I.D. No. _____ Reg. _____
Company _____
Facility _____
Initials _____

RECEIVED
APR 14 2017
WV DEP / DIV OF AIR QUALITY

Mountain State Company
P.O. Box O • Cedar Grove, WV 25039 • (304) 949-4762
2318 E. Dupont Avenue • Belle, WV 25015 • FAX (304) 949-4764

April 14, 2017

West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street, SE
Charleston, West Virginia 25304

Re: Sewell Mountain Coal Co., LLC
Coal Facility General Permit Registration Application
Proposed Sewell Mountain Plant Facility

To Whom It May Concern:

Attached please find the original signature copy and two (2) copies on computer discs of the above referenced permit application along with the $1500 filing fee.

If you have any questions, please feel free to contact me.

Sincerely,

Peter L. Gant

Cc: Jack Hagewood

Entire Document
NON-CONFIDENTIAL

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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
- ☐ **G20-B** – Hot Mix Asphalt
- ☐ **G33-A** – Spark Ignition Internal Combustion Engines
- ☐ **G40-C** – Nonmetallic Minerals Processing
- ☐ **G50-B** – Concrete Batch
- ☐ **G60-C** - Class II Emergency Generator
- ☐ **G65-C** – Class I Emergency Generator

SECTION I. GENERAL INFORMATION

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

2. Federal Employer ID No. **(FEIN):**
37-170973

3. Applicant's mailing address:
3127 Keller Bend Road
Knoxville, TN 37922

4. Applicant's physical address:
3069 Miller Ridge Road
Hico, WV 25854

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

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.):
Wet coal preparation plant and loading facility

8a. Standard Industrial Classification AND 8b. North American Industry
Classification (SIC) code: 1221-1222 System (NAICS) code: 213113

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

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:
Sewell Mountain Plant	Mailing: **3069 Miller Ridge Road, Hico, WV 25854** Physical: **3069 Miller Ridge Road, Hico, WV 25854**

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: **Lease**
- 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 the Lookout Post Office, travel Route 60 west 0.6 miles to County Route 60/12; then north on Route 60/12 for 4 miles to the site located on Glade Creek

15A. Nearest city or town:	16A. County:	17A. UTM Coordinates:
Lookout	**Fayette**	Northing (KM): **4216.848** Easting (KM): **505.667** Zone: **17**

18A. Briefly describe the proposed new operation or change (s) to the facility:	19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
	Latitude: **38.10223** Longitude: **80.93418**

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:
N/A	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**.

N/A

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:	21. Date of anticipated Start-up if registration is granted:
6 / 1 / 17	9 / 1 / 17
☐ If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: :	
____/____/____ N/A	

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.

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)

☐ 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

☐ I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

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

FOR AN ASSOCIATION

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

FOR A JOINT VENTURE

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

FOR A SOLE PROPRIETORSHIP

☐ I certify that I am the Owner and Proprietor

G *I hereby certify that* (please print or type) _____

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 _____ 4-12-17
(please use blue ink) Responsible Official Date

Name & Title Jon E. Nix, Manager
(please print or type)

Signature _____
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name _____

Phone & Fax 304-658-5606 none
Phone Fax

Email jn@ll-resources.com

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

SEWELL MOUNTAIN COAL CO., LLC

made application to the West Virginia Secretary of State's Office to be a registered limited liability company in the State of West Virginia on October 2, 2012. The application was received and found to conform to law.

The company is filed as an at-will company, for an indefinite period.

I further certify that the company has not been revoked or administratively dissolved by the State of West Virginia nor has the West Virginia Secretary of State issued a Certificate of Cancellation or Termination to the company.

