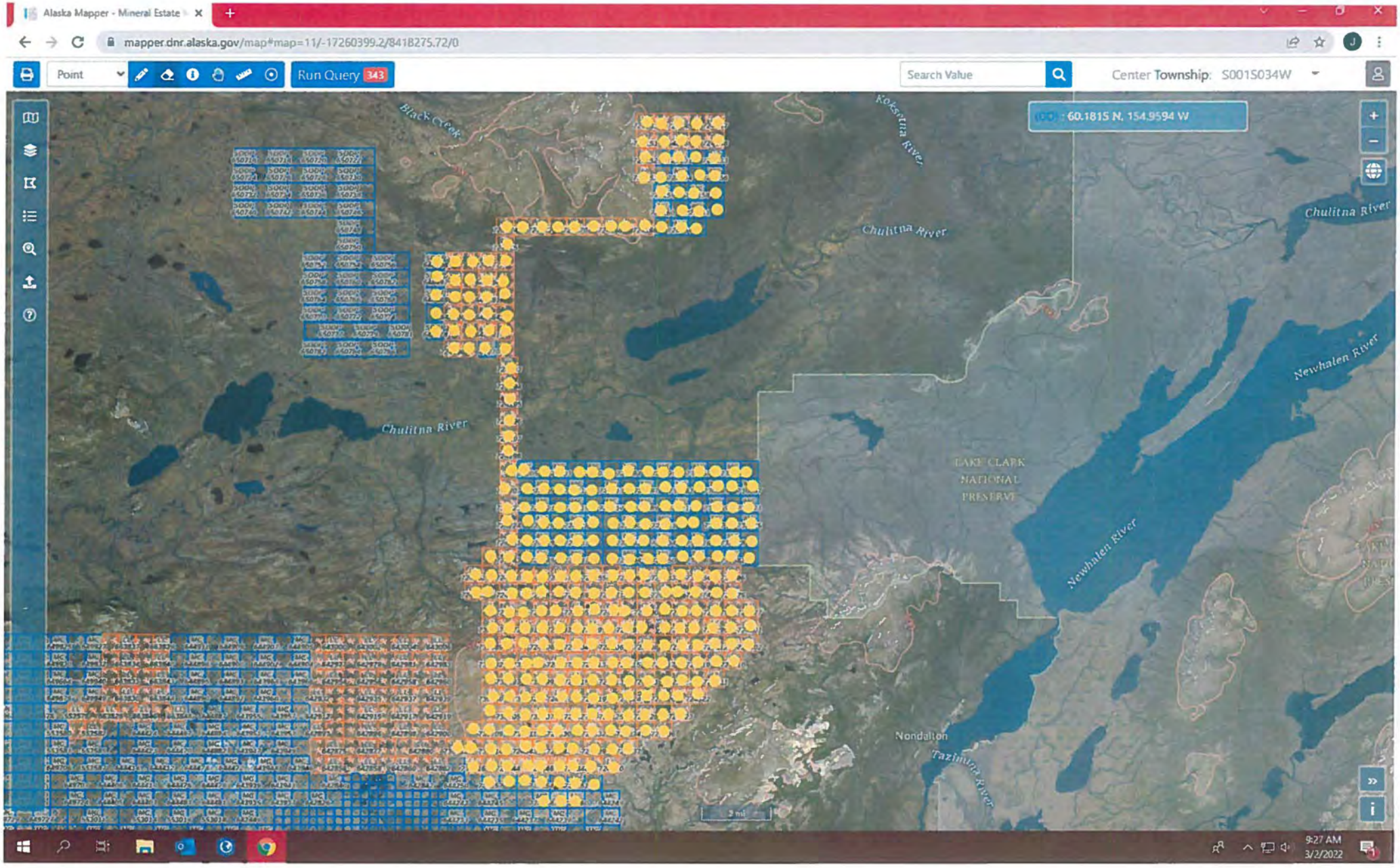
Date Application Received Complete: 2-22-22 Adjudicator: Sackinger LAS Entry: 2-8-22
CID(s): 57563 CID(s): CID(s):

APMA 3099 Active Area



Center: 155°5'39"W 60°5'21"N

3/2/2022


Alaska Mapper - Mineral Estate
mapper.dnr.alaska.gov/map#map=11/-17260399.2/841B275.72/0
Point
Run Query 343
Search Value
Center Township: S001S034W
60.1815 N, 154.9594 W
Black Creek
Kokstuna River
Chulitna River
Chulitna River
Chulitna River
Newhalen River
Newhalen River
LAKE CLARK
NATIONAL
PRESERVE
Nondalton
Tazimina River
2 mi
9:27 AM
3/3/2022

MV_ST_MINING

Source: Alaska Department of Natural Resources, Information Resource Managment

Case ID	Case Status	Case Type	Customer Name	Notepost	SC	Acres
ADL 648481	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	LL	160
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ADL 648485	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	LL	160
ADL 648486	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	LL	160
ADL 648491	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	LL	160
ADL 648494	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	LL	160
ADL 648569	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	LL	160
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ADL 728111	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728112	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728113	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728114	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728115	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728116	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728117	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728118	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728119	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728120	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728121	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728122	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728123	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728124	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728125	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728126	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728127	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 728128	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	LL	160
ADL 730684	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730685	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730686	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730687	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730688	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730689	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730690	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730691	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730692	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730693	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730694	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730695	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730696	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730697	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730698	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160

ADL 730699	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730700	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730701	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730702	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730703	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
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ADL 730705	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730706	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730707	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730708	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730709	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730710	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730711	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730712	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730713	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730714	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730715	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730716	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160
ADL 730717	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	LL	160

MV_ST_MINING

Source: Alaska Department of Natural Resources, Information Resource Managment

Case ID	Case Status	Case Type	Customer Name	Notepost	SC	Acres
ADL 647270	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	18-DEC-04	MC	160
ADL 648478	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	SODP	160
ADL 648487	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	SODP	160
ADL 648488	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	SODP	160
ADL 648497	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	SODP	160
ADL 648498	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	17-FEB-05	SODP	160
ADL 724154	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724155	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724156	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724157	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724158	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724159	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724160	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724161	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724162	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724163	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724164	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724165	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724199	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724200	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724201	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724202	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724203	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724204	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724205	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724208	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724209	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724210	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724211	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160

ADL 724212	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
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ADL 724217	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
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ADL 724240	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
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ADL 724247	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
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ADL 724250	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724251	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	15-APR-17	MC	160
ADL 724351	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	16-APR-17	MC	160
ADL 724352	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	16-APR-17	MC	160
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ADL 724359	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	16-APR-17	MC	160
ADL 724360	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	16-APR-17	MC	160
ADL 728084	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728085	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728086	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728087	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728088	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728089	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728090	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160

ADL 728091	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728092	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728093	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728094	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
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ADL 728130	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728131	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728132	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728133	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728134	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728135	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 728136	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	08-MAY-18	MC	160
ADL 730658	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730659	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730660	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730661	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730662	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730663	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730664	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730665	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730666	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730667	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730668	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730669	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730670	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730671	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730672	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	102
ADL 730673	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	145
ADL 730674	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730675	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730676	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	154
ADL 730677	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	158
ADL 730678	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730679	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730680	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730681	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730682	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160
ADL 730683	Active (35)	Mining Claim (713)	Chuchuna Minerals Company	13-SEP-19	MC	160

END OF REPORT

Report Information

Source ID	60
Source Nam	MV_ST_MINING
Source Desc	
Run Date an	03/02/2022 09:28:42 AKST
Record Cour	343

SQL Statement

MINERAL PROPERTIES LIST (14)

If requesting more than 12 claims, Are additional sheets with ADL/BLM/USMS and Legal Descriptions Attached? ☑ Yes ☐ No
Are any of these mineral properties an Upland or Offshore Mining Lease? ☐ Yes ☑ No

	ADL/BLM/USMS #	PROPERTY NAME		ADL/BLM/USMS #	PROPERTY NAME
1.	SEE ATTACHED		7.		
2.			8.		
3.			9.		
4.			10.		
5.			11.		
6.			12.		

INVENTORY OF EQUIPMENT (15)

List all mechanized equipment to be used (make, model, type, size, purpose, and number of each, including pumps). Attach additional sheets as necessary. If you are transporting on a trailer to the claim block, include the trailer size.

	Make, Model, Type, Size, Purpose of Equipment or Pump	Quantity of this type	Check One: Located on the claim block?	Check One: Transporting to claim block?
1.	SEE PROJECT NARRATIVE			
2.				
3.				
4.				
5.				
6.				
7.				
8.				

ACCESS OUTSIDE OF CLAIM BLOCK (16)

Access across surface estates not owned by the State requires approval of the managing agency. It is the responsibility of the applicant to contact the owners of private property to obtain authorization for access.

All season roads may be an improved dirt road intended to be used during all seasons of the year without causing long term damage to the road. NOTE: It is strongly recommended that you contact the appropriate Regional Land Office as certain roads are subject to Generally Allowed Uses, and authorization (permit or easement) may be required for use of the route with off-road vehicles greater than 1500 lbs curb weight (like mining equipment).

