

FIGURE 1
3M PITTSBORO MINE
SITE LOCATION MAP

Source: ESRI USGS Topographic Quadrangle Pittsboro, NC (1982).

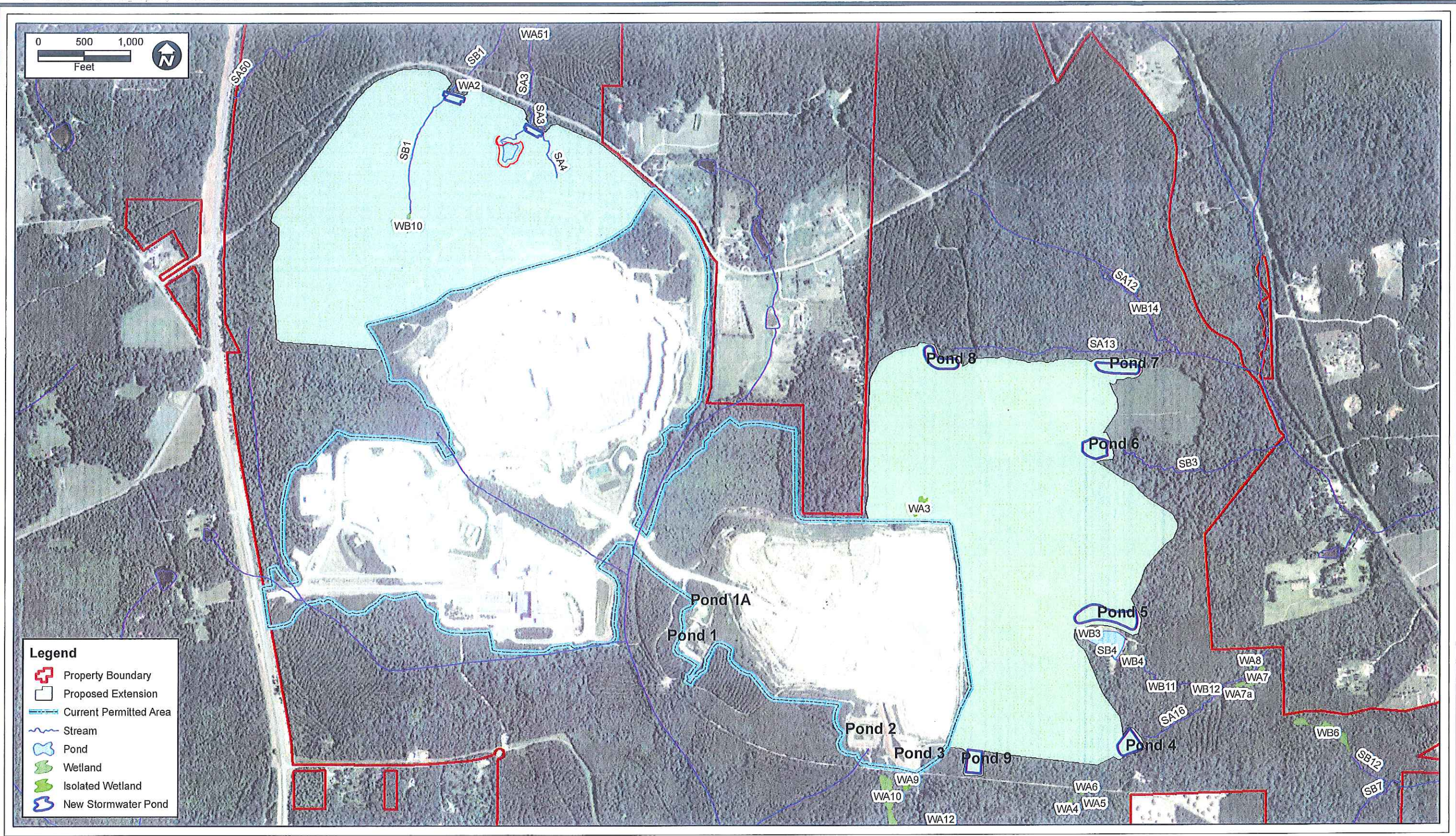


FIGURE 2.
3M PITTSBORO MINE
PROPOSED QUARRY EXTENSION

Source: ESRI World Imagery 2014.



FIGURE 3.
3M PITTSBORO MINE
PROPOSED QUARRY EXTENSION

Source: ESRI World Imagery 2011.