Accordingly, I hereby issue this

CERTIFICATE OF EXISTENCE

Given under my hand and the Great Seal of the State of West Virginia on this day of October 25, 2016

Natalie E Tennant

Secretary of State

ATTACHMENT B

PROCESS DESCRIPTION

ATTACHMENT B

PROCESS DESCRIPTION

Raw coal shall enter the facility directly from and underground mine on a belt conveyor BC-1. BC-1 will transfer the raw coal to belt conveyor BC-2 at transfer point TP-1 which is partially enclosed. BC-2 then transfers the raw coal to tripper conveyor BC-3 at transfer point TP-2 which is partially enclosed. The raw coal then can be transferred to an open raw coal stockpile (OS-1) at either transfer points TP-3, TP-4, TP-5 and TP-6 (all 4 are partially enclosed with stacker tubes). Raw coal will be transferred from stockpile OS-1 by five underpile feeders that feeds the raw coal onto underpile conveyor BC-4 at transfer points TP-7 through TP-11 which are all fully enclosed. BC-4 then transfers the raw coal into the top of a scalping screen SC-1 at transfer point TP-12 which will be partially enclosed. The scalping screen will be fully enclosed. The sized coal will then be transferred onto belt conveyor BC-5 at TP-13 which is partially enclosed. BC-5 will enter the wet wash plant at TP-14 (fully enclosed inside the building).

Refuse from the wet wash process will leave the plant onto belt conveyor BC-6 at TP-15 (fully enclosed inside building). From BC-6 the refuse will be transferred into bin BS-1 at TP-16 which is partially enclosed. From the bin refuse shall be transferred into a truck at TP-17 via telescopic chute. When the truck reaches the refuse disposal area, it will be dumped onto the ground at TP-17A (no controls).

Clean coal as a stoker product shall exit the plant at TP-18 onto belt conveyor BC-7 (fully enclosed inside the building). Stoker coal will then be transferred to radial stacker belt conveyor BC-8 at TP-19 which is partially enclosed. Stoker coal can then be transferred onto stockpile OS-2 at TP-20. A maximum drop height of 25 feet will be maintained. Stoker coal shall be loaded out of the pile into a truck by endloader at TP-21 which is partially enclosed.

Other clean coal shall exit the plant into a crusher CR-1 at TP-22. From the crusher, the clean coal is then transferred onto belt conveyor BC-9 at TP-23. Transfer points TP-22 and TP-23 as well as crusher CR-1 are all fully enclosed inside the building. From BC-9, clean coal will then be transferred to radial stacker belt conveyor BC-10 at TP-24 which is partially enclosed. From BC-10 clean coal can then be transferred into either open stockpile OS-3 at TP-25 where a maximum drop height of 25 feet will be maintained, or directly to clean coal bin BS-2 at TP-27 which will be partially enclosed. If clean coal is diverted in to the bin, it will then be loaded directly into trucks at TP-28 which will have a telescopic chute. Clean coal can also be loaded out of the pile OS-3 into a truck by endloader which is partially enclosed.

All belt conveyors will be provided with partial enclosures over them. The moisture content of the clean and raw coal is estimated to be 6% and the refuse 15%.

ATTACHMENT C

DESCRIPTION OF FUGITIVE EMISSIONS

ATTACHMENT C

DESCRIPTION OF FUGUTIVE EMISSIONS

Fugitive emissions from the site will consist of emissions from paved and unpaved haulroads and from wind erosion of stockpiles. The narrative below will provide a Fugitive Emission Control Plan for this facility.

Raw coal shall enter the facility directly from an underground mine and into open stockpile OS-1. Control of fugitive dust due to wind erosion at open stockpile OS-1 will be accomplished by the use of compaction using equipment found on-site. A water truck with a fixed spray bar will be used to control fugitive dust around the sctockpile.

Clean coal will leave the site via haulroad where part of it is unpaved and part of it is paved. See the Area Map for road locations and lengths. A water truck with a fixed spray bar will be used to control fugitive dust on all of the roads. Since the haul to a county road is long, and paved leading up to the intersection to the county road, no truck wash system is proposed for this facility.

The refuse haul is shown on the Area Map. This road will also utilize the water truck as described above.

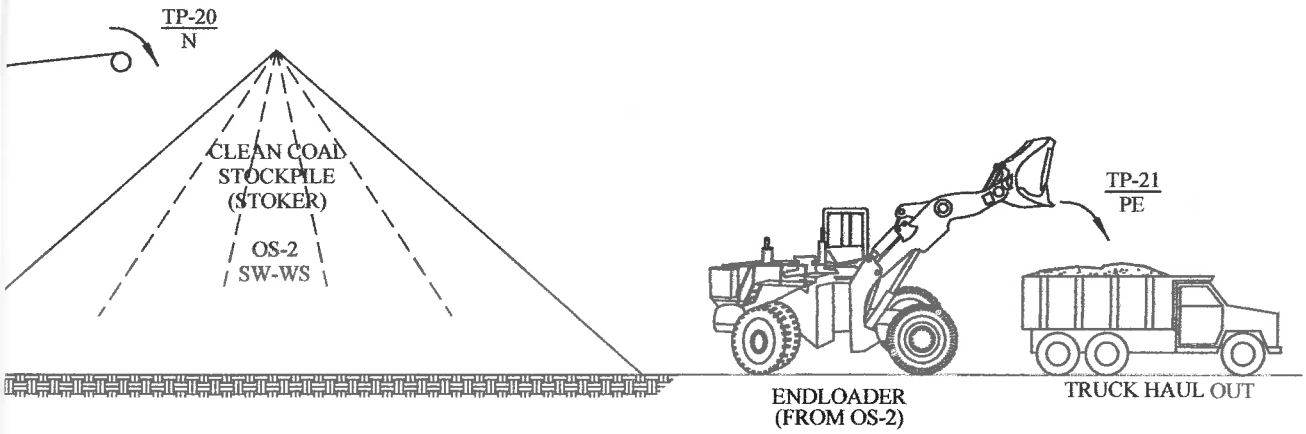
Endloaders may transfer coal from open stockpiles OS-2 and OS-3 into trucks. Again the water truck described above will be utilized to control fugitive emissions for endloader hauls.

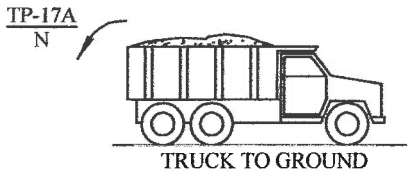
The use of the water truck will be directly related to the amount of precipitation during the work day.

Fugitive emissions will be minimized at open stockpiles OS-2 and OS-3 by the use of compaction of the piles by onsite equipment. The water truck shall also operate around the stockpiles to help to minimize fugitive emissions.

ATTACHMENT D

PROCESS FLOW DIAGRAM





SEWELL MOUNTAIN COAL CO., LLC

3127 KELLER BEND ROAD - KNOXVILLE, TENNESSEE 37922

SEWELL MOUNTAIN COMPLEX - PREPARATION PLANT

PERMIT NO. P068900 OAQ - NPDES NO. WV0091014

PROCESS FLOW DIAGRAM

ATTACHMENT D

DATE PREP.	MARCH 2017	PREPARED BY:	COUNTY	FAYETTE
REVISED				
DATUM:			DISTRICT	NEW HAVEN
STATE PLANE - WV S NAD 27				
UTM ZONE - 17 SOUTH			QUAD.	WINONA
ELEV DATUM - 1929				
CONTOUR INTERVAL	N/A		COAL SEAM	
SCALE	NOT TO SCALE		SEWELL SEAM	
0 1"		DRAWING NAME P-689 OAQ.DWG		

Mountain State Company
P.O. Box O - Cedar Grove, WV 25039 - PHONE(304) 949-4762
2318 E. DuPont Avenue - Belle, WV 25015 - FAX(304) 949-4764

ATTACHMENT E

PLOT PLAN

SEWELL MOUNTAIN COAL CO., LLC

3127 KELLER BEND ROAD - KNOXVILLE, TENNESSEE 37922

SEWELL MOUNTAIN COMPLEX - PREPARATION PLANT

PERMIT NO. P068900 OAQ - NPDES NO. WV0091014

PLOT PLAN

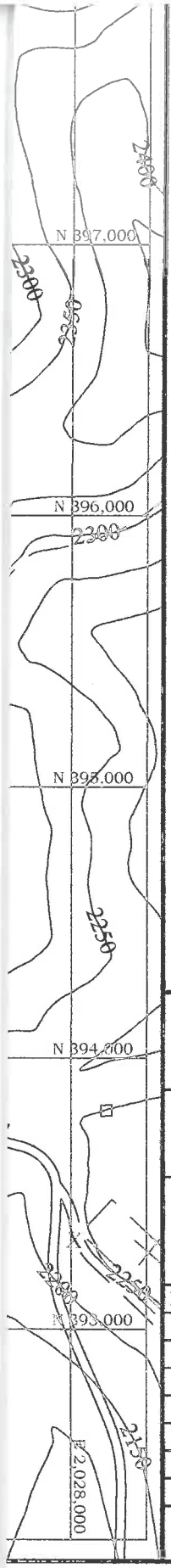
ATTACHMENT E

DATE PREP.	MARCH 2017	PREPARED BY:	COUNTY	FAYETTE
REVISED				
DATUM:			DISTRICT	NEW HAVEN
STATE PLANE - WV S NAD 27				
UTM ZONE - 17 SOUTH			QUAD.	WINONA
ELEV DATUM - 1929				
CONTOUR INTERVAL	10'		COAL SEAM	
SCALE	1" = 60'		SEWELL SEAM	
0 60'		DRAWING NAME P-689 OAQ.DWG		

Mountain State Company
P.O. Box O - Cedar Grove, WV 25039 - PHONE(304) 949-4762
2318 E. DuPont Avenue - Belle, WV 25015 - FAX(304) 949-4764

ATTACHMENT F

AREA MAP



SEWELL MOUNTAIN COAL CO., LLC

3127 KELLER BEND ROAD - KNOXVILLE, TENNESSEE 37922

SEWELL MOUNTAIN COMPLEX

PERMIT NO. P-0689-00 OAQ - NPDES NO. WV0091014

AREA MAP

ATTACHMENT F

DATE PREP.	MARCH 2017	PREPARED BY:	COUNTY	FAYETTE
REVISED				
DATUM:			DISTRICT	NEW HAVEN
STATE PLANE - WV S NAD 27				
UTM ZONE - 17 SOUTH			QUAD.	WINONA
ELEV DATUM - 1929				
CONTOUR INTERVAL	50'		COAL SEAM	
SCALE	1" = 600'		SEWELL SEAM	
0 — 600'		DRAWING NAME P-689 AREA MAP.DWG		

Mountain State Company
P.O. Box O - Cedar Grove, WV 25039 - PHONE(304) 949-4762
2318 E. DuPont Avenue - Belle, WV 25015 - FAX(304) 949-4764

ATTACHMENT G

AFFECTED SOURCE SHEETS

00016

CRUSHING AND SCREENING AFFECTED SOURCE SHEET

Source Identification Number[1]		CR-1	SC-1				
Type of Crusher or Screen[2]		DR	Scalping				
Make, Model No., Serial No.[3]		UNK	UNK				
Date of Construction, Reconstruction, or Modification (Month/Year)[4]		06/17	06-17				
Maximum Throughput[5]	tons/hour	550	3000				
	tons/year	700,000	2,000,000				
Material sized from/to:[6]		+2 to-2	+4 to <4				
Average Moisture Content (%)[7]		6	6				
Control Device ID Number[8]		CS-FE	CS-FE				
Baghouse Stack Parameters[9]	height (ft)	-	-				
	diameter (ft)	-	-				
	volume (ACFM)	-	-				
	exit temp (°F)	-	-				
	UTM Coordinates						
Maximum Operating Schedule[10]	hours/day	24	24				
	days/year	365	365				
	hours/year	8670	8670				

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.

00017

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-1	6/17	RC	+4	3000	2,000,000	6	PE
BC-2	6/17	RC	+4	3000	2,000,000	6	PE
BC-3	6/17	RC	+4	3000	2,000,000	6	PE
BC-4	6/17	RC	+4	650	2,000,000	6	PE
BC-5	6/17	SC	<4	650	2,000,000	6	PE
BC-6	6/17	R	2	400	1,000,000	15	PE
BC-7	6/17	CC	2	200	300,000	6	PE
BC-8	6/17	CC	2	200	300,000	6	PE
BC-9	6/17	CC	2	550	700,000	6	PE
BC-10	6/17	CC	2	550	700,000	6	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

• 00018

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number[1]	OS-1	OS-2	OS-3	BS-1	BS-2	
Type of Material Stored[2]	RC	SC	CC	R	CC	
Average Moisture Content (%)[3]	6	6	6	6	6	
Maximum Yearly Storage Throughput (tons)[4]	2,000,000	300,000	700,000	1,000,000	700,000	
Maximum Storage Capacity (tons)[5]	200,000	15,000	50,000	500	500	
Maximum Base Area (ft^2)[6]	143,000	30,600	77,600	N/A	N/A	
Maximum Pile Height (ft)[7]	90'	VARIES	VARIES	N/A	N/A	
Method of Material Load-in[8]	ST	SS	SS	SS	SS	
Load-in Control Device Identification Number[9]	N	N	N	SS	SS	
Storage Control Device Identification Number[9]	SW-WS	SW-WS	SW-WS	SW-FE	SW-FE	
Method of Material Load-out[8]	UC	FE	FE	TC	TC	
Load-out Control Device Identification Number[9]	LO-UC	TC-PE	TC-PE	LR-TC	LR-TC	

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 I

FACILITY EMISSIONS CALCULATIONS

EMISSIONS SUMMARY

Name of applicant: Sewell Mountain Coal
Name of plant: Sewell Mountain Plant

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

	Uncontrolled PM		Controlled PM	
	lb/hr	TPY	lb/hr	TPY
FUGITIVE EMISSIONS				
Stockpile Emissions	0.16	0.70	0.05	0.21
Unpaved Haulroad Emissions	363.84	727.89	109.15	218.37
Paved Haulroad Emissions	487.55	975.49	146.27	292.65
Fugitive Emissions Total	**851.55**	**1,704.08**	**255.47**	**511.22**
POINT SOURCE EMISSIONS				
Equipment Emissions	311.00	107.00	62.20	21.40
Transfer Point Emissions	22.29	8.35	10.10	3.63
Point Source Emissions Total*	**333.29**	**115.35**	**72.30**	**25.03**
*Note: Point Source Total Controlled PM TPY emissions is used for 45CSR14 Major Source determination (see below)				
Facility Emissions Total	**1,184.84**	**1,819.43**	**327.76**	**536.25**

***Facility Potential to Emit (PTE) (Baseline Emissions) = 25.03**

(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	0.08	0.33	0.02	0.10
Unpaved Haulroad Emissions	107.39	214.84	32.22	64.45
Paved Haulroad Emissions	95.10	190.27	28.53	57.08
Fugitive Emissions Total	**202.57**	**405.45**	**60.77**	**121.63**
POINT SOURCE EMISSIONS				
Equipment Emissions	146.17	50.29	29.23	10.06
Transfer Point Emissions	10.54	3.95	4.78	1.71
Point Source Emissions Total*	**156.71**	**54.24**	**34.01**	**11.77**
*Note: Point Source Total Controlled PM-10 TPY emissions is used for 45CSR30 Major Source determination				
Facility Emissions Total	**359.28**	**459.69**	**94.78**	**133.41**

INPUTS

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

Name of applicant: Sewell Mountain Coal
Name of plant: Sewell Mountain Plant

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 %
CR-1	CLEAN COAL CRUSHER	550	700,000	SC-PE	80

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 %
SC-1	SCALPING SCREEN	3,000	2,000,000	SC-PE	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 TPH	Maximum Transfer Rate TPY	Control Device ID Number	Control Efficiency %
TP=1	BC-1 to BC-2	6	3,000	2,000,000	TC-PE	50
TP-2	BC-2 to BC-3	6	3,000	2,000,000	TC-PE	50
TP-3	BC-2 to OS-1	6	3,000	500,000	TC-PE	50
TP-4	BC-2 to OS-1	6	3,000	500,000	TC-PE	50
TP-5	BC-2 to OS-1	6	3,000	500,000	TC-PE	50
TP-6	BC-2 to OS-1	6	3,000	500,000	TC-PE	50
TP-7	OS-1 TO BC-4	6	650	400,000	LO-UC	80
TP-8	OS-1 TO BC-4	6	650	400,000	LO-UC	80
TP-9	OS-1 TO BC-4	6	650	400,000	LO-UC	80
TP-10	OS-1 TO BC-4	6	650	400,000	LO-UC	80
TP-11	OS-1 TO BC-4	6	650	400,000	LO-UC	80
TP-12	BC-4 to SC-1	6	650	2,000,000	TC-PE	50
TP-13	SC-1 to BC-5	6	650	2,000,000	TC-PE	50
TP-14	BC-5 to Plant	6	650	2,000,000	TC-FE	80
TP-15	Plant to BC-6	15	400	1,000,000	TC-FE	80
TP-16	BC-6 to BS-1	15	400	1,000,000	TC-PE	50
TP-17	BS-1 to Truck	15	400	1,000,000	LR-TC	75
TP-18	Plant to BC-7	6	200	300,000	TC-FE	80
TP-19	BC-7 to BC-8	6	200	300,000	TC-PE	50
TP-20	BC-8 to OS-2	6	200	300,000	N	0
TP-21	Endloader to Truck	6	200	300,000	TC-PE	50
TP-22	Plant to CR-1	6	550	700,000	TC-FE	80
TP-23	CR-1 to BC-9	6	550	700,000	TC-FE	80
TP-24	BC-9 to BC-10	6	550	700,000	TC-PE	50
TP-25	BC-10 to OS-3	6	550	700,000	N	0
TP-26	Enloader to Truck	6	550	700,000	TC-PE	50
TP-27	BC-10 to BS-2	6	550	700,000	TC-PE	50
TP-28	BS-2 to Truck	6	550	700,000	LO-TC	75
TP-17A	Truck to Ground	15	400	1,000,000	N	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 %
OS-1	RAW COAL	0.5	143,000	HR-WS	70
OS-2	SIZED COAL	0.5	30,600	HR-WS	70
OS-3	CLEAN COAL	0.5	77,600	HR-WS	70

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

s =	silt content of road surface material (%)	10
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	Refuse Haul	6	108	5	2.39	5	20,000	HR-WS	70
2	Clean Coal Haul	18	50	5	0.8	7.14	28,571	HR-WS	70
3	Endloader to Trucks	4	108	5	0.1	8.3	33,333	HR-WS	70

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

sL =	road surface silt loading, (g/ft^2)	70
P =	number of days per year with precipitation >0.01 inch	157

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	Clean Coal Haul	50	1.36	7.14	28,571	HR-WS	70

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
CR-1	11.000	7.000	2.200	1.400	5.170	3.290	1.034	0.658
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	11.000	7.000	2.200	1.400	5.170	3.290	1.034	0.658

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
SC-1	300.000	100.000	60.000	20.000	141.000	47.000	28.200	9.400
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	300.000	100.000	60.000	20.000	141.000	47.000	28.200	9.400

Crushing and Screening	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
TOTAL	311.000	107.000	62.200	21.400	146.170	50.290	29.234	10.058

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=1	2.363	0.788	1.182	0.394	1.118	0.373	0.559	0.186
TP-2	2.363	0.788	1.182	0.394	1.118	0.373	0.559	0.186
TP-3	2.363	0.197	1.182	0.098	1.118	0.093	0.559	0.047
TP-4	2.363	0.197	1.182	0.098	1.118	0.093	0.559	0.047
TP-5	2.363	0.197	1.182	0.098	1.118	0.093	0.559	0.047
TP-6	2.363	0.197	1.182	0.098	1.118	0.093	0.559	0.047
TP-7	0.512	0.158	0.102	0.032	0.242	0.075	0.048	0.015
TP-8	0.512	0.158	0.102	0.032	0.242	0.075	0.048	0.015
TP-9	0.512	0.158	0.102	0.032	0.242	0.075	0.048	0.015
TP-10	0.512	0.158	0.102	0.032	0.242	0.075	0.048	0.015
TP-11	0.512	0.158	0.102	0.032	0.242	0.075	0.048	0.015
TP-12	0.512	0.788	0.256	0.394	0.242	0.373	0.121	0.186
TP-13	0.512	0.788	0.256	0.394	0.242	0.373	0.121	0.186
TP-14	0.512	0.788	0.102	0.158	0.242	0.373	0.048	0.075
TP-15	0.087	0.109	0.017	0.022	0.041	0.052	0.008	0.010
TP-16	0.087	0.109	0.044	0.055	0.041	0.052	0.021	0.026
TP-17	0.087	0.109	0.022	0.027	0.041	0.052	0.010	0.013
TP-18	0.158	0.118	0.032	0.024	0.075	0.056	0.015	0.011
TP-19	0.158	0.118	0.079	0.059	0.075	0.056	0.037	0.028
TP-20	0.158	0.118	0.158	0.118	0.075	0.056	0.075	0.056
TP-21	0.158	0.118	0.079	0.059	0.075	0.056	0.037	0.028
TP-22	0.433	0.276	0.087	0.055	0.205	0.130	0.041	0.026
TP-23	0.433	0.276	0.087	0.055	0.205	0.130	0.041	0.026
TP-24	0.433	0.276	0.217	0.138	0.205	0.130	0.102	0.065
TP-25	0.433	0.276	0.433	0.276	0.205	0.130	0.205	0.130
TP-26	0.433	0.276	0.217	0.138	0.205	0.130	0.102	0.065
TP-27	0.433	0.276	0.217	0.138	0.205	0.130	0.102	0.065
TP-28	0.433	0.276	0.108	0.069	0.205	0.130	0.051	0.033
TP-17A	0.087	0.109	0.087	0.109	0.041	0.052	0.041	0.052
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	22.288	8.354	10.098	3.626	10.542	3.951	4.776	1.715

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
OS-1	0.091	0.401	0.027	0.120	0.043	0.188	0.013	0.056
OS-2	0.020	0.086	0.006	0.026	0.009	0.040	0.003	0.012
OS-3	0.050	0.217	0.015	0.065	0.023	0.102	0.007	0.031
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	0.161	0.704	0.048	0.211	0.076	0.331	0.023	0.099

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	258.51	517.02	77.55	155.10	76.30	152.60	22.89	45.78
2	87.38	174.82	26.21	52.45	25.79	51.60	7.74	15.48
3	17.95	36.05	5.39	10.82	5.30	10.64	1.59	3.19
4	0.00	0.00	0.00	0.00	0.00	0.00	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	363.84	727.89	109.15	218.37	107.39	214.84	32.22	64.45

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
P =	number of days per year with precipitation >0.01 inch	157	

Emission Factors

For PM E= ($I$35)*(((Inputs!$I$163)/12)^($I$36))*(((Inputs!H171)/3)^$I$37))*((365-$I

For PM-10 E= ($J$35)*(((Inputs!$I$163)/12)^($J$36))*(((Inputs!H171)/3)^$J$37))*((365-

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	487.55	975.49	146.27	292.65	95.10	190.27	28.53	57.08
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	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	487.55	975.49	146.27	292.65	95.10	190.27	28.53	57.08

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)	70	
P =	number of days per year with precipitation >0.01 inch	157	
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)

ATTACHMENT J

CLASS I LEGAL ADVERTISEMENT

AIR QUALITY PERMIT NOTICE
Notice of Application

Notice is given that Sewell Mountain Coal Co., LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a G10-D General Permit Registration, for a Wet Coal Preparation Plant and Loading Facility located on 3069 Miller Ridge Road, Hico, WV 25854 in Fayette County, West Virginia. The latitude and longitude coordinates are: Latitude: 38.10223 – Longitude: 80.93418.
The applicant estimates the potential to discharge the following Regulated Air Pollutants will be: 536.25 tons per year PM and 133.41 tons per year PM10.
Startup of operation is planned to begin on or about the 1st day of September, 2017. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 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 _____, 2017.

By: Sewell Mountain Coal Company, LLC
John Nix
Manager
3069 Miller Ridge Road
Hico, WV 25854

AFFIDAVIT OF PUBLICATION
BECKLEY NEWSPAPERS
BECKLEY, WEST VIRGINIA 25801

04/10/2017

STATE OF WEST VIRGINIA
COUNTY OF FAYETTE, to wit:

I, Sonya G. Mitchell, being duly sworn upon my oath, do depose and say that I am Legal Advertising Clerk for Beckley Newspapers, a corporation, publisher of the newspaper entitled The Fayette-Tribune, a Republican newspaper; that I have been duly authorized by the board of directors of such corporation to execute this affidavit of publication; that such newspaper has been published for more than one year prior to publication of the annexed notice described below; that such newspaper is regularly published twice-weekly for at least fifty weeks during the calendar year, in the municipality of Oak Hill, Fayette County, West Virginia: that such newspaper is a newspaper of "general circulation" as that term is defined in article three ,chapter fifty-nine of the Code of West Virginia, 1931, as amended, within the publication area of areas of the aforesaid municipality and county; that such newspaper averages in length four or more pages, exclusive of any cover, per issue; that such newspaper is circulated to the general public at a definite price of consideration; that such newspaper is a newspaper to which the general public resorts for passing events of a political, religious, commercial and social nature, and for current happenings, announcements, miscellaneous reading matter, advertisements and other notices; that the annexed notice

of AIR QUALITY PERMIT NOTICE
(Description of notice)
was duly published in said newspaper once a week for 1 successive

weeks (Class 1), commencing with the issue of 04/10/2017

and ending with the issue of 04/10/2017, that said annexed notice was

published on the following dates: 04/10/2017,

and that the cost of publishing said annexed notice as aforesaid was $ 38.22

Signed Sonya G Mitchell
Sonya G. Mitchell
Legal Advertising Clerk
Beckley Newspapers

Taken, subscribed and sworn to before me in my said county this day:
04/10/2017

My commission expires March 27, 2021

Diana L Slone
Notary Public of Raleigh County,
West Virginia

OFFICIAL SEAL
Notary Public, State of West Virginia
DIANA L. SLONE
Beckley Newspapers
P. O. Box 2398
Beckley, WV 25802
My commission expires March 27, 2021

COPY OF PUBLICATION

AIR QUALITY PERMIT NOTICE
Notice of Application

Notice is given that Sewell Mountain Coal Co., LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a G10-D General Permit Registration, for a Wet Coal Preparation Plant and Loading Facility located on 3069 Miller Ridge Road, Hico, WV 25854 in Fayette County, West Virginia. The latitude and longitude coordinates are: Latitude: 38.10223 - Longitude: 80.93418.

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be:
536.25 tons per year PM and 133.41 tons per year PM10.
Startup of operation is planned to begin on or about the 1st day of September, 2017.
Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 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 **6th** day of **April, 2017.**

By: Sewell Mountain Coal Company, LLC
John Nix
Manager
3069 Miller Ridge Road
Hico, WV 25854
4-10-MON-1-FT; L 141

ATTACHMENT L

GENERAL PERMIT REGISTRATION APPLICATION FEE

ATTACHMENT O

EMMISSIONS SUMMARY SHEETS

EMISSION SUMMARY SHEET FOR CRITERIA POLLUTANTS

						Registration Number (Agency Use) G10-D				
	Potential Emissions (lbs/hr)					Potential Emissions (tons/yr)				
Source ID No.	NO_X	CO	VOC	SO_2	PM_{10}	NO_X	CO	VOC	SO_2	PM_{10}
Stockpiles	-	-	-	-	0.02	-	-	-	-	0.10
Unpaved Roads	-	-	-	-	32.22	-	-	-	-	64.45
Paved Roads	-	-	-	-	28.53	-	-	-	-	57.08
Equipment	-	-	-	-	29.33	-	-	-	-	10.06
Transfer Points	-	-	-	-	4.78	-	-	-	-	1.71
Total					94.78					133.41

00037