A completed access map must be submitted with your application. Copies of USGS topographic maps at a scale of 1"=1 mile must clearly indicate the proposed access route from start to finish and include appropriate legal descriptions (township and range) on each map sheet. The quadrangle map name should also be indicated (Healy A-3, etc.). Paper size should be limited to 8 ½" x 11". Do not tape maps together.

Is a complete route map attached, including winter cross country travel if applicable? ☑ Yes ☐ No

Access is: ☑ Existing ☐ To be constructed off claim block ☐ Both, or ☑ Helicopter Supported

Access outside the claim block crosses what type of land(s)? ☑ State (General) ☐ State (Mental Health) ☐ City/Borough ☐ Federal ☐ Private ☐ Private (Patented) ☑ Private (Native Corp. Land)

Does the proposed route of travel include use of RS 2477 access? ☐ Yes ☑ No.

If the RS 2477 ROW has a State of Alaska RST number, please list: _____

ACCESS OUTSIDE OF CLAIM BLOCK, CONTINUED

Indicate type(s) of existing access:

- [x] All Season Road: Existing ATV Trail System
- [ ] Summer Cross Country Travel off of claim block that is not considered Generally Allowed Uses (Complete Box 17)
- [ ] Airstrip
- [ ] River
- [ ] Winter Cross Country Travel that is not generally allowed use (Complete Box17)

Indicate type(s) of access to be constructed:

- [ ] Access Road
- [ ] Airstrip

Please describe your construction activities and include mitigation measures to protect water, fish and game resources. (A map outlining the route of construction activities is required). Attach additional pages if necessary:

SEE PROJECT NARRATIVE

CROSS COUNTRY TRAVEL (17)

Summer Cross Country Travel: Approvals for summer travel are issued from the DNR/DMLW Land section. Applications for LUPs may require sixty to ninety days to process and applications for easements may require six months to one year to process. A performance guarantee, insurance and fees are required before a permit will be issued and will only be released after travel is completed and no negative trail impacts have occurred.

Winter Cross Country Travel: May be approved when ground conditions will support the movement of heavy equipment. Existing roads and trails should be used whenever possible. The winter operation of ground contact vehicles for off-road travel must be limited to areas where ground frost and snow cover are adequate to prevent damage to the vegetation mat and underlying substrate. A completion report is required within 30 days of travel completion. Travel is generally not authorized after April 15th of each year (extensions may be granted as conditions allow).

A Cross Country Travel Route Map is required to obtain authorization. Is the map attached? [ ] Yes [x] No

Name the individual(s) or business(es) who will be conducting the cross country travel:

Alaska Earth Sciences, Inc

List all equipment and vehicles being transported from box 14, including vehicle weights:

ATV - 500-800lbs

State the average total miles traveled in one round trip:_____. State the number of trips proposed: 2.

State the start and end date(s) or period(s) of proposed cross country travel: May- October 30.

Select the following terrain type(s) that best describes your route of travel: [ ] Wetlands [x] Tundra

[x] Uplands [ ] Rivers or Other Water Bodies [ ] Wooded Areas (6" Trees or larger at breast height)

Will water be needed to construct ramps/ ice bridges? [ ] Yes [x] No

If Yes, estimated quantity of water will be used _____ gallons/day WaterSource: _____

CROSS COUNTRY TRAVEL, CONTINUED

Are you transporting fuel? ☐ Yes ☑ No Fuel flown via Helicopter (see Narrative)

The volume of fuel and hazardous substances to be used is the total volume (in gallons) to be carried on one vehicle and any trailers or sleds that vehicle is towing.

Maximum volume of fuel (in gallons) that is being transported by one vehicle and any trailers or sleds it is towing:

Are you transporting other hazardous substances? ☐ Yes ☐ No If "yes", indicate type and amount (e.g. gallons, lbs, psi):

How are petroleum products contained? (i.e., drums, bladders, steel tanks, etc.) Indicate size of containers:

How are petroleum products being transported? (i.e., skid-mounted tank; trailer; 55 gallon drums on skid; etc.)

Do you have an Oil Discharge Prevention and Contingency Plan approved by the Alaska Department of Environmental Conservation? ☐ Yes ☐ No

Do you have either a trained spill response team or a contract with a spill response company? ☐ Yes ☐ No

Describe any measures you plan to take to minimize drips or spills from leaking equipment or vehicles:

Does your cross country travel include the staging or storage of equipment or structures off the claim block? ☐ Yes ☑ No

If Yes, describe the location and dimensions of the long term or short term parking and/or storage areas.

PETROLEUM PRODUCTS AT PROJECT SITE **(18)**

Will Petroleum Products Be Stored on the Project Site?

☑ 0-1,320 gallons of total storage (Secondary Containment recommended, but not required)

☐ 1,321-10,000 gallons of total storage (count only containers greater than 55 gallon capacity). A self-certified Spill Prevention, Control, and Countermeasure (SPCC) plan is required and applies to all products, such as diesel fuel, gasoline, lube oil, hydraulic oil and waste oil. The self certified SPCC form can be downloaded at: https://www.sfdph.org/dph/files/EHSdocs/ehsHMUPAdocs/TIERIQFSPCCPlan.pdf.

BLM Operators are encouraged to use the optional BLM-Spill contingency plan that can be downloaded at: https://www.blm.gov/sites/blm.gov/files/BLM-AK_spill-contingency-plan_APMA_worksheetSup.pdf

☐ 10,000+ gallons of total storage (count only containers with 55 gallons or greater storage capacity). An SPCC certified by a professional engineer is required and applies to all oil products, such as diesel fuel, gasoline, lube oil, hydraulic oil and waste oil.

Indicate Distance Stored From Flowing Waters: water bodies required by DNR is 100 feet). 500 Feet. (Minimum distance from naturally occurring

Is waste oil stored on the project site? ☐ Yes ☑ No If yes, describe quantity and storage modality:

Are fuel containment berms around storage containers? ☑ Yes ☐ No Is berm area lined? ☑ Yes ☐ No

TEMPORARY STRUCTURES/FACILITIES (19)

Is a camp or placement of *any* temporary structure requested? ☑ Yes ☐ No
If No, Please explain:

Describe all temporary improvements (including buildings, tent platforms, out-buildings, etc., including thier quantity, dimensions and building type.

What type of property is the camp located on? ☑ State ☐ Federal ☐ Private (Patented) ☐ City or Borough ☐ MHTL
If camp is on private land, provide location:

Proposed Perimeter Dimensions of Camp: 100 length (ft) 50 Width (feet).

☐ Request use of existing facilities, list ADL(s):
☐ Year-Round ☐ Seasonal, from Approx. to , annually.

☑ Request to place temporary structures, list ADL(s): 724338, 724213
☐ Year-Round ☑ Seasonal, from Approx. May 1 to October 30 , annually.

	Temporary New Structures Quantity	Existing Structure Quantity	Use (Shop, office, etc.)	Dimensions (ft x ft)	Dimensions (ft x ft)	Dimensions (ft x ft)
Framed						
Tent						
Trailer						
Platforms						
Out-Buildings						
Other:			SEE ATTACHED TABLE			

** If Required, list any other structures on a separate sheet, include dimensions, use and type.*

Grey water and Biological Waste - Describe storage and proposed method of disposal(*e.g.*; leach line, septic, holding tank, or pit privy):
pit privy

Solid Waste - Describe the types of waste that will be generated on-site including garbage, scrap metal, industrial; and describe its disposal (*e.g.;* burn, haul away, buried).
Garbage and food scraps. Hauled away.

What is the distance grey water, biological, and solid waste will be located from the ordinary high water mark of the nearest freshwater body (lake, stream, river, rivulet, etc.), or the mean high water mark of a saltwater body: 100 feet . Will there be any use of animals (horses, dogs, goats/sheep, etc)? ☐ Yes ☑ No

Required: Dismantle, Removal, and Restoration Plan: Provide a plan for dismantling and removing structures, equipment, and storage tanks. Include the method and timeline for restoration of all location areas.
Any and all structures, equiptment, and storage tanks will be removed immediately following the completion of field activities via helicopter and or ATV.

MINING METHOD (20)

☐ Mechanical Placer Mining (e.g., terrestrial open-cut operations with dozer or excavator, etc.)
Estimated cubic yards processed annually: _____
☐ Suction dredge ☐ Mechanical dredge (e.g., excavator or clam-shell)

List all suction and mechanical dredges. If information is not applicable, write "N/A." Attach extra sheet if necessary.

