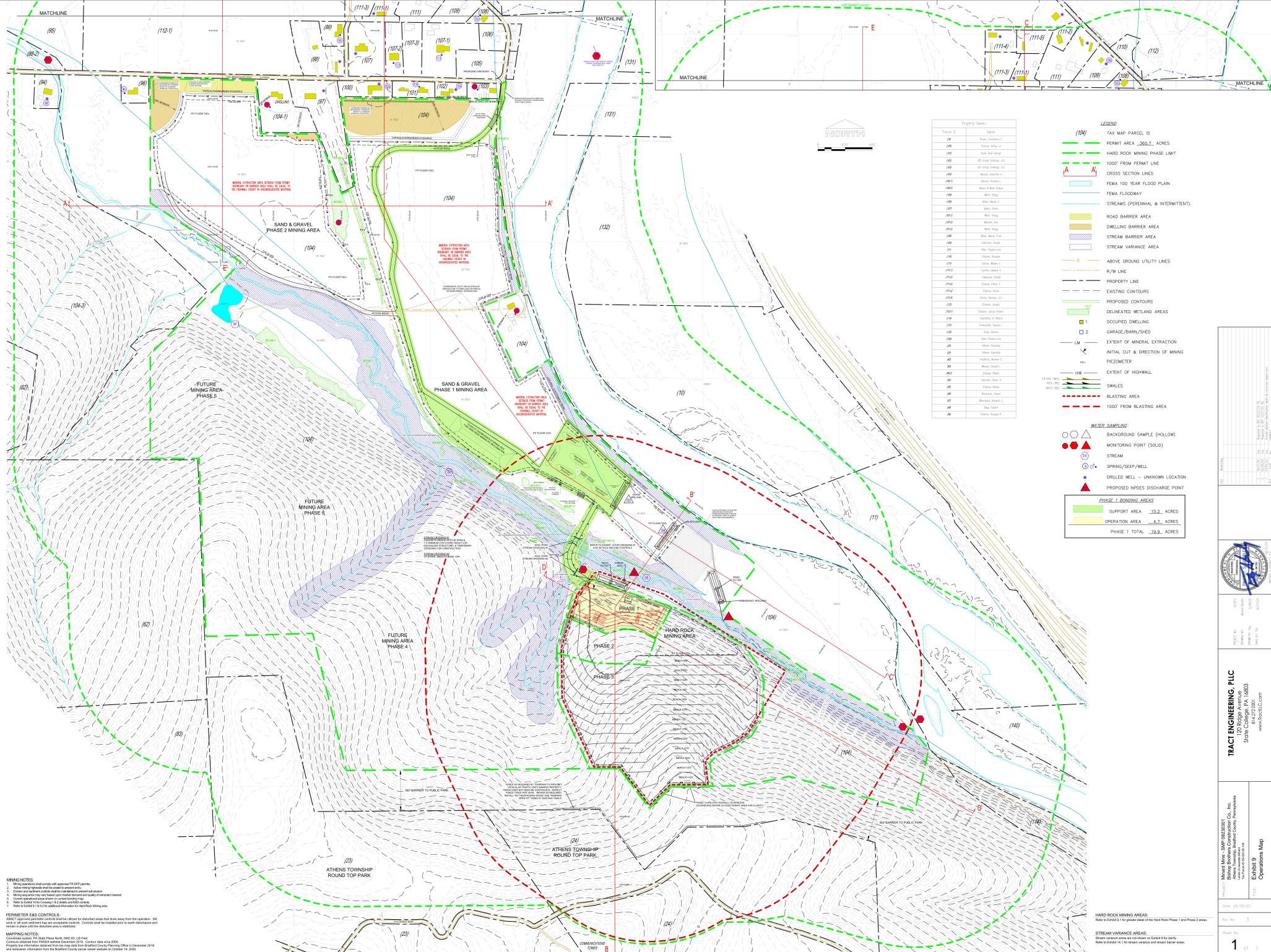




Property Owners	
Parcel ID	Owner
100	Bruce, Richard J.
101	Francis, Anne M.
102	Boh, Don George
103	Wittig, David Lee
104	Wittig, David Lee
105	Wittig, David Lee
106	Wittig, Richard J.
107	Wittig, Richard J.
108	Wittig, David Lee
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146	Wittig, David Lee
147	Wittig, David Lee
148	Wittig, David Lee
149	Wittig, David Lee
150	Wittig, David Lee

LEGEND

TAX MAP PARCEL ID

PERMIT AREA .36072 ACRES

HARD ROCK MINING FEASIBILITY STUDY

1000' FROM PERMIT LINE

CROSS SECTION LINES

FEMA 100 YEAR FLOOD PLAIN

FEMA FLOODWAY

STREAMS (PERENNIAL & INTERMITTENT)

ROAD BARRIER AREA

DWELLING BARRIER AREA

STREAM BARRIER AREA

STREAM VARIANCE AREA

ABOVE GROUND UTILITY LINES

R/W LINE

PROPERTY LINE

EXISTING CONTOURS

PROPOSED CONTOURS

DELINEATED WETLAND AREAS

OCCUPIED DWELLING

GARAGE/BARN/SHED

EXTENT OF MINERAL EXTRACTION

INITIAL CUT & DIRECTION OF MINING

PIEZOMETER

EXTENT OF HIGHWALL

SKALES

BLASTING AREA

1000' FROM BLASTING AREA

WATER SAMPLING

BACKGROUND SAMPLE (HOLLOW)

MONITORING POINT (SOLID)

STREAM

SPIRING/DEEP/WELL

DRILLED WELL - UNKNOWN LOCATION

PROPOSED MINES DISCHARGE POINT

PHASE 1 REMEDIATION AREAS

SUPPORT AREA 15.2 ACRES

OPERATION AREA 4.7 ACRES

TOTAL PHASE 1 TOTAL 19.9 ACRES

[illegible]

TRACT ENGINEERING, PLLC
120 Ridge Avenue
State College, PA 16803
814.272.0301
www.TractLLC.com

PROJECT: Minard Mine - SMP 08230301 Bishop Brothers Construction Co., Inc. Athens Township, Bradford County, Pennsylvania Lands of Jascadio Minard Test Panel ID 09-000-00-104	TITLE: Exhibit 9 Operations Map
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Rev No: 3

Sheet No: 1 of 1