



Peabody Sage Creek Mining, LLC

Peabody Sage Creek Mine
29515 Routt County Road 27
Oak Creek, CO. 80467

July 30, 2020

Ms. Tabettha Lynch
Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203-2273

RE: Sage Creek Mine; C-2009-087: Permit Renewal No. 2 (RN2) Adequacy Review Response

Dear Ms. Lynch,
Peabody Sage Creek Mining, LLC (PSCM) has reviewed the adequacy review regarding RN2 and is providing the following responses:

2.03.4 Identification of Interests

1. Please review ownership and control information provided in Section 2.03.4(3) of the permit and provide any necessary updates. Please update any ownership and controls information that may have changed during the process of this renewal.
 - a. PSCM has provided updated permit text updating Section 2.03.4(3). Pages 2.03.10, 12, 14, 16, 20 & 21 have been updated and are provided with this submittal.
2. Please review Surface Ownership Map. If any updates have occurred, please provide the information required by Rule 2.03.4(6)(a) for these entities/persons. Please insure that any entity/person that is listed in this section of the permit has their property correctly depicted and labeled on the associated map.
 - a. The ownership information has been updated and Map 2.03.4-M1 has been updated and provided with this submittal.
3. Please review the Identification of Other Licenses and Permits listed in 2.03.10 of the PAP and update the list with any new licenses/permits obtained and update the status of any pending licenses or permits.
 - a. Page 2.03.11 has been revised to reflect changes in permits held by Peabody.
4. In accordance with Rule 2.03.12, please revise Exhibit 2.03.12-E1 by submitting a copy of the newspaper publication and affidavit of publication required by Rule 2.07.3(2) no later than four weeks after the last day of the publication.
 - a. The News Paper publication and affidavit of Publication for this renewal are included in this submittal, please include them in Exhibit 2.03.12-E1.

2.03.5 Compliance Information

5. Please update section 2.03.5(3) of the application to add or delete any information about violations received more than three years ago.
 - a. An updated list of violations received by Peabody over the last 3 years has been included in this submittal to update Exhibit 2.03.5-E1.



Peabody Sage Creek Mining, LLC

Peabody Sage Creek Mine
29515 Routt County Road 27
Oak Creek, CO. 80467

2.03.10 Other Licenses and Permits

6. Please review section 2.03.10 of the permit and revise the section if necessary, to document any new permits obtained or renewal/issuances of permits currently held.
 - a. No new permits have been applied for or received, no updates to section 2.03.10 are needed.

2.05.6(3)(a)(i), (iii), and (iv) – Protection of the Hydrologic Balance

7. Please review Annual Hydrology Reports and updated the probable hydrologic consequences for the site, including selenium data not previously included into the permit.
 - a. Page 2.05-96 and additional page 2.05-96.1 have been edited and updated to provide information regarding additional work performed to document information relative to the NPDES permit and water quality in the area.

3.03.2; Determination of the Bond Amount

8. The Division has updated the reclamation cost estimate for the site. The reclamation cost estimate enclosed with this letter takes into account all approved revisions to date. Please provide the Division any comments or additions that should be included into this estimate.
 - a. No Comments.

If you have any questions or need additional information, please feel free to contact me.

Sincerely,

Miranda Kawcak

Miranda Kawcak
Environmental Manager
Peabody, Colorado Operations

Enclosures:

1. *Pages 2.03.10, 12, 14, 16, 20, & 21 Permit Text updates*
2. *Map 2.03.4-M1 Surface Ownership*
3. *Exhibit 2.03.12-E1 Public Notice*
4. *Exhibit 2.03.5-E1 Company 3-Years Violation History*
5. *Exhibit 2.03.5-E3 Officer information*
6. *Pages 2.05-96 & 96.1 PHC Text Updates*

(4) Current, Previous, and Pending Coal Mining Permits Held by Peabody Investments Corporation.

Current, previous, and pending mining permits obtained by PSCM's principal and previous owner (Peabody Investment Corporation) are listed in **Exhibit 2.03.4-E4**, Current, Previous, and Pending Coal Mining Permits held by Peabody Investment Corporation.

Names under which Peabody Investments Corporation or its principal shareholders have operated a coal mining operation in the last five or more years include:

American Land Development, LLC	Peabody Gateway North Mining, LLC
American Land Holdings of Colorado, LLC	Peabody Holding Company, LLC
American Land Holdings of Illinois, LLC	Peabody Midwest Mining, LLC
Big Sky Coal Company	Peabody Midwest Operations, LLC
Conservancy Resources LLC	Peabody Natural Resources Company
Cyprus Creek Land Company	Peabody Powder River Mining, LLC
Dyson Creek Coal Company, LLC	Peabody Powder River Operations, LLC
Hayden Gulch Terminal, LLC	Peabody Sage Creek Mining, LLC
Hillside Recreational Lands, LLC	Peabody Southeast Mining, LLC
Midwest Coal Acquisition Corp.	Peabody School Creek Mining, LLC
Moffat County Mining, LLC	Peabody Western Coal Company
Peabody America Inc.	Prairie State Energy Campus Management, Inc.
Peabody Arclar Mining, LLC	Prairie State Generating Company, LLC
Peabody Caballo Mining, LLC	Riverview Terminal Company
Peabody Colorado Operations, LLC	Seneca Coal Company, LLC
Peabody Coulterville Mining, LLC	Shoshone Coal Corporation
Peabody Electricity, LLC	Thoroughbred Mining Co., LLC
Peabody Energy	Twentymile Coal, LLC
	United Minerals Company, LLC

(5) Changes or Revisions to Permit Application prior to Permit Issuance

PSCM will update, correct, or indicate that no change has occurred in the information previously submitted under 2.03.4(1) through (4) prior to the issuance of the permit.

(6)(a) Legal or Equitable Owners of Record within the Permit Boundary

The following lists the owners of record of the surface, coal, oil, and gas, and other minerals within the permit area of the PSCM permit boundary. **Map 2.03.4-M1**, Surface Ownership, **Map 2.03.4-M2**, Coal Ownership, and **Map 2.03.4-M3**, Oil, Gas, and Other Minerals Ownership, depict the areas associated with these ownerships. **Exhibit 2.03.4-E5**, Legal or Equitable Owners of Record – Names and Addresses, provides an alphabetical listing of the owners and their addresses.

Surface Ownership:

Permit Area (Refer to **Map 2.03.4-M1**, Surface Ownership)

20 Mile Sheep, LLC
Bureau of Land Management
Camilletti and Sons
Chance Revocable Living Trust
Cross Mountain Ranch Limited Partnership
Diamond T Sheep LLC
Ghost Ranch, LLC
Hallenbeck, Dennis A. and Laurie L.
Public Service Company of Colorado
Routt County, Colorado
Sage Creek Holdings, LLC
Sage Creek Land and Reserves, LLC
State of Colorado
Wilton Earle and Sons
Zulian, Donald D. and Beverly J. Revocable Trusts

Easements (*surface area for portal and facilities*)

Yampa Valley Electric Association, Inc.