	Dredge 1		Dredge 2		Dredge 3	
Vessel ID (Name or Number)						
Vessel Dimensions						
Suction Dredge Intake Nozzle Diameter / Pump Size	Inches:	HP:	Inches:	HP:	Inches:	HP:
Mechanical Dredge Bucket Volume	Cubic Yards:		Cubic Yards:		Cubic Yards:	
Processing Rate	Yds.^{3}/Hr.:		Yds.^{3}/Hr.:		Yds.^{3}/Hr.:	
Wastewater Discharge Rate	GPM:		GPM:		GPM:	
Maximum Water Depth	Feet:		Feet:		Feet:	
Average Daily Operating Hours						
Operation on Sea Ice (Yes/No)	Yes ☐ / No ☐		Yes ☐ / o ☐		Yes ☐ / No ☐	
Vessel Registration # / State	#:	State:	#:	State:	#:	State:

Location: ☐ Offshore / Salt Water ☐ Pond connected to stream
☐ Stream
☐ Mine cut isolated from stream ☐ Pond isolated from stream

EXPLORATION TRENCHING and DRILLING (21)

(Indicate target and trenching locations on sketch sheet and/or topographic map)

Trenching: Yes (No)
Estimated number of trenches to be excavated: _____ How long will trenches be open? _____
Average Size: Length: _____ Feet Width: _____ Feet Depth: _____ Feet

Drilling: (Yes) No
Total Number of Holes To Be Drilled: 21 Type of Drill(s) Used: LF-70 to AR250
Estimated Maximum Depth: _____ Feet Diameter of Drill Rod/Casing Rod PQ to NQ (NQ/HQ/H,Etc.).
Will water be used? ☑ Yes ☐ No Indicate how many pumps per water source: 1
Water source name(s): Unnamed. See attached map

Describe detailed drill plan, closure, plugging methodology, reclamation and abandonment in project narrative.

Trench/Drilling Location and Mining Claim Information			
Trench/Drill ID on Map	ADL/BLM/USMS NUMBER	Decimal Degrees, NAD 83 Datum	
		Latitude	Longitude (approximate)
	SEE ATTACHED TABLE		

If more than 8 trenches/drill sites, please provide data in tabular format (http://dnr.alaska.gov/mlw/forms/19apma/AHEA_ReclamationSpreadsheet.xls.)

EXPLOSIVES (22)

Will explosives be used? ☐ Yes ☑ No If "Yes", Indicate: Type: Amount:

Explosive Handler's Certification/ATF Permit Numbers:

Describe your blast design, blast schedule, and explosives handling plan in the project narrative.

DAMS (23)

☑ No dam required ☐ Existing ☐ To be constructed

Proposed Structure: ☐ Temporary ☐ Permanent

Purpose: ☐ Makeup water pond ☐ Settling/recycle pond ☐ Stream diversion Other:

Length: ft Height: ft Width At Crest: ft Width At Base: ft

Note: Height should be measured from the lowest point at either the upstream or downstream toe of the dam to the crest of the dam.

Water impoundment capacity (if known): acre-feet

IN-STREAM ACTIVITIES and STREAM CROSSINGS (24)

List any equipment that will be crossing streams (including low-water crossings along established trails/roads) or used in any natural waterbody (refer to Box 14 if necessary).or used in-stream (refer to Box 14 if necessary):

See Project Narritive

List all stream crossings, suction dredge or pump locations, including unnamed streams.

	Stream Name/ Water Source	NAD 83 Datum (approximate) Coordinates can be obtained using Alaska Mapper http://dnr.alaska.gov/mapper/controller		MTRSC ¼ ¼ Ex: F001S001N01 SWSW	Check boxes to indicate type(s) of activity		
		Latitude ddd.mmmm	Longitude -ddd.mmmm		Crossing	Dredging	Water Intake
1.	SEE ATTACHED TBL						
2.							
3.							
4.							
5.							

If in-stream activities and/or stream crossings are requested at more than 5 locations, please provide tabular data format (DNR template available at http://dnr.alaska.gov/mlw/forms/?tab=mining).

WATER USE AUTHORIZATIONS

Water usage (including from 100% recycle systems) may require approval by either Temporary Water Use Authorization or a Water Right. Information provided below will be used to determine the quantity of water that you may be authorized to use for your mining operation. When estimating water quantities, please estimate withdrawal amounts typical of a dry summer and provide the maximum quantity that you may withdraw from a particular source (e.g. stream, pond, groundwater, etc.) in a season.

A Temporary Water Use Authorization application may be initiated from this APMA application unless a Water Right is requested. Please contact the ADNR, Water Resources Section at telephone number (907) 451-2790 if interested in a Water Right or for more information.

A. START-UP WATER AND MAKE-UP WATER:

Is water withdrawn from any lake, stream, creek, river, etc. (does not include recycling/settling ponds)? ☑ Yes ☐ No

What is the name(s) of the lake, stream, creek, river, etc.? Notes on Maps most unnamed.

What are the months of water use needed (for example May 1st through October 31st)? May- October 31

Start-up water: Is water required at the start of the season ***to fill*** your recycle/settling pond system?

☐ Yes (if **YES**, complete information below). ☑ No If yes, what is the source name? _____

Source:
- ☐ Seepage infiltration from groundwater gained from cut and/or stream
- ☐ Diversion ditch from stream. Number of days diverting from stream for start-up water: ____
- ☐ Water intake rate: _____ gpm _____ hrs/day
- ☐ Pump from stream. Number of days pumping from stream for start-up water: ____
- ☐ Number of water pumps for start-up water: ____ Water intake rate (list for each pump): ____ gpm _____ hrs/day

Make-up water: Is water required ***to maintain*** water level in your recycle/settling pond system?

☐ Yes (if **YES**, complete information below). ☐ No If yes, what is the source name? _____

Source:
- ☐ Seepage infiltration from groundwater gained from cut and/or stream
- ☐ Ditch from stream. Number of days diverting from stream for make-up water: ____
- ☐ Water intake rate: _____ gpm _____ hrs/day
- ☐ Pump from stream. Number of days pumping from stream for make-up water: ____
- ☐ Number of water pumps for make-up: ____ Water intake rate (list for each pump): _____ gpm _____ hrs/day Pump intake size: _____ inches

B. RECYCLE/SETTLING POND SYSTEM.

Beaver ponds or other natural water features will not be permitted for use as settling ponds.

Is a pre-settling pond used?: ☐ Yes ☐ No Is recycle used?: ☐ Yes ☑ No

How many ponds are used in the recycle system? _____

Recycle pond is pond #. _____ Settling pond is pond #: _____

C. RECYCLE/SETTLING POND SYSTEM (continued).

Indicate Length (L), Width (W), and Depth (D) of each pond:

Pond # 1: L: _____ ft W: _____ ft D: _____ ft Pond # 2: L: _____ ft W: _____ ft D: _____ ft
Pond # 3: L: _____ ft W: _____ ft D: _____ ft Pond # 4: L: _____ ft W: _____ ft D: _____ ft
Pond # 5: L: _____ ft W: _____ ft D: _____ ft Pond # 6: L: _____ ft W: _____ ft D: _____ ft

Estimated hours per day that pump(s) will be used, return line size (in inches), operating pump rate (in gallons per minute), and water usage days per month:

Pump #1: _____ hrs/day _____ inches _____ gpm _____ days/month
Pump #2: _____ hrs/day _____ inches _____ gpm _____ days/month
Pump #3: _____ hrs/day _____ inches _____ gpm _____ days/month

D. CAMP WATER USE.

Is camp water used? ☑ Yes ☐ No

Maximum number of persons present in camp at a time 10-24

Camp water source: ☐ Well ☐ Haul ☐ Stream ☐ Spring ☑ Lake

Name of water source (if any): Unnamed Lake at Camp Site

Camp pump intake diameter: 2 Camp pump rate: 1-3 gpm 10 hrs/day

E. EXPLORATION ACTIVITIES.

Is water required for exploration activities? ☑ Yes ☐ No

If **YES,** What types of exploration activities are being performed? ☐ Trenching ☑ Drilling

If **YES,** How many total pumps are used in the exploration activities? 1 (Max pumps per source).

Estimated hours per day that pump(s) will be used, return line size (in inches), operating pump rate (in gallons per minute), and water usage days per month: Pump #1: 20 hrs/day 1 inches 2-5 gpm _____ days/month

A map of your requested drilling water sources is required with the following information:
-MTRS sections,
-stream reaches or other water sources (please label, including take points if known)
-and drill hole locations

F. SUCTION DREDGING.

If suction dredging activity is occurring please ensure that you have completed the dredge table in Section (20) MINING METHOD.

TIMBER CLEARING AND USE **(26)**
(Operations on State Lands Only)

Pursuent to AS 38.05.255, timber from land open to *mining without lease*, except "timberland", may be used by a mining claimant or prospecting site locator for the mining or development of the location or adjacent claims under common ownership. Timber not used for the mining or developement of the location or adjacent locations, that is *removed* from the operation must be acquired via timber sale or written letter of non-objection from the Alaska Division of Forestry.

For questions on the appropriate use of timber on federal mining claims, contact your local BLM field office.

On other lands ("timberlands" and in areas that are closed to mining without lease), timber cleared, used and/or removed must be acquired via a timber sale or a written letter of non-objection from the Alaska Division of Forestry.

