UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

IN THE MATTER OF:)	Docket No. CWA-05-2008-0003		
Black Beauty Coal Company, LLC 7100 Eagle Crest Boulevard)	Proceeding to Assess Class II Administrative Penalty under Section		
Evansville, IN 47715)	309(g) of the Clean Water Act, 33 U.S. 8 1319(g)		Z
Respondent.)	§ 1319(g)	J	
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CONSENT AGREEM	MEN	T AND FINAL ORDER	15 KM	2

- 1. This is an administrative action commenced and concluded under Section 309(g) of the Clean Water Act (Act), 33 U.S.C. § 1319(g), and Sections 22.13(b) and 22.18(b)of the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation/Termination or Suspension of Permits (Consolidated Rules), 40 C.F.R. §§ 22.13(b) and 22.18(b).
- 2. Complainant is the Director of the Water Division, United States Environmental Protection Agency, Region 5 (Complainant or U.S. EPA).
- Respondent is Black Beauty Coal Company, LLC, a corporation doing business in the State of Indiana.
- 4. Where the parties agree to settle one or more causes of action before the filing of a complaint, the administrative action may be commenced and concluded simultaneously by the issuance of a Consent Agreement and Final Order (CAFO). 40 C.F.R. § 22.13(b).
- 5. The parties agree that settling this action without the filing of a complaint or the adjudication of any issue of fact or law is in their interest and in the public interest.

6. Respondent consents to entry of this CAFO and the assessment of the specified civil penalty, and agrees to comply with the terms of the CAFO and further agrees that it will not contest the basis or validity of this CAFO or its terms. Respondent, however, does not admit, and retains the right to controvert in any subsequent proceedings other than proceedings to implement or enforce this CAFO, the validity of the factual allegations or alleged violations in this CAFO, including, without limitation, any allegations regarding the presence of jurisdictional "waters of the United States" at the Respondent's Somerville Mines.

Jurisdiction and Waiver of Right to Hearing

- 7. Respondent admits the jurisdictional allegations in this CAFO, but denies the factual allegations or alleged violations set forth herein.
- 8. Black Beauty Coal Company, LLC, waives its right to request a hearing as provided at 40 C.F.R. § 22.15(c) and Section 309(g)(2)(B) of the Act, 33 U.S.C. § 1319(g)(2)(B), any right to contest the allegations in this CAFO, and its right to appeal this CAFO under Section 309(g)(8)(B) of the Act, 33 U.S.C. § 1319(g)(8).
- 9. In consideration of the alleged violations, the environmental and compliance significance of the matter, and based upon the nature, circumstances, extent and gravity of the violations alleged herein, as well as Respondent's ability to pay, prior history of such violations, culpability, economic benefit or savings (if any) resulting from the violations, and such other matters as justice may require, Complainant has determined that an appropriate civil penalty to settle this action is in the amount of twenty-five thousand dollars (\$25,000). The Respondent shall pay the \$25,000 civil penalty as specified below. The Respondent shall also successfully perform a Supplemental Environmental Project (SEP) valued at \$97,448, as described below.

Respondent's payment of the penalty and performance of the SEP shall not constitute an admission of any liability.

Statutory and Regulatory Background

- 10. Section 301 of the CWA, 33 U.S.C. § 1311, prohibits the discharge of pollutants into "waters of the United States" except in compliance with, among other things, a permit issued under Section 404 of the CWA, 33 U.S.C. § 1344.
- 11. Section 404 of the CWA, 33 U.S.C. § 1344, authorizes the Secretary of the Army, acting through the Chief of Engineers, U.S. Army Corps of Engineers (Corps), to issue permits for the discharge of dredged or fill material into "waters of the United States."
- 12. Section 502(12) of the Act, 33 U.S.C. § 1362(12), defines "discharge of pollutants" as "any addition of any pollutant to navigable waters from any point source..."
- 13. Section 502(14) of the Act, 33 U.S.C. § 1362(14), defines a "point source" as "any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation or vessel or other floating craft, from which pollutants are or may be discharged."
- 14. Section 502(6) of the Act, 33 U.S.C. § 1362(6), defines "pollutant" as "dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, and agricultural waste discharged into water."
- 15. Section 502(7) of the Act, 33 U.S.C. § 1362(7), defines "navigable waters" as "the waters of the United States...."

16. 40 C.F.R. § 230.3 defines the term "waters of the United States" to include "wetlands" and "streams."

Factual Allegations and Alleged Violations

- 17. Respondent, which owns and operates the Somerville North, Central and South Mines in Gibson County, Indiana, is a corporation incorporated under the laws of Indiana. See Maps of the Somerville North, Central and South Mines attached as Exhibits 1, 2, and 3, respectively.
 - 18. Respondent is a "person" under Section 502(5) of the Act, 33 U.S.C. § 1362(5).
- 19. Respondent has been conducting surface coal mining and reclamation activities at the Somerville North and Central Mines since 1995 and Somerville South Mine since 1999 pursuant to approved Surface Mining Control and Reclamation Act ("SMCRA") permits as subsequently amended from time to time. At certain sites, including the Somerville North, Central and South Mines, mining operations authorized under Respondent's approved SMCRA permits involve temporary impacts to ditches, streams, tributaries and other drainage features, which are mined-through and subsequently replaced during Respondent's reclamation activities.
- 20. Between March 2002 and May 1, 2008, Respondent mined-through or otherwise impacted or will have mined through or impacted with its earth moving equipment certain agricultural ditches, streams, and other tributaries to East Fork Keg Creek, West Fork Keg Creek Pigeon Creek, Donahue Creek and Smith Fork located at the Somerville North and Central Mines and Big Creek and Smith Fork at the Somerville South Mine under its SMCRA permits. During the time period March 2002 through May 1, 2008, it is estimated that approximately

94,283 linear feet of such ditches, streams, and tributaries have been or will be impacted by Respondent's mining operations.

- 21. Pursuant to its SMCRA permit, between March 2002 and May 1, 2008, Respondent mined-through or otherwise impacted or will have mined through or otherwise impacted using earth moving equipment approximately 7.82 acres of wetland adjacent to or abutting several of the abovementioned tributaries.
- 22. East Fork Keg Creek and West Fork Keg Creek flow into Keg Creek, which in turn, flows into the Patoka River northwest of the site. The Patoka River is a "traditionally navigable water." Donahue Creek flows into Smith Fork. Big Creek and Smith Fork flow into Pigeon Creek south and west of the Somerville Mine. Pigeon Creek flows south into the Ohio River, a "traditionally navigable water."
- 23. The fill deposited in the abovementioned ditches, streams, and tributaries and wetlands during Respondent's mining operations is a "pollutant" as defined in Section 502(6) of the Act, 33 U.S.C. § 1362(6).
 - 24. Respondent was using earth moving equipment to deposit the fill.
- 25. The earth moving equipment is a "point source" as defined at Section 502(14) of the Act, 33 U.S.C. § 1362(14).
- 26. The depositing of fill material constitutes the "discharge of pollutants" as defined at Section 502(12) of the CWA, 33 U.S.C. § 1362(12).
- 27. In December of 2004, the Corps requested the pursuit of after-the-fact permitting under Section 404 of the Act, 33 U.S.C. § 1344, for these ditches, streams, tributaries and

wetlands at the Somerville North and Central Mine sites. The Corps assigned ID # LRL-2005-1290-rlr to this Section 404 permit application upon submittal by Respondent.

- 28. In December of 2004, the Corps requested the pursuit of after-the-fact permitting under Section 404 of the Act, 33 U.S.C. § 1344, for these ditches, streams, tributaries and wetlands at the Somerville South Mine site. The Corps assigned ID # LRL-2007-66-GJD to this Section 404 permit application upon submittal by Respondent.
- 29. At no time when Respondent impacted the abovementioned ditches, streams, tributaries and wetlands (in the context of a variety of communications and conversations between Respondent and the Corps that led to an apparent presumption regarding the absence of any permitting obligations and approval to proceed with mining activities) had Respondent received authorization through a permit issued under Section 404 of the Act, 33 U.S.C. § 1344.
- 30. Each discharge by Respondent of pollutants into navigable waters, as described in paragraphs 20 and 21, above, that is not authorized by a permit issued under Section 404 of the Act, 33 U.S.C. § 1344, constitutes a day of violation of section 301(a) of the Act, 33 U.S.C. § 1311(a).
- 31. Each day the material discharged by Respondent remains into "waters of the United States" without authorization under a permit issued under section 404 of the Act, 33 U.S.C. § 1344, constitutes a day of violation of Section 301 of the Act, 33 U.S.C. § 1311.

Civil Penalty

- 32. In consideration of Respondent's good faith and cooperation in settling this matter, U.S. EPA agrees to a penalty of \$25,000.
- 33. Respondent must pay the \$25,000 civil penalty by cashier's or certified check payable to the "Treasurer, United States of America," within 30 days after the effective date of this CAFO.
 - 34. Respondent must send the check to:

US Environmental Protection Agency Fines and Penalties Cincinnati Finance Center PO Box 979077 St. Louis, MO 63197-9000

35. A transmittal letter, stating Respondent's name, complete address, the case docket number, and the billing document number must accompany the payment. Black Beauty Coal Company, LLC, must write the case docket number and the billing document number on the face of the check. Respondent must send copies of the check and transmittal letter to:

Attn: Regional Hearing Clerk U.S. Environmental Protection Agency, Region 5 77 West Jackson Blvd. (E-13J) Chicago, Illinois 60604-3590

Melissa Gebien, Enforcement Officer U.S. Environmental Protection Agency, Region 5 77 West Jackson Blvd. (WW-16J) Chicago, Illinois 60604-3590

Thomas Turner
Office of Regional Counsel
U.S. Environmental Protection Agency, Region 5
77 West Jackson Blvd. (C-14J)
Chicago, Illinois 60604-3509

36. This civil penalty is not deductible for federal tax purposes.

37. On any amount that may become overdue under paragraph 32, interest will accrue at the rate established by the Secretary of the Treasury pursuant to 31 U.S.C. § 3717. In addition, late payment will be subject to nonpayment penalties in accordance with Section 309(g)(9) of the Act, 33 U.S.C. § 1319(g)(9).

Supplemental Environmental Project

- 38. In addition to the civil penalty described in Paragraph 32, Respondent shall also initiate, perform and complete the SEP for forested wetland creation valued at \$97,448, by implementing the Scope of Work attached hereto as Attachment A which has been reviewed and approved by U.S. EPA. The attached Scope of Work also satisfies Respondent's obligation to perform and complete a SEP as set forth in the CAFOs entered by the parties to resolve the administrative actions referenced in Docket No.
- 39. Failure to properly perform the SEP, or failure to meet the agreed upon success standards for the SEP as set forth in the Scope of Work, may result in Stipulated Penalty liability for the Respondent. Subject to the provisions of Paragraph 54 of this CAFO, a stipulated penalty in an amount of \$10,000 per violation may be assessed against Respondent for failure to meet the following project milestones:
 - (a) The completion of grading, seeding and tree planting of 18 acres of the wetlands as more fully described in Attachment A hereto by not later than October 31, 2009; and
 - (b) The completion of grading, seeding and tree planting of the remaining 18 acres of the wetlands and the 5 acre buffer as more fully described in Attachment A hereto by not later than October 31, 2010.

Subject to the provisions of Paragraph 54 of this CAFO, a stipulated penalty in the amount of

- \$2,500 per violation may also be assessed for failure to submit annual monitoring reports beginning on November 1, 2010 and concluding on November 1, 2016.
- 40. Respondent must spend at least \$97,448 to complete the SEP, as set forth in Paragraph 38 and Attachment A. In calculating such monies spent by Respondent to complete the SEP, U.S. EPA shall include lost crop income and the reduced land valuations from the establishment of a conservative easement as itemized in the cost summary included at Attachment A. Respondent shall also utilize available industry standards routinely relied upon by Respondent (e.g., CAT Handbook) to calculate the costs of services performed by employees of Respondent in implementing the SEP.
- 41. Respondent certifies that it is not required to perform or develop the SEP by any law, regulation, grant, order, or agreement, or as injunctive relief as of the date it signs this CAFO. Respondent further certifies that it has not received, and is not negotiating to receive, credit for the SEP in any other enforcement action.
- 42. Except as provided in Paragraph 43, if the SEP is not satisfactorily completed through implementation of the Scope of the Work attached hereto as Attachment A and achievement of the success standards set forth therein by the date of submittal of the Final Monitoring Report November 1, 2016, Respondent will pay 100% of the settlement penalty amount mitigated by the SEP, \$97,448.00. The Final Monitoring Report prepared by Respondent shall contain the following information documenting the satisfactory completion of the SEP:
 - (a) detailed description of the SEP as completed;

- (b) description of any operating problems and actions taken to correct the problems;
- (c) itemized costs of goods and services used to complete the SEP documented by copies of bills of sale, invoices, purchase orders, canceled checks or other appropriate documentation that specifically identify and itemize the individual costs of the goods and services, including labor, equipment, materials, and additional job allowances;
- (d) certification that Respondent has completed the SEP in compliance with this CAFO; and,
- (e) detailed description of the location, size, topography and vegetation of the SEP (wetland and buffer).
- 43. If the SEP is not completed satisfactorily, but Respondent can show that it has:
 - (a) made a good faith and timely effort to complete the project; and,
 - (b) certifies, with supporting documentation consistent with that required in Paragraph 52, that at least 90 percent of the amount of money which was required to be spent was expended on the SEP, no stipulated penalty will be assessed.
- 44. If the SEP is satisfactorily completed, but Respondent spends less than 90 percent of the SEP amount of \$97,448, a stipulated penalty of \$15,566.00 (17.5% of the amount of the settlement penalty amount mitigated by the SEP) will be assessed.
- 45. If the SEP is satisfactorily completed, and the Respondent certifies, with supporting documentation consistent with that required in Paragraph 52, that it has spent at least 90 percent of the amount required to be spent for the SEP, no stipulated penalty will be assessed.
- 46. The determination of whether the SEP has been satisfactorily completed by implementation of the Scope of Work attached hereto as Attachment A and achievement of the stated performance criteria and whether the Respondent has made a good faith, timely effort to implement the SEP is reserved to the sole discretion of U.S. EPA.

- 47. Respondent must pay any stipulated penalties within 15 days of receiving U.S. EPA's written demand for penalties. Respondent will use the method of payment specified in Paragraphs 32-35 above, and will pay interest, handling charges, and nonpayment penalties on any overdue amounts.
- 48. Any public statement that Respondent makes referring to the SEP must include the following language, "BBCC undertook this project under the settlement of the United States Environmental Protection Agency's enforcement action against BBCC for alleged violations of the Clean Water Act."
- 49. Respondent must submit all notices and reports required by this CAFO (and the requirements of the SEP at Attachment A) by first class mail to:

Melissa Gebien (or Greg Carlson), Enforcement Officer U.S. Environmental Protection Agency, Region 5 77 West Jackson Blvd. (WW-16J) Chicago, Illinois 60604-3590

50. In each report that Respondent submits as provided by this CAFO (and the requirements of the SEP at Attachment A), it must certify that the report is true and complete by including the following statement signed by one of its officers:

I certify that I am familiar with the information in this document and that, based on my inquiry of those individuals responsible for obtaining the information; the information is true and complete to the best of my knowledge. I know that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

- 51. Respondent shall submit its first Annual Monitoring Report to U.S. EPA by not later than November 1, 2010 as provided in Attachment A hereto. This report must contain the following information:
 - (a) detailed description of the SEP major earth work completed to implement the SEP; and,
 - (b) description of any operating problems and actions taken to correct the problems.
- 52. Following receipt of the Final Monitoring Report as described in Paragraph 42,U.S. EPA must notify Respondent in writing that:
 - (a) It has satisfactorily completed the SEP and the SEP report; or
 - (b) There are deficiencies in the SEP as completed or in the SEP report and U.S. EPA will give Respondent at least 90 days and, if deemed necessary by Respondent to correct the identified deficiencies, up to a maximum of 180 days to correct the deficiencies;
- 53. If U.S. EPA exercises option b. above, Respondent may object in writing to the deficiency notice within 10 days of receiving the notice. The parties will have 30 days from U.S. EPA's receipt of Respondent's objection to reach an agreement. If the parties cannot reach an agreement, U.S. EPA will give Respondent a written decision on its objection. Respondent will comply with any requirements that U.S. EPA imposes in its decisions. If Respondent does not complete the SEP as required by U.S.EPA's decision, Respondent will pay stipulated penalties to the United States under Paragraphs 42-45.

General Provisions

54. Force Majeure

- (a) If any event occurs which causes or may cause delays in the completion of the SEP as required under this Agreement, Respondent shall notify U.S. EPA in writing not more than 10 days after the delay or Respondent's knowledge of the delay, whichever is earlier. The notice shall describe in detail the anticipated length of the delay, the precise cause or causes of the delay, the measures taken and to be taken by Respondent to prevent or minimize the delay, and the timetable by which those measures will be implemented. The Respondent shall adopt all reasonable measures to avoid or minimize any such delay. Failure by Respondent to comply with the notice requirements of this paragraph shall render this paragraph void and of no effect as to the particular incident involved and constitute a waiver of the Respondent's right to request an extension of its obligation under this Agreement based on such incident.
- (b) If the parties agree that the delay in compliance with this Agreement has been or will be caused by circumstances beyond the control of Respondent, the time for performance hereunder may be extended for a period no longer than the delay resulting from such circumstances. In such event, the parties shall stipulate to such extension of time.
- (c) In the event that the U.S. EPA does not agree that a delay in achieving compliance with the requirements of this CAFO has been or will be caused by circumstances beyond the control of the Respondent, U.S. EPA

- will notify Respondent in writing of its decision and any delays in the completion of the SEP shall not be excused.
- (d) The burden of proving that any delay is caused by circumstances beyond the control of the Respondent shall rest with the Respondent. Increased costs or expenses associated with the implementation of actions called for by this Agreement shall not, in any event, be a basis for changes in this Agreement or extensions of time under section (b) of this paragraph.

 Delay in achievement of one interim step shall not necessarily justify or excuse delay in achievement of subsequent steps.
- 55. Respondent certifies that upon issuance of its pending Section 404 permit applications (LRL-2005-1290-rlr and LRL-2007-66-GJD) it is complying fully with Sections 301(a) and 404 of the Act, 33 U.S.C. §§ 1311 and 1344. Furthermore, this CAFO and Respondent's pending Section 404 permit application (LRL-2005-1290-rlr and LRL-2007-66-GJD) fully resolve all jurisdictional determinations under the Act for any ditches, streams, tributaries, wetlands or other drainage features currently present at the Somerville North, Central and South Mines.
 - 56. U.S. EPA and Respondent consent to the terms of this CAFO.
- 57. This CAFO settles U.S. EPA's claims against Respondent for Section 404 permitting issues associated with jurisdictional waters of the United States currently present at the Somerville North, Central and South Mines and for civil penalties for the violations alleged in this Consent Agreement.

- 58. This CAFO does not affect Respondent's responsibility to comply with the Act and other applicable federal, state and local laws, and regulations.
- 59. Nothing in this CAFO restricts U.S. EPA's authority to seek Respondent's compliance with the Act and other applicable laws and regulations.
 - 60. The terms of this CAFO bind Respondent, and its successors, and assigns.
- 61. Each person signing this consent agreement certifies that he or she has the authority to sign this CAFO for the party whom he or she represents and to bind that party to its terms.
 - 62. Each party agrees to bear its own costs and fees in this action.
 - 63. This CAFO constitutes the entire agreement between the parties.
- 64. For federal income tax purposes, Respondent agrees that it will neither capitalize into inventory or basis nor deduct any costs or expenditures incurred in performing the SEP as provided in Paragraph 38 of this CAFO.
- 65. In accordance with Section 309(g)(5) of the CWA, 33 U.S.C. § 1319(g)(5), this order will become effective 30 days after the execution of the accompanying Final Order by the Regional Administrator. No person responded to the public notice of the commencement of this action pursuant to 33 U.S.C. § 1319(g)(4)(A), and thus no interested persons need be notified of the issuance of the Final Order in this matter under section 309(g)(9)(c) of the CWA, 33 U.S.C. § 1319(g)(9)(C).

In the Matter of: Black Beauty Coal Company, LLC Docket No. CWA-05-2008-0003

Dated: 2/26/2008

BLACK BEAUTY COAL COMPANY, LLC Respondent

Charles A. Burgaraf
Name (print)

President
Title (print)

In the Matter of: Black Beauty Coal Company, LLC Docket No. CWA-05-2008-0003

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, REGION 5, Complainant

Dated: 3/5/08

Acting Director, Water Division U.S. EPA, Region 5

In the Matter of: Black Beauty Coal Company, LLC Docket No. CWA-05-2008-0003

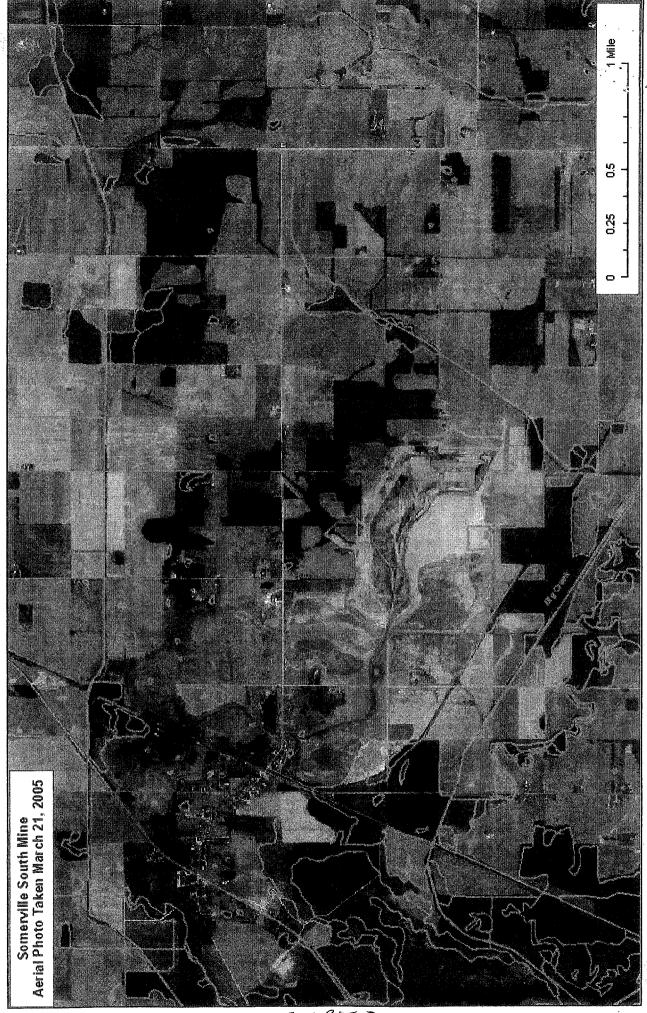
FINAL ORDER

The foregoing Consent Agreement is hereby approved and incorporated by reference into this Final Order. Black Beauty Coal Company, LLC is hereby **ORDERED** to comply with all of the terms of the preceding Consent Agreement, effective 30 days after the date of my signature.

Dated:	

Mary A. Gade Regional Administrator U.S. Environmental Protection Agency Region 5 Chicago, Illinois





EXMBIT 3

Supplemental Environmental Project

Sugar Company Company

Black Beauty Coal Company (BBCC) proposes to create 33 additional acres of forested wetlands at its Farmersburg Mine in Vigo and Sullivan counties, Indiana. An additional 3.3 acres (10%) will be constructed to ensure a minimum final wetland acreage of 33 acres. The wetlands will be constructed during reclamation operations and will be located in one parcel that abuts Turman Creek and its intermittent tributary. A 50 foot wide forested buffer (approximately 5.5 acres in size) surrounding the wetland will also be constructed. Please see the attached SEP location map for the approximate location for the proposed wetlands.

Acreage currently planned to be reclaimed as non-prime cropland would be changed to a forested wetland containing the hard mast producing species. This project would require the preparation of a SMCRA permitting revision, intensive surveying, engineering design, increased grading of shale and soil materials, increased revegetation and maintenance costs, as well as lost annual income from crop proceeds.

The reclamation requirements for non prime cropland reclamation consist of final grading to a slope less than 12%, and subsoil and topsoil replacement to a minimum depth of 18 inches. Typically, small grains and hay crops are grown to demonstrate productivity required for SMCRA bond release. These crops are relatively inexpensive to grow when compared to the costs of wetland herbaceous species and tree seedlings. The small grains and hay also generate annual income. Non prime cropland and hayland is the least costly land use to reclaim in the Midwest. A forested wetland is the most expensive land use to reclaim. These increased costs are detailed on the next page.

Planning and design work would be completed in early 2008. Grading, seeding, deep tillage and tree planting of a minimum of 18 acres of the wetland will be completed by October 31, 2009. Grading, seeding, deep tillage and tree planting of the remaining balance of the wetland and forested upland buffer will be completed by October 31, 2010. The wetland will be monitored by BBCC for seven years and a complete wetland delineation will be completed at the end of the seven year monitoring period. A Conservation Easement (to be held by the Indiana Department of Natural Resources) will be placed on the wetland and the 50 foot wide forested buffer following completion of the final wetland delineation. Please see the attached Construction Schedule for more detail.

This project would provide a very significant benefit to the health and functionality of the applicable watershed by reducing the acreage of

future conventional tillage agriculture, providing an additional 36 acres of sediment filtering capacity, increasing carbon sequestration, increasing acreage of hardwood tree species, providing food and shelter to a wide variety of reptilian and mammalian species, as well as providing the habitat and refuge to numerous aquatic species.

The added value provided by a wetland land use goes beyond the obvious environmental enhancements such as groundwater recharge, nutrient and pollutant removal, flood and flow control, and aquatic and terrestrial habitat. Although wetland function is dependent on local soils, hydrology, geology, climate and biology; the average global value of ecosystem services provided by a wetland is approximately \$6,000 per acre per year compared to approximately \$40 per acre per year for cropland¹.

¹Ewaschuk, E and Smyth, C. 2001. A Wetland Presentation for Agricultural Producers.

SEP Construction Schedule

2008-09

Complete grading, soil replacement, deep tillage, seeding and tree
planting on a minimum of 50% (18 acres) of the total wetland
acreage by Oct. 31, 2009.

2009-10

• Complete grading, soil replacement, deep tillage, seeding and tree planting on the remaining balance of the total wetland acreage by Oct. 31, 2010.

2010-11

- Maintenance and Monitoring
- Complete and submit first Annual Monitoring report by Nov. 1, 2010. The first Annual Monitoring report shall include a full report on all SEP major earth work completed to implement the SEP and description of any operating problems and actions taken to correct the problems.

2011 - 2015

- Maintenance and Monitoring
- · Annual Monitoring Reports due by Nov. 1 of each year.

2016

- Maintenance and Monitoring
- Final Monitoring Report by Nov. 1, 2016 (including final wetland delineation report)
- Execute Conservation Easement

Monitoring Reports and Success Standards

Annual monitoring reports will be based on field evaluations completed during May (spring) and September (fall) of each year. The reports will include assessments of vegetation, soils, hydrology and overall condition of the wetland. Only vegetation assessments will be completed for the forested buffer. The annual monitoring reports will be submitted to USEPA no later than November 1 of each year for the current year's monitoring. Vegetative and soil assessment points will be recorded on a site map which will be included in the Monitoring Report(s). The assessments will be completed in the following manner.

Vegetation

Annual vegetative assessments will be completed on a one evaluation for every five acres basis utilizing the following accepted SMCRA evaluation methods. Woody stems will be counted using a random point within the 5 acre block. A 20 foot radius of the evaluation point will be counted and converted to a per acre basis. Herbaceous vegetation will be assessed using a 100 foot long tape measure placed randomly within each 5 acre block. Vegetation, excluding vegetative litter, will be assessed at 1 foot intervals to determine the percentage of ground cover. Evaluation lines will be adjusted to avoid assessing areas where herbicides have been used to reduce vegetative competition or treat undesirable species. Species present will also be described. The spring and fall ground cover results will be averaged prior to submission to USEPA. Final success standards at the end of the 7 year monitoring period will be 450 live stems per acre with a 80% survival rate of the initial planted species and a minimum of 50% herbaceous ground cover.

Soils

Annual soils evaluations will be conducted within the same 20 foot radius as the woody stem counts. Soil probes will be taken to an 18" depth. Soil horizons, texture, color, redoximorphic features and other hydric soil indicators will be described. The final standard of success at the end of the 7 year monitoring period will be the presence of hydric soil indicators of a wetland per the 1987 Corps Wetland Delineation Manual.

Hydrology

Indicators of wetland hydrology will be noted and described in conjunction with the vegetation and soil assessments. Recording of the number of continuous days of inundation and/or saturation during the growing season may also be used to demonstrate wetland hydrology. The final standard of success at the end of the 7 year monitoring period will be the presence of indicators of wetland hydrology per the 1987 Corps Wetland Delineation Manual.

The semi-annual field evaluations and annual monitoring reports will be used to develop maintenance plans. Completed and planned maintenance will be noted in the annual monitoring reports. The final report will include a complete wetland delineation per the 1987 Corps Wetland Delineation Manual. BBCC is committed to the successful completion of this project. A successfully constructed wetland is not only a necessary component of this SEP, but will also be necessary to meet the requirements of the Surface Mining Control and Reclamation Act (SMCRA). Should the wetland restoration and forested buffer prove to be a failure, BBCC will commit further time and resources and cooperate with USEPA to complete a successful contingency plan.

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Wooded Wetland Seed	MX						THE REPORT OF
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Botanicaj Name	Common Name		Ounces/Acre			<u> </u>	
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Permahani Grassea/Sadges: ************************************					Lot Number	PLS factor:	Total Oz Used
Calamegrostis canadensis	Bluejoint Grass		1,00				
Cerex crinite †	Fringed Sedge		2.00				
Cerex lupuline †	Common Hop Sedge		4.00				
Cerex lurida †	Bottlebrush Sedge		1.50				
Carex squarrosa †	Narrow-leaved Cattell Sedge		2.00			·	
Carex aparganicides v. cephaloidea †	Rough-Clustered Sedge		1.50				
Carex typhinia †	Common Cattall Sedge		2.00	36.00			
Carex vujoinoidea	Brown Fox Sedge		4.00				
Elymus cenadensis .	Canada Wild Rye		8.00	144.00			
Elymus virginicus	Virginia Wild Rye		12.00	216.00			
Giyooria striata	Fowl Manna Grass		2.00	36.00			
Leersia oryzoidas	Rice Cut Grass		2.00		1		
Scirpus atrovirens	Green Bulrush		2.00			l	
Sparlina pectinata	Prairie Cord Grass		1.00				
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				Regulred			
Temporary Cover:	riantelem besidend in the restaurablish	And the state of t	Agropation See St	Omes	I'et Number	DI Q'énctor	Total Oville
Avena sative	Common Oats		537.00		DOCTORNOUS.	a Louisetto ;	TOTAL OF CORD
Lollum multiflorum	Annual Rye		112,00				
		Total	649.00				
			010.00	Reguland			
Forbs: (20th Files 20th Park plants)	Elifado, más y El Boloni I., de Calabarro I. (1995)	"Take the safety and the safety	made à Mille Miller		Park Marinday	COLUMN TO A STATE OF THE STATE	
Alisma app.	Water Plantain (Various Mix)	Same Control Starter and Control	3.00		Lot Number,	KT9.40CIOL-	FORM OF USed
Angelice atropurpures †	Great Angelica		1.00	54.00 18.00			
Aster puniceus	Bristly Aster						
Asier pancisus Asier umbellatus †	Flat-Top Aster		0.75	13.50 4.50			
Bidans cernue	Nodding Bur Marigold		0.26				
	Tall Bell Flower		2.50				
Campanula emericana			0.25	4.50			
Cephelanthus occidentalis †	Button Bush		0.50	9.00			
Helenium eutumnele	Sneezeweed		2.00				
Heraculeum lanatum †	Cow Parsnip		0.75				
fibiscus moscheutos †	Swamp Rose Mallow		2.00	38.00			
Lobella siphillica	Great Blue Lobella		1.50	27.00			
Mimulus ringens	Monkey Flower		1.25	22.50			
Rudbeckie leciniale	Cut-Leaf Conellower		0.75	13,50			
Verbesine ellernifolia	Wingstem		2.00	38.00			
	<u> </u>	Total	18,00	324.00			
	Mix Statistics			STATE OF THE PARTY	892×536894	May Market	24/10/2020
Native Component A	PLS lbs /Acre	PLB Seedslaces 3. 2.	PLS Seeduling Fi	% of Hatter Mile			and what being
Torbs	1,13	2,048,191	47.02	51,47%			
Grasses	2.61	1,931,015	44,33	48.52%			
Total Natives	3,94	3,979,206	91.35				
Cover	40.56	5,952,038	136,64	.00%			
Totals	44.50	9,931,244	227.99				
Volume Discounting:Is/not/valld:If/of	har discount for its along to see		20.122				
		1/4 Acre					
-3 AV (008.00 per AV)	Bush all terms on the district						
\$12,582.00	4F 70 A - Disease 4	\$230.00					
-14 AC Discounted (5%)	15-20 Ac Discounting (15%)						
	-\$10,694.70	<u> </u>					
20-50 AC Discounting (20%)	50-100 AC Discounting (25%)	\					
	-\$9,436.50						
iuggetted/Sübstituss的出版。	表现的发生的影响和图像的影响	REPURE PROPERTY.	法自然外流的		ALC THE PARTY	EASKUMUSEE	TO VEHICLE OF
larex grayii, Carex muskingumonsis, C	erex tuckermanil, Clematis virginic	us/Elymus doarius. I	Vapea diolog. So	lidago rugosa. S	ilphium perfoli	alum.	
eucrium canadense.Ciematis virginica.	Agrimonia parviflora, Aster laterifl	ofus. Celtha palustis	(wat sites) Hyper	ricum virainicum	trich sollst.		
tanunculus pensylvanicus, Solidago fier	kicaulis, Carex intumescens. Give	ria canadensis. Milli	m effusum. Pani	cum clandestine	. Carex reims	n	
Indera benzolo,	7	I		I	1	-	
					1		

#594 fac + 6/oc delivery - 20/00 cover

SUPPLEMENTAL ENVIRONMENTAL PROJECT		FORESTED WETLAND			
ACTIVITY	(includes costs above cost of non prime cropland only) UNITS \$ RATE COST/ACRE	cost of non pri	\$ RATE C	ST/ACRE	COSTIACRE COMMENTS
Pre Design Survey & Data Download	hours	-	\$35.00	\$35.00	\$0.00 Aiready completed via Typical Cross Section in SMCRA permit
Prep & Submittal of SMCRA Permit revision to change non prime cropland to forested wetland.	hours	0.2	\$65.00	\$11.00	\$0.00 Not required, current approved land use is Non prime Cropland
Engineering Design & Mapping	hours	N	\$65.00	\$130.00	\$0.00 Not needed
Pre Recismation Survey & Stakeout (2 people)	hours	_	\$35.00	\$35.00	\$0.00 Not needed
Precision grading of shale w/ D10 Dozer (1.5' depth = 2420 cu yards/acre)	cu yards	2420	\$0.70	\$1,694.00	\$0.00 Rough Grading is sufficent for non prime cropland.
Survey of graded shale to manitor and varify required elevations	hours	0.2	\$35.00	\$7.00	\$0.00 Not Required .
Soil Replacement (Part of normal rodamation cost)				\$0.00	\$10,387.72 4' depth @ \$1.61/cubic yard
Soil surface survey and stakeout (2 people)	hours		\$35.00	\$35.00	\$0.00 Not Required
Precision grading of replaced soil w/ D7 Dozer (1* depth = 1613 cu yards/acre)	cu yards	1613	\$0.80	\$1,290.40	\$0.00 Not Required
Survey of graded soil to monitor and verify required elevations	hours	0,2	\$35.00	\$7.00	\$0.00 Experienced Operator can accomplish wout survey assistance
Soil Testing, Fertilizer & Ag Lime applications (Part of normal reclamation costs)				\$0.00	\$125.00 Average Cost, actual is based on soil test results
Tillage, Planting, harrowing, etc (Part of normal reclamation costs)				\$0.00	\$69,00
Deep tilage to 24" to allewate compaction from Precision grading	acres	_	\$80.00	\$80.00	\$0.00 Not required for non prime cropland, where less grading has occurred.
Discing to smooth soil surface after deep tillage	acres	_	\$12.00	\$12.00	\$0.00 Not required if Deep Tillege is not required
Herbaceous rovegetation (includes difference in wet species seed vs. wheat seed)				\$44.00	\$0.00 Wet species cost = \$60/ac, Wheat seed cost = \$18/ac
Mulching to promote seed germination and soil protection (includes 3 round bales/acro)	acres	_	\$210.00	\$210.00	\$0.00 Wheat crop would be drilled on non prime cropland.
Tree seedlings, pick up, cold starage, planting	trees	600	\$0.70	\$420.00	\$0.00 Crops would be planted on non prime cropland
Maintenance, herbicide treatment, fertilization for 7 year period				\$345.00	\$0.00 Considered in net crop income calculation.
Monitoring & Reporting for 5 year period (8 hours/year)	hours	40	\$55.00	\$2,200.00	\$0.00 Only reporting required is yield results in bond release application.
Stem Count and Ground Cover Survey required for Forest Land use in SMCRA (0.5 hr/sc)	hours	0.5	\$55.00	\$27.50	\$0.00 Only reporting required is yield results in bond release application.
Annual loss of net crop income (\$50 per acre for 5 years)				\$250.00	\$0.00 income loss for 5 years is estimated; however, actual crop income loss is permanent.
TOTAL COST PER ACRE	ñ			\$6,832.90	\$10,611.72
TOTAL COST FOR 36.3 ACRES	iš.			\$248,034.00	
Forested Buffer (5.5 ac @ \$3,496.50/ac)	<u>o</u>			\$19,230.00	
Conservation Easement Reduction in Land Value (41.8 zc @ \$600/ac)	Ē)		1	\$25,080.00	
TOTAL ESTIMATED SEP COST	57			\$292,344.00	
NUTES: All surveying completed on 50° X 50° grid or closer if needed. Surveying, Engineering, Monitoring and Reporting costs are based on internal costs. External costs would be considerably higher.	would be considerable	y higher			

: a.....

Botanical Name C Rermanent Grasses Bromus pubescens		PLS Ounces/Acre 4.00 6.00	Required a counces 22.00	Lot Number (1		
Botanical Name Remanent Grasses Bromus pubescens	Common Name Voodland Brome Rough Clustered Sedge leak Grass	Ounces/Acre	Required Ounces	Lov Number (1	Lance To the party	
Botanical Name Permanenti Grasses Bromus pubescens	Common Name Voodland Brome Rough Clustered Sedge leak Grass	Ounces/Acre	Required Ounces	::LotNumber:	karasa manayan	
Remjanent Grasses Bromus pubescens	Voodland Brome tough Clustered Sedge leak Grass	Ounces/Acre	Required Ounces	Lot Number.		
Remjanent Grasses Bromus pubescens	Voodland Brome tough Clustered Sedge leak Grass	4.00	Required Ounces	Lot Number	more water	
Bromus pubescens W	Voodland Brome Lough Clustered Sedge Jeak Grass		Ounces	Lot Number 9	Lance of the Control of the	
Bromus pubescens W	Voodland Brome Lough Clustered Sedge Jeak Grass			LACTORISM INDICESS	DIVERSION OF THE	Total of Head
	lough Clustered Sedge leak Grass				Limo's andots	4 Ores (02 '0300 :- 111) 6
Carax obaganonas var. capitanicas i	leak Grass	0.00	33.00			
Diarrhena americana 8		0.50	2.75			
	HINY ARITU LINE	6,00	33.00		· ·	
	lottlebrush Grass	16.00	88.00			
Elymus hystrix 8	Totals	32.50	178.75		·	
	_ I Utais	32.30	Required			
Control of the Contro	Specification (Co. Conferencies of American States	There our records	Control of the Contro	Michael Control of the Control	- Control of the Cont	
			Ounces	Lot Number	HES Factors	Total Oz used
	leed Oats	360.00	1,980.00			
Lolium Multiflorum A	innual Rye	120.00	660.00			
	Totals	480.00	2,640.00			
			Required			
		以非關係管理的	Ounces	Lot Number	PLS Factor	Total Oz used
Actea pachypode D	Polls Eyes-dogbane	1.00	J. 7°			
Anemone cylindrica T	himbleweed	1.00	5.50			
Aquilegia canadensis W	Vild Columbine	1.25	6.88	·		
Aster sagittifolius A	rrow-leaved Aster	2.50	13.75			
Aureolaris flava S	mooth False Foxglove	1.00	5.50			
Campanula americana Ta	all Beliflower	2.00	11.00			
Caulophylum thalictholdes B	lue Cohosh	2.00	11.00			
Osmorhiza claytonli † H	lairy Sweet Cicely	4.00	22.00			-
Polygonatum caniculatum † Si	mooth Solomons Seal	2.00	11.00			
Scrophularia marilandica La	ate Figwort	2.00	11.00			
	eathery False Solomons Seal	1.75	9.63			
Trillium grandiflorum G	rand-Flowered Trillium	0.25	1.38			
	Totals	20.75	114.13			
	Mix Statistics			70 P. F. S. S. S. S.		344
Native Component P	(大) \$\$\$\$\$ 1.00 \$			Part Towns	Contraction	
Forbs	1.29	2,229,515	51.18	90.00%		
	2.03		5.63			
Grasses Total Mathematical		245,412	56.81	10.00%		
Total Natives	3.32	2,474,927		100.00%		
Cover	30.00	4,627,560	106.23			
Totals	30.00	4,627,560	163.04			
Volumerdiscountinglishesy						
	/2 Acre \$532.50	1/4 Acre \$266.25				
	5-20 AC Discounting (15%) -\$4,978.88					
21-50 AC Discounting (20%) \ 51	1-100 AC Discounting (25%) -\$4,393.13					
-\$4,686.00		+ 16/a	delivery			

Allium triccum, Cryptotaenia canadensis, Eupatorium purpurescens, Eupatorium rugosum, Geranium maculatum, Hydrophylum virginicum, Osmorhiza claytonii, Podophylum peltatum, Sanguina canadensis, Sanicula gregorri, Solidago caesia, Stylophorum diphylum, Thalictrum diocium, Desmodium glutinosum, Aster shortii, Penstemon calycosus, Taenidia interrima, Carex sprengelli, Carex swanii,

VEGETATIVE SPECIES AND PLANTING PLAN

Forested Buffer Area Seeding & Planting Stock

Scientific Name	Common Name	Approx. Seeding or Planting Rate	Method of Application
Lolium multiflorum	Annual Rye	40 lb/ac	Drilled or Broadcast
Triticum aestivum	Wheat	40 lb/ac	Drilled or Broadcast
Avena sativa	Oats	40 lb/ac	Drilled or Broadcast
Liriodendron tulipifera	Yellow Poplar	600 seedlings/ac	Mechanical or Hand
Diospyros virginiana	Persimmon	600 seedlings/ac	Mechanical or Hand
Quercus spp.	Red Oak species	600 seedlings/ac	Mechanical or Hand
Quercus spp.	White Oak species	600 seedlings/ac	Mechanical or Hand
Carya spp.	Hickory	600 seedlings/ac	Mechanical or Hand
Juglans nigra	Black Walnut	600 seedlings/ac	Mechanical or Hand

Note:

- Planting mix for herbaceous species will consist of a mixture of a minimum of 4 perennial and 1 annual species to assure diversity
- 2. Woody plantings will consist of a minimum of 5 species with no single tree species comprising more than 25% of the total planting.
- Spacing of woody plantings will be ~8' X 9'.
- See the JF New Deciduous Woodland Seed Mix for perennial herbaceous species to be used.

Wetland Seeding & Planting Stock

Scientific Name	Common Name	Approx. Seeding or Planting Rate	Method of Application
Lolium multiflorum	Annual Rye	40 lb/ac	Drilled or Broadcast
Triticum aestivum	Wheat	40 lb/ac	Drilled or Broadcast
Avena sativa	Oats	40 lb/ac	Drilled or Broadcast
Quercus lyrata	Overcup Oak	600 seedlings/ac	Mechanical or Hand
Quercus bicolor.	Swamp White Oak	600 seedlings/ac	Mechanical or Hand
Quercus macrocarpa	Bur Oak	600 seedlings/ac	Mechanical or Hand
Quercus palustris	Pin Oak	600 seedlings/ac	Mechanical or Hand
Quercus michauxii	Swamp Chestnut Oak	600 seedlings/ac	Mechanical or Hand
Taxodium distichum	Bald Cypress	600 seedlings/ac	Mechanical or Hand
Platanus occidentalis	Sycamore	600 seedlings/ac	Mechanical or Hand
Carya laciniosa	Shellbark Hickory	600 seedlings/ac	Mechanical or Hand
Carya illinoinensis	Pecan[FacW]	600 seedlings/ac	Mechanical or Hand

Note:

- Planting mix for herbaceous species will consist of a mixture of a minimum of 4 perennial and I annual species to assure diversity
- Woody plantings will consist of a minimum of 5 species with no single tree species comprising more than 25% of the total planting.
- Spacing of woody plantings will be ~8' X 9'.
- Undesirable invasive species will be treated and controlled with appropriate herbicides according to manufacturer's recommendations. Desirable volunteer species will be encouraged. See the JF New Wooded Wetland Seed Mix for herbaceous species to be used.

Design Summary

Flooding Frequency and Magnitude:

Flooding frequency and magnitude for the undisturbed East Branch of Turman Creek adjacent to the proposed SEP mitigation site was considered in design of the constructed wetland. Current plans are to mine through the east branch; however, stream dimensions will be restored to the approximate pre-mining conditions. Enhancements to the stream channel will be made per the applicable Section 404 authorization. The SEP flooding frequency and magnitude design study is based on current channel dimensions and the restored channel will reflect the same approximate dimensions. Similar to premining conditions, reconstruction will not allow over bank flooding along the west bank of the east branch of Turman Creek. TR-20 Hydrographs were developed to predict watershed runoff for the one year (1 yr/24 hr) and two year (2 yr/24 hr) twenty four hour storm events. The rainfall events are 2.71 inches (1 yr/24 hr) and 3.11 inches (2 yr/24 hr). The watershed area upstream of the project area totaled 539.9 acres. An average runoff curve of 70 was applied with a time of concentration of 1.5 hours. The hydrograph model calculated peak discharge of 97.5 cfs and 145.5 cfs (see TR-20 Hydrograph Model Reports pages 1 and 2). Channel conveyance of the hydrograph modeled discharge was calculated using Mannings equation to determine the channel depth at design flow. Existing channel cross-sections were surveyed at three locations immediately adjacent to the proposed mitigation site (Section 5, 8, and 11). The predicted flow elevation (flood magnitude) for each cross-section was determined using Mannings equation. Input parameters of wetted perimeter and wetted cross-sectional area, channel slope, Mannings coefficient, and flow depth were used in the calculation to obtain a conveyance discharge capacity approximating the design runoff events. The predicted water surface elevation at this conveyance capacity was then used to interpolate the elevation at which overbank flooding could be predicted for the given recurrence interval of 1.8 years. The 1.8 year recurrence interval was derived from the USGS Scientific Investigations Report 2005-5153 - Bankfull Characteristics of Ohio Streams and Their Relation to Peak Streamflows.

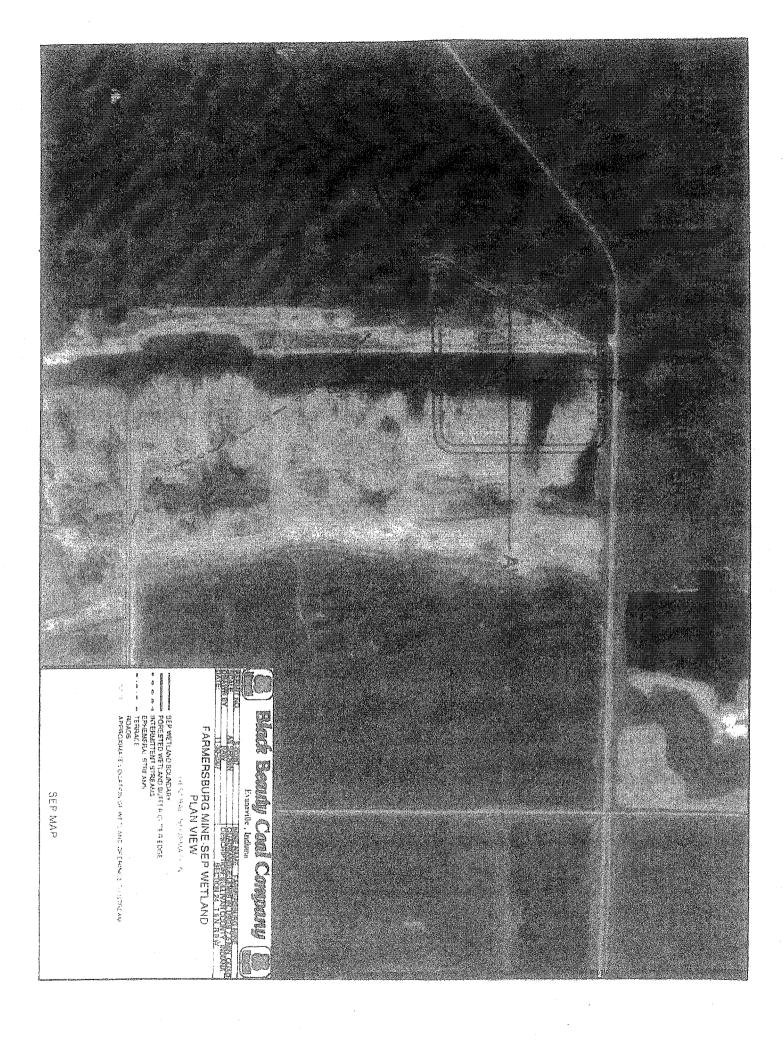
SEP Mitigation Site:

The calculated bankfull discharge was utilized to determine the elevation of the incipient point of flooding that would occur along the mitigated Turman Creek tributary for the proposed SEP mitigation site. The mitigation site will be constructed at the same elevation or below to ensure that inundation or saturation will occur to create adequate hydrology for the creation of hydric soils and success of hydrophytic

vegetation. A near flat topography will be constructed for the wetland. Criteria for wetland determination as found in the 1987 Corps of Engineers Wetland Delineation Manual will be used to validate the presence of hydrophytic vegetation and hydric soils. The site will be ultimately self-sustaining after the establishment of the permanent vegetation.

Proposed Direct Watershed Runoff:

In addition to the contribution of upstream overbank flooding from Turman Creek and its' tributaries an additional 240 acres of direct watershed will flow through the proposed SEP mitigation site. Hydrograph runoff models for the direct watershed were also developed for the (1 yr/24 hr) and (2 yr/24 hr) events. The TR-20 hydrographs predict a runoff volume for the direct watershed of 11.2 and 15.5 acrefeet, respectively. The direct watershed can be predicted to result in a contribution 0.3-0.4 feet of runoff depth across the entire 36 acre SEP mitigation site.



CERTIFICATION OF PLAN

I, Ann M. Nelson, P.E., certify ⁽²⁾ the plan entitled "Farmersburg Mine - SEP Wetland" was developed in accordance with prudent engineering principles and practices, and applicable design criteria.

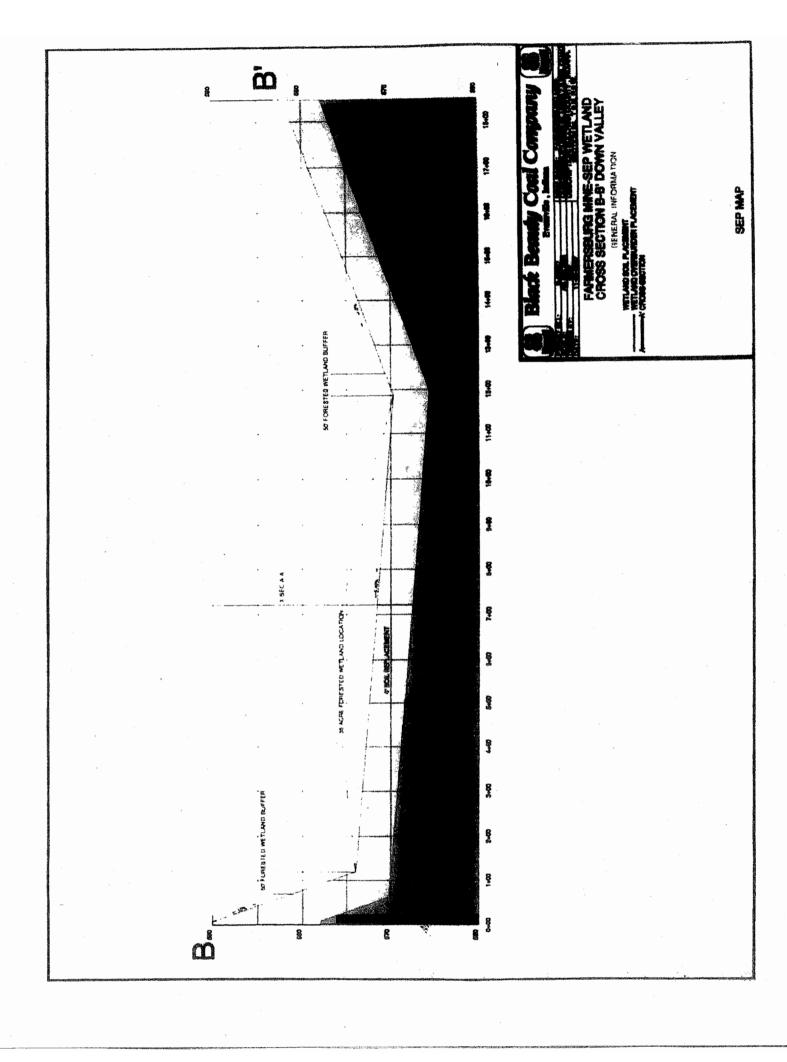


SIGNED: On W. Nelson

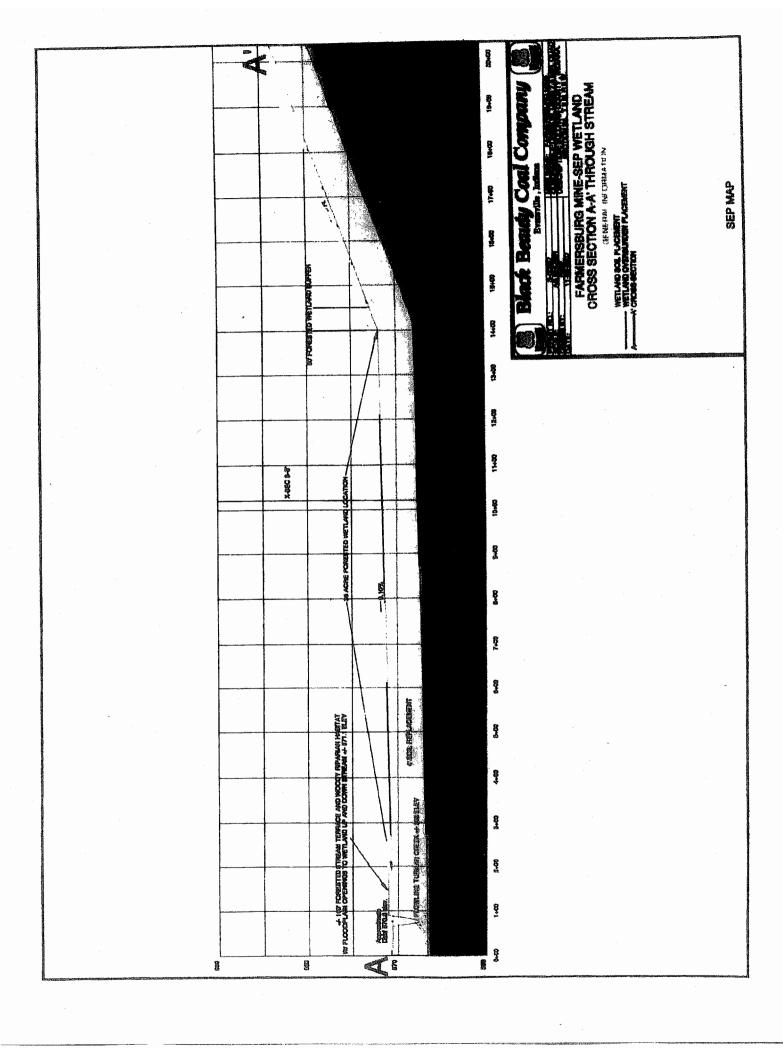
DATE: 12-3-07

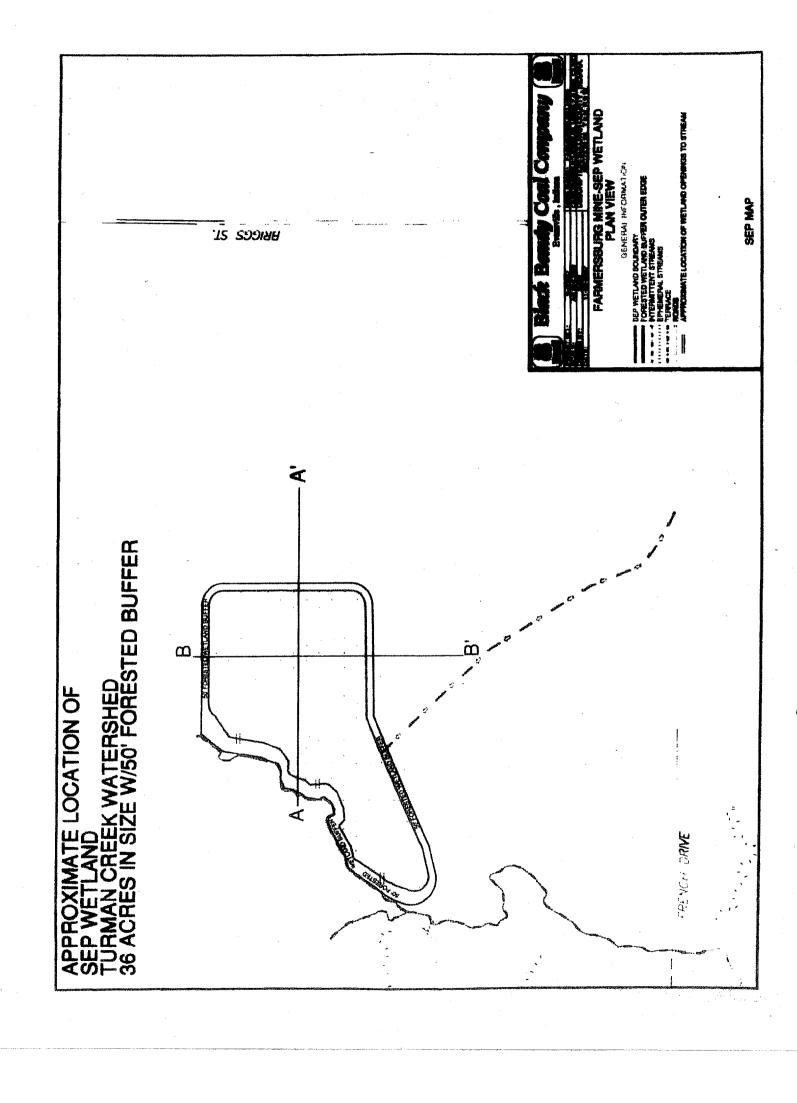
Peabody Energy

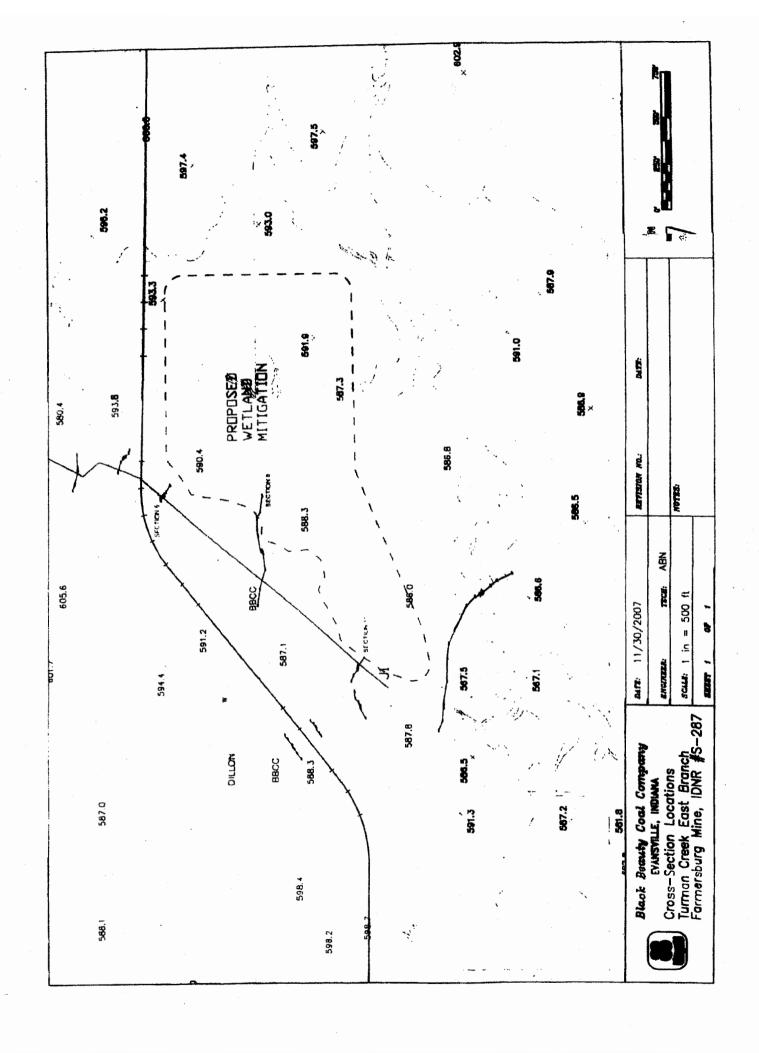
⁽²⁾ The term "certify," as used herein, is defined as follows: "An Engineer's certification of conditions is a declaration of professional judgment. It does not constitute a warranty or guarantee, either expressed or implied, nor does at relieve any other party of their responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances."



SEP MAP Turman Creek Section 8 1.89r/24hr Event Conveyance Section-Pre-Mining 37.6 84.1 3+10 F 2 2 2 273







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TR20 SCS - VERSION 2.04 Hyrdrograph Model
 Turman Creek East Branch Watershed
Runoff Storm Event lyr / 24hr, 2.71 inches
EXECUTIVE CONTROL COMPUT
                                    MAIN TIME INCREMENT = .100 HOURS
                                    FROM XSECTION 1 TO XSECTION 1
RAIN DEPTH = 2.71 RAIN DURATION = 1.00
     STARTING TIME = .00
     ANT. RUNDFF COND. = 2
                                      MAIN TIME INCREMENT =
                                                                  .100 HOURS
     ALTERNATE NO. = 1
                                      STORM NO. = 1
                                                                    RAIN TABLE NO. = 2
OPERATION RUNOFF
                        XSECTION
                                     1
           DUTPUT HYDROGRAPH = 6 RUNDFF AREA = 539.9 acres, 84 SQ MI INPUT RUNDFF CURVE = 70, TIME OF CONCENTRATION = 1.50 HOURS COMPUTED INTERNAL TIME INCREMENT = .0947 HOURS
           DUTPUT HYDROGRAPH = 6
                                     PEAK DISCHARGE(CFS)
                                                                       PEAK ELEVATION(FEET)
         12.95
                                                                              (RUNDFF)
                                              97.5
                         HYDROGRAPH POINTS FOR
                                                                          STORM = 1
                                                      ALTERNATE = 1,
                  MAIN TIME INCREMENT = .100 hr,
      HRS
                                                          DRAINAGE AREA =
                                                                                   .84 SQ.MI.
                                                                                  66.33
     11.80 CFS
                     .47
                               2.32
                                                                 36.38
                                                                          51.47
                                       6.63
                                               13.61
                                                        23.44
     12.60 CFS
                     78.86
                                       94.25
                              88.17
                                               97,22
                                                        97.28
                                                                  95.14
                                                                          91.03
                                                                                  84.99
     13.40 CFS
                     78.07
                                                       57.37
                              71.81
                                      66.42
                                               61.62
                                                                53.56
                                                                         50.03
     14.20 CFS
                     43.93
                                       38.95
                                               36.79
                                                                  33.07
                                                                          31.49
                              41.32
                                                        34.84
                                                                                   30.09
     15.00 CFS
                     28.83
                              27.71
                                      26.70
                                               25.78
                                                        24.95
                                                                 24.20
                                                                          23.50
                                                                                   22.85
     15.80 CFS
                     22.25
                                                                        19.06 18.57
                              21.69
                                       21.14
                                               20.61
                                                       20.09
                                                               19.57
     16.60 CFS
                     18.11
                             17.71
                                     17.34
                                                             16.40 16.13 15.88
                                             17.00
                                                     16.68
     17.40 CFS
                                                                       14.52
                     15.66
                             15.44
                                      15.24
                                              15.05
                                                      14.87
                                                               14.69
                                                                                14.35
     18.20 CFS
                                                     13.55 13.39 13.24
12.30 12.15 11.99
                     14.19
                             14.02
                                                                       13.24
                                     13.86
                                              13.71
                                                                                13.08
     19.00 CFS
                    12.93
                                      12.62
                             12.77
                                              12.46
                                                                               11.83
     19.80 CFS
                     11.67
                             11.51
                                     11.35 11.19 11.03 10.87 10.71 10.56
     20.60 CFS
                                                       9.92
                     10.41
                             10.27
                                            10.03
                                                               9.82
                                                                        9.74
                                                                                  9.66
                                     10.14
     21.40 CFS
                      9.59
                               9.53
                                        9.47
                                                 9.42
                                                         9.37
                                                                  9.33
                                                                           9,29
                                                                                     9.25
     22.20 CFS
                      9.21
                                        9.14
                                                9.11
                                                                 9.04
                                                                          9.01
                                                                                  8.98
                               9.18
                                                         9.08
     23.00 CFS
                                                                                    8.75
                      8.95
                               8.92
                                        8.89
                                                          8.84
                                                                 8.81
                                                                           8.78
                                                 8.87
     23.80 CFS
                      8.72
                                                                         8.09
                               8.69
                                                          8.51
                                                                  8.34
                                        8.66
                                                 8.61
                                                                                    7.72
     24.60 CFS
                      7.23
                               6.64
                                        5.99
                                                 5.31
                                                         4.64
                                                                  4.00
                                                                           3.41
                                                                                    2.87
     25.40 CFS
                      2.40
                               2.00
                                        1.68
                                                1.41
                                                         1.19
                                                                1.00
                                                                          .84
     26.20 CFS .59 .50
RUNDFF ABOVE BASEFLOW (BASEFLOW =
     26.20 CFS
                                                   .00 CFS)
                                                                          25.2 ACRE-FEET.
                        .56 WATERSHED INCHES;
                                                    304 CFS-HRS)
                       2
     DURATION(HRS)
                                                                        14
                                               8
                               4
                                       6
                                                               12
                                                        10
                                                                               14
     FLOW(CFS)
                       39
                                20
                                        14
                                                11
TR20 -
                                                                                         -- SCS -
                                                                                        VERSION
11/28/##
                                                                                       2.04TEST
                                 SUMMARY, JOB NO. 1
SUMMARY TABLE 1
10:51:25
                                                                                    PAGE
     SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
    A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:

LAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH
F-FLAT TOP HYDROGRAPH
XSECTION/ STANDARD STRUCTURE CONTROL
                                                                   PEAK DISCHARGE
                             DRAINAGE
                                          RUNOFF
                                                    ELEVATION TIME RAIL
              OPERATION
                              AREA
                                          AMOUNT
                                                                             RATE
                                                                                        RATE
                              (IM DZ)
                                          (IN)
                                                                                   (CSM)
RAINFALL OF
                 2.71 Inches AND 24.00 hr DURATION, BEGINS AT
                                                                        .0 hrs.
RAINTABLE NUMBER 2, ARC 2
MAIN TIME INCREMENT .100 HOURS
ALTERNATE 1 STORM 1
XSECTION 1 RUNDEF
                              .84
                                                                12.95
                                                                              38
                                                                                     116.7
                                          .56
                                         MITS: 11/30/2007
       Black Beauty Coal Company
                                                                       RETISION NO.:
                                                                                           DATE:
              EVANSVILLE, INDIANA
                                                             ABN
                                         EMODERALES:
                                                       TECH:
      TR-20 Hydrograph Model Report
      Turman Creek East Branch
      Farmersburg Mine, IDNR #S-287
                                          SHEET I
                                                    00 4
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TR20 SCS - VERSION 2.04 Hydrograph Model
Turman Creek East Branch Vatershed
Runoff Storm Event 2yr/24hr, 3.11 Inches
                                       MAIN TIME INCREMENT = .100 HOURS
EXECUTIVE CONTROL INCREME EXECUTIVE CONTROL COMPUT
                                        FROM XSECTION 1 TO XSECTION 1
RAIN DEPTH = 3.11 RAIN DURATION = 1.00
     STARTING TIME = .00
                                                                         .100 HOURS
     ANT. RUNDFF COND. = 2 ALTERNATE NO. = 1
                                          MAIN TIME INCREMENT =
                                                                           RAIN TABLE NO. = 2
                                           STORM NO. = 1
OPERATION RUNOFF
                           XSECTION
                                          1
            ULTPUT HYDROGRAPH = 6 RUNOFF AREA = 539.9 acres, .84 SQ MI
INPUT RUNOFF CURVE = 70. TIME OF CONCENTRATION = 1.50 HOURS
COMPUTED INTERNAL TIME INCREMENT = .0947 HOURS
TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION
                                                                                PEAK ELEVATION(FEET)
     PEAK TIME(HRS)
                                                                                       (RUNOFF)
                                                  145.4
         12.92
                   HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 1

MAIN TIME INCREMENT = .100 hr, DRAINAGE AREA = .84 SG.MI.
.34 1.52 5.08 12.39 23.83 39.55 59.56 82.12
       HRS
      11.70 CFS
                                                                                      140
                                                                           144
                                             134
                                                                                                    132
                                   122
                                                       142 145
      12.50 CFS
                          104
                                                                                80
     13.30 CFS
                          123
                                    112
                                               102
                                                           94
                                                                     87
                                                            49.89
                                                                                            42.29
                                                                                  44.54
                                                                        47.08
                                           56.46
                                                     53.01
                       64.51
                                 60.27
      14.10 CFS
     14.90 CFS
15.70 CFS
                                                    35.51 34.22 27.75 27.02
                                                                                   31.99
                                                                                            31.02
                                           36.93
                                                                         33.05
                        40.29
                                  38.51
                                                                                   25.59
                                                                                             24.90
                                 29.28
                                                                         26.30
                                           28.51
                        30.12
                                                                                  21.32
                                                                                            20.97
                                                              22.13
                                                                         21.71
      16.50 CFS
                       24.23
                                  23.62
                                            23.07
                                                     22.58
      17.30 CFS
                       20.64
                                 20.34
                                           20.05
                                                     19.78
                                                              19.53
                                                                        19.28
                                                                                  19.04
                                                                                           18.81
                                                                       17.52
                                                                                17.32
                                                                                          17.11
                                                             17.73
      18.10 CFS
                       18.59
                                 18.37
                                           18.15
                                                   17.94
                                                                       15.87
                                                                                15.67
                                                                                          15.46
      18,90 CFS
                                                   16.29
                                                             16.08
                       16.91
                                 16.70
                                          16,49
                                                                                          13.79
                                                                               13.99
      19.70 CFS
                       15.25
                                 15.04
                                          14.83
                                                   14.62
                                                             14.41
                                                                      14.20
                                                                       12.75
                                                                                12.63
                                                                                          12.51
      20.50 CFS
                       13.59
                                13.40
                                         13,22
                                                    13.05
                                                             12.89
     21.30 CFS
22.10 CFS
22.90 CFS
                                12.32
                       12.41
                                          12.24
                                                             12.10
                                                                      12.03 11.97
                                                                                        11.92
                                                   12.16
                                 11.55
                       11.87
                                 11.47
                        11.51
                                                                                       11.24
                                                                                      10.34
      23.70 CFS
                        11.20
                                                                                      5.11
                                                                                                4.35
      24.50 CFS
                         9.87
                                                       2.14
     25.30 CFS 3.66 3.03 .43
26.10 CFS .90 .76 .64 .53 .43
RUNDFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
.78 VATERSHED INCHES; 423 CFS-HRS; 34.9 ACRE-FEET.

DURATION(HRS) 2 4 6 8 10 12 14 15
26 26 19 14 12 11 2 0
                                                   .53
                                                                                             1.00
      25.30 CFS
                                                               ------ 2CS -
                                                                                                    VERSION
                                                                                                   2.04TEST
11/28/**
                                                                                               PAGE
10145144
                                      SUMMARY, JOB NO.
                                        SUMMARY TABLE 1
     SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
LAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH
 F-FLAT TOP HYDROGRAPH
                                                                             PEAK DISCHARGE
 XSECTION/ STANDARD
 STRUCTURE
                  CONTROL
                                  DRAINAGE RUNDFF
                                                         ELEVATIUM (HR)
                                                AMDUNT
                                                                                        RATE
                                                                                                   RATE
                OPERATION
                                   AREA
                                                                                    (CFS)
                                                                                               (CSM)
                                   (IM DZ)
                                                (IN)
                     3.11 Inches AND 24.00 hr DURATION, BEGINS AT
 RAINFALL DF
 RAINTABLE NUMBER 2, ARC 2
MAIN TIME INCREMENT .100 HOURS
ALTERNATE 1 STORM 1
 XSECTION 1 RUNOFF
                                                                                      145
                                                                                               172.6
                                   .84
                                                .78
                                                                         12.92
                                               AMTR: 11/30/2007
                                                                                                      2455
                                                                                BETTERON WOL
         Black Beauty Coal Company
               EVANSVILLE, INDIANA
                                                              TECET ABN
                                               ENCINEES:
        TR-20 Hydrograph Model Report
                                                                               MOTES:
       Turman Creek East Branch
        Farmersburg Mine, IDNR #S-287
                                               SMERT S
                                                          OF 4
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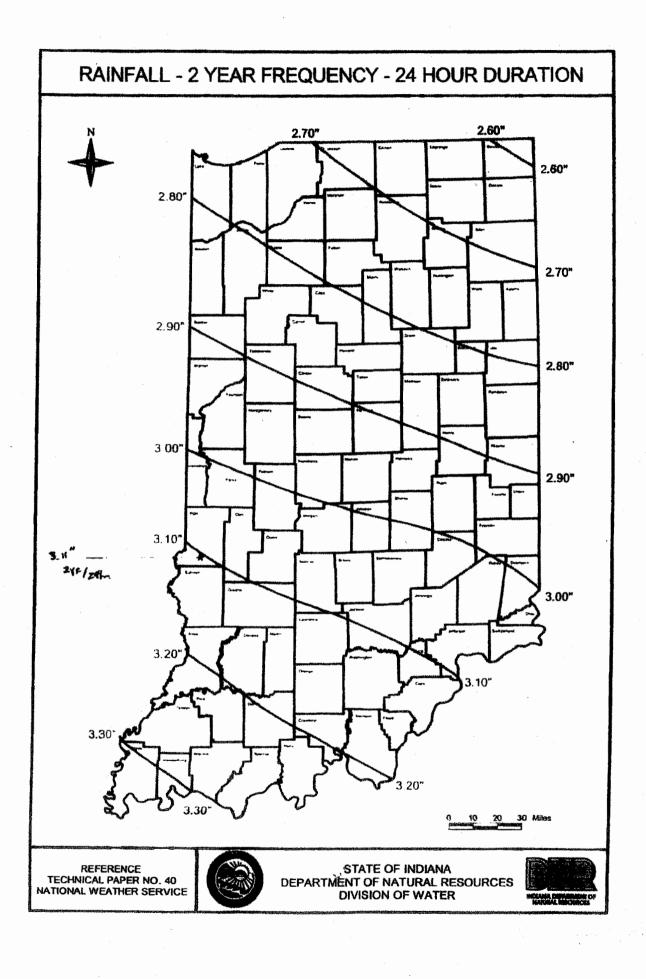
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TR20 SCS - Version 2.04 Hydrograph Model
SEP Mitigation Wetland Direct Post-Mine Reclaimed Watershed
Runoff Storm Event lyr/24hr, 2.71 Inches
EXECUTIVE CONTROL INCREM EXECUTIVE CONTROL COMPUT
                                   MAIN TIME INCREMENT =
                                                               .100 HOURS
                                   FROM XSECTION 1 TO XSECTION RAIN DEPTH = 2.71 RAIN
                                                                  RAIN DURATION = 1.00
     STARTING TIME = .00
                                      MAIN TIME INCREMENT =
     ANT, RUNDFF COND. = 2
                                                                  .100 HOURS
     ALTERNATE NO. = 1
                                      STORM NO. = 1
                                                                   RAIN TABLE NO. = 2
DPERATION RUNDEF
                       XSECTION
           DUTPUT HYDROGRAPH = 6 Runoff AREA = ~240 acres, .38 SQ MI
           INPUT RUNDIFF CURVE = 70. TIME OF CONCENTRATION = 1.00 HOURS COMPUTED INTERNAL TIME INCREMENT = .0923 HOURS
                                     PEAK DISCHARGE(CFS)
     PEAK TIME(HRS)
                                                                       PEAK ELEVATION(FEET)
                                                                              (RUNDFF)
        12.60
                                              57.0
                        HYDROGRAPH POINTS FOR
                                                      ALTERNATE = 1,
                                                                          STORM = 1
                                                           DRAINAGE AREA =
                                                                                  .38 SQ.MI.
                 MAIN TIME INCREMENT = .100 hr,
      HRS
     11.70 CFS
                       .07
                               .65
                                        3.01
                                                8.39
                                                        17.26
                                                                28.93
                                                                         40.86
                                                                                  50.12
                                                        45.57
                     55.45
                                                                 40.25
                                                                          35.83
     12.50 CFS
                              56.98
                                       55.34
                                                51.18
                                                                                   32.15
                                                        20.26
     13.30 CFS
                     28.98
                              26.24
                                       23.93
                                                21.96
                                                                 1B.79
                                                                          17.52
                                                                                  16.42
                                                                             11.15
     14.10 CFS
                    15.46
                             14.59
                                      13.82
                                              13.14
                                                       12.54
                                                               12.01 11.56
                                               9.90
                                                                 9.47
                                                                          9.27
                                                                                   9.08
     14.90 CFS
                     10.77
                             10,44
                                      10.15
                                                        9.68
                               8.71
                                                                  7.97
                                                                           7.80
     15.70 CFS
                      8.89
                                        8.52
                                                 8.34
                                                          8.15
                                                                                    7.63
                                                         6.97
                                                                   6.88
                                                                            6.79
                                                                                     6.71
     16.50 CFS
                      7.47
                               7.32
                                        7.19
                                                 7.08
                                                                            6.21
     17.30 CFS
                      6.63
                               6.56
                                        6.49
                                                 6.42
                                                          6.35
                                                                   6.28
                                                                                     6.15
                                                                           5.68
     18.10 CFS
                      6.08
                               6.01
                                       5.<del>9</del>5
                                                5.88
                                                         5.81
                                                                  5.75
                                                                                    5.61
     18.90 CFS
                                                 5.34
                                                          5.27
                                                                   5.20
                                                                                    5.05
                      5.54
                               5.48
                                        5.41
                                                                            5.13
     19.70 CFS
                      4.98
                               4.91
                                        4.84
                                                 4.77
                                                          4.69
                                                                   4.62
                                                                            4.55
                                                                                     4.49
     20.50 CFS
                                                          4.25
                                                                   4.22
                                                                                      4.17
                      4.43
                               4.37
                                        4.32
                                                 4.28
                                                                            4.20
     21.30 CFS
                      4.16
                               4.14
                                        4.12
                                                4.11
                                                        4.09
                                                                 4.08
                                                                          4.06
                                                                                   4.05
                                                         3.99
                                                                                    3.95
                               4.02
                                                4.00
                                                                  3.98
                                                                           3.96
     22.10 CFS
                      4.04
                                        4.01
     22.90 CFS
                      3.94
                                3.93
                                                 3,90
                                                          3.89
                                                                                     3.85
                                        3.91
                                                                   3.88
                                                                            3.86
     23.70 CFS
                      3.84
                                3.82
                                         3.81
                                                 3.79
                                                          3.75
                                                                   3.64
                                                                            3.45
                                                                                     3.15
                               2.34
     24.50 CFS
                      2.77
                                        1.92
                                                 1.52
                                                          1.18
                                                                   .91
                                                                            .71
                                                                                     .55
     25.30 CFS
             ABOVE BASEFLOW (BASEFLOW = .00 CFS)
.56 WATERSHED INCHES; 135 CFS-HRS; Runoff Volume = 11.2 ACRE-FEET.
INCHRS) 2 4 6 8 10 12 14
     RUNDFF ABOVE BASEFLOW (BASEFLOW =
                                                                12
                                               8
     DURATION(HRS)
     FLOV(CFS)
                                                                                          - SCS -
                                                                                         VERSION
                                                                                        2.04TEST
11/30/**
10:36:35
                                  SUMMARY, JDB ND.
                                                                                     PAGE
                                    SUMMARY TABLE 1
     SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
     A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:

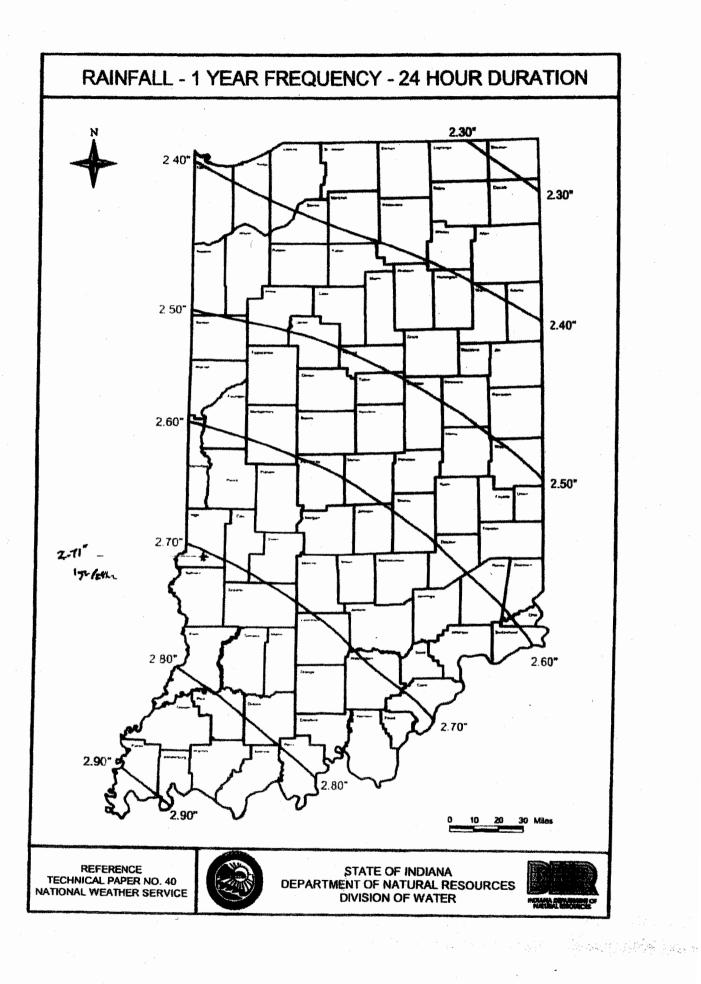
LAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH
 F-FLAT TOP HYDROGRAPH
 XSECTION/ STANDARD
                                                                    PEAK DISCHARGE
 STRUCTURE
                              DRAINAGE
                                           RUNDFF
               CONTROL
                                                     ELEVATION TIME
                                                                             RATE RATE
                                          AMOUNT
              OPERATION
                               AREA
                                                              (HR)
                                                                            (CFS)
                               (SQ MD)
                                           (IN)
                                                                                     (CSM)
                                                      (FT)
 RAINFALL OF
                 2.71 Inches AND 24.00 hr DURATION, BEGINS AT
                                                                          .0 hrs.
 RAINTABLE NUMBER 2, MAIN TIME INCREMENT .1
                            ARC 2
                           .100 HOURS
    ALTERNATE
                   1 STORM 1
                          . .38
 XSECTION 1 RUNOFF
                                           .56
                                                                 12.60
                                                                              57
                                                                                      150.0
        Black Beauty Coal Company
              EVANSVILLE, INDIANA
       TR-20 Hydrograph Model Report
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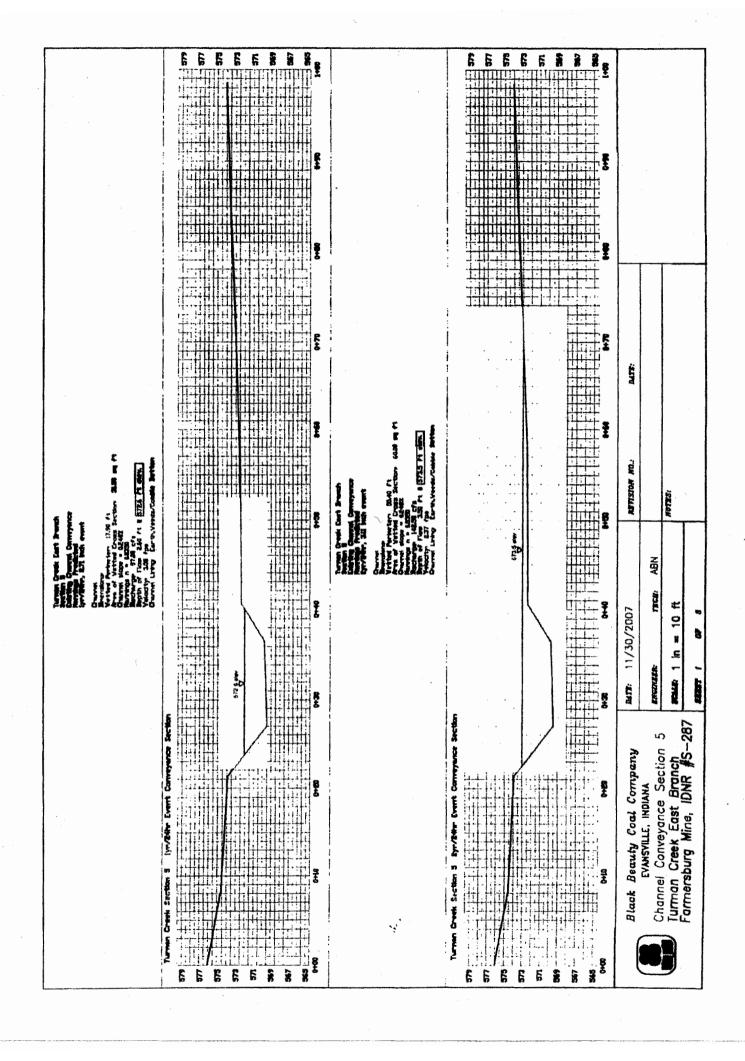
SEP Mitigation Area Watershed Farmersburg Mine, IDNR #S-287

MIE: 11/30/2007	REVISION NO.: BATES
KNOCKERS: TECH: ABN	
	HOTES:
SERST 2 OF 4	

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TR20 SCS - Version 2.04 Hydrograph Model
SEP Mitigation Wetland Birect Post-Mine Reclaimed Watershed
Runoff Storm Event 2yr/24hr; 3.111 Inches
EXECUTIVE CONTROL INCREM
EXECUTIVE CONTROL COMPUT
                                  MAIN TIME INCREMENT =
                                                              .100 HOURS
                                   FROM XSECTION 1 TO XSECTION
RAIN DEPTH = 3.11 RAIN I
                                                                 RAIN DURATION =
     STARTING TIME = .00
                                                                .100 HOURS
                                     MAIN TIME INCREMENT =
     ANT. RUNDFF COND. = 2
                                                                  RAIN TABLE NO. = 2
     ALTERNATE NO. = 1
                                     STORM NO. = 1
                       XSECTION
OPERATION RUNOFF
            DUTPUT HYDROGRAPH = 6 Runoff AREA = ~240 acres, .38 SQ MI
                                        TIME OF CONCENTRATION = 1.00 HOURS
           INPUT RUNDFF CURVE = 70.
           COMPUTED INTERNAL TIME INCREMENT = .0923 HOURS
                                                                      PEAK ELEVATION(FEET)
                                    PEAK DISCHARGE(CFS)
     PEAK TIME(HRS)
                                                                            (RUNDEF)
        12.57
                                             85.5
                                                                         STORM = 1
                        HYDROGRAPH POINTS FOR
                                                     ALTERNATE = 1,
                                                                                 .1M.D2 8E.
                                                          DRAINAGE AREA =
                 MAIN TIME INCREMENT = .100 hr.
      HRS.
                                                                                 77.43
                                                       29.66
                                                               47.24
                                                                        64.54
     11.70 CFS
                              2.02
                                       6.53
                                              15.61
                      .46
                                                                         50.71
                                      81.39
                                              74.26
                                                                57.45
                                                                                 45.12
     12.50 CFS
                             85.25
                                                       65.61
                     84.21
                                                                                  22.08
     13.30 CFS
                             36.32
                                      32.91
                                               30.03
                                                       27.56
                                                                25.43
                                                                         23.64
                     40.37
                                                     16.62
                                                              15.89
                                                                      15.26
                                                                              14.69
                                             17.45
                            19.49
     14.10 CFS
                    20.71
                                     18.41
                                                                              11.87
     14.90 CFS
                    14.17
                             13.71
                                     13.31
                                             12.98
                                                     12.68
                                                              12.40
                                                                      12.13
                                                           10.39
                                            10.87
                                                                             9.93
                                                                     10.15
                                                    10.63
     15.70 CFS
                    11.62
                             11.37
                                     11.12
                               9.53
                                        9.35
                                                9.20
                                                         9.05
                                                                  8.93
                                                                          8.81
                                                                                   8.70
                      9.72
     16.50 CFS
                                                                                  7.95
     17.30 CFS
                      8.60
                               8.50
                                       8.41
                                                8.31
                                                        8.22
                                                                 8.13
                                                                         8.04
                                                         7.51
                                                                 7.42
                                                                          7.33
                                                                                   7.24
     18.10 CFS
                     7.87
                              7.78
                                       7.69
                                                7.60
     18.90 CFS
                                                         6.79
                                                                  6.70
                                                                                   6.51
                      7.15
                              7.06
                                       6.97
                                                6.88
                                        6,23
                                                         6.04
                                                                  5.95
                                                                          5.86
                                                                                   5.77
     19.70 CFS
                      6.42
                               6.32
                                                6.14
                                                                           5.39
                                        5.56
                                                 5.51
                                                         5.46
                                                                  5.42
                                                                                    5,36
     20.50 CFS
                      5.69
                               5.62
                                                         5.25
                                                                  5.23
                                                                                   5.19
                               5.31
                                       5.29
                                                5.27
                                                                          5.21
     21.30 CFS
                      5.34
                              5.16
                                       5.14
                                               5.13
                                                        5.11
                                                                5.09
                                                                         5.08
                                                                                 5.06
     22.10 CFS
                      5.18
                                                                                    4.93
                                                4.99
                                                                  4.96
                                                                          4.94
                                                         4.98
     22.90 CFS
                      5.04
                               5.03
                                        5.01
                                                 4.85
                                                         4.79
                                                                  4.66
                                                                           4.41
                                                                                    4.03
                      4.91
                               4.89
                                        4.87
     23.70 CFS
                                                                                   .70
     24.50 CFS
                      3.54
                               3.00
                                        2.45
                                                1.95
                                                         1.52
                                                                  1.17
                                                                           .91
     25.30 CFS .55 .42
RUNDFF ABOVE BASEFLOV (BASEFLOV =
                                                    .00 CFS)
                                        188 CFS-HRS; Runoff Volume = 15.5 ACRE-FEET
             .78 WATERSHED INCHES
     DURATION(HRS)
                      2
                               4
                                                         5
                               11
                                        8
                                                6
     FLOW(CFS)
TR20 ----
                                                                                          SCS
                                                                                         VERSION
                                                                                       2.04TEST
11/30/**
                                 SUMMARY, JOB NO.
SUMMARY TABLE 1
                                                                                   PAGE
10:37:49
     SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
     A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
LAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH
 F-FLAT TOP HYDROGRAPