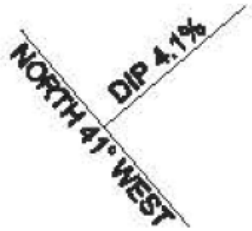
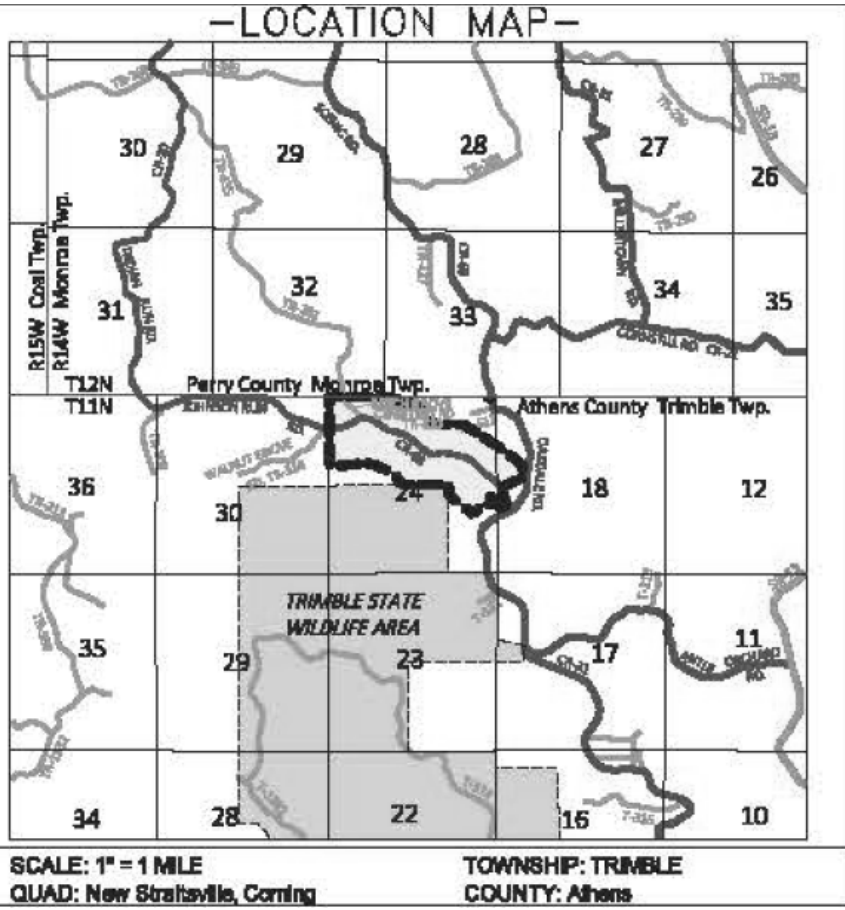