Will timber be used for the mining or development of the location or lease? ☐ Yes ☑ No

Describe the timbered area or areas to be cleared; include a map or drawing of the ares of timber to be cleared.

Describe the amount of timber to be used for the mining or development of the location or lease and the clearing methods you will use.

Are more than 40 acres of timbered area(s) to be cleared? ☐ Yes ☐ No

11 AAC 86.145. "A classification or designation indicating that timber and other forest products of significant value are included within a mining property is prima facie evidence that the land on which the propoerty is located is considered to be "timberlands" for purposes of AS 38.05.255"

WASTEWATER DISCHARGE PERMIT APPLICATION (27)

All mechanical placer mine, suction dredge, and mechanical dredge operations that discharge to a water of the U.S. require an Alaska Pollutant Discharge Elimination System (APDES) permit from DEC. See Cover Pages for a list of APDES permit fees.

Operations wishing to discharge under the APDES Small Suction Dredge General Permit (dredges with intake diameters of 6" or less, or highbankers) may skip this section but must complete annual online registrations, including $25 fee payments, at http://alaska.gov/go/2MPF.

Previously issued DEC-APDES Wastewater discharge permit #: _____

Do you want this APMA to act as an application or renewal for any of the following APDES general permits (GPs)*:

Mechanical Placer Miners GP (open-cut terrestrial operations):	☐ Yes	☐ No
Medium-Size Suction Dredge GP (nozzle diameter greater than 6" to 10"):	☐ Yes	☐ No
Norton Sound Large Dredge GP (nozzle diameter greater than 10" or mechanical dredge):	☐ Yes	☐ No

Waterbody the discharge flows directly into, or would potentially flow: _____

Approximate coordinates of mine site:

Latitude: _____ Longitude: _____

Source (e.g., DNR - Alaska Mapper): _____

*Mechanical placer operations that do not elect coverage under the Mechanical Placer Miners GP may be required to obtain coverage under the Multi-Sector General Permit for Storm Water. Contact DEC to terminate a permit.

Optional* - Mixing Zone Request or Termination for Mechanical Placer Mine Operations

Do you wish to apply for a mixing zone and modified turbidity limit from DEC? ☐ Yes ☑ No

If a mixing zone is requested, provide the following:

Coordinates of discharge location: Latitude: _____ Longitude: _____.

Maximum Effluent Flow anticipated from your operation _____ (GPM) [must be greater than zero (0)].

Distance to nearest downstream drinking water source _____ and downstream placer mine _____.

Do you wish to terminate an active authorized mixing zone? ☐ Yes (APDES# _____) ☐ No

*A mixing zone authorizes an increase in the permit's turbidity limit based on available dilution from the surface water. Permittees without mixing zones must meet the water quality standard for turbidity at the point of discharge into the surface water.

Certification Statement – applicable only to information required for DEC authorizations (required for all DEC permit or mixing zone applicants)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system 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, the information submitted 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 fine and imprisonment for knowing violations.

Signature of Responsible Party: _____

Responsible Party Name (First Last, Position) - Printed: _____

Business Name (if applicable) - Printed: _____

(28)

SECTION 404 WETLANDS PERMIT

JURISDICTIONAL DETERMINATION (CORPS JD) and MITIGATION STATEMENT

All Placer Mining applicants are required to contact the Corps of Engineers for submittal requirements.

A complete application for a Department of the Army (DA), U.S. Army Corps of Engineers (Corps) Section 404 permit includes a description of project impacts (contained in the APMA), a Jurisdictional Determination (JD) and a Mitigation Statement. The applications for the JD and the Mitigation Statement are contained in two Corps Supplements, which may be attached to this APMA. The Supplements may be downloaded from the Corps and DNR websites, or obtained directly from a Corps office in paper copy, by email, or mail. Please contact the Corps to determine what supplements are required.

Corps Supplement, Attachment 1, Jurisdictional Determination: Attachment 1 must be filled in and submitted to the Corps for **all new placer applications (New and Existing Operations).** Photos of your mine site are required. Your JD will be valid for five years. Your photos will be used only for the purpose of conducting an offsite JD.

Corps Supplement, Attachment 2, Mitigation Statement: Alaska District regional mitigation policy for placer mining operations under this General Permit (GP) emphasizes avoidance and minimization of impacts; **compensatory mitigation is not required**. However, by regulation, a Mitigation Statement covering measures for avoidance, minimization, and compensatory mitigation, or, a reason why compensatory mitigation is not proposed, must be submitted to the Corps with each new APMA for projects that impact waters of the U.S.

Note:

- If your APMA requires, but does not include a JD or Mitigation Statement, your application will be considered incomplete. The Corps may also contact you for additional information. Please ensure your contact information on the front page is current.
- For BLM Operators: A complete 404 Wetland Permit Package with additional photos of the upland areas to be mined will be sufficient to meet the requirement for the uplands reclamation baseline data and riparian mitigation measures as required by § 43 CFR 3809.

Provide the Latitude and Longitude of the operation location (DD, NAD83):

Latitude: _____ Longitude: -_____

Source (e.g., DNR - Alaska Mapper): _____

Please list Corps permits previously issued for this site: POA-_____-_____, POA-_____-_____

Certification Statement

The Alaska District will accept the APMA as a pre-construction notification, pursuant to 33 CFR 320.1 (c). Application is hereby made for a permit to authorize the work described in this APMA. I certify the information in the APMA, and any required Supplements, is complete and accurate. I future certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the operator/ applicant.

Operator or Agent:

_____

Print Name Signature Date

STREAM DIVERSION (29)

A MAP OF COMPLETE STREAM DIVERSION IS REQUIRED: Plan Map of Operation included in the APMA should show the entire length of the diversion (i.e. where the water is diverted from the natural stream channel to where it returns to the natural stream channel) with start and end locations clearly marked. Operations on BLM lands that are proposing a stream diversion are encouraged to contact their local field office as early as possible in the permitting process due to additional requirements.

Please note: If you have a stream diversion structure; this structure may also qualify as a dam and be subject to the Alaska Department of Natural Resources Dam Safety Program per definitions provided in AS 46.17.900(3). Complete Section 23 (regarding a Dam) of this APMA. If you require further regulatory guidance regarding dams, please contact our Dam Safety and construction Unit, Dam Safety Engineer at telephone number (907) 269-8636 or for more information go to the Alaska Dam Safety Program website at: http://dnr.alaska.gov/mlw/water/dams/

Is stream diversion required? ☐ **Yes** (if **Yes**, complete information below). ☑ **No**

Stream Name:_____

☐ Existing (Date Constructed_____) ☐ To Be Constructed (Date_____)

If a diversion is required or pre-existing, please contact your local ADF&G, Habitat Section for Fish Habitat Permitting information. To facilitate permit issuance, please provide the following information:

Is Stream Diversion? ☐ Permanent ☐ Temporary _____year(s) _____months

Will diversion be reclaimed annually prior to freeze-up or be retained throughout the mine life?

☐ Annually reclaimed/returned to natural stream ☐ Maintained throughout mine life

Dimensions of existing stream in diversion area:
Length _____(ft) Top Width___(ft) Bottom Width___(ft) Depth___(ft) Floodplain Width_____(ft)

Dimensions of proposed diversion:

Length _____(ft) Top Width___(ft) Bottom Width___(ft) Depth___(ft) Floodplain Width_____(ft)

Dominant substrate type (Choose Two): ☐ Bedrock ☐ Boulder ☐ Cobble ☐ Gravel ☐ Sand ☐ Silt/Clay

Note: Diversion should approximate the existing stream in terms of meander bends, length, depth, stream width, and floodplain width.

(Please provide plan and profile diagrams of diversion in Section 30, PLAN MAP OF OPERATION) or attach additional sheets as necessary

PLAN MAP OF OPERATION *REQUIRED

(30)

VICINITY MAP

See Attached

Date Prepared:	Applicant Name:
STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND AND WATER	
MAP:	
Sec.(s)_____Township____, Range_____, Meridian____	
Scale: 1" = _____	ADLs:
SHEET OF	APMA #

(Attach additional sheets, along with detailed explanations as necessary)

CROSS SECTION SKETCH *REQUIRED

BEFORE ACTIVITY (31)

DURING ACTIVITY

AFTER ACTIVITY

Date Prepared:	Applicant Name:
STATE OF ALASKA **DEPARTMENT OF NATURAL RESOURCES** **DIVISION OF MINING, LAND AND WATER**	
MAP:	
Sec.(s)_____Township_____, Range_____, Meridian_____	
Scale: 1" = _____	ADLs:
SHEET OF	APMA #

HARDROCK NARRATIVE *REQUIRED

(32)

A narrative of the operation is required. Please use this space to describe the access, process, environmental protection measures and reclamation measures to be used for the duration of this permit. Use prompts provided below and include any additional information relevant to the proposed activities.