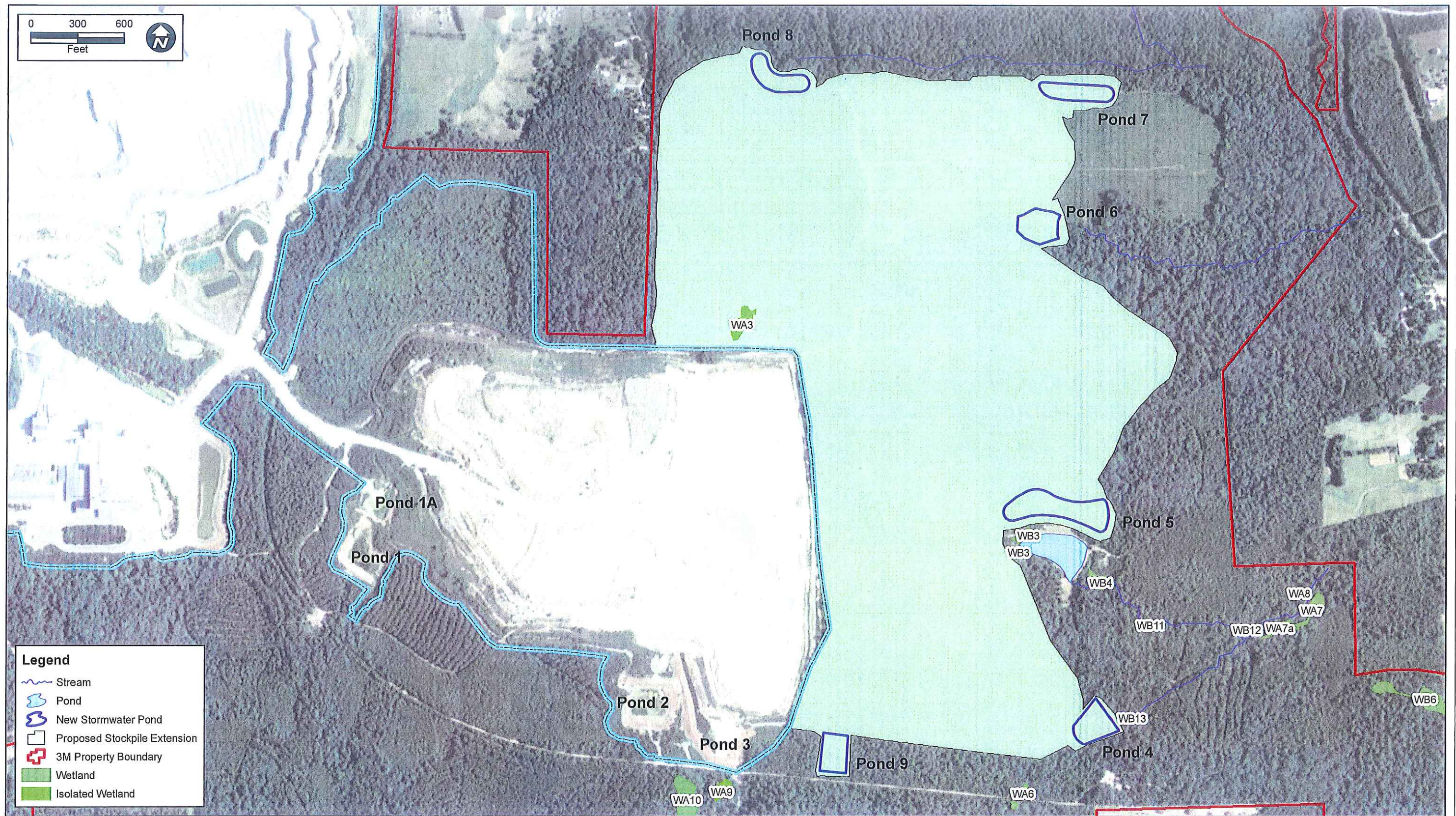


FIGURE 4.
3M PITTSBORO MINE
STOCKPILE EXTENSION

Source: ESRI World Imagery 2014.

A vertical number line with tick marks labeled A, B, C, D, E, F, G, and H from bottom to top. The line is divided into seven equal segments by these tick marks.




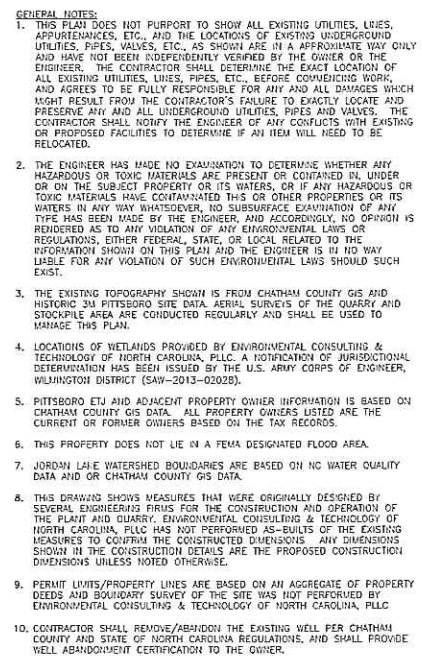
D



B

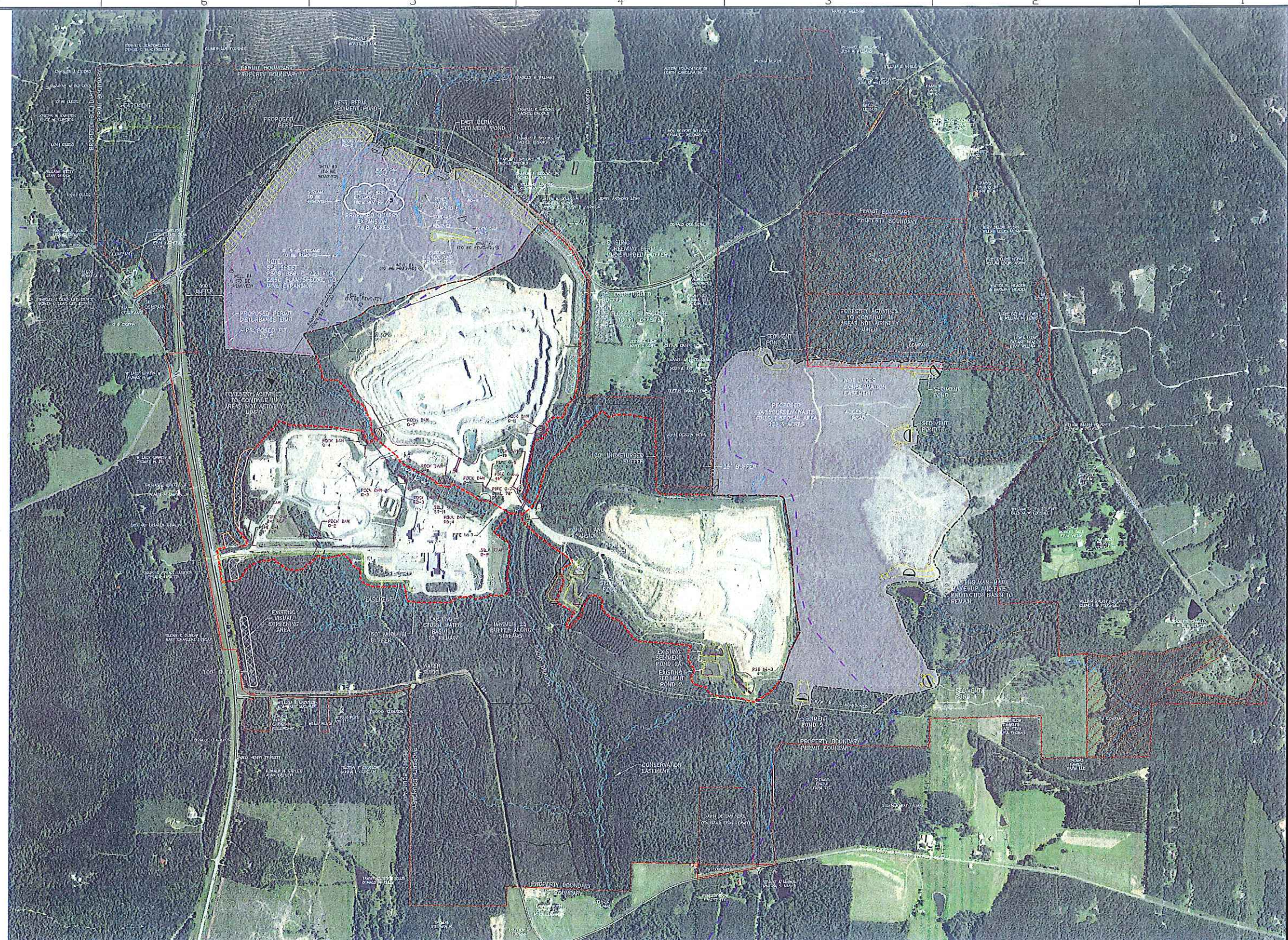


ACCESS CODES	US0181	US0182			DESIGN REFERENCE	NEXT ASSEMBLY
1						
KEY	PROJECT ID	DATE	MINE PERMIT MODIFICATION			HTH TCC
CONSULTANT NAME/LOGO			DRWN HTH	DATE 1/10/2017	REV AFVBS	DATE DATE
			CDD	DATE 1/10/17		
FACILITIES ENGINEERING			 <p>IN CENTER ST. PAUL, MN 55144</p> <p>Copyright © 2016 This document and its information is confidential and may not be reproduced or further disclosed without the permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.</p>			
SCALE AS SHOWN			TITLE			
REGISTRATION STAMP	LS. CERTIFICATION	INDEX SHEET MINE PERMIT MODIFICATION				
		PITSBORO DRAWING NUMBER E1 PBOR-888-C-004				
		ILL. & NO. 888 NORTH CAROLINA SHEET REV 1				



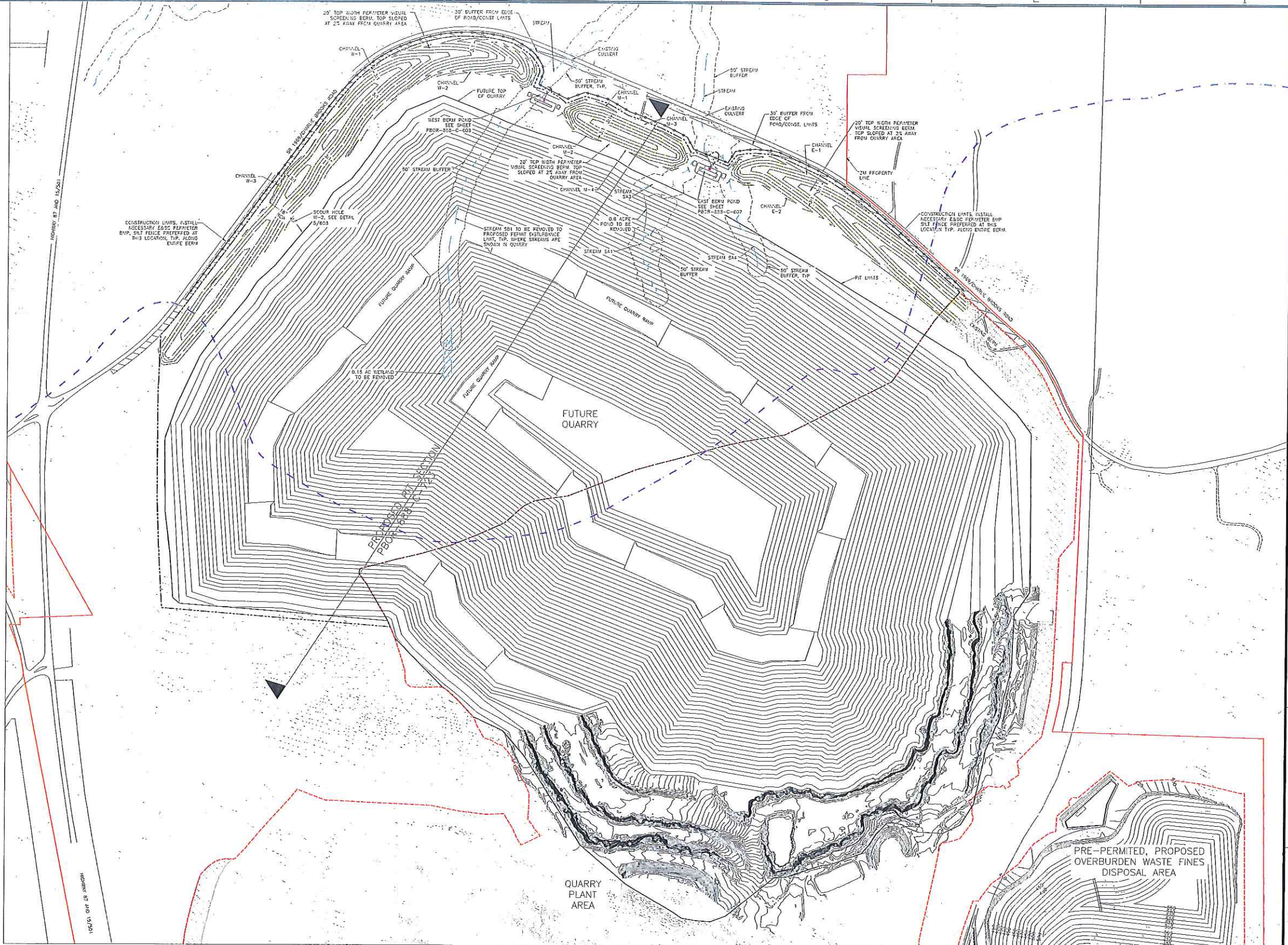
PERMIT ACRES SUMMARY		
CATEGORY	AFFECTED PROPOSED	ACREAGE TOTAL *
TAILINGS/SEDIMENT POUNDS	14.6	48.4
STOCKPILES	0	11.3
WASTEPILES	211.2	371.4
PROCESSING AREA/AUL ROADS	15.5	148.8
MINE EXCAVATION	138.5	276.1
OTHER - VISUAL SCREENING BERM	20	35.4
TOTAL AFFECTED ACREAGE	490.3	1,001.4
EXISTING PERMITTED SITE ACREAGE -	2038.7	ac
PROPOSED ADDITIONAL ACREAGE TO PERMIT -		145.7 ac
TOTAL PROPOSED PERMIT ACREAGE -	2184.4	ac

* INCLUDES AREAS FOR THE 2008 MINE PERMIT.



ALLSIS				REGION REFERENCE	NEXT ASSESSMENT																
5		4/11/17	ISSUED FOR MINING PERMIT MOD. (#2 OF 2017)		TCC																
3		11/1/15	FILED FOR RECORD		TCC																
		1/10/17	ISSUED FOR 2017 PERMIT MODIFICATION																		
FEV	PROJECT ID	DATE	DESCRIPTION		REVISIONS																
<table><tr><td>OWNER</td><td>DATE</td><td>ISS</td><td>DATE</td></tr><tr><td>JES</td><td>1/20/17</td><td></td><td></td></tr><tr><td>DOD</td><td>DATE</td><td>APPROV</td><td>DATE</td></tr><tr><td>OK</td><td>1/20/17</td><td></td><td></td></tr></table>						OWNER	DATE	ISS	DATE	JES	1/20/17			DOD	DATE	APPROV	DATE	OK	1/20/17		
OWNER	DATE	ISS	DATE																		
JES	1/20/17																				
DOD	DATE	APPROV	DATE																		
OK	1/20/17																				
FACILITIES ENGINEERING		<div>3M COPIES 12 FILED 24 \$344</div> <div>THIS DOCUMENT AND INFORMATION CONTAINED HEREIN IS THE PROPERTY OF 3M AND IS NOT TO BE REPRODUCED OR FURTHER DISTRIBUTED WITHOUT PERMISSION, IN WRITING OR OTHERWISE. ALL RIGHTS RESERVED.</div>																			
SCALE	TITLE																				
1"=50'	2017 MINE MAP 3M PITTSBORO																				
REGISTRATION STATUS	IS CERTIFICATION																				
		REG. NO. 638			NORTH CAROLINA SURVEYING BOARD																
		DRAWING NUMBER 1515-2022-C-714			SHEET REV																

LEGEND	
THIS PERMIT/PROPERTY LINE	---
ADJACENT TO PROPERTIES	---
APPROPRIATE LINE COORDINATES	---
FORCED WINDS	---
PERMIT EXPIRATION AREA	---
EXIST. REPAIRED DISTANCE	---
AREA LIMITS (LINES)	---
PROPOSED PERMITTED	---
CONSTRUCTION AREA LIMITS	---
JOINT LINE, AS-N PA	---
PT. LIMITS	---
UNDISTURBED BUFFER	---
VISUAL SCREENING AREA	---
VISUAL SCREENING AREA	---
PROPOSED	---
ADDITIONAL STREAM WITH	---
SOFT BUFFER AND PAVEMENT	---
STREAM COVERAGE BASEMENT	---
UNLESS OTHERWISE NOTED	---
STREAM	---
WETLANDS	---
2' CONTOUR	---
50' CONTOUR	---
EXISTING EROSION MEASURES	---
SAT. FENCE	---



NOTE:
SEE CHATHAM COUNTY STORMWATER DESIGN
DRAWINGS FOR DETAILS ON BERM AND BERM
PODS.

PROJECT ID		DATE		ISSUED FOR 2017 PERMIT MODIFICATION	
1	1/10/17				
FEV	PROJECT ID	DATE	DESCRIPTION	DATE	REVISION
FACILITIES ENGINEERING		DATE		DATE	
SCALE		DATE		DATE	
1"=200'		1/2/2017		1/2/2017	
REGISTRATION STATE		13. CERTIFICATION		DATE	
TITLE		PROPOSED QUARRY AND FINAL BERM 3M PITTSBORO			
PITTSBORO		NORTH CAROLINA			
PBBOR-888-C-721					