#6 COAL

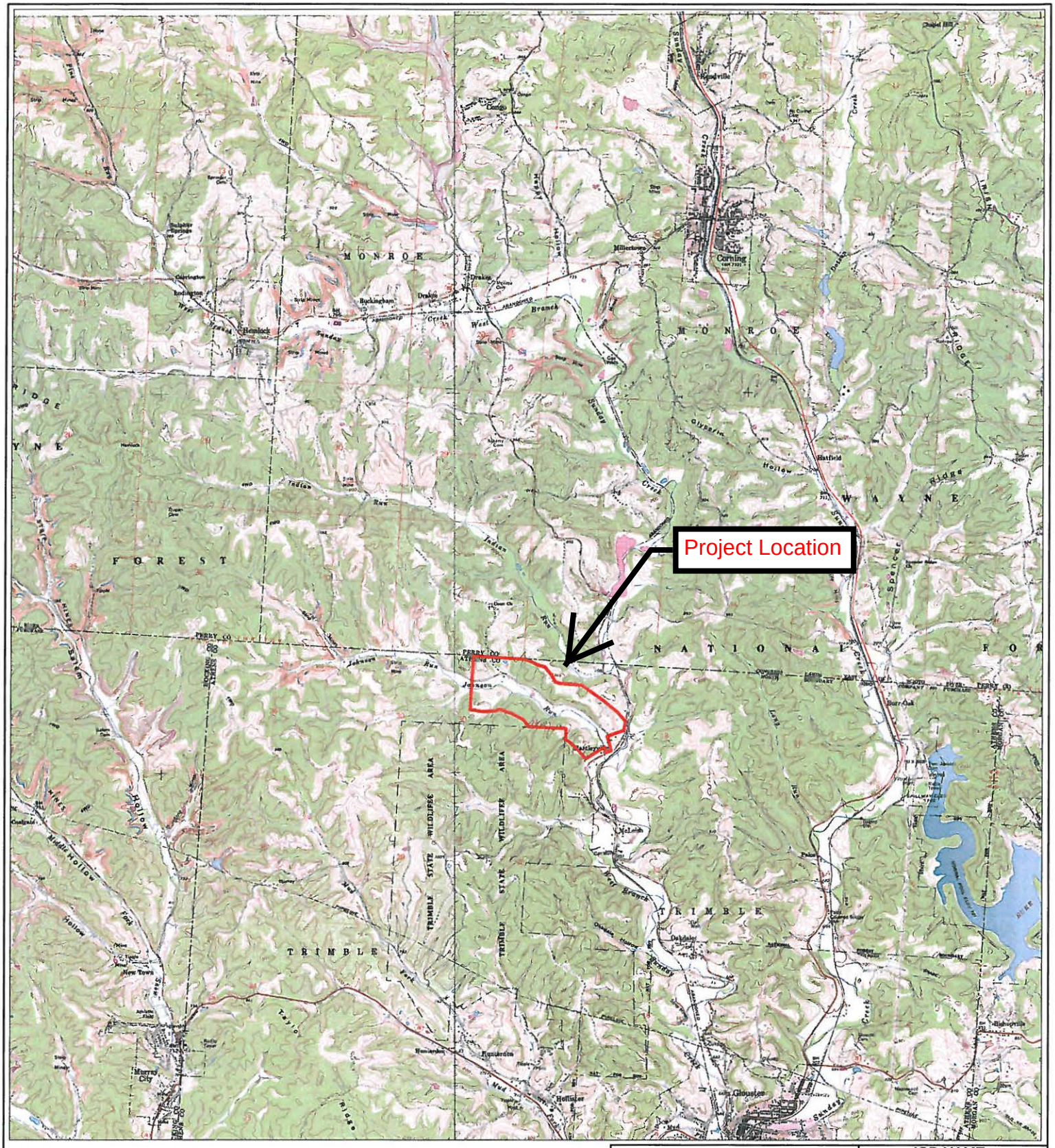
COAL SEAM INFORMATION	APPROXIMATE ELEVATION
MIDDLE KITTANNING #6 COAL SEAM	653 - 707

Drainage Basin - SUNDAY CREEK



SCALE: 1" = 1 MILE
QUAD: New Straitsville, Corning

TOWNSHIP: TRIMBLE
COUNTY: Athens



LOCATION MAP

JOB NAME
Johnson Run

Prepared by:

Buckeye Mineral Services, Inc.