SEE ATTACHED NARRITIVE

DESCRIBE ACCESS TO PROPERTY, DRILL/TRENCH SITES, INCLUDING LENGTH AND TYPE OF ACCESS ROUTES. DESCRIBE ACCESS RECLAMATION MEASURES TO BE CONDUCTED AND TIMELINE:

DESCRIBE EXPLORATION METHOD, SCOPE OF WORK PROPOSED, EQUIPMENT, WHEN AND WHERE ACTIVITIES WILL OCCUR, PERSONNEL HOUSING LOCATION AND CAMP DESCRIPTION:

DESCRIBE SITE PREPARATION ACTIVITIES AND PRE-RECLAMATION MEASURES:

DESCRIBE PAD CONSTRUCTION AND DIMENSIONS:

DESCRIBE DRILL WASTE AND DRILL WATER MANAGEMENT, DRILL FLUIDS AND DISPOSAL METHODS. ATTACH MSDS/SDS FOR ALL SUBSTANCES:

DESCRIBE FUEL HANDLING AT EXPLORATION SITES DRILL (PADS AND TRENCHES) AND OFF SITE (CAMP OR BASE OPERATIONS). DISCUSS SPILL PREVENTION AND RESPONSE PLAN:

DESCRIBE WATER USE INDCLUDING ESTIMATE OF DAILY WATER USE:

DESCRIBE HOW THE OPERATION WILL AVOID AND/OR MITIGATE POTENTIAL IMPACTS TO FISH, WILDLIFE AND CULTURAL RESOURCES:

DESCRIBE CLOSURE, PLUGGING METHODOLOGY, SURFACE RECLAMATION AND ABANDONEMENT:

2021 ANNUAL RECLMATION STATEMENT (33)

☐ Placer Mining
☐ Suction Dredging
☑ Hardrock Exploration APMA # 3099

Complete and return this statement by December 31, 2021. If you did not operate, fill in your name, check bottom box, sign, and return form.

In accordance with AS 27.19 (Reclamation Act):

I, Connor Taylor hereby file an annual reclamation statement for the 2021 mining operation described in subject Application for Permits to Mine in Alaska. (Submission of this statement does not constitute reclamation approval.)

Volume of material disturbed in 2021: 0 cubic yards (Includes strippings and processed material.)

Sluice days last season: 0 Cubic yards of material processed daily: 0 Annually: 0

Total acreage disturbed in 2021: State 0, Federal 0, Private 0. (Includes stripped areas, mining cuts, overburden and tailing stockpiles and disposal areas, temporary stream diversions, stream bypasses, and settling ponds.) Federal operators should include area of camp and access roads.

Length _____ feet and Width _____ feet of stream diversion.

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Stream diversion: ☐ Temporary ☐ Permanent ☐ No Diversion (check one).

Total Area reclaimed in 2021: _____ acres.

Total un-reclaimed acres: 0 (This should match "total acreage currently disturbed" on the 2022 Reclamation Plan Form.)

For areas reclaimed, the following reclamation measures were used (check only measures that were used).
You must include photographs or videotapes of the completed reclamation work:

☐ Spread and contoured tailings
☐ Spread topsoil, vegetation, overburden muck or fines on the surface of contoured tailings
☐ Reestablished flood plain with stream channel in stable position
☐ Ponds are reclaimed
☐ Backfilled and reclaimed temporary stream diversions
☐ Camp removed, cleaned up and left free of debris
☑ Hardrock Exploration: Complete and submit an electronic Annual Reclamation Report

Other Reclamation Measures Taken:

☑ Did not operate in 2021 and therefore did not conduct reclamation.

Relationship to Claim(s)
☐ Owner ☐ Lessee ☐ Operator
☑ Agent For: Chuchuna

Signed [signature] Date 2/21/2022

2022 RECLAMATION PLAN FORM (HARDROCK EXPLORATION)

☐ A. RECLAMATION PLAN	☐ B. RECLAMATION PLAN VOLUNTARY	☑ C. LETTER OF INTENT (34)
(REQUIRED if the operation will disturb five or more acres this year, OR 50,000 cubic yards, OR if the operation has a cumulative disturbed area of five or more acres).	(for an operation below limits shown in Box A but wanting to qualify for the statewide bonding pool. (Operations on BLM Lands and others not filing Letter of Intent).	(less than five acres to be disturbed AND less than 50,000 cubic yards AND less than five acres unreclaimed area).

In accordance with Alaska Statute 27.19, reclamation is required of all mining operations. Reclamation bonding is required of operations with disturbance of 5 acres or greater. Completion of this application will meet the requirements for a "Reclamation Plan" for operations 5 acres and larger in size and for a "Letter of Intent To Do Reclamation" for operations under 5 acres. If you do not intend to use the reclamation methods presented below, you must provide additional information concerning your plans for reclamation under separate attachments.

Total acreage currently disturbed: 0 acres. This should match: "Total Unreclaimed Acres" on your 2021 Annual Reclamation Statement for Small Mines, or line #7 on your 2022 Bond Pool Renewal Form. Disturbed ground includes all unreclaimed mining and exploration activity (excluding camps and roads) since October 1991. Federal operators must include areas of camps and roads.

New acres to be disturbed in 2022 0 acres. Total acreage (currently disturbed plus new acres): 2 acres.

Acreage disturbed by land status: 2 State (general) _____ State (Mental Health) _____ Private _____ Federal

Total acreage to be reclaimed in 2022 2 acres; Total volume of material to be disturbed in 2022: 25 cubic yards.

Include strippings and overburden to be removed. Cubic yards = Length (yards) x Width (yards) x Depth (yards).

☑ Reclamation will be conducted concurrently with activity. ☐ Reclamation will be conducted at the end of the season.

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THE FOLLOWING RECLAMATION MEASURES SHALL BE USED:

(These measures are required by law. Those that do not apply may be crossed out; but, an explanation must be given.)

- Topsoil, vegetation, and overburden muck, not promptly redistributed to an area being reclaimed, will be individually separated and stockpiled for future use. This material will be protected from erosion and from contamination by acidic or toxic materials and will not be buried by tailings.
- The area reclaimed will be reshaped to blend with the surrounding area using tailings, strippings, and overburden and be stabilized.
- Stockpiled topsoil, overburden muck, will be spread over the contoured exploration sites to promote natural plant growth such that
- Exploration trenches will be backfilled. Brush piles, stumps, topsoil, and other organics will be spread on the backfilled surface to inhibit erosion and promote natural revegetation. All exploration trenches will be reclaimed by the end of the exploration season in which they are constructed, unless specifically approved by the DMLW (Mining operations are required by law to be reclaimed as contemporaneously as practicable with the mining operation to leave the site in stable condition).
- Shallow auger holes (limited to depth of overburden) will be backfilled with drill cuttings or other locally available material in such a manner that closes the hole to minimize the risk to humans, livestock and wildlife.
- All drill hole casings will be removed or cut off at, or below, ground level. All drill holes will be plugged by the end of the exploration season with bentonite holeplug or equivalent slurry, for a minimum of 10 feet within the top 20 feet of the drill hole. The remainder of the hole will be backfilled to the surface with drill cuttings. If water is encountered in any drill hole, a minimum of 7 feet of bentonite holeplug or equivalent slurry will be placed immediately above the static water level in the drill hole. (NOTE: The operator understands that complete filling of the drill holes, from bottom to top, with bentonite holeplug or equivalent slurry is also permitted and is considered to be the preferred method of hole closure, unless communicated otherwise by DMLW.)
- If artesian conditions are encountered, the operator will take all measures practicable to prevent the offsite discharge of those waters subject to 11 AAC 97.240 and will contact the DMLW for approval of hole plugging measures.
- At closure, all shafts, adits, tunnels, and air vents to underground workings will be stabilized and properly sealed to ensure protection of the public, wildlife and the environment.
- On state lands, all buildings and structures constructed, used, or improved will be removed, dismantled, or otherwise properly disposed of unless the surface owner or manager authorizes that the buildings and structures may stay.
- On state lands, all scrap iron, equipment, tools, piping, hardwear, chemicals, fuels, waste, and general construction debris will be removed or properly disposed of.
- Reclamation measures taken will be consistent with any alternative post mining land use approved by the Commissioner, subject to the provisions of 11 AAC 97.300(h) and the conditions (if any) of an approved reclamation plan.

IMPORTANT: 1. Alternative reclamation measures may be approved if the reclamation measures presented above are not applicable to your site. Please explain in separate correspondence. Submit a sketch and describe additional reclamation measures you propose to conduct at your operation. Reclamation measures must comply with AS 27.19.

BONDING: In accordance with AS 27.19, bonding is required for all operations having a mined area of ≥ five acres on State Land. This area must be bonded for $750.00 per acre, unless the miner can demonstrate that a third party contractor can do the needed reclamation for less. The Statewide Bonding Pool may be joined by completing a bond pool application form and meeting certain requirements. No reclamation plan approval goes into effect until the bonding pool deposit and annual nonrefundable fees are paid. Use bond form to calculate area of disturbance for bonding.