(6)(c) Purchaser of Record under a Real Estate Contract

Not Applicable

(7) Owners of Surface, Coal, Oil and Gas Rights Contiguous to the Permit Area

The following lists the owners of record of the surface, coal, oil and gas within one-half mile of the PSCM permit area.

Surface Ownership within One-Half Mile of the Permit Area:

20 Mile Sheep LLC
Baker, Rusty and Jessica
Bureau of Land Management
Camelletti & Sons, INC
Carroll Family Land LLLP
Chance Revocable Living Trust
Cross Mountain Ranch Limited Partnership
Diamond T. Sheep, LLC
Ghost Ranch, LLC
Hallenbeck, Dennis A. and Laurie L.
Huber, Patricia P
Layne, Larry and Elise
Metcalf, Susan & S.C. & S. Metcalfe
OP Adventure Properties LP
Public Service of Colorado
Routt County, Colorado
Sage Creek Holdings, LLC
Sage Creek Land and Reserves, LLC
State of Colorado
Walters, Michael and Gloria
West, Kieth
Wilt, Leroy M. and Linda E.
Zulian, Donald D. and Beverly J. Revocable Trusts

Coal Ownership within One-Half Mile of the Permit Area

Bureau of Land Management	NRC-CO-1, LLC
Bounds, Jewel et al	Roten, Peggy C. et al
Brueggen, Bernard et al	Sage Creek Holdings, LLC
Hayden Gulch Terminal, Inc	Sage Creek Land and Reserves, LLC
Funk, David J. et al	State of Colorado
Maneotis Sheep Company	Tuttle, Frances C. et al

Oil, Gas, and Other Minerals Ownership within One-Half Mile of the Permit Area

T5N, R87W (all west of the 6th Principal Meridian)

Section 1	W $\frac{1}{2}$ and portions of the E $\frac{1}{2}$
Section 2	All
Section 3	All
Section 4	All
Section 5	E $\frac{1}{2}$ E $\frac{1}{2}$
Section 8	E $\frac{1}{2}$ E $\frac{1}{2}$
Section 9	All
Section 10	All
Section 11	All
Section 12	S $\frac{1}{2}$, portions of the NW $\frac{1}{4}$ and portions of the S $\frac{1}{2}$ NE $\frac{1}{4}$
Section 13	N $\frac{1}{2}$
Section 14	All
Section 15	All
Section 16	NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$, portions of the NW $\frac{1}{4}$ SE $\frac{1}{4}$ and portions of the NW $\frac{1}{4}$
Section 21	E $\frac{1}{2}$
Section 22	N $\frac{1}{2}$ and the W $\frac{1}{2}$ SW $\frac{1}{4}$

Containing approximately 10,163.7 acres

2.03.5 (1-3) Compliance Information

(1)(a) Statement of Nonrevocation of Permit

PSCM or the principal shareholders have not had a State or Federal mining permit revoked in the last five years.

(1)(b) Statement of Bond Forfeiture

PSCM or its principal shareholders have not forfeited a mining bond or similar security deposit in lieu of a bond.

(2) Bond Forfeiture Explanation

Not applicable.

(3) List of Violations

Exhibit 2.03.5-E1, Compliance Information for Peabody Investments Corporation, lists the Notice of Violations received by PSCM's parent company in connection with any mining operation during a three-year period prior to July 1, 2020.

2.03.6 (1-3) Right of Entry and Operation Information

The following presents information concerning the lease agreements or property deeds to mine coal and rights-of-way agreements to enter the mine area. This information describes the legal rights under which the applicant is permitted to enter and begin surface mining activities. They further specifically identify the type and date of execution, specific lands to which each document pertains, and explain the legal rights claimed by the applicant. None of the rights acquired under any of these documents is the subject of pending litigation.

Federal: Mine Safety and Health Administration (MSHA)
Mine I.D. Number – 05-04952
P.O. Box 25367
Denver, Colorado 80225

U.S. Environmental Protection Agency (EPA)
NPDES (*see Colorado Department of Health*)

U.S.D.I. Office of Surface Mining
Reclamation and Enforcement (OSMRE)
PO Box 25065
Denver, CO 80225-0065
Federal Mine Plan Permit: N/A
Expires:

Federal Communications Commission (FCC)
Gettysburg, PA 17325-7245
Radio Licenses
Call Sign - Pending
File No. - Pending
Expires:

US Army Corps of Engineers
Colorado West Regulatory Branch
400 Rood Ave, Room 142
Grand Junction, Colorado 81501-2563
Permit: 06/13/13 USACE approval for wetland enhancement activities under
Nationwide Permit No. 27 - Aquatic Habitat Restoration, Establishment, and
Enhancement Activities

State: Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, Colorado 80203
Mining and Reclamation Permit No. - C-2009-087
Expires: August 20, 2020 (Renewal application Pending)

Colorado Department of Public Health and Environment
Air Pollution Control Division
4300 Cherry Creek Drive South
Denver, CO 80246-1530
Air Quality Permit No, 10RO1175F issued 01/12/11 (Life of Mine), MOD1
approved 09/04/12. With temporary cessation, notices were submitted to set
emissions to zero for several inactive emissions points

Colorado Department of Public Health and Environment
Department 400
4300 Cherry Creek Drive South
Denver, CO 80222-1530
NPDES Permit No. – CO-0048275
Permit renewal issued 11/16/15, MOD1 approved 05/23/16, MOD2 approved 10/31/17, several provisions of the permit renewal are the subject of a legal challenge, Renewal Pending.
Expires: 12/31/20

Local: Routt County Planning Commission
136 6th Street, Suite 200
Steamboat Springs, CO 80487
Special Use Permit No. PL-15-1064 (Mining), approved 02/09/16
Expires: February 09, 2026

Routt County Planning Commission
136 6th Street, Suite 200
Steamboat Springs, CO 80487
Special Use Permit No. PL-15-1049 (Coal Haulage), approved 02/09/16, amendment approved by Commissioners 11/22/16
Road Maintenance Cost Share Agreement
Expires: February 09, 2026

2.03.11 Identification of Location of Public Office for Filing of Application

The PSCM permit is on file and available for public review at the:

Peabody Sage Creek Mining, LLC
Foidel Creek Mine
29515 Routt County Road #27
Oak Creek, CO 80467

Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, Colorado 80203

Applications for revisions, renewals, etc. are available at the Foidel Creek Mine at the location noted above, during the required public review time periods.

2.03.12 Newspaper Advertisement and Proof of Publication

A copy of the proposed public notice newspaper advertisement is presented below as **Figure 2.03.12-F1**. The proof of the publication of the public notice newspaper advertisement will be filed with CDRMS no later than four weeks after the last date of the publication required under Section 2.07.3(2) and can be inserted in **Exhibit 2.03.12-E1**, Public Notice and Proof of Publication.

PUBLIC NOTICE

Peabody Sage Creek Mining, LLC (PSCM), 29515 Routt County Road 27, Oak Creek, Colorado 80467, has submitted an application for renewal (RN02) of the existing active Mining Permit (Permit Number C-2009-087) for the Peabody Sage Creek Mine.

The mine permit area encompasses approximately 10,164 acres and is located approximately 9 miles southeast of Hayden, CO on Routt County Road (RCR) 27. Mine offices and major surface facilities are located near the end of RCR 27A. The Mine Permit Area includes portions of RCR 27 and RCR 51D, although mining and related activities may only occur in approved portions of the permit area as specified in the approved Mining Permit.

The mine permit area is covered by the Milner, Mount Harris, and Dunkley USGS 7.5 minute quadrangle maps, and includes all or portions of Sections 27 through 29, and Sections 32 through 36 T6N, R87W. The permit area also includes all or portions of Sections 1 through 5, 8 through 12, 13 through 16, and 21 through 22 T5N, R87W. The ownership, precise location, and boundaries of lands within the Permit are identified in Section 2.03 and Map 2.03.4-M1 of the Mine Permit Application Package (PAP), and are included in this public notice by reference.


Copies of the PAP (less confidential materials) are available for inspection at the Foidel Creek Mine office (address above) and the office of the Colorado Division of Reclamation, Mining, and Safety.

Written comments or objections to the Permit renewal application; a request for informal conference summarizing the requestor's issue(s) and indicating whether or not the requestor desires the conference to be held in the mine locale; or a request for a public hearing (held in the mine locale) to determine whether the interests of the public and affected landowners will be protected (re: proximity of mining operations to public roads) should be submitted to the State of Colorado, Division of Reclamation, Mining, and Safety, 1313 Sherman Street, Room 215, Denver, Colorado 80203-2273 within thirty days of the last date of publication of this notice.

Ad #: 0000559288-01
Customer: TWENTYMILE COAL, LLC,
Your account number is: 910010332

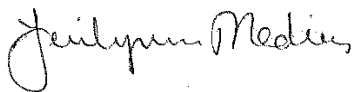
PROOF OF PUBLICATION
STEAMBOAT PILOT & TODAY
STATE OF COLORADO
COUNTY OF ROUTT

I, Meg Boyer, do solemnly swear that I am Associate General Manager of the STEAMBOAT PILOT & TODAY, that the same daily newspaper printed, in whole or in part and published in the County of Routt, State of Colorado, and has a general circulation therein; that said newspaper has been published continuously and uninterruptedly in said County of Routt for a period of more than fifty-two consecutive weeks next prior to the first publication of the annexed legal notice or advertisement; that said newspaper has been admitted to the United States mails as a periodical under the provisions of the Act of March 3, 1879, or any amendments thereof, and that said newspaper is a daily newspaper duly qualified for publishing legal notices and advertisements within the meaning of the laws of the State of Colorado.
That the annexed legal notice or advertisement was published in the regular and entire issue of every number of said daily newspaper for the period of 4 insertions; and that the first publication of said notice was in the issue of said newspaper dated 3/1/2020 and that the last publication of said notice was dated 3/22/2020 in the issue of said newspaper.
In witness whereof, I have here unto set my hand this day, 3/23/2020.

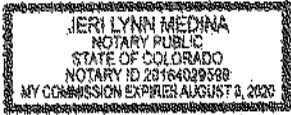


Meg Boyer, Associate General Manager

Subscribed and sworn to before me, a notary public in and for the County of Routt, State of Colorado this day 3/23/2020.



Jerilyn Medina, Notary Public
My Commission Expires: August 3, 2020



PUBLIC NOTICE
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The mine permit area is covered by the Milner, Mount Harris, and Dunckley USGS 7.5 minute quadrangle maps, and includes all or portions of Sections 27 through 29, and Sections 32 through 36 T6N, R87W. The permit area also includes all or portions of Sections 1 through 5, 8 through 12, 13 through 16, and 21 through 22 T5N, R87W. The ownership, precise location, and boundaries of lands within the Permit are identified in Section 2.03 and Map 2.03.4-M1 of the Mine Permit Application Package (PAP), and are included in this public notice by reference.

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Written comments or objections to the Permit renewal application; a request for informal conference summarizing the requestor's issue(s) and indicating whether or not the requestor desires the conference to be held in the mine locale; or a request for a public hearing (held in the mine locale) to determine whether the interests of the public and affected landowners will be protected (re: proximity of mining operations to public roads) should be submitted to the State of Colorado, Division of Reclamation, Mining, and Safety, 1313 Sherman Street, Room 215, Denver, Colorado 80203-2273 within thirty days of the last date of publication of this notice.

Published in the Steamboat Pilot & Today on March 1st, 8th, 15th, and 22nd. of 2020.0000559288



Peabody Energy Corporation: NOV Report

For NOVs Issued Between Start Date 01/01/2017 and End Date 12/31/2020

Mine MSHA ID Kayenta Mine 02-01195

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
AZ-0001E	Arizona	Navajo	Active	C17-020-545-001	U.S. Office of Surface Mining	1	PWCC has failed to conduct maintenance at the KM-A3 sediment pond, despite continued request by OSMRE. OSMRE identified the following discrepancies during a partial inspection conducted on June 6, 2016: a) PWCC has failed to perform maintenance at the KM-A3 pond to ensure it can function as designed. Observations during OSMREs October aerial inspection confirmed that PWCC had not begun clean-out/maintenance of the KM-A3 pond.	1. Provide OSMRE with a plan for disposal of KM-A3s coal mine waste material. 2.Upon OSMRE approval, perform pond clean-out of coal mine waste/ sediment. 3. Replace the 36in CMP with the 48in CMP as required for in the certified as-build design of the KM-A3 pond. NOTE: Fines that would typically be assessed as a result of this action may be held in abeyance until the resolution of any pending bankruptcy action.	0	Vacated	9/28/2017	Peabody Western Coal Company	None	



Peabody Energy Corporation: NOV Report

For NOVs Issued Between Start Date 01/01/2017 and End Date 12/31/2020

Mine MSHA ID Kayenta Mine 02-01195

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
AZ-0001E	Arizona	Navajo	Active	C17-020-545-002	U.S. Office of Surface Mining	1	PWCC does not have an approved/applicable plan that outlines how the Kayenta Coal Mine will handle 1) coal mine waste and 2) non-coal waste. As a result, PWCC does not have an approved location for storage of either of the aforementioned waste products nor has PWCC ensured the aforementioned is depicted on appropriate map documentation. Additionally, PWCC currently has very vague language in their permit that discusses what temporary storage areas are . A permit revision will need to be submitted to remedy.	Noncoal Waste1) PWCC must submit a permit revision for OSMREs approval to include details for how noncoal waste will be stored and disposed of. 2) PWCC must submit map documentation for OSMREs approval that depicts the proposed storage areas and disposal areas. 3)PWCC must remove the non-coal waste referenced in OSMREs July 2016, beneath subheading HOMESTEAD AREA (36 24' 06.00 N , 110 17' 60.00 W) and ensure all future storage and/or disposal is carried out in accordance with provisions of the permit.	0	Vacated	9/28/2017	Peabody Western Coal Company	None	



Peabody Energy Corporation: NOV Report

For NOVs Issued Between Start Date 01/01/2017 and End Date 12/31/2020

Mine MSHA ID Kayenta Mine 02-01195

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
AZ-0001E	Arizona	Navajo	Active	N17-020-545-001	U.S. Office of Surface Mining	1	Part 1 of 2: PWCC has failed to ensure 1) sediment pond/impoundments have been constructed and/or maintained as designed 2) accurate information has been provided to the regulatory authority regarding certifications that impoundments have been constructed and/or maintained as designed. Site conditions observed during recent inspections do not represent what PWCC has provided OSMRE (i.e. pond certification reports/certified as-builds). The pond certification report fails to include all of the required info	1. Repair pond inlets with approved designs at J-28 G pond, N-10 81 and N-11 Pond. 2. Repair emergency spillways at N-11 ponds. 3. Ensure N-11 ponds are constructed according to approved designs and submit final as-built to OSMRE. 4. Ensure KM-A3 pond has been constructed according to approved designs and submit final as-built to OSMRE. 5. Repair N10 B1 pond inlets according to pond inlet designs. Submit final as built to OSMRE. 6. Upon completion of repairs, re-submit pond certification to reg. auth.	0	Terminated	5/19/2017	Peabody Western Coal Company	None	



Peabody Energy Corporation: NOV Report

For NOVs Issued Between Start Date 01/01/2017 and End Date 12/31/2020

Mine MSHA ID Kayenta Mine 02-01195

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
AZ-0001E	Arizona	Navajo	Active	N17-020-545-001	U.S. Office of Surface Mining	2	Part 2 of 2: Failure to ensure sediment control measures have been designed, constructed and maintained to minimize erosion. Inspection of the N-11 drainage revealed that there has been a complete failure of this drainage. The scoria material that was used as riprap has blown out, gabion baskets have failed, and there are areas where down cutting is estimated to be 20ft deep. OSMRE notes that no work has been conducted on this drainage since the erosion occurred.	1. Install sediment control BMPs in this area to provide relief from surface runoff until a permanent repair can be completed. Provide OSMRE with the location and type of BMPs that have been selected as well as photo documentation of installation. 2. Submit drainage design plans for OSMRE approval. 3. Upon OSMRE approval, complete repair of the drainage. 4. Submit as built for final construction of drainage to OSMRE.	0	Terminated	5/19/2017	Peabody Western Coal Company	None	

Mine MSHA ID Gateway Mine 11-02408

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
IL0062189	Illinois	Randolph	Active	W-2017-5005	Illinois - EPA Division of Water Pollution Control	1	Deposited Contaminants Deposited contaminants on the ground in form of red staining at NPDES Outfall 008	Cease and desist from depositing contaminants	\$42,500	Terminated	7/26/2017	Peabody Coulterville Mining, LLC		



Peabody Energy Corporation: NOV Report

For NOVs Issued Between Start Date 01/01/2017 and End Date 12/31/2020

Mine Gateway Mine
MSHA ID 11-02408

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
IL0062189	Illinois	Randolph	Active	W-2017-5005	Illinois - EPA Division of Water Pollution Control	2	Discharge of Contaminants Apparent Non Compliant Discharge at NPDES Outfall 008 where Red Staining was observed during ILEPA Inspection 8/19/16.	Cease and Desist from discharging contaminants	0	Terminated	7/26/2017	Peabody Coulterville Mining, LLC		
						3	Failure to Comply with Good Mining Practices Failed to retain and control within the site waters exposed to disturbed materials.	Review and evaluate operational procedures to correct deficiencies which caused the violation.	0	Terminated	7/26/2017	Peabody Coulterville Mining, LLC		
						4	Failure to Comply with NPDES Permit Failure to comply with Special Condition 13 and standard condition 12 (f) of NPDES Permit #IL0062189	Establish and implement procedures to assure compliance with the monitoring, sampling, recording and reporting requirements in the NPDES Permit	0	Terminated	7/26/2017	Peabody Coulterville Mining, LLC		
						5	Offensive Conditions Waters of the State shall be free from color or turbidity of other than natural origin.	Review and evaluate operational procedures to correct deficiencies which caused the violation.	0	Terminated	7/26/2017	Peabody Coulterville Mining, LLC		
						6	Offensive Discharge Apparent Discharge caused a violation of water quality standards.	Review and evaluate operational procedures to correct deficiencies which caused the violation.	0	Terminated	7/26/2017	Peabody Coulterville Mining, LLC		



Peabody Energy Corporation: NOV Report

For NOVs Issued Between Start Date 01/01/2017 and End Date 12/31/2020

Mine MSHA ID Rocky Branch Mine 11-03017

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
428	Illinois	Saline Co. Illinois	Active	49-01-17	Illinois Department of Natural Resources	1	Failure to control air blast	demonstrate compliance on five subsequent blasts following the blast conducted 12/30/16	\$970	Terminated	5/4/2017	Peabody Arclar Mining, LLC	None	

Mine MSHA ID Bear Run Mine 12-02422

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
S-00256	Indiana	Sullivan	Active	N90213-S-256	Indiana Department of Natural Resources	1	Failure to prevent discharge from all NPDES discharge locations in excess of 70mg/liter for the parameter of total suspended solids (TSS).	Cease discharge of water that exceeds the maximum dailiy allowance for TSS.	\$2,200	Terminated	2/18/2019	Peabody Midwest Mining, LLC	None	



Peabody Energy Corporation: NOV Report

For NOVs Issued Between Start Date 01/01/2017 and End Date 12/31/2020

Mine MSHA ID Francisco Mine, Underground 12-02295

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
U-00023	Indiana	Gibson	Active	N80124-U-023	Indiana Department of Natural Resources	1	Failure to mine according to the approved plan as outlined in the findings document with Amendment #3, Permit #U-023-3, General Permit Requirements (Conditions) #4 and #5.	1) Complete exploratory drilling in down-dip portion of Francisco #1 Abandoned Works. Install piezometer within abandoned works. Conduct measurement and report depth of water level in the piezometer and report to IDOR. 2) Provide MSHA District 8 written notification that no Indiana Coal V extraction will be conducted closer than 300 feet of the Francisco #1 abandoned works.	0	Terminated	3/26/2018	Peabody Midwest Mining, LLC	None	



Peabody Energy Corporation: NOV Report

For NOVs Issued Between Start Date 01/01/2017 and End Date 12/31/2020

Mine
MSHA ID

Somerville South Mine
12-02258

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
S-00335	Indiana	Gibson	Active	N80914-S-335	Indiana Department of Natural Resources	1	Failure to monitor surface water stream point 1SW-10 according to the approved compliance water monitoring plan.	Establish ongoing monitoring for stream site location 1SW-10 as described in Part VI.2.a of the S-335-3 Permit	0	Terminated	9/27/2018	Peabody Midwest Mining, LLC	None	
				N81022-S-335	Indiana Department of Natural Resources	1	Failure to conduct blasting operations so that the maximum airblast limit of 133dB I snot exceeded at a dwelling, public building, school, church or community or institutional building.	Conduct blasting operations in accordance with the regulations and the approved permit. Conduct blasting operations so that the maximum airblast limit of 133dB is not exceeded at a dwelling.	0	Terminated	10/23/2018	Peabody Midwest Mining, LLC	None	
				N90625-S-335	Indiana Department of Natural Resources	1	Failure to submit as-built certifications for the designed impoundment SB072.	Design and reconstruct pond so as to prevent short-circuiting and/or overtopping. Submit and receive approval for the as-built certficxation of Imoundment SB072 (NPDES outfall 072)	0	Terminated	7/23/2019	Peabody Midwest Mining, LLC	None	



Peabody Energy Corporation: NOV Report

For NOVs Issued Between Start Date 01/01/2017 and End Date 12/31/2020

Mine MSHA ID West 61 Mine

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
S-00361	Indiana	warrick	Active	N00312-S-361	Indiana Department of Natural Resources	1	Failure to stabilize and protect exposed topsoil from wind and water erosion.	Repair erosion, Seed and mulch the area	0	Active	4/12/2020	United Minerals Company, LLC	None	
				N70621-S-361	Indiana Department of Natural Resources	1	Failure to obtain approval for a sediment control structure prior to its construction.	Submit and have approved the sediment basin designs for SB 006	0	Terminated	6/22/2017	United Minerals Company, LLC	None	



Peabody Energy Corporation: NOV Report

For NOVs Issued Between Start Date 01/01/2017 and End Date 12/31/2020

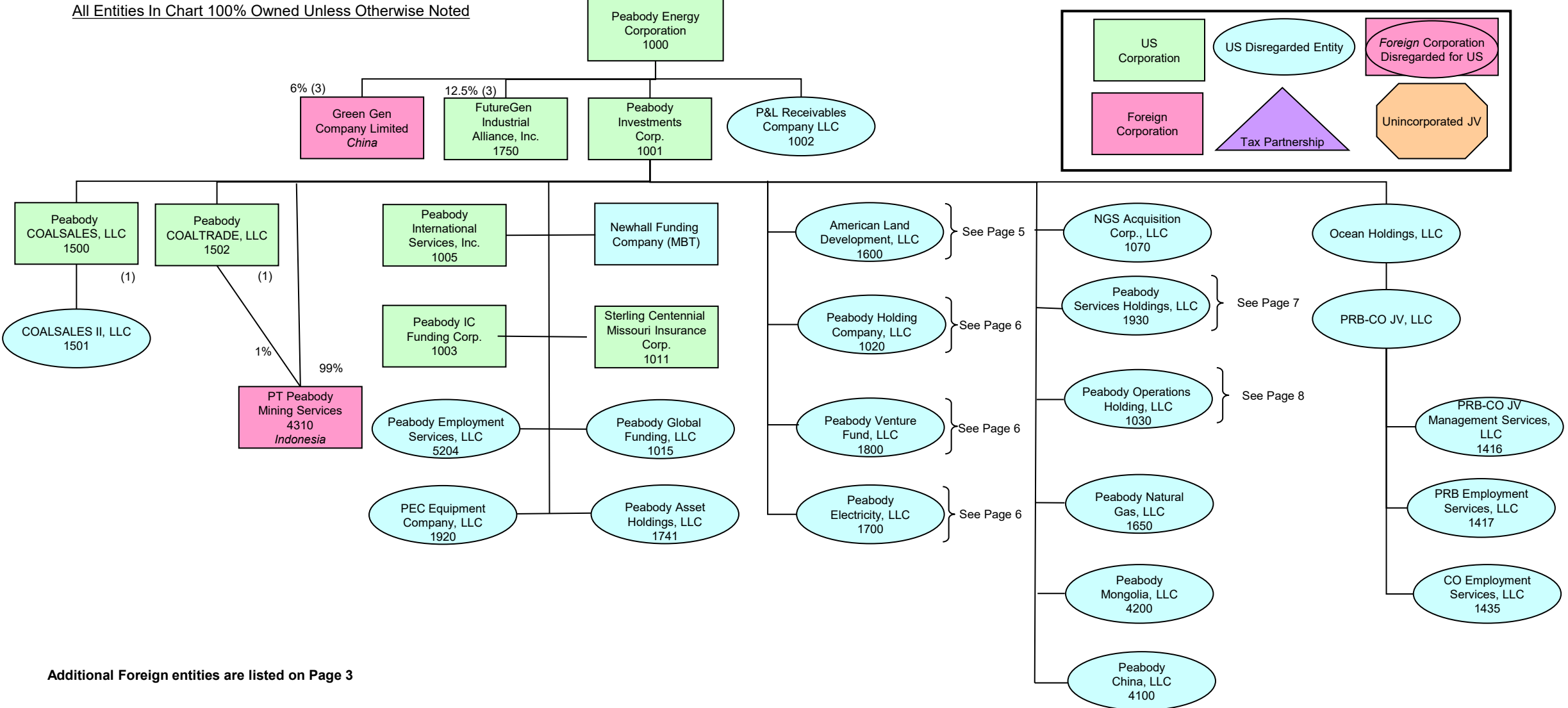
Mine MSHA ID North Antelope Rochelle Mine 48-01353

Permit	State	County	Mine Status	NOV	Issuing Agency	Sub parts	Violation Description	Remedial Action	Penalty (\$US)	NOV Status	As of	Permittee	Administrative Proceeding	Pattern
569-T8	Wyoming	Campbe ll	Active	5881-18	Wyoming DEQ - Land Quality Division	1	On October 1, 2018 NARM initiated a cast blast that resulted in a citizen's complaint to the Administrator of the Wyoming DEQ LQD. The citizen's complaint stems from blasting emissions observed in the vicinity of the Town of Wright, WY. As a result of citizen complaints, the Wyoming DEQ LQD issued a violation.	1. Submit a plan that will be used in the future to prevent fugitive emissions(NOx) from blasts impacting workforce and the public both on and off permit by Nov 20, 2018. 2. Submit a permit revision that incoporates the operational controls used for preventing fugitive emissions (NOx fumes) from blasts impacting workforce and the public into the permit blasting plan by Dec 6, 2018. LQD will need to review and approve the operational control plans before they are submitted as a permit revision.	0	Active	10/31/2018	Peabody Powder River Mining, LLC		

Peabody Energy Corporation
Organizational Chart – June 22, 2020



All Entities In Chart 100% Owned Unless Otherwise Noted

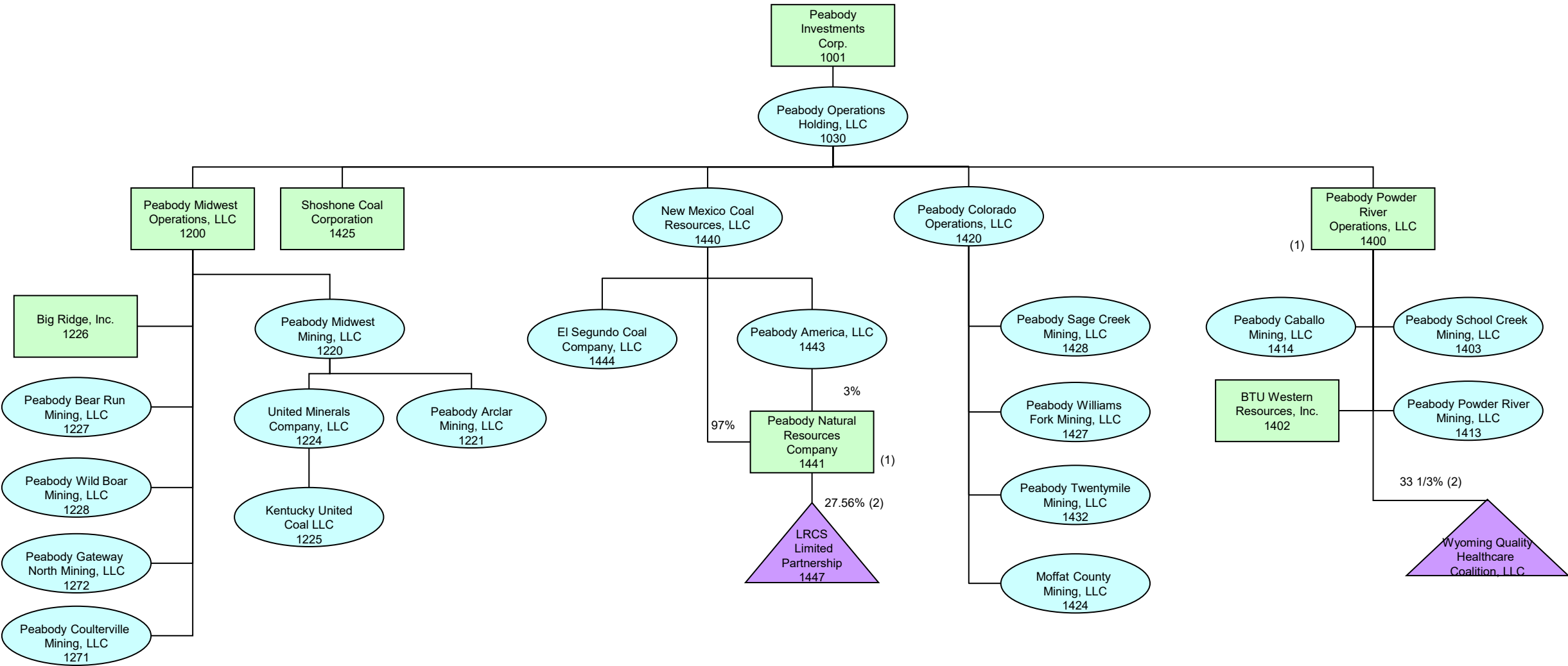


Additional Foreign entities are listed on Page 3

(1) These entities have "checked the box" to be treated as a corporation for income tax purposes.
(3) Remaining interests in this entity owned by independent third party.

Peabody Operations Holding, LLC

Organizational Chart – June 22, 2020



(1) These entities have “checked the box” to be treated as a corporation for income tax purposes.
 (2) Remaining interests in this entity owned by independent third party.

Peabody Sage Creek Mining, LLC			
Address		701 Market Street St. Louis, MO 63101	
FEIN #:		26-3730653	
Officers/Directors/Management			
Name	Title	Term Started	End Term
Baltz, Eric J.	Treasurer	10/13/2015	
Jarboe, Scott T.	Secretary	03/01/2018	02/03/2020
Scimio, Mark A.	President	10/13/2015	04/30/2020
West, Bryce G.	President	04/30/2020	
Wittenauer, Christopher W.	Assistant Secretary	03/01/2018	2/3/2020
Wittenauer, Christopher W.	Secretary	02/03/2020	

Update

Peabody Colorado Operations, LLC			
Address		701 Market Street St. Louis, MO 63101	
FEIN #:		20-2561644	
Officers/Directors/Management			
Name	Title	Term Started	End Term
Bruer, Robert F.	Vice President	10/13/2015	
Sollars, Patrick K.	President	02/03/2020	
Jarboe, Scott T.	Secretary	03/01/2018	02/03/2020
Jarboe, Scott T.	Assistant Secretary	02/03/2020	
Lutkewitte, Joseph F.	Assistant Treasurer	09/11/2017	
Marchino, James	Vice President of Finance - Americas	10/13/2015	02/03/2020
Schulte, Daniel	Assistant Treasurer	09/11/2017	02/03/2020
Sollars, Patrick K.	Vice President	09/10/2012	02/03/2020
Tichenor, James A.	Vice President and Treasurer	09/10/2012	
Wagner, Paul M.	Vice President	10/13/2015	02/03/2020
Waller, Eric R	Secretary	02/03/2020	

Update
Discrepancy

Peabody Operations Holding, LLC			
Address		701 Market Street, St. Louis, MO, 63101	
FEIN #:		26-3723890	
Officers/Directors/Management			
Name	Title	Term Started	End Term
Bruer, Robert F.	Vice President	10/13/2015	
Hall, William R.	President	02/03/2020	
Jarboe, Scott T.	Secretary	03/01/2018	02/03/2020
Jarboe, Scott T.	Assistant Secretary	02/03/2020	
Lutkewitte, Joseph F.	Assistant Treasurer	09/11/2017	
Marchino, James	Vice President of Finance - Americas	10/13/2015	02/03/2020
Schulte, Daniel	Assistant Treasurer	09/11/2017	02/03/2020
Tichenor, James A.	Vice President and Treasurer	09/10/2012	
Wagner, Paul M.	Vice President	10/13/2015	02/03/2020
Waller, Eric R.	Secretary	02/03/2020	
Williamson, Kemal	President	10/13/2015	02/03/2020

Update

Peabody Energy Corporation				Update
Address 701 Market Street, St. Louis, MO, 63101				Discrepancy
FEIN #: 13-4004153				
Officers/Directors/Management				
Name	Title	Term Started	End Term	
Algaze, Samantha	Director	2/20/2020		
Bertone, Andrea	Director	02/21/2019		
Bruer, Robert F.	Vice President, Tax Planning and Compliance	07/01/2015		
Capdebosq, Allen A.	Senior Vice President Contract Management and Marketing Support	05/10/2018	05/07/2020	
Chirekos, Nicholas J.	Director	04/03/2017		
Flannigan, Michael J.	Senior Vice President, Global Government Affairs	05/05/2015		
Forkin III, Patrick J.	Senior Vice President, Corporate Development	05/10/2018		
Galli, Bryan A.	Group Executive & Chief Marketing Officer	07/01/2015		
Gorman, Stephen E.	Director	04/03/2017		
Jarboe, Scott T.	Chief Legal Officer & Corporate Secretary	03/06/2020		
Kellow, Glenn L.	Director	01/22/2015		
Kellow, Glenn L.	President & Chief Executive Officer	05/04/2015		
Laymon, Joe W.	Director	04/03/2017		
Madden, Teresa S.	Director	04/03/2017		
Malone, Robert A.	Director	07/23/2009		
Malone, Robert A.	Chairman	01/01/2016		
Meintjes, Charles F.	Executive Vice President & Chief Operating Officer	07/09/2019		
David Miller	Director	02/02/2020		
Moore, Kenneth W.	Director	04/03/2017		
Hathhorn, Marc E.	President- Australia Operations	08/07/2019		
Richard, Paul V.	Senior Vice President & Chief Human Resource Officer	11/27/2017		
Schulte, Daniel L.	Assistant Treasurer Capital Markets	05/09/2019		
Siebers, Michael L.	Senior Vice President, Sales and Marketing- Americas	05/10/2018		
Spurbeck, Mark A.	Senior Vice President, Interim Chief Financial Officer, Principal Financial Officer and Principal Accounting Officer	01/06/2020		
Sutherlin, Michael W.	Director	01/22/2014		
Tichenor, James	Vice President and Treasurer	07/17/2012		
Williamson, Kemal	President - U.S. Operations	11/15/2012		
Yeates, Darren	Director	02/20/2020		
Young, Lina A.	Senior Vice President & Chief Information Officer/ Peabody Business Services	5/10/2018		

Peabody Investments Corp.			
Address		701 Market Street, St. Louis, MO, 63101	
FEIN #:		20-0480084	
Officers/Directors/Management			
Name	Title	Term Started	End Term
Baltz, Eric J.	Vice President - Financial and Capital Planning	05/15/2015	
Bettis, Brent A.	Vice President CISO & Technology Architecture	03/01/2019	
Bruer, Robert F.	Vice President, Tax Planning & Compliance	03/01/2019	
Capdeboscq, Allen T.	Senior Vice President - Contract Management & Marketing Support	03/01/2019	
Constantine, Michelle E.	Vice President Corporate Communications	03/01/2019	
Dorch, A. Verona	Executive Vice President, Chief Legal Officer, Government Affairs and Corporate Secretary	08/18/2015	03/06/2020
Flannigan, Michael J.	Senior Vice President, Global Government Affairs	05/15/2015	
Forkin, Patrick J.	Senior Vice President Corporate Development	03/01/2019	
Galli, Bryan A.	Group Executive & Chief Marketing Officer	03/01/2019	
Hall, William R.	Acting Senior Vice President- Western Surface Operations	09/01/2019	
Hathhorn, Marc E.	President-Australia	08/07/2019	
Heaton, Darral G.	Vice President - Human Resources	03/01/2019	
Jarboe, Scott T.	Senior Vice President & General Counsel - Corporate and Assistant Secretary	03/01/2019	
Kacich, Gary T.	Vice President Internal Audit	12/01/2016	
Kellow, Glenn L.	President & Chief Executive Officer	05/15/2015	
Kim, Chino	Vice President Peabody Business Services	08/18/2015	
Krutka, Holly	Vice President Coal Generation & Emissions Technology	03/01/2019	
Lutkewitte, Joseph F.	Senior Manager Treasury Operations & Assistant Treasurer	03/01/2019	
Maher, Jeffrey A.	Vice President Global Business Systems & IT Ops	03/01/2019	
Marchino, James	Vice President of Finance - Americas	08/27/2015	
Meintjes, Charles F.	Executive Vice President & Chief Operating Office	07/09/2019	
Nadolny, Julie A.	Director	01/14/2015	
Nadolny, Julie A.	Vice President - Total Rewards	05/15/2015	
Pedersen-Howard, Matthew J.	Vice President Global and Americas Safety & Health	03/01/2019	
Richard, Paul V.	Senior Vice President & Chief Human Resources Officer	03/01/2019	
Risner, Brandon K.	Acting Vice President Technical Services	09/15/2019	
Schulte, Daniel	Assistant Treasurer Capital Markets	03/01/2019	
Scimio, Mark A.	Vice President Land	08/18/2015	04/30/2020
Scott, Peggy A.	Vice President Corporate HR and Organizational Effectiveness	03/01/2019	
Shepherd, Raymond V.	Vice President & Senior Counsel Federal Government Relations	03/01/2019	
Siebers, Michael	Vice President Sales & Marketing Americas West	08/18/2015	
Spurbeck, Mark A.	Director	03/01/2019	
Spurbeck, Mark A.	Senior Vice President & Chief Accounting Officer	03/01/2019	
Svec, Victor P.	Senior Vice President Global Investor & Corporate Relations	09/16/2013	

Update
Discrepancies

Tharenos, Alice	Vice President Commercial Strategies	03/01/2019	
Tichenor, James A.	Vice President and Treasurer	09/10/2012	
Wagner, Paul M.	Vice President Supply Chain Management Americas	08/18/2015	
Walker, Christopher S.	Vice President Strategy & Global Energy Analytics	03/01/2019	
West, Bryce G.	Vice President Environmental Services - Americas	08/18/2015	
Williamson, Kemal	President - U.S. Operations	11/15/2012	
Wittenauer, Christopher W.	Vice President & General Counsel Americas and State Government Relations	03/01/2019	
Young, Lina	Senior Vice President & CIO/Peabody Business Services	08/18/2015	

RULE 2 - PERMITS

- Surface placement of coal (stockpiling)
- Operation of drainage and sediment control structures
- Discharge of mine water to surface drainages
- Discharge of mine-affected groundwater to alluvial aquifers
- Elimination of springs

Operational measures that will be implemented to mitigate these impacts are discussed below.

Areas both within and adjacent to the PSCM Permit Area were previously surface mined, have been reclaimed, and in most cases, have full or partial bond release. In general, contributions of suspended solids from these areas are similar to baseline conditions, however, spoil springs and outfalls receiving spoil groundwater contributions may continue to show elevated levels of dissolved solids and other constituents, above baseline conditions. Seasonal pulses of selenium above the 4.6 µg/L chronic aquatic life table value standard (TVS) have occurred at the PSCM outfalls. In 2012 the Water Quality Control Division (WQCD) issued PSCM a violation for the elevated selenium in the mine discharges. In response PSCM completed an extensive monitoring effort to evaluate the source and fate of selenium in these watersheds. Water quality and biologic monitoring were conducted in the receiving stream watersheds (Cow Camp Creek and Grassy Creek), as well as several adjacent watersheds. Biological surveys were completed to document fish and invertebrate populations and stream habitat quality and selenium tissue samples were collected to determine if aquatic species were adversely affected by the selenium discharges.

Findings, as described in the Comprehensive Technical Report dated February 28, 2014, indicate elevated selenium in the PSCM discharges occur seasonally, usually during the spring snowmelt season, and are related to spoil groundwater contributions from historic mining, not PSCM operational activities. Selenium is typically in compliance with the chronic aquatic life selenium TVS at the receiving stream points immediately downstream of the outfalls. Selenium was found to be naturally elevated in this region as a result of the natural weathering of underlying seleniferous marine shales, such as the Lewis Shale Formation which is known to be a source of selenium that can be mobilized in surface water and shallow groundwater systems (Frankenberger et al., 1998; Lemly and Smith, 1987). This is evident in Scotchmans Gulch which is a tributary to Lower Grassy Creek downstream of the PSCM. Scotchmans Gulch does not receive drainage from PSCM but flows through the Lewis Shale Formation. Selenium has periodically exceeded the chronic TVS in Lower Grassy Creek as a result of the high selenium drainage contributions from Scotchmans Gulch.

Results of the biologic surveys indicate that aquatic species, especially fish, are absent throughout Little Grassy Creek and the upper reaches of Cow Camp Creek. These drainages are ephemeral and the absence of aquatic species is a result of unsustained stream flow limiting available habitat, not selenium related effects from mine discharges. Fish are only present in the lowermost reach of Cow Camp Creek near its confluence with Fish Creek during the spring when water is present. Fish were present during the spring, summer, and fall in Grassy Creek downstream of the mine discharges. Selenium deformity rates are very low in these watersheds (< 0.2 percent) and are considered negligible based on the Lemely's teratogenic deformity index. Selenium tissue concentrations are generally low and are within the EPA recommended whole body tissue criterion (8.5 mg/kg) at the biologic monitoring points immediately downstream of the mine discharges. PSCM has taken steps to mitigate elevated selenium including the use of an integrated system of permanent ponds and enhanced wetlands to

RULE 2 - PERMITS

provide passive treatment. Ongoing monitoring has documented the effectiveness of these measures in mitigating elevated selenium levels.

In 2014 the Water Quality Control Commission (WQCC) granted a temporary modification of the chronic selenium TVS in both Cow Camp Creek and Grassy Creek to current conditions to allow PSCM to collect additional biologic and water quality data necessary to develop site-specific standards. In 2015 the WQCD incorporated new flow limits, compliance locations, and revised selenium limits into PSCM NPDES permit CO0048275. PSCM appealed portions of the permit including the application of flow limits for discharges that are the result of natural hydrologic processes and the implementation of water quality limits at locations prior to final treatment that do not acknowledge ambient concentrations. PSCM's appeal remains ongoing. Nevertheless, PSCM has continued to pursue the refinement of the flow limitations through continued collection of flow measurements at the outfalls and resolution of the appropriate selenium standards for the receiving streams during the pendency of its permit appeal. In 2017, the WQCC extended the selenium temporary modification for Grassy Creek to 12/31/2022 and the temporary modification to Cow Camp Creek to 12/31/2023 to allow for additional data collection. In May 2019 the WQCD incorporated the extension of the selenium temporary modification into permit CO0048275. In June of 2019, PSCM provided an update to the WQCC on the status of the temporary modifications during the Regulation #33 rulemaking hearing, at which time the WQCC determined it was appropriate to maintain the existing temporary modifications selenium.

In order to conserve available soil resources, vegetation and soil materials will be removed from all new mine disturbance areas prior to disturbance. While beneficial in terms of soil conservation and provision of a suitable growth medium to support final reclamation and revegetation efforts, this practice exposes underlying materials to potential erosion and loss, can increase suspended sediment levels in the runoff water, and may increase sediment contributions to area drainages. To maintain effective surface drainage, mitigate erosion, prevent loss of surficial materials, and minimize additional contributions of suspended solids to area drainages, PSCM will route undisturbed drainage around disturbance areas, grade and stabilize disturbed areas to provide for effective drainage control, establish a drainage and sediment control network to collect and retain runoff from disturbed areas, reclaim disturbance areas as soon as operationally practical, and utilize other specific localized drainage and erosion control methods as necessary. These activities are discussed further in the following sections.

In conjunction with mine development, facility installation, and ongoing coal refuse placement, PSCM will grade, stabilize, and maintain all disturbed areas to provide for effective drainage and minimize potential erosion. Where appropriate, PSCM will utilize localized grading and stabilization measures to effectively control and route drainage and minimize flow velocities. Examples would include graveled surfaces and the yard area drainage system in the mine facilities area; diversion/collection ditches; and drainage control berms utilized to isolate disturbed area drainage.

Localized drainage control and grading measures will be supplemented by PSCM's drainage and sediment control network. This network consists of diversion ditches which route undisturbed runoff around or through disturbance areas, collection ditches which intercept disturbed area runoff and route it to sedimentation ponds, the sedimentation ponds, and associated discharge structures.

The drainage and sediment control system is described in Section 2.05.3, Ponds, Impoundments, and Diversions, and design information and calculations are provided by **Map 2.05.3-M4**, Drainage and Sediment Control Plan, **2.05.3-M5**, Operational Channel Profiles, and by **Exhibit 2.05.3-E2**, Drainage and Sediment Control Plan. The drainage and sedimentation control network will collect