BUCKEYE MINERAL SERVICES, INC.
P.O. Box 546, 834 COOKSON AVE.
NEW PHILADELPHIA, OHIO 44663-0546
PHONE: 330.339.2100 FAX: 330.339.2278

OXFORD MINING COMPANY LLC

COUNTY: ATHENS	
TWP. TRIMBLE	STATE: OHIO
SCALE: 1"= 1 MILE	DELINEATION LIMITS
DATE PREPARED: 6/15/2016	

Stream Impacts Summary Table (DMRM, ACOE & OEPA)

Version 8

	Primary Impacts	Jurisdictional			Non-Jurisdictional		
		Perennial	Intermittent	Ephemeral	Perennial	Intermittent	Ephemeral
1	Mine Through & Stream Reconstruction	508	319	324	0	0	0
2	Waste Treatment Facility (Sediment Transport)	0	0	0	0	0	0
3	Pond Construction-Permanent (Includes streambed length impacted by dam and impounded water)	0	0	0	0	0	0
4	Pond Construction-Temporary (Includes streambed length impacted by dam and impounded water)	0	0	112	0	0	0
5	Temp. Pond & Wetland Mitigation Area	0	0	0	0	0	0
6	Haul Road / Culverting Permanent	0	0	0	0	0	0
7	Haul Road / Culverting Temporary	0	0	0	0	0	0
8	Temporary Stream Diversion	0	0	0	0	0	0
9	Reclamation / Blending	0	0	0	0	0	0
10	Construct Wetland Mitigation Area	0	0	0	0	0	0
11	Disposal of Excess Spoil	0	0	0	0	0	0
12	Other - 1	0	0	0	0	0	0
13	Other - 2	0	0	0	0	0	0
	Total Primary Impacts (Includes Waste Treatment Facilities)	**508**	**319**	**436**	**0**	**0**	**0**
	Waste Treatment Facilities						
	Sediment Transport	0	0	0	0	0	0
	The length of streambed that is only impacted by impounded water, associated with a pond, is considered to be a Waste Treatment Facility. Please enter the total streambed length (for all streams) that is impacted by 'impounded water' under the apropriate stream flow regime.						
	Total for Waste Treatment Facilities ONLY	**0**	**0**	**0**	**0**	**0**	**0**

WETLAND INVENTORY TABLE

Version 7d

Date prepared: 5/20/16 Date modified: _____

Applicant Name: OXFORD MINING COMPANY, LLC

Site Name: JOHNSON RUN

DMRM permit application number: _____

USACE file number: _____

Ohio EPA ID#: _____ 14- Digit Hydrologic Unit Code: _____

Delineation Acreage - _____ Acres Permit Boundaries as of - _____ _____ Acres

Delineation Verified on -

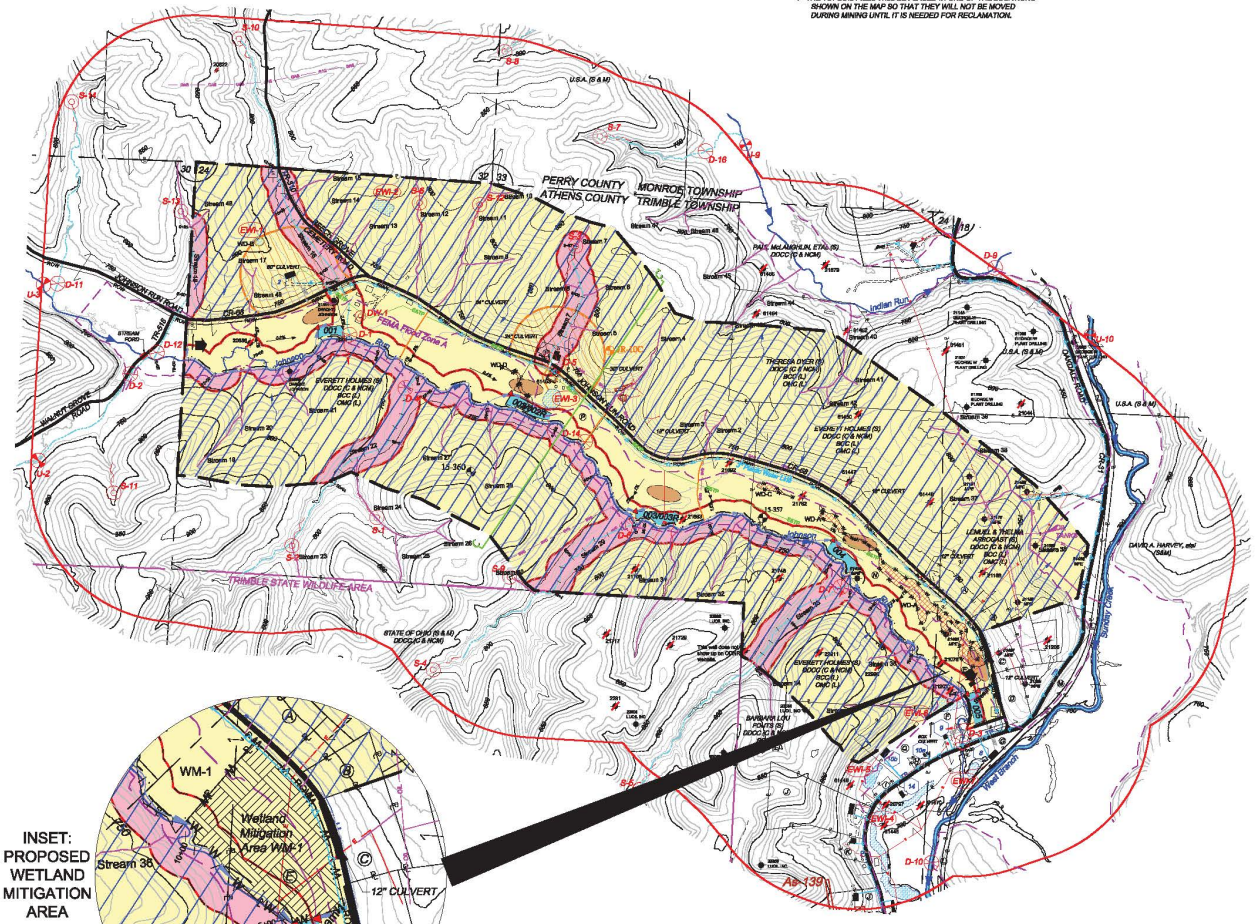
Wetland ID	Jurisdictional ? (y / n)	Previously Mined ? (y / n)	Forested ? (y / n)	ORAM Score (Using 5.0 Short Form) If ORAM Long Form used enter LF*	Wetland Category (1, 2 or 3)	Total Acreage Delineated	Total Acreage Within Permit Boundaries	Proposed Impacted Acreage to Jurisdictional Wetlands	Proposed Impacted Acreage to Non-Jurisdictional Wetlands	Impact Type	% Avoided
WD-A	Y	N	Y	37	2	2.17	2.17	2.17		MINED OUT	0.00%
WD-B	N	N	Y	30	2	0.02	0.02		0.00		100.00%
WD-C	Y	N	N	31	2	0.14	0.14	0.14		MINED OUT	0.00%
WD-D	Y	N	Y	15	1	0.20	0.20	0.20		MINED OUT	0.00%
					Totals:	2.53	2.53	2.51	0.00		

* If ORAM Long Form is used submit Long Form and Addendum discussing Wetland Category

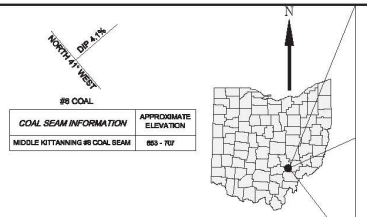
WETLAND SUMMARY						
	TYPE	JURISDICTIONAL	ISOLATED	WITHIN PERMIT LIMITS	PROPOSED FOR IMPACT	
IDENTIFICATION (WD-)	Jurisdictional / Isolated	ACRES	ACRES	(Yes / No)	(Yes / No)	ACRES
A	JURISDICTIONAL	2.17		Yes	Yes	2.17
B	ISOLATED		0.02	Yes	No	0.00
C	JURISDICTIONAL	0.14		Yes	Yes	0.14
D	JURISDICTIONAL	0.20		Yes	Yes	0.20
	WETLAND ACREAGE	2.51	0.02	IMPACTED WETLAND ACRES		2.51

NOTES

1 - ALL OF THE EXISTING ACCESS ROADS, WITHIN THE PERMIT LIMITS, WILL REMAIN FOLLOWING MINING AND RECLAMATION AS ACCESS ROADS.
2 - TEST HOLE JR-10C WAS USED TO CALCULATE THE 3-POINT STRIKE & DIP. THERE WAS NO ANALYSIS TAKEN OF THIS TEST HOLE. IT WAS DRILLED AS AN EXPLORATORY RESERVE TEST HOLE. THE SURFACE ELEVATION IS 833' M.S.L. AND DEPTH TO THE #8 COAL (72.3'F SEAM) IS 697 M.S.L.
3 - THE LOCATION OF THE PUBLIC WATER LINE, AS DEPICTED ON THIS MAP, SHOULD BE CONSIDERED APPROXIMATE. PRIOR TO MINING THE OPERATOR WILL HAVE THE PUBLIC WATER DEPARTMENT LOCATE THE, WHICH MAY BE RELOCATED.
4 - THE TOPSOIL PILES WILL BE PLACED IN ONE OF THE LOCATIONS SHOWN ON THE MAP SO THAT THEY WILL NOT BE MOVED DURING MINING UNTIL IT IS NEEDED FOR RECLAMATION.

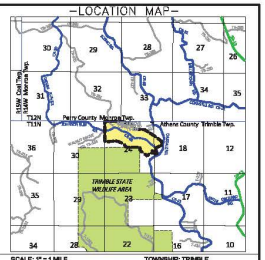


INSET: PROPOSED WETLAND MITIGATION AREA



COAL SEAM INFORMATION	APPROXIMATE ELEVATION
MIDDLE KITTANNING #8 COAL SEAM	853 - 707

Drainage Basin - SUNDAY CREEK



LANDOWNERS

A - DAVID HOLMES (S) DDCC (C & NCM) BCC (L), OMC (L)
B - LEONARD LOWERY (S) DDCC (C & NCM) BCC (L), OMC (L)
C - CAROLINE LOWERY (S), DDCC (C & NCM)
D - WILLIAM COFFMAN (S), DDCC (C & NCM)
E - JOAN HOLMES (S) DDCC (C & NCM) BCC (L), OMC (L)
F - CARL FOUTS (S) DDCC (C & NCM) BCC (L), OMC (L)
G - WILLIAM BRUCE FOUTS (S), DDCC (C & NCM)
H - TRIMBLE TWP. BOARD OF EDUCATION (S & M)
I - CHRISTIAN UNION CHURCH (S & M)
J - CARL E. III & MARY A. FOUTS (S), DDCC (C & NCM)
K - ASHLEY R. WOODS (S & M)
L - BUCKINGHAM COAL (S & M)
M - BARBARA LOU FOUTS (S), DDCC (C & NCM)
N - DRYDOCK COAL COMPANY (S & M) BCC (L), OMC (L)
P - DAVID HOLMES (S) DDCC (C & NCM) BCC (L), OMC (L)
Q - CARL FOUTS, IV & LINDSAY A. FOUTS (S) DDCC (C & NCM) BCC (L), OMC (L)

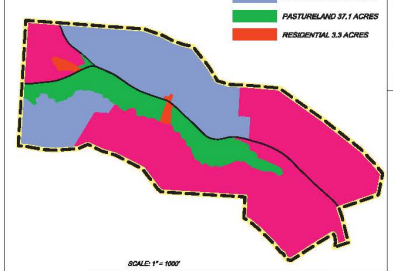
ABBREVIATIONS

MPE - MATT PRODUCTION ENTERPRISES
DDCC - DRYDOCK COAL CO.
BCC - BUCKINGHAM COAL COMPANY, LLC
OMC - OXFORD MINING COMPANY, LLC

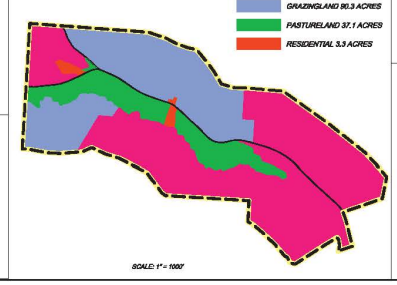
Permit Acreage Summary	
Permit	Acres
Original	299.3
Total	299.3

Application Acreage Summary	
Proposed for: Year 1	4.0
Year 2	73.0
Year 3	73.0
Year 4	73.0
Year 5	73.0
Total Permit	299.3 Ac.
Surface area to be affected	57.2
Surface area not to be affected	255.5
#6 Strip Coal:	45.7
#6 Auger Coal:	237.5
Ponds:	
Haul Roads:	0.0

PRE MINING LAND USE



POST MINING LAND USE



-LEGEND-

Intermittent Stream
Perennial Stream
Stream Dike
Drainage Direction
Previous Strip Mining
Contour Line
Haul Road
Stream Crossing
Underground Mine Entry
Public Road
Commercial/Business Building
Occupied Building
Unoccupied Building
Surface Owner (S)
Mineral Owner (M)
Coal Owner (C)
Non-Coal Mineral Owner (NCM)
Coal Lessee (L)
Begin Mining Point
End Mining Point
Proposed Conventional Auger and/or Highwall Miner Limits AND No Surface Affectment (221.5 Ac.)
Proposed Conventional Auger and/or Highwall Miner Limits Possible Surface Affectment
Hydrologic Study Limits
Dug Well (DW-)
Drilled Well (W- WL-)
Undeveloped Spring (S-)
Developed Spring (DS-)
Underground Mine Discharging Water (DM-)
Buffer Zone (To Be Avoided)
Buffer Zone (To Be Affected)
Existing Wetland Area (Jurisdictional) 2.54 Ac.
Wetland Mitigation Area WM-1 3.76 Ac.
Bleeding (Oil for Addendum to Part 3, Item C(2))
Gob Pile
No Surface Affectment Area (13.4 Ac.)
Diversion Ditch
Permit Area
Test Hole
Exploratory Test Hole
Property Line
Topsoil Storage (See Map Note #4)
Geologic Cross-section
Entrance Sign
Sediment Pond
Temporary Perennial Stream Relocation
Water Treatment Facility
Gas Well
Abandoned Gas Well
Slope Measurement
Mining Direction
Crop Line
Existing Water Impoundment
Proposed Final Highwall
Sump
Small Area Drainage Exemption (SADE)
Upstream Sampling Point
Downstream Sampling Point
Monitoring Station
Background Sampling Station
Swamp, Marsh, Seep
FEMA Flood Zone A
Utility Line Electric
Utility Line Electric and Telephone
Utility Line Telephone
Utility Line Gas
Utility Line Oil (Oil lines shown on this map, are per map furnished by Matt Production Enterprises)
Public Water
Deep Mine (Ae-139) (developed in #6 coal)

The topography on this map was generated from LIDAR data acquired from the appropriate State/County GIS Office. This LIDAR data was collected in March/April 2007. The property lines were compiled from county tax maps, deeds and/or leases; and have not been field verified by survey. All measurements, acreages and depictions on this map are approximations that meet the requirements of ORC Chapter 1513. They do not, nor are they intended to meet the standards of a legal land survey.

0 400 800 1200

Buckeye Mineral Services, Inc.

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OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

STOP
Call Before You Dig!
1-800-925-0988
Oil and Gas Producers Underground Protection Service (OGPUPS)

APPLICATION/HYDROLOGY MAP PREFERRED ALTERNATIVE | PERMIT No.

for

OXFORD MINING COMPANY, LLC

Prepared by:
BUCKEYE MINERAL SERVICES, INC.
P.O. Box 446, 204 DONERSON AVE.
NEW PHILADELPHIA, OHIO 44663-0446
PHONE: 330.339.2180
FAX: 330.339.2279

STATE PLANE COORDINATE SYSTEM: NAD83 OHIO SOUTH

SECTION: 18, 24 (T-11N)(R-14W) TWP: TRIMBLE

COUNTY: ATHENS STATE: OHIO

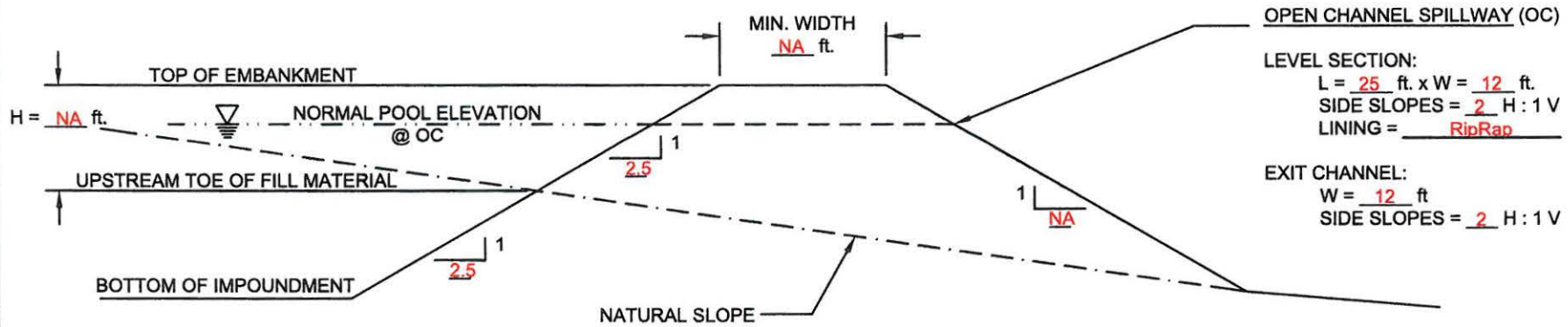
JOB NAME	APPLICATION No.	SCALE	CONTOUR INTERVAL	DATE PREPARED	DATE REVISED
JOHNSON RUN	#10544	1"=400'	10'	6/22/16	8/31/16

Mine Name: Johnson Run
Pond #: 005

OPEN CHANNEL SPILLWAY CROSS SECTION

NOT TO SCALE

Drainage Area = 55.4 Acres
Disturbed Area = 20.1 Acres
REV 12-16-15



POND DIMENSIONS @ OC SPILLWAY
L= 210 ft. W= 75 ft.

POND INTERIOR SLOPES 2H : 1V

STAGE AREA DATA	ELEVATION ft.	SURFACE AREA ac.	VOLUME ac.-ft.
BOTTOM OF IMPOUNDMENT	690.0	0.109	0.000
UPSTREAM TOE OF FILL MATERIAL	702.0	0.455	3.215
TOP OF SEDIMENT ZONE	696.5	0.275	1.222
OPEN CHANNEL SPILLWAY (OC)	699.5	0.369	2.187
TOP OF EMBANKMENT	702.0	0.455	3.215

NOTES:

1. All rules under OAC 1501:13-4-05(H)(2)(c) and 1501:13-4-14(H)(2)(c) will be followed.
2. Cutoff Trench shall be installed when fill exceeds more than three feet from the upstream toe to normal pool elevation and constructed with impervious material, upstream from centerline of embankment and extend up the abutments to normal pool elevation.
3. Open Channel Spillway shall be installed into natural or stable ground.
4. Upstream Toe of Fill Material is the lowest elevation of "natural slope" over which fill will be placed.
5. Energy Dissipation shall be provided in the exit channel to prevent erosion downstream.