Hampden Coal, LLC

Washington No. 2 Gas Deep Mine

Washington No. 2 Gas Screening Facility

ID No. - Pending

General Permit Application

October, 2015

Prepared for:

Hampden Coal, LLC

3228 Summit Square Place
Suite 180
Lexington, KY 40509

Prepared by:

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General Permit Application

re

WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street, SE
Charleston, WV 25304
Phone: (304) 926-0475 • www.dep.wv.gov/daq

APPLICATION FOR GENERAL PERMIT REGISTRATION

CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE A STATIONARY SOURCE OF AIR POLLUTANTS

■ CONSTRUCTION ☐ MODIFICATION ☐ RELOCATION ☐ CLASS I ADMINISTRATIVE UPDATE
☐ CLASS II ADMINISTRATIVE UPDATE

CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:

■ **G10-D** – Coal Preparation and Handling	☐ **G40-C** – Nonmetallic Minerals Processing
☐ **G20-B** – Hot Mix Asphalt	☐ **G50-B** – Concrete Batch
☐ **G30-D** – Natural Gas Compressor Stations	☐ **G60-C** - Class II Emergency Generator ☐
☐ **G33-A** – Spark Ignition Internal Combustion Engines	☐ **G65-C** – Class I Emergency Generator
☐ ☐ **G35-A** – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit)	☐ **G70-A** – Class II Oil and Natural Gas Production Facility

SECTION I. GENERAL INFORMATION

1. Name of applicant (as registered with the WV Secretary of State's Office):
Hampden Coal, LLC

2. Federal Employer ID No. **(FEIN):**
30-0838241

3. Applicant's mailing address:
3228 Summit Square Place, Suite 180
Lexington, KY 25601

4. Applicant's physical address:
Route 16/1, Amherstdale, WV

5. If applicant is a subsidiary corporation, please provide the name of parent corporation:

6. **WV BUSINESS REGISTRATION.** Is the applicant a resident of the State of West Virginia? ■ **YES** ☐ **NO**

☐ IF **YES,** provide a copy of the Certificate of **Incorporation/ Organization / Limited Partnership** (one page) including any name change amendments or other Business Registration Certificate as **Attachment A**.

☐ IF **NO,** provide a copy of the **Certificate of Authority / Authority of LLC / Registration** (one page) including any name change amendments or other Business Certificate as **Attachment A**.

SECTION II. FACILITY INFORMATION

7. Type of plant or facility (stationary source) to be constructed, modified, relocated or administratively updated (e.g., coal preparation plant, primary crusher, etc.):
Coal Screening Facility

8a. Standard Industrial Classification (SIC) code: 1222

AND

8b. North American Industry Classification System (NAICS) code: 212112

9. DAQ Plant ID No. (for existing facilities only):
Pending

10. List all current 45CSR13 and other General Permit numbers associated with this process (for existing facilities only):
None

A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site:	12A. Address of primary operating site:
Washington No. 2 Gas Screening Facility	Route16/1, Amherstdale, WV

13A. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ☒ **YES** ☐ **NO**

☐ IF **YES**, please explain: Owner and Operator

☐ IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14A. ☐ For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;

– For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as **Attachment F**.

From Amherstdale travel west on Route 16. Turn left on West Virginia secondary Route 16/1 and Travel 3.4 miles miles to the mine facility. (See Attachment F)

15A. Nearest city or town:	16A. County:	17A. UTM Coordinates:
Amherstdale	Logan	Northing (KM): **4179.262** Easting (KM): **56.917** Zone: **44S**
18A. Briefly describe the proposed new operation or change (s) to the facility:		19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
Coal Screening Facility		Latitude: **37.75806** Longitude: **81.78528**

B: 1ST ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits)

11B. Name of 1st alternate operating site:	12B. Address of 1st alternate operating site:
_____	Mailing:_____ Physical:_____
_____	_____

13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ☐ **YES** ☐ **NO**

☐ IF **YES**, please explain: _____

_____

☐ IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14B. ☐ For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;

– For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as **Attachment F**.

15B. Nearest city or town:	16B. County:	17B. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____
18B. Briefly describe the proposed new operation or change (s) to the facility:		19B. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____

C: 2ND ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits):

11C. Name of 2nd alternate operating site:	12C. Address of 2nd alternate operating site: Mailing: _____ Physical: _____

13C. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ☐ **YES** ☐ **NO**

☐ IF **YES**, please explain: _____

☐ IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14C. ☐ For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;

– For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as **Attachment F**.

15C. Nearest city or town:	16C. County:	17C. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____
18C. Briefly describe the proposed new operation or change (s) to the facility:		19C. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____

20. Provide the date of anticipated installation or change: ____/_____/_____ ☐ If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: : ___07__/__07___/__2015___	21. Date of anticipated Start-up if registration is granted: __07____/__07____/__2015____

22. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application if other than 8760 hours/year. (Note: anything other than 24/7/52 may result in a restriction to the facility's operation).

Hours per day____24____ Days per week ___7_____ Weeks per year ____52____ Percentage of operation __100%_____

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

23. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

24. Include a **Table of Contents** as the first page of your application package.

All of the required forms and additional information can be found under the Permitting Section (General Permits) of DAQ's website, or requested by phone.

25. Please check all attachments included with this permit application. Please refer to the appropriate reference document for an explanation of the attachments listed below.

- ☐ ATTACHMENT A : CURRENT BUSINESS CERTIFICATE
- ☐ ATTACHMENT B: PROCESS DESCRIPTION
- ☐ ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS
- ☐ ATTACHMENT D: PROCESS FLOW DIAGRAM
- ☐ ATTACHMENT E: PLOT PLAN
- ☐ ATTACHMENT F: AREA MAP
- ☐ ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM
- ☐ ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS
- ☐ ATTACHMENT I: EMISSIONS CALCULATIONS
- ☐ ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
- ☐ ATTACHMENT K: ELECTRONIC SUBMITTAL
- ☐ ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE
- ☐ ATTACHMENT M: SITING CRITERIA WAIVER
- ☐ ☐ ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS)
- ☐ ATTACHMENT O: EMISSIONS SUMMARY SHEETS
- ☐ OTHER SUPPORTING DOCUMENTATION NOT DESCRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.)

Please mail an original and two copies of the complete General Permit Registration Application with the signature(s) to the DAQ Permitting Section, at the address shown on the front page of this application. Please DO NOT fax permit applications. For questions regarding applications or West Virginia Air Pollution Rules and Regulations, please refer to the website shown on the front page of the application or call the phone number also provided on the front page of the application.

Attachment A

Current Business Certificate

State of West Virginia

Certificate

I, Natalie E. Tennant, Secretary of State,
of the State of West Virginia, hereby certify that

Hampden Coal, LLC

has filed the appropriate registration documents in my office according to the provisions of the West Virginia Code and hereby declare the organization listed above as duly registered with the Secretary of State's Office.

Given under my hand and
the Great Seal of West Virginia
on this day of
September 04, 2014

Natalie E Tennant

Secretary of State

Attachment B

Detailed Process Description

Raw coal is transported from underground via TP-01 to belt BC-01(NC). TP-01 is positioned underground and has no dust control other than confinement in the mine. Belt BC-01 (NC) is covered and feeds screen SS-01 (FE) at TP-02 (TC-FE). TP-2 is enclosed and feeds into the top of the screen.

Material leaves the screen via TP-03 (TC-FE) at the bottom of the screen and drops onto Belts BC-02 (PE) and BC-03 (PE). TP-03 is enclosed and Belts BC-02 and BC-03 are covered.

The screen discharges to one of two product belts, depending on material being rock or coal. If coal, the material discharges through TP-03 to Belt BC-02 (PE). The material then discharges onto Belt BC-04 (PE) through TP-04 (FC-FE). TP-04 is enclosed and Belt BC-04 is covered. Belt BC-04 discharges through TP-06 (MDH) into the raw coal stockpile (OS-02). The raw coal is then loaded by endloader into trucks which is considered to be TP-08 (MDH).

If rock, the material discharges through TP-03 to Belt BC-03. The material then discharges onto Belt BC-05 through TP-05. TP-05 is enclosed and Belt BC-05 is covered. Belt BC-05 discharges through TP-07 (MDH) into the rock stockpile (OS-01). The rock is then loaded by endloader into trucks which is considered to be TP-09 (MDH).

When necessary, the roadway and the area where the endloader operates is watered to minimize dust creation.

Attachment C

Description of Fugitive Emissions

Potential sources of fugitive particulate emissions for this facility include emissions, which are not captured by pollution control equipment and emissions from open stockpiles and vehicular traffic on unpaved haulroads and work areas. The haulroads and work areas will be controlled by a water truck in accordance with the general permit.

The water truck is equipped with pumps sufficient to maintain stockpiles, haulroads and work areas. The water truck will be operated three times daily and more as needed during dry periods. An additive to prevent freezing will be utilized in the winter months when freezing conditions are present.

Hampden Coal, LLC
Buffalo No. 2 Gas Deep Mine
Permit No. U501907
GD10-D – Coal Preparation and Handling
HTA Project No. 15177

Attachment D

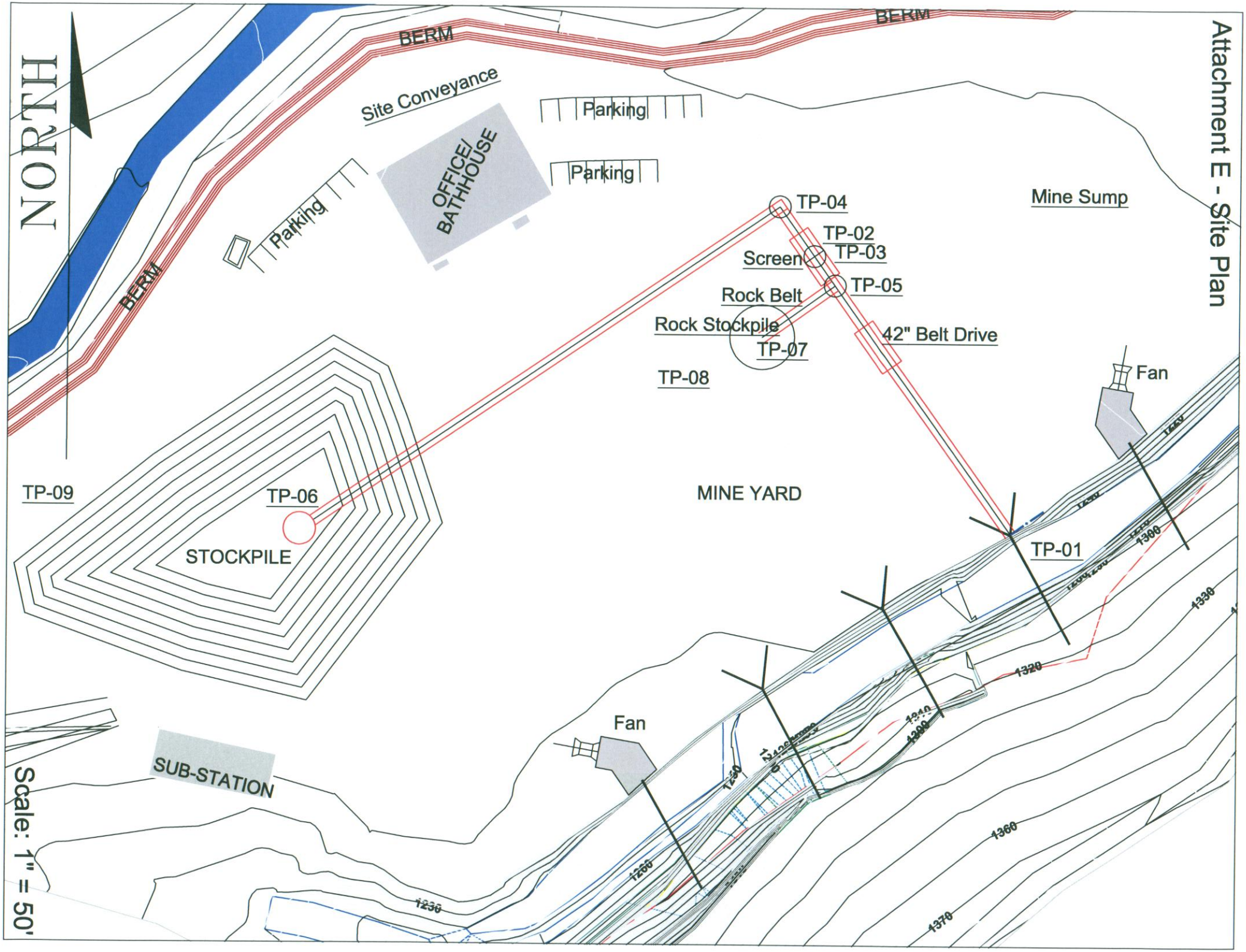
Process Flow Diagram

Attachment D
Process Flow Diagram

Hampden Coal, LLC
Buffalo No. 2 Gas Deep Mine
Permit No. U501907
GD10-D – Coal Preparation and Handling
HTA Project No. 15177