BLM requires that a reclamation plan be consistent with §43 CFR 3809.420, Performance Standards for the Surface Management regulations for Federal Operations. **Refer to 43 CFR 3809 or the BLM minerals website available at** . https://www.blm.gov/programs/energy-and-minerals/mining-and-minerals **for more information on what is needed for a reclamation plan on Federal lands, as they may be different than those identified above.**

Connor Taylor Printed name (Applicant) Signature (Applicant)	Relationship to Mineral Property: ☐ Owner ☐ Lessee ☐ Operator ☑ Agent For: Chuchuna	Date: _____ APMA #: 3099

C$_u$HUCHUNA$_u$ Minerals Company

Application for Permits for Hardrock Exploration

Bristol Bay Mining District

For

Chuchuna Minerals

February 21, 2022

C HUCHUNA
Minerals Company

Groundhog Project 2017	
Mining District	Bristol Bay
USGS Quadrangle	Lake Clark A-6, A7 & Iliamna D6, D7
Presented by	Connor Taylor
Date	February 21, 2022

Narrative of Project:

Chuchuna Minerals Company (CMC) is planning on conducting various forms of exploration on its Groundhog Project, 20 miles north-northwest of the village of Iliamna, in the Bristol Bay mining district. The methods of exploration are planned to involve ground based reconnaissance, ground or airborne geophysics and core drilling. The State mining claims forming the Groundhog Property are held 100% by CMC which is a corporation composed primarily of Kijik Corporation (KC), a Nondalton village corporation, and Alaska Earth Sciences, Inc (AES) of Anchorage.

Summary

The project will include several seasons of diamond core drilling, with ground-based reconnaissance and geophysics to be conducted either simultaneously with drilling or as separate programs. Twenty (20) drill sites are identified on the attached map (Section 30) along with water source points which include both relatively shallow holes of less than a thousand feet in depth to much deeper holes that may exceed 4000 feet in depth. The holes shown all lie within State mining claims, however some future drilling may take place on adjacent Native land. The drilling and geophysics will be conducted by subcontractors to Alaska Earth Sciences Inc. Operations will be supported by helicopters from Robinson 44 to Bell 205 (Huey) in size. Crews will be housed in private lodging located in Iliamna and in Nondalton or in remote camps within CMC held mining claims. Depending on results of exploration a semi-permanent camp may be established near Nondalton on Native land. Some exploration operations may be conducted using the help of four-wheelers traveling over existing trails to reach the claims.

Access

The project area will be accessed by helicopter from Iliamna and Nondalton, or by ATV from Nondalton using existing trails. All equipment and personnel will be flown to the project site daily for projects using Helicopter access. There may be a temporary camp set up on State claims for projects using ATV's for transportation. Access from Anchorage to Iliamna and Nondalton during project operations will be by fixed wing aircraft, primarily wheeled aircraft. With the possible exception of the use of a heli-portable crawler system to aid in moving small core drills short distances, movement over the ground is anticipated to be done either by ATV on existing trails, or by foot. Therefore, nearly all movement of personnel and equipment to and from and within the claim block will depend on helicopters or ATVs.

On-Site Camp

For shorter field programs, a remote lodging camp may be set up on Chuchuna Minerals Company held mining claims. The camp will hold no more than 10 workers and will consist of Arctic Oven tents for kitchen/office, and Hurricane Hut sleeper tents. For larger programs the camp will hold no more than 24 workers and will consist of weatherport tents, wooden decks and boardwalks (See attached table section (19) for structure list). A bear fence will be used around the camp including the kitchen. Food and trash will be secured in bear proof containers. Trash and food scraps will be flown off site. Greywater produced from the kitchen will be treated as per conditions of the Temporary Camp Permit, following the guidelines of Alaka Department of Environmental Conservation's 'Temporary Camp Greywater Use and Handling' guide (https://dec.alaska.gov/media/9824/forms-food-temporary-camp-application-worksheet.pdf.) See attached map (section 30) for camp location.

Mobilization

Mobilization of drilling equipment and supplies will typically occur between mid-May and mid-June of each year. Supplies and equipment will be flown by helicopter from either Iliamna or Nondalton airport.

The drilling equipment to be mobilized will range from small compact heli-portable diamond drill rigs such as the Multipower, Discovery I drill used in 2017 drill program to the larger Quest AR 250 diamond drill rig capable of drilling HQ/NQ holes to over 4000 feet in depth. Ancillary tools and equipment will include drill rod in various diameters, rod handling systems, drill muds and additives, cutting handling systems, triplex/duplex high-pressure pumps, trash pumps, generators and pad building materials. Supplies such as muds, polymers, cement, hole plug material and other additives will be identified and hazmat sheets provided to all involved in their handling and usage.

Fuel Storage

Fuels including JET-A, diesel, and gasoline for the drill and ancillary motors will be stored and transferred in approved containers. They will be stored within properly sized containment ponds both at staging areas and on site. It is planned to use double-walled aluminum tanks for helicopter slinging operations.

Water For Drilling

Water used for drilling will be gravity fed whenever possible but pumping will be required at most sites. Water will be diverted at a rate of 2-5 gallons per minute. If a gravity water source is not possible then a Bean 35 pump will be used. The pump will be placed as far from the creek as practicable and will be placed in a metal tray to prevent potential leaks from reaching the creek. The intake hose will be 3" in diameter and will be screened to less than or equal to 3/32 of an inch to avoid entrapment or impingement of juvenile fishes. High-pressure 1-inch diameter rubber hose will be used to supply water to the drill. The attached map (Section 30) shows anticipated water source areas and the table includes the legal descriptions for the water withdrawal areas.

Core Handling, Drill Cuttings/Fluids, Abandonment & Site Restoration

Diamond drill core samples will be obtained from bedrock after drilling and casing through overburden. Core size will vary from BTW (1 ¾") to HQ (2 ½"). The outer diameter of the drill hole will vary from 2 ¼" (BTW) to 3.5" (HQ) depending on drill rod and bit size selected. After skeletal logging is completed, core will be removed from the site to either Iliamna or Nondalton for final logging and sampling.

Where possible, drill water and fluids will be recycled at the drill during operation thus reducing the total necessary amount of water from the source. A recycle reservoir will aid in separating cuttings from drill fluids. Drilling fluids will remain in the drill hole as much as possible. After hole completion, excess fluids will be captured, solids allowed to settle, and fluids return to the soil/ weathered bedrock profile. Any excess cuttings and fine sediment will be spread carefully on any disturbed areas and reseeded as necessary.

Drill holes will be reclaimed by filling with cutting solids to within 20 feet of the surface and then backfilling with bentonite chips to form a seal. Recycle pits will then be recovered with topsoil and vegetative mat. If water is encountered an additional bentonite seal will be placed immediately above the water table and a minimum of 7 feet of bentonite chips will be placed atop the plug to form a seal.

Disturbance of the vegetative mat will be negligible since the drill rig will not be placed directly on the ground. It is estimated that each drill site will disturb no more than 500 square feet and displace no more than 3 cubic yards of material (if a sump is required to contain drill cuttings). The drill sites are anticipated to revegetate naturally. Total surface disturbance is estimated to be 2500 square feet. Reclamation of drill sites will be completed immediately upon removal of the drill rig.

Operations & Personnel

The drill rigs will be operated day and night on 2-12 hour-shifts per day. Two, 2-man crews will be required at the drill with a day shift manager and maintenance person for a total crew size of 5 men covering the two shifts.

Exploration Equipment

For future drilling programs, a light diamond core rig is planned for a series of shallow (500-1000 foot) holes. Succeeding seasons will likely require larger drills such as a DDM AF25F or Quest AR60. Should the program identify deep targets of 4000 feet or more, a heavier drill such as the Quest AR250 will be used. For pad building a small Digger-brand backhoe powered by a small diesel engine may be required to assist on the larger pads at deep drill hole sites. Other motorized equipment will include triplex Bean 35 pumps and duplex Bean 15 high pressure pumps, small gas powered trash pumps for transferring water, drill fluids and fuels, gas or diesel powered generators/welders for lighting and power tools. ATVs may also be utilized for transportation. Small hand tools will include chain saws and handheld drills for soil sampling and for anchoring hillside pads.

For work pads, the small drill would require a minimum-sized 16' X 16' wooden deck supported by 10"X10" or 8" X 8" timbers. Pads on low angles can be constructed without breaking the tundra layer. Steeper hillsides will require shallow trenches on the uphill sides for safe anchorage. Larger drills will require pads of 20' X 20' in size with somewhat larger support timbers. All sites will be completely reclaimed including reseeding after hole completion unless the hole can be used for a monitoring well. Spill prevention equipment and clean-up kits will be available at all active drill sites. A safe haven tent/shack will be placed centrally and nearby to primary activities during all phases of the operation. The tent will include emergency food, sleeping gear, heat source and first aid equipment

Fuel and fluids containment systems at staging areas will be adequate for storage of up to 1000 gallons including diesel, Jet-A, gasoline, lubricants, and liquid mud products. For sling transportation 100-gallon, double-walled aluminium fly tanks are planned. These tanks are custom designed with "no-leak" quick-connect-style hose couplers thereby eliminating the possibility of small spills associated with attaching separate pumps and hoses. The fly tanks will be refuelled from a bulk fuel storage containment tanks in Iliamna and flown by helicopter to the drill sites.

Drill Site Locations

The attached map (Section 30) show the location of the drill sites. A total of 20 possible drill sites have been selected within the Lake Clark A6, A7 and Ilimna D6, D7 quadrangles and located in four separate townships within the Seward Meridian.

Core logging, splitting, and temporary storage will be based on private land near Nondalton. Core boxes will be stored in this area temporarily on wooden pallets.

Project Duration

Including geophysics and surface sampling the future drilling projects are expected to last no more than 60 days. The planned drilling effort will require up to 20 days at the end of the program to complete.

Source Number	Name/Water Source Stream Reaches	Latitude	Longitude	MTRSC	ACTIVITY
SR-1	SR-1 - End SR-1 - Start	60.16051024 60.12740745	-155.2225989 -155.2462152	S001N034W 19, 20, 29, 30, 31, 32	Water Intake
SR-2	Rock Creek - End Rock Creek - Start	60.07260991 60.02353202	-155.0975526 -155.1482447	S001S034W 22, 27, 28, 29, 31, 32 S002S034W 5, 6, 8	Water Intake
SR-3	SR-3 - End SR-3 - Start	60.07423638 60.08009273	-155.2160123 -155.1636781	S001S034W 19, 20 S001S035W 24	Water Intake
SR-4	SR-4 - End SR-4 - Start	60.06853407 60.04655343	-155.1505164 -155.1796507	S001S034W 20, 29, 30, 31, 32	Water Intake
SR-5	SR-5 - End SR-5 - Start	59.98894725 59.97460068	-155.0849246 -155.0632548	S002S034W 23, 26	Water Intake
SR-6	SR-6 - End SR-6 - Start	60.06953411 60.06770765	-155.1116226 -155.1211019	S001S034W 22, 27, 28	Water Intake/Camp
SR-7	Groundhog Creek - End Groundhog Creek - Start	60.06457185 60.05150828	-155.1143007 -155.1149384	S001S034W 27, 34	Water Intake
SR-8	SR-8 - End SR-8 - Start	60.05992294 60.02646799	-155.1312201 -155.1357317	S001S034W 28, 34 S002S034W 4	Water Intake
WPS-1	Unnamed Lake	60.082693	-155.157256	S001S034W20	Water Intake
WPS-2	Unnamed Lake	59.96386	-155.123214	S002S034W33	Water Intake/Camp

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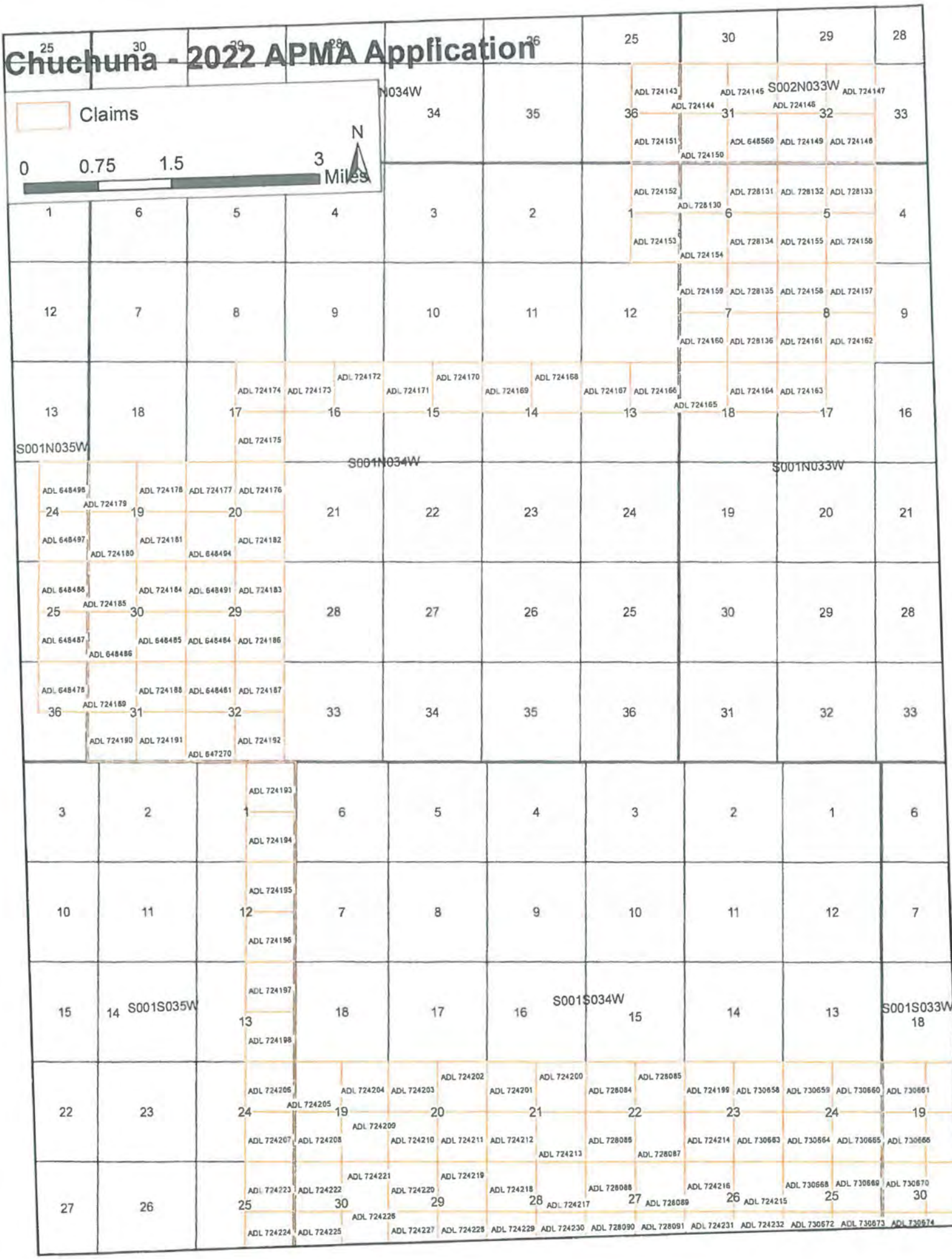

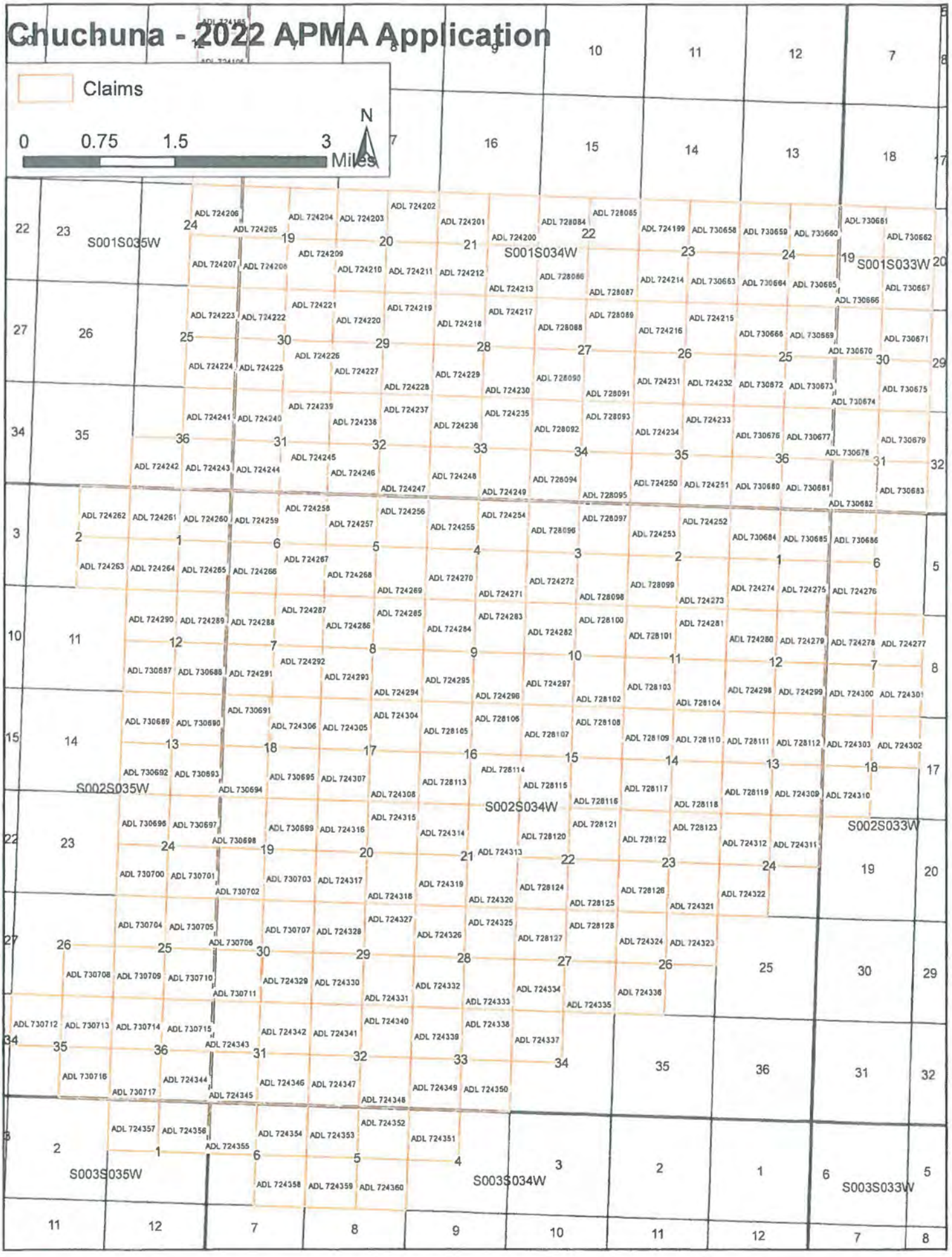
Chuchuna - 2022 APMA Application
Claims
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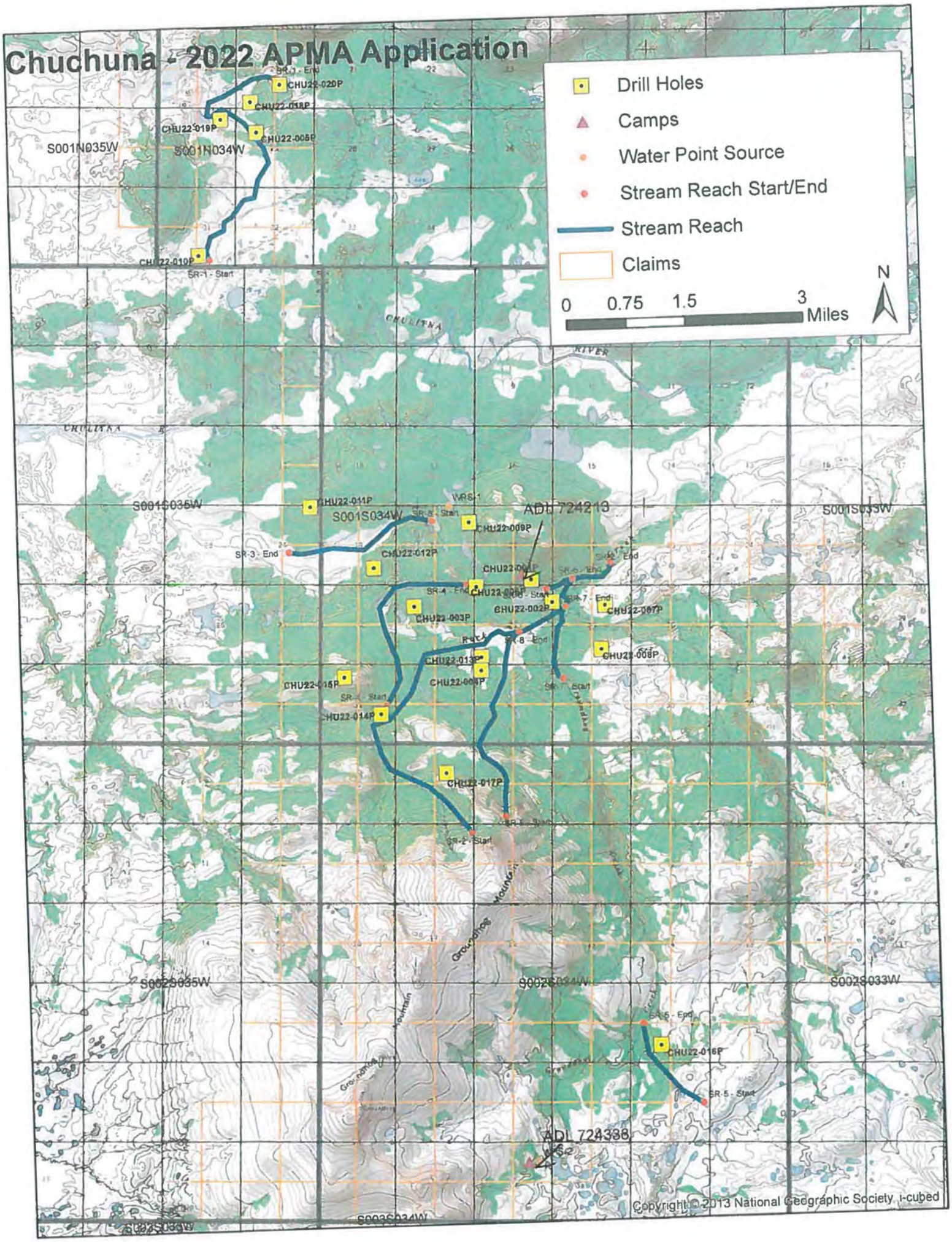
0.75
1.5
3
Miles
N
S001S035W
S001S034W
S001S033W
S002S035W
S002S034W
S002S033W
S003S035W
S003S034W
S003S033W

Chuchuna APMA
Groundhog Project

A-22-3099

Drill Hole	ADL #	Latitude DD	Longitude DD
CHU22-001P	724209	60.06952927	-155.1268533
CHU22-002P	724217	60.06546045	-155.1191839
CHU22-003P	724220	60.06456113	-155.1699411
CHU22-004P	724236	60.05294492	-155.1451376
CHU22-005P	648491	60.15066638	-155.2291686
CHU22-006P	724218	60.06813334	-155.1471192
CHU22-007P	728089	60.06489688	-155.0996732
CHU22-008P	728091	60.05689291	-155.100915
CHU22-009P	724202	60.079889	-155.1499842
CHU22-010P	724191	60.12827175	-155.2501994
CHU22-011P	724206	60.08253358	-155.2083712
CHU22-012P	724209	60.0715403	-155.1848567
CHU22-013P	724229	60.05537617	-155.1449834
CHU22-014P	724245	60.04500925	-155.1819796
CHU22-015P	724240	60.05169476	-155.1955029
CHU22-016P	728126	59.98508342	-155.0786228
CHU22-017P	724256	60.03432751	-155.1578721
CHU22-018P	648494	60.15624956	-155.2314267
CHU22-019P	724184	60.15302059	-155.2423115
CHU22-020P	724182	60.15943537	-155.2205409


Chuchuna - 2022 APMA Application
Drill Holes
Camps
Water Point Source
Stream Reach Start/End
Stream Reach
Claims
0 0.75 1.5 3 Miles
N
CHU22-020P
CHU22-018P
CHU22-019P
CHU22-005P
CHU22-010P
SR-1 - Start
S001N035W
S001N034W
CHULITNA
RIVER
CHU22-011P
WPS-1
S001S035W
S001S034W
SR-3 - End
CHU22-009P
ADL 724213
CHU22-012P
CHU22-001P
SR-4 - End
CHU22-004P
CHU22-003P
CHU22-002P
CHU22-007P
CHU22-006P
CHU22-013P
CHU22-015P
CHU22-014P
CHU22-017P
SR-2 - Start
S002S035W
S002S034W
S002S033W
CHU22-016P
SR-5 - Start
ADL 724338
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Chuchuna
Groundhog Project - APMA Application
Temporary Camp and Facilities

Temporary Structure	Quantity	Dimensions (ft x ft)
Kitchen Tent	1	16x40
Food Storage	1	12x20
Soil Prep Tent	1	16x30
Bathhouse	1	16x30
Office	1	12x20
Sleeping Tents	11	12x10
Sleeping Tents	3	8x10
Outhouses	4	3x3
Wooden deck for satellite dish	1	tbd
Wooden boardwalk through camp	1	tbd

MINERAL PROPERTIES LIST

ADL No.	Property Name
ADL 647270	GDH3
ADL 648478	NIKA1
ADL 648481	NIKA4
ADL 648484	NIKA7
ADL 648485	NIKA8
ADL 648486	NIKA9
ADL 648487	NIKA10
ADL 648488	NIKA11
ADL 648491	NIKA14
ADL 648494	NIKA17
ADL 648497	NIKA20
ADL 648498	NIKA21
ADL 648569	NIKA92
ADL 724143	CHU 001
ADL 724144	CHU 002
ADL 724145	CHU 003
ADL 724146	CHU 004
ADL 724147	CHU 005
ADL 724148	CHU 006
ADL 724149	CHU 007
ADL 724150	CHU 008
ADL 724151	CHU 009
ADL 724152	CHU 010
ADL 724153	CHU 011
ADL 724154	CHU 012
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