

FORM 8.12A - WETLAND INVENTORY

Operator: Cumberland Coal Resources, LP
 Operation Name: Cumberland Mine (Step Panels)
 Permit No.: 30831303
 Watershed: Roberts Run

Date: _____
 Pre-mining
 Date: _____
 Post-mining

Wetland Number	Premining Wetland Size by Cowardin Classification				Postmining Wetland Size by Cowardin Classification			Chapter 105 Classification		Primary Wetland Function								Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigation Action	
	PEM	PSS	PFO	POW	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
W01DAM101014	0.048	0.002	0.001					NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W02DAM101014	0.127	0.004	0.003					NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W03DAM101014	0.054	0.003	0.003					NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W04DAM101014	0.053	0.003						NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W02DAM102814	0.159							NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W01DAM51315	0.023							NO	NO	YES	NO	NO	NO	NO	NO	NO	NO						
W02DAM51315	0.145		0.016					NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W03DAM51315	0.052							NO	NO	YES	NO	YES	YES	NO	NO	NO	NO						
W04DAM51315	0.262	0.031	0.015					NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W05DAM51315	0.010							NO	NO	YES	NO	NO	NO	NO	NO	NO	NO						
TOTAL:																							
	+/-																						

Notes:

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Wetland Number	Premining Wetland Size by Cowardin Classification				Postmining Wetland Size by Cowardin Classification			Chapter 105 Classification		Primary Wetland Function								Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigation Action	
	PEM	PSS	PFO	POW	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
W06DAM51315	0.041							NO	NO	YES	NO	NO	YES	NO	NO	NO							
W01GMM51415	0.062	0.003					NO	NO	YES	NO	NO	YES	NO	NO	NO	NO							
W01DAM51415	0.012						NO	NO	YES	NO	NO	NO	YES	NO	NO	NO							
W02GMM51415	0.011	0.029	0.007				NO	NO	YES	NO	YES	YES	NO	NO	YES	NO							
W02DAM51415	0.025						NO	NO	YES	NO	NO	YES	NO	NO	NO	NO							
W03DAM51415	0.011						NO	NO	YES	NO	NO	YES	NO	NO	NO	NO							
W04DAM51415	0.019						NO	NO	YES	NO	YES	NO	YES	NO	NO	NO							
W01DAM51515	0.278	0.064	0.085				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W01DAM51815	0.021						NO	NO	YES	NO	NO	NO	NO	NO	NO	NO							
W01DAM51915	0.010						NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
TOTAL:																							
	+/-																						

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	PEM	PSS	PFO	POW	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
W02DAM51915	0.273							NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W01DAM52815	0.219							NO	NO	YES	NO	YES	NO	NO	YES	NO	NO						
W02DAM52815	0.073							NO	NO	YES	NO	YES	YES	NO	YES	NO	NO						
W01DAM6115	0.008							NO	NO	YES	NO	NO	NO	NO	NO	NO	NO						
W02DAM6115	0.011							NO	NO	YES	NO	NO	NO	NO	NO	NO	NO						
W03DAM6115	0.060							NO	NO	YES	NO	NO	NO	NO	NO	NO	NO						
W04DAM6115	0.008							NO	NO	YES	NO	NO	NO	NO	NO	NO	NO						
W05DAM6115	0.147							NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W06DAM6115	0.071							NO	NO	YES	NO	YES	NO	YES	NO	NO	NO						
W07DAM6115	0.149							NO	NO	YES	NO	YES	YES	NO	NO	NO	NO						
TOTAL:																							
	+/-											Notes:											

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	PEM	PSS	PFO	POW	PEM	PSS	POW	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
W08DAM6115	0.118			0.178				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W09DAM6115	0.122							NO	NO	YES	NO	YES	NO	NO	NO	NO	NO						
W10DAM6115	0.061							NO	NO	YES	NO	YES	YES	YES	NO	NO	NO						
W11DAM6115	0.035							NO	NO	YES	NO	YES	NO	NO	NO	NO	NO						
W12DAM6115	0.048							NO	NO	YES	NO	YES	YES	NO	NO	NO	NO						
W13DAM6115	0.013							NO	NO	YES	NO	YES	YES	NO	NO	NO	NO						
W01GMM6215	0.048							NO	NO	YES	NO	YES	YES	NO	NO	NO	NO						
W02GMM6215	0.049							NO	NO	YES	NO	YES	YES	NO	NO	NO	NO						
W03GMM6215	0.083							NO	NO	YES	NO	YES	YES	NO	NO	NO	NO						
W04GMM6215	0.736							NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
TOTAL:																							
	+/-																						

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	PEM	PSS	PFO	POW	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
W01DAM6315	0.052	0.006						NO	NO	YES	NO	NO	YES	NO	NO	NO							
W02DAM6315	0.023						NO	NO	YES	NO	NO	NO	NO	NO	NO	NO							
W03DAM6315	0.027	0.012					NO	NO	YES	NO	NO	NO	NO	NO	NO	NO							
W01DAM6415	0.346						NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W02DAM6415	0.207						NO	NO	YES	NO	YES	NO	NO	NO	NO	NO							
W01DAM6515	2.008						NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W02DAM6515	0.231						NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W03DAM6515	0.015						NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W01DAM6815	0.030						NO	NO	YES	NO	NO	NO	NO	NO	NO	NO							
W02DAM6815	0.132						NO	NO	YES	NO	NO	NO	NO	NO	NO	NO							
TOTAL:																							
	+/-																						

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	PEM	PSS	PFO	POW	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
W03DAM61615	0.832							NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W04DAM61615	0.135							NO	NO	YES	NO	YES	NO	NO	YES	NO	NO						
W01GMM61715	0.126	0.016	0.016					NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W01GMM61815	0.045							NO	NO	YES	NO	YES	YES	NO	YES	NO	NO						
W01ABK61316	0.068	0.029						NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W02ABK61316	0.008							NO	NO	NO	NO	NO	YES	NO	YES	NO	NO						
W03ABK61316	0.124	0.062	0.021					NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W01DAM61316	0.010	0.005	0.005					NO	NO	YES	NO	NO	YES	NO	NO	NO	NO						
W02DAM61316	0.028							NO	NO	YES	NO	NO	YES	NO	NO	NO	NO						
W03DAM61316	1.266							NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
TOTAL:																							
	+/-																						

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	PEM	PSS	PFO	POW	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
W01GMM7716	0.057							NO	NO	YES	NO	YES	YES	YES	NO	NO	NO						
W02GMM7716	0.039							NO	NO	YES	NO	YES	YES	YES	NO	NO	NO						
W03GMM7716	0.019	0.001						NO	NO	YES	NO	YES	NO	YES	NO	NO	NO						
W04GMM7716	0.061	0.003						NO	NO	YES	NO	YES	YES	YES	NO	NO	NO						
W05GMM7716	0.017							NO	NO	YES	NO	NO	YES	NO	NO	NO	NO						
W01ABK71116	0.026							NO	NO	NO	NO	NO	YES	NO	NO	NO	NO						
W02ABK71116	0.005	0.0003						NO	NO	NO	NO	NO	YES	NO	NO	NO	NO						
W03ABK71116	0.122	0.006						NO	NO	YES	NO	YES	YES	YES	NO	NO	NO						
W04ABK71116	0.005							NO	NO	NO	NO	NO	YES	YES	NO	NO	NO						
W05ABK71116	0.004							NO	NO	NO	NO	NO	YES	NO	NO	NO	NO						
TOTAL:																							
	+/-																						

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	PEM	PSS	PFO	POW	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
W02SHD71216	0.010	0.001						NO	NO	YES	NO	YES	YES	NO	NO	NO	NO						
W03SHD71216	0.008							NO	NO	NO	NO	NO	YES	NO	NO	NO	NO						
W04SHD71216	0.081							NO	NO	YES	NO	YES	NO	YES	YES	NO	NO						
W05SHD71216	0.100							NO	NO	YES	NO	YES	NO	YES	YES	NO	NO						
W06SHD71216	0.038							NO	NO	YES	NO	NO	NO	YES	YES	NO	NO						
W01SHD71516	0.016	0.002						NO	NO	NO	NO	NO	YES	NO	NO	NO	NO						
TOTAL:																							

Notes:

FORM 8.12A - WETLAND INVENTORY

Operator: Cumberland Coal Resources, LP
 Operation Name: Cumberland Mine (Step Panels)
 Permit No.: 30831303
 Watershed: Calico Run

Date: _____
 Pre-mining
 Date: _____
 Post-mining

Wetland Number	Premining Wetland Size by Cowardin Classification				Postmining Wetland Size by Cowardin Classification			Chapter 105 Classification		Primary Wetland Function							Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigation Action	
	PEM	PSS	PFO	POW	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting
W02GMM61815	0.099							NO	NO	YES	NO	NO	NO	NO	NO	NO						
W03GMM61815	0.048							NO	NO	YES	NO	NO	YES	NO	NO	NO						
W01SHD71816	0.014							NO	NO	YES	NO	NO	NO	NO	NO	NO						
W02SHD71816	0.017							NO	NO	YES	NO	NO	NO	NO	NO	NO						
W03SHD71816	0.008							NO	NO	YES	NO	NO	YES	NO	NO	NO						
W04SHD71816	0.025							NO	NO	YES	NO	NO	YES	YES	NO	NO						
W05SHD71816	0.018							NO	NO	YES	NO	NO	YES	NO	NO	NO						
W06SHD71816	0.015							NO	NO	YES	NO	NO	YES	NO	NO	NO						
W07SHD71816	0.024		0.001					NO	NO	YES	NO	NO	YES	NO	NO	NO						
W01ABK71916	0.011							NO	NO	YES	NO	NO	YES	NO	NO	NO						
TOTAL:																						

Notes:

FORM 8.12A - WETLAND INVENTORY

Operator: Cumberland Coal Resources, LP
 Operation Name: Cumberland Mine (Step Panels)
 Permit No.: 30831303
 Watershed: Calico Run

Date: _____
 Pre-mining
 Date: _____
 Post-mining

Wetland Number	Premining Wetland Size by Cowardin Classification				Postmining Wetland Size by Cowardin Classification			Chapter 105 Classification		Primary Wetland Function							Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigation Action		
	PEM	PSS	PFO	POW	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
W02ABK71916	0.020							NO	NO	YES	NO	NO	YES	YES	NO	NO	NO						
W03ABK71916	0.026							NO	NO	YES	NO	NO	YES	NO	NO	NO	NO						
W04ABK71916	0.008							NO	NO	YES	NO	NO	YES	YES	NO	NO	NO						
W05ABK71916	0.077							NO	NO	YES	NO	YES	NO	YES	YES	NO	NO						
W06ABK71916	0.103							NO	NO	YES	NO	YES	YES	YES	NO	NO	NO						
W01ABK72016	0.003							NO	NO	NO	NO	NO	YES	NO	NO	NO	NO						
W02ABK72016	0.024	0.003	0.003					NO	NO	YES	NO	YES	NO	YES	NO	NO	NO						
W01ABK80116	0.019							NO	NO	YES	NO	YES	NO	YES	NO	NO	NO						
W02ABK80116	0.003							NO	NO	NO	NO	NO	YES	NO	NO	NO	NO						
W03ABK80116	0.042							NO	NO	YES	NO	YES	NO	YES	YES	NO	NO						
TOTAL:																							

Notes:

FORM 8.12A - WETLAND INVENTORY

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 Operation Name: Cumberland Mine (Step Panels)
 Permit No.: 30831303
 Watershed: Calico Run

Date: _____
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 Date: _____
 Post-mining

Wetland Number	Premining Wetland Size by Cowardin Classification				Postmining Wetland Size by Cowardin Classification			Chapter 105 Classification		Primary Wetland Function							Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigation Action	
	PEM	PSS	PFO	POW	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting
W04ABK80116	0.013							NO	NO	YES	NO	NO	NO	NO	NO	NO						
W05ABK80116	0.474	0.025					NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W06ABK80116	0.069	0.008					NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W01DAM80116	0.021						NO	NO	YES	NO	NO	YES	NO	NO	NO	NO						
W01BGG80216	0.609	0.032					NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W01SHD80216	0.039						NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W01ABK80316	0.037	0.002					NO	NO	NO	NO	NO	YES	NO	NO	NO	NO						
CAL-3	0.156						NO	NO	YES	NO	YES	NO	NO	NO	NO	NO						
TOTAL:	12.814	0.367	0.194	0.204																		
		13.578																				

Notes:

FORM 8.12A - WETLAND INVENTORY

Operator: Cumberland Coal Resources, LP
 Operation Name: Cumberland Mine Step Panels
 Permit No.: 30831303
 Watershed: Dunkard Creek

Date: _____
Pre-mining

Date: _____
Post-mining

Wetland Number	Premining Wetland Size by Cowardin Classification			Postmining Wetland Size by Cowardin Classification			Chapter 105 Classification		General Habitat	Study Area	Primary Wetland Function						Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigation Action	
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other			Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
CAL-1	1.059	0.059	0.059				N	N	Y	N	Y	N	N	N	N							
CAL-2	0.476						N	N	Y	N	Y	N	N	N	N							
CAL-3	0.156						N	N	Y	N	Y	N	N	Y	N							
RR-1	0.832						N	N	Y	N	Y	N	N	Y	N							
RR-2	0.130		0.087				N	N	Y	N	Y	N	N	Y	N							
RR-3	0.073		0.048				N	N	Y	N	Y	N	N	Y	N							
RR-4	0.346						N	N	Y	N	Y	N	N	Y	N							
RR-5	0.363						N	N	Y	N	Y	N	N	Y	N							
RR-6	1.321						N	N	Y	N	Y	N	N	Y	N							
RR-7	0.682						N	N	Y	N	Y	N	N	Y	N							
TOTAL:	5.438	0.059	0.194																			
	5.691																					
	+/-																					

Notes:

(Attach Field Data Sheets to Form)