Attachment E

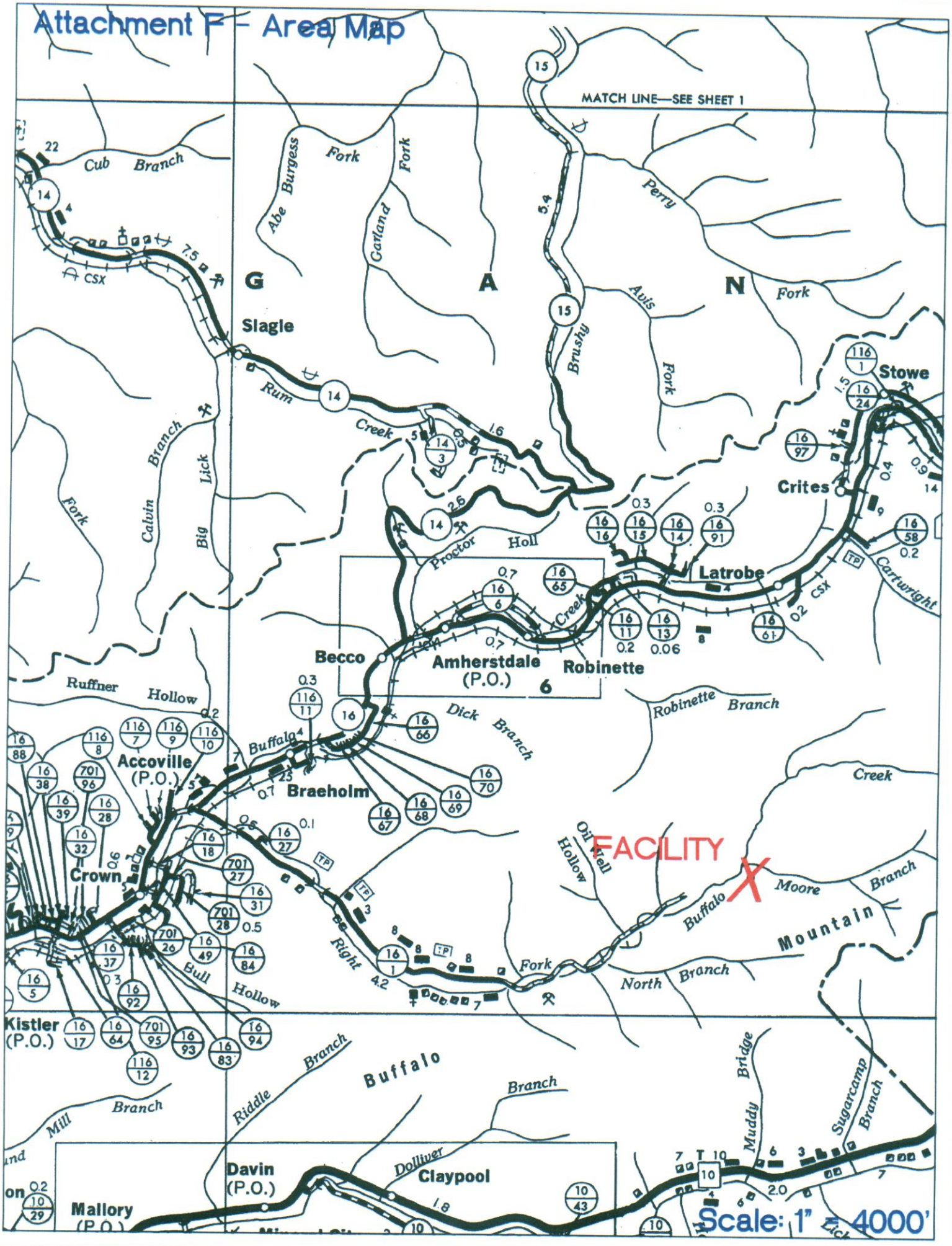
Site Plan Map


Attachment E - Site Plan
NORTH
BERM
BERM
BERM
Site Conveyance
Parking
Parking
Parking
OFFICE/
BATHHOUSE
Mine Sump
TP-04
TP-02
TP-03
Screen
TP-05
Rock Belt
Rock Stockpile
TP-07
42" Belt Drive
TP-08
Fan
TP-09
TP-06
MINE YARD
STOCKPILE
TP-01
Fan
SUB-STATION
Scale: 1" = 50'

Attachment F

Area / Location Map

Attachment F – Area Map



Attachment G

Affected Source Sheets

CRUSHING AND SCREENING AFFECTED SOURCE SHEET

Source Identification Number[1]		SS-01					
Type of Crusher or Screen[2]		SD (FE)					
Make, Model No., Serial No.[3]		6"x16" Allis Chalmers Vibrating Screen					
Date of Construction, Reconstruction, or Modification (Month/Year)[4]		7/7/15					
Maximum Throughput[5]	tons/hour	450					
	tons/year	3,942,000					
Material sized from/to:[6]		4x0					
Average Moisture Content (%)[7]		4.11					
Control Device ID Number[8]							
Baghouse Stack Parameters[9]	height (ft)						
	diameter (ft)						
	volume (ACFM)						
	exit temp (°F)						
	UTM Coordinates						
Maximum Operating Schedule[10]	hours/day	24					
	days/year	365					
	hours/year	8,760					

1. Enter the appropriate Source Identification Number for each crusher and screen. For example, in the case of an operation which incorporates multiple crushers, the crushers should be designated CR-1, CR-2, CR-3 etc. beginning with the breaker or primary crusher. Multiple screens should be designated S-1, S-2, S-3 etc.
2. Describe types of crushers and screens using the following codes:

HM	Hammermill	SS	Stationary Screen	DR	Double Roll Crusher
SD	Single Deck Screen	BM	Ball Mill	DD	Double-Deck Screen
RB	Rotary Breaker	TD	Triple Deck Screen	JC	Jaw Crusher
GC	Gyratory Crusher	OT	Other		

3. Enter the make, model number, and serial number of the crusher/screen.
4. Enter the date that each crusher and screen was constructed, reconstructed, or modified.
5. Enter the maximum throughput for each crusher and screen in tons per hour and tons per year.
6. Describe the nominal material size reduction (e.g. +2"/ -⅜").
7. Enter the average percent moisture content of the material processed.
8. Enter the appropriate Control Device Identification Number for each crusher and screen. Refer to Table A - *Control Device Listing* and *Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.
9. Enter the appropriate stack parameters if a baghouse control device is used.
10. Enter the maximum operating schedule for each crusher and screen in hours per day, days per year and hours per year.

CONVEYING AFFECTED SOURCE SHEET

Source Identification Number[1]	Date of Construction, Reconstruction, or Modification (Month/Year)[2]	Type of Material Handled[3]	Size of Material Handled[4]	Maximum Material Transfer Rate[5]		Average Moisture Content (%)[6]	Control Device[7]
				tons/hour	tons/year		
BC-01	**2015**	**RC**	**4" x 0"**	**450**	**3,942,000**	**4.11**	**PE**
BC-02	**2015**	**RC**	**4" x 0"**	**405**	**3,547,800**	**4.11**	**PE**
BC-03	**2015**	**R**	**>4"**	**45**	**394,200**	**4.11**	**PE**
BC-04	**2015**	**RC**	**4" x 0"**	**90**	**3,547,000**	**4.11**	**PE**
BC-05	**2015**	**R**	**>4"**	**10**	**394,200**	**4.11**	**PE**

1. Enter the appropriate Source Identification Number for each conveyor using the following codes. For example, multiple belt conveyors should be designated BC-1, BC-2, BC-3 etc. Transfer points are considered emission points, not sources, and should not be included in the *Conveying Affected Source Sheet*. Transfer Point Identification Numbers shall be assigned in the *Emission Calculation Sheet*.

   BC Belt Conveyor — BE Bucket Elevator — DL Drag-link Conveyor
   PS Pneumatic System — SC Screw Conveyor — VC Vibrating Conveyor
   OT Other
2. Enter the date that each crusher and screen was constructed, reconstructed, or modified.
3. Enter the type of material being handled - Raw Coal (RC) Sized Coal (SC) Clean Coal (CC) Refuse (R) Other (O)
4. Enter the nominal size of the material being conveyed (e.g. clean coal - ¾" x 0). If more than one material is handled by the listed conveyor, list each material and enter the appropriate data for each material.
5. Enter the maximum material transfer rate for each conveyor in tons per hour and tons per year.
6. Enter the average percent moisture content of the conveyed material.
7. Enter the control device for the conveyor. PE - Partial Enclosure (example 3/4 hoop), FE - Full Enclosure, N – None

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number[1]	OS-01	OS-02				
Type of Material Stored[2]	R	RC				
Average Moisture Content (%)[3]	4.11	4.11				
Maximum Yearly Storage Throughput (tons)[4]	394,200	3,547,800				
Maximum Storage Capacity (tons)[5]	470	5,089				
Maximum Base Area (ft^2)[6]	855	6,361				
Maximum Pile Height (ft)[7]	22	60				
Method of Material Load-in[8]	SS	SS				
Load-in Control Device Identification Number[9]	SL-MDH	SL-MDH				
Storage Control Device Identification Number[9]	SW-WS	SW-WS				
Method of Material Load-out[8]	FE	FE				
Load-out Control Device Identification Number[9]	LR-MDH	LR-MDH				

1. Enter the appropriate Source Identification Number for each storage activity using the following codes. For example, if the facility utilizes three storage bins, four open stockpiles and one storage building (full enclosure), the Source Identification Numbers should be BS-1, BS-2, and BS-3; OS-1, OS-2, OS-3, and OS-4; and SB-1, respectively.
   - BS Bin or Storage Silo (full enclosure)
   - E3 Enclosure (three sided enclosure)
   - OS Open Stockpile
   - SB Storage Building (full enclosure)
   - SF Stockpiles with wind fences
   - OT Other
2. Describe the type of material stored or stockpiled. (e.g. clean coal (CC), raw coal (RC), refuse (R), sized coal (SC), other (O))
3. Enter the average percent moisture content of the stored material.
4. Enter the maximum yearly storage throughput for each storage activity.
5. Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
6. For stockpiles, enter the maximum stockpile base area.
7. For stockpiles, enter the maximum stockpile height.
8. Enter the method of load-in or load-out to/from stockpiles or bins using the following codes:
   - CS Clamshell
   - SS Stationary Conveyor/Stacker
   - FC Fixed Height Chute from Bins
   - ST Stacking Tube
   - FE Front Endloader
   - TC Telescoping Chute from Bins
   - MC Mobile Conveyor/Stacker
   - TD Truck Dump
   - UC Under-pile or Under-Bin Reclaim Conveyor
   - PC Pneumatic Conveyor/Stacker
   - RC Rake or Bucket Reclaim Conveyor
   - OT Other
9. Enter the appropriate Control Device Identification Number for each storage activity. Refer to Table A - *Control Device Listing* and *Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.

Attachment H

Baghouse Air Pollution Control Device Sheet

(Not applicable to this application)

Attachment H – Not Applicable for this Facility

BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET

Complete a Baghouse Air Pollution Control Device Sheet for each baghouse control device.

1. Baghouse Control Device Identification Number:
2. Manufacturer's name and model identification:
3. Number of compartments in baghouse:
4. Number of compartments online during normal operation and conditions:
5. Gas flow rate into baghouse: _____ ACFM @ _____ °F and _____ PSIA
6. Total cloth area: _____ ft^2
7. Operating air to cloth ratio: _____ ft/min
8. Filter media type:
9. Stabilized static pressure drop across baghouse: _____ inches H_2O
10. Baghouse operation is:
    - □ Continuous □ Automatic □ Intermittent
11. Method used to clean bags:
    - □ Shaker □ Pulse jet □ Reverse jet □ Other
12. Emission rate of particulate matter entering and exiting baghouse at maximum design operating conditions:

    Entering baghouse: _____ lb/hr and _____ grains/ACF

    Exiting baghouse: _____ lb/hr and _____ grains/ACF
13. Guaranteed minimum baghouse collection efficiency: _____ %
14. Provide a written description of the capture system (e.g. hooding and ductwork arrangement), size of ductwork and hoods and air volume, capacity and operating horsepower of fan:
15. Describe the method of disposal for the collected material:

Hampden Coal, LLC
Washington No. 2 Gas Deep Mine
Permit No. U501907
GD10-D – Coal Preparation and Handling
HTA Project No. 15177

Attachment I

Emissions Calculations

INPUTS

Include all information for each emission source and transfer point as listed in the permit application.

Name of applicant: Hampden Coal, LLC
Name of plant: Washington No. 2 Gas

1. CRUSHING AND SCREENING (including all primary and secondary crushers and screens)

1a. PRIMARY CRUSHING

Primary Crusher ID Number	Description	Maximum Material Processing Capacity TPH	Maximum Material Processing Capacity TPY	Control Device ID Number	Control Efficiency %

1b. SECONDARY AND TERTIARY CRUSHING

Secondary & Tertiary Crusher ID	Description	Maximum Material Processing Capacity TPH	Maximum Material Processing Capacity TPY	Control Device ID Number	Control Efficiency %

1c. SCREENING

Secondary & Tertiary Crusher ID	Description	Maximum Material Processing Capacity TPH	Maximum Material Processing Capacity TPY	Control Device ID Number	Control Efficiency %
SS-01	Screen 1	450	3,942,000	S1	80

2. *TRANSFER POINTS (including all conveyor transfer points, equipment transfer points etc.)*

		PM	PM-10
k =	Particle Size Multiplier (dimensionless)	0.74	0.35
U =	Mean Wind Speed (mph)	7	

Transfer Point ID No.	Transfer Point Description Include ID Numbers of all conveyors, crushers, screens, stockpiles, etc. involved	Material Moisture Content %	Maximum Transfer Rate		Control Device ID Number	Control Efficiency %
			TPH	TPY		
TP-01	Deep Mine to BC-01	8	450	3,942,000	FE	80
TP-02	BC-01 to SS-01	8	450	3,942,000	PE	80
TP-03	SS-01 to BC-02 and BC-03	8	450	3,942,000	TC-FE	80
TP-04	BC-02 to BC-04	8	405	3,547,800	SS-MDH	80
TP-05	BC-03 to BC-05	8	45	394,200	SS-MDH	80
TP-06	BC-04 to OS-02	8	405	3,547,800	SL-MDH	80
TP-07	BC-05 to OS-01	8	45	394,200	SL-MDH	80
TP-08	OS-02 to Truck	8	405	3,547,800	LR-MDH	0
TP-09	OS-01 to Truck	8	45	394,200	LR-MDH	0

3. WIND EROSION OF STOCKPILES *(including all stockpiles of raw coal, clean coal, coal refuse, etc.)*

p =	number of days per year with precipitation >0.01 inch	157
f =	percentage of time that the unobstructed wind speed exceeds 12 mph at the mean pile height	20

Source ID No.	Stockpile Description	Silt Content of Material %	Stockpile base area Max. sqft	Control Device ID Number	Control Efficiency %
OS1	Raw Coal	6	855	n	0
OS2	Raw Coal	6	6,361	n	0

4. UNPAVED HAULROADS *(including all equipment traffic involved in process, haul trucks, endloaders, etc.)*

s =	silt content of road surface material (%)	5
p =	number of days per year with precipitation >0.01 inch	157
M_{dry} =	surface material moisture content (%) - dry conditions	0.2

Item Number	Description	Number of wheels	Mean Vehicle Weight(tons)	Mean Vehicle Speed (mph)	Miles per Trip	Maximum Trips Per Hour	Maximum Trips Per Year	Control Device ID Number	Control Efficiency %
1	Raw Coal Shipment	10	50	10	1.38	0.675	17,550	HR-WS1	70
2	Raw Coal Shipment	18	80	10	1.38	0.675	17,550	HR-WS1	70
3	Scalp Rock Shipment	10	50	10	1.38	0.075	1,950	HR-WS1	70
4	Scalp Rock Shipment	18	80	10	1.38	0.075	1,950	HR-WS1	70
5	Raw Coal Endloader	4	11.25	2	0.05	10	38,400	HR-WS1	70
6	Rock Endloader	4	11.25	2	0.05	2	7,680	HR-WS1	70
7									
8									
9									

5. INDUSTRIAL PAVED HAULROADS *(including all equipment traffic involved in process, haul trucks, endloaders, etc.)*

sL =	road surface silt loading, (g/ft^2)	
P =	number of days per year with precipitation >0.01 inch	

Item Number	Description	Mean Vehicle Weight (tons)	Miles per Trip	Maximum Trips Per Hour	Maximum Trips Per Year	Control Device ID Number	Control Efficiency %
1	Raw Coal Shipment	28	1.62	0.675	17,550	HR-WS1	70
2	Raw Coal Shipment	35	1.62	0.675	17,550	HR-WS1	70
3	Scalp Rock Shipment	28	1.62	0.075	1,950	HR-WS1	70
4	Scalp Rock Shipment	35	1.62	0.075	1,950	HR-WS1	70
5							
6							
7							
8							

EMISSIONS SUMMARY

Name of applicant: Hampden Coal, LLC
Name of plant: Washington No. 2 Gas

Particulate Matter or PM (for 45CSR14 Major Source Determination)

	Uncontrolled PM		Controlled PM	
	lb/hr	TPY	lb/hr	TPY
FUGITIVE EMISSIONS				
Stockpile Emissions	0.06	0.24	0.06	0.24
Unpaved Haulroad Emissions	24.67	288.78	7.40	86.63
Paved Haulroad Emissions	(0.01)	(0.15)	(0.00)	(0.04)
Fugitive Emissions Total	**24.72**	**288.87**	**7.45**	**86.83**
POINT SOURCE EMISSIONS				
Equipment Emissions	45.00	197.10	9.00	39.42
Transfer Point Emissions	1.42	6.23	0.47	2.08
Point Source Emissions Total*	**46.42**	**203.33**	**9.47**	**41.50**
Facility Emissions Total	**71.14**	**492.20**	**16.93**	**128.33**

*Note: Point Source Total Controlled PM TPY emissions is used for 45CSR14 Major Source determination (see below)

***Facility Potential to Emit (PTE) (Baseline Emissions) = 41.50**

(Based on Point Source Total controlled PM TPY emissions from above) **ENTER ON LINE 26 OF APPLICATION**

Particulate Matter under 10 microns, or PM-10 (for 45CSR30 Major Source Determination)

	Uncontrolled PM-10		Controlled PM-10	
	lb/hr	TPY	lb/hr	TPY
FUGITIVE EMISSIONS				
Stockpile Emissions	0.03	0.11	0.03	0.11
Unpaved Haulroad Emissions	6.34	74.20	1.90	22.26
Paved Haulroad Emissions	(0.01)	(0.15)	(0.00)	(0.04)
Fugitive Emissions Total	**6.35**	**74.17**	**1.92**	**22.33**
POINT SOURCE EMISSIONS				
Equipment Emissions	21.15	92.64	4.23	18.53
Transfer Point Emissions	0.67	2.95	0.22	0.98
Point Source Emissions Total*	**21.82**	**95.58**	**4.45**	**19.51**
Facility Emissions Total	**28.18**	**169.75**	**6.38**	**41.84**

*Note: Point Source Total Controlled PM-10 TPY emissions is used for 45CSR30 Major Source determination

1. Emissions From CRUSHING AND SCREENING

1a. Primary Crushing

Primary Crusher ID Number	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

1b. Secondary and Tertiary Crushing

Secondary & Tertiary Crusher ID	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

1c. Screening

Screen ID Number	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
SS-01	45.000	197.100	9.000	39.420	21.150	92.637	4.230	18.527
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	45.000	197.100	9.000	39.420	21.150	92.637	4.230	18.527

Crushing and Screening	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
TOTAL	45.000	197.100	9.000	39.420	21.150	92.637	4.230	18.527

1. Emissions From CRUSHING AND SCREENING (Continued)

EMISSION FACTORS

source: Air Pollution Engineering Manual and References
(lb/ton of material throughput)

PM	
Primary Crushing	0.02
Tertiary Crushing	0.06
Screening	0.1

PM-10	
Primary Crushing	0.0094
Tertiary Crushing	0.0282
Screening	0.047

2. *Emissions From TRANSFER POINTS*

Transfer Point ID No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
TP-01	0.237	1.038	0.047	0.208	0.112	0.491	0.022	0.098
TP-02	0.237	1.038	0.047	0.208	0.112	0.491	0.022	0.098
TP-03	0.237	1.038	0.047	0.208	0.112	0.491	0.022	0.098
TP-04	0.213	0.934	0.043	0.187	0.101	0.442	0.020	0.088
TP-05	0.024	0.104	0.005	0.021	0.011	0.049	0.002	0.010
TP-06	0.213	0.934	0.043	0.187	0.101	0.442	0.020	0.088
TP-07	0.024	0.104	0.005	0.021	0.011	0.049	0.002	0.010
TP-08	0.213	0.934	0.213	0.934	0.101	0.442	0.101	0.442
TP-09	0.024	0.104	0.024	0.104	0.011	0.049	0.011	0.049
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

2. Emissions From TRANSFER POINTS (continued)

Transfer Point ID No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	1.422	6.227	0.474	2.076	0.672	2.945	0.224	0.982

Source:
AP42, Fifth Edition, Revised 11/2006
13.2.4 Aggregate Handling and Storage Piles

Emissions From Batch Drop

E = k*(0.0032) * [(U/5)^1.3]/[(M/2)^1.4] = pounds/ton

Where:

		PM	PM-10
k =	Particle Size Multiplier (dimensionless)	0.74	0.35
U =	Mean Wind Speed (mph)		
M =	Material Moisture Content (%)		

Assumptions:

k - Particle size multiplier
For PM (< or equal to 30um) k = 0.74
For PM-10 (< or equal to 10um) k = 0.35

Emission Factor
For PM E= $I$88*(0.0032)*((((Inputs!$I$72)/5)^1.3)/(((Inputs!G78+0.000000001)/2)^1.4))
=lb/ton

For PM-10 E= $J$88*(0.0032)*((((Inputs!$I$72)/5)^1.3)/(((Inputs!G78+0.000000001)/2)^1.4))
=lb/ton

For lb/hr [lb/ton]*[ton/hr] = [lb/hr]

For Tons/year [lb/ton]*[ton/yr]*[ton/2000lb] = [ton/yr]

3. Emissions From WIND EROSION OF STOCKPILES

Stockpile ID No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
OS1	0.007	0.029	0.007	0.029	0.003	0.014	0.003	0.014
OS2	0.049	0.214	0.049	0.214	0.023	0.101	0.023	0.101
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.055	0.243	0.055	0.243	0.026	0.114	0.026	0.114

Source:
Air Pollution Engineering Manual

Storage Pile Wind Erosion (Active Storage)

E = 1.7*[s/1.5]*[(365-p)/235]*[f/15] = (lb/day/acre)

Where:

s =	silt content of material
p =	number of days with >0.01 inch of precipitation per year
f =	percentage of time that the unobstructed wind speed
	exceeds 12 mph at the mean pile height

Emission Factors

For PM	E=(1.7)*((Inputs!F147)/1.5)*((365-Inputs!I139)/235)*((Inputs!I140)/15)
For PM-10	E=0.47*(1.7)*((Inputs!F147)/1.5)*((365-Inputs!I139)/235)*((Inputs!I140)/15)
For lb/hr	[lb/day/acre]*[day/24hr]*[base area of pile (acres)] = lb/hr
For Ton/yr	[lb/day/acre]*[365day/yr]*[Ton/2000lb]*[base area of pile (acres)] = Ton/yr

4. Emissions From UNPAVED HAULROADS

Item No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1	8.77	114.03	2.63	34.21	2.25	29.30	0.68	8.79
2	10.84	140.88	3.25	42.27	2.78	36.20	0.84	10.86
3	0.97	12.67	0.29	3.80	0.25	3.26	0.08	0.98
4	1.20	15.65	0.36	4.70	0.31	4.02	0.09	1.21
5	2.41	4.62	0.72	1.39	0.62	1.19	0.19	0.36
6	0.48	0.92	0.14	0.28	0.12	0.24	0.04	0.07
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	24.67	288.78	7.40	86.63	6.34	74.20	1.90	22.26

Source:
AP42, Fifth Edition, Revised 11/2006
13.2.2 Unpaved Roads

Emission Estimate For Unpaved Haulroads at Industrial Sites (equation 1)

E= k*((s/12)^a)*((W/3)^b) =lb/vmt

Where:

		PM	PM-10
k =	particle size multiplier	4.90	1.50
a =	empirical constant	0.7	0.9
b =	empirical constant	0.45	0.45

Emission Factors

For PM E= (($I$35)*(((Inputs!$I$163)/12)^($I$36))*(((Inputs!H171)/3)^$I$37))

For PM-10 E= (($J$35)*(((Inputs!$I$163)/12)^($J$36))*(((Inputs!H171)/3)^$J$37))

For lb/hr (lb/vmt)*(miles per trip)*(Max trips per hour)

For Ton/yr (lb/vmt)*(miles per trip)*(Max trips per year)*(1/2000)

5. Emissions From INDUSTRIAL PAVED HAULROADS

Item No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1	-0.01	-0.07	0.00	-0.02	-0.01	-0.07	0.00	-0.02
2	-0.01	-0.07	0.00	-0.02	-0.01	-0.07	0.00	-0.02
3	0.00	-0.01	0.00	0.00	0.00	-0.01	0.00	0.00
4	0.00	-0.01	0.00	0.00	0.00	-0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	-0.01	-0.15	0.00	-0.04	-0.01	-0.15	0.00	-0.04

Source:
AP42, Fifth Edition, Revised 11/2006
13.2.1 PAVED ROADS

Emission Estimate For Paved Haulroads

E = [k * (sL/2)^0.65 * (W/3)^1.5 - C] * (1 - (P/4*N) = lb / Vehicle Mile Traveled (VMT)

Where:

		PM	PM-10
k =	particle size multiplier	0.082	0.016
sL =	road surface silt loading, (g/ft^2)	0	
P =	number of days per year with precipitation >0.01 inch	0	
N =	number of days in averaging period	365	
C=	factor for exhaust, brake wear and tire wear	0.0047	0.0047

Emission Factors

For PM E= ($I$34*((($I$35)/2)^0.65)*(((Inputs!G190)/3)^1.5)-($I$38))*(1-((Inputs!$I$1

For PM-10 E= ($J$34)*((($I$35)/2)^0.65)*(((Inputs!G190)/3)^1.5))-($I$38))*(1-((Inputs!I

For lb/hr (lb/vmt)*(miles per trip)*(Max trips per hour)

For Ton/yr (lb/vmt)*(miles per trip)*(Max trips per year)*(1/2000)

Hampden Coal, LLC
Washington No. 2 Gas Deep Mine
Permit No. U501907
GD10-D – Coal Preparation and Handling
HTA Project No. 15177

Attachment J

Class I Legal Advertisement

Legal Advertisement

AIR QUALITY PERMIT NOTICE
Notice of Application

Notice is hereby given that Hampden Coal, LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a General permit for a coal screening facility located off of County Route 16/1 on the Right Fork of Buffalo Creek near Accoville in Logan County, West Virginia. The facility coordinates are as follows: Latitude 37.633056°" and Longitude 81.785278°.

The applicant estimates the potential to discharge the following regulated air pollutants will be: 41.50 TPY of particulate matter ("PM") and 19.51 TPY of particulate matter less than 10 microns ("PM10").

Startup of operation is planned to begin upon permit approval. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality ("DAQ"), 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1250, during normal business hours.

Dated this the ____ day of October, 2015.

By: Hampden Coal, LLC
D. Edward Brown
Vice President
3228 Summit Square Place, Suite 180
Lexington, KY 40509

Hampden Coal, LLC
Washington No. 2 Gas Deep Mine
Permit No. U501907
GD10-D – Coal Preparation and Handling
HTA Project No. 15177

Attachment K

Electronic Submittal CD

Hampden Coal, LLC
Washington No. 2 Gas Deep Mine
Permit No. U501907
GD10-D – Coal Preparation and Handling
HTA Project No. 15177

Attachment L

Certification

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant

FOR A CORPORATION (domestic or foreign)

G I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation

FOR A PARTNERSHIP

G I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

G I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

G I certify that I am the President or a member of the Board of Directors

FOR A JOINT VENTURE

G I certify that I am the President, General Partner or General Manager

FOR A SOLE PROPRIETORSHIP

G I certify that I am the Owner and Proprietor

G *I hereby certify that* (please print or type) **D. Edward Brown**

is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Director of the Office of Air Quality immediately, and or.

I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible

Signature _____ 08/31/2015
(please use blue ink) Responsible Official Date

Name & Title **D. Edward Brown, Vice President**
(please print or type)

Signature _____ 08/31/2015
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name **Hampden Coal, LLC**

Phone & Fax *(304)-553-0027* **(304)-553-0027**
Phone Fax

Email **ebrown@blackhawkmining.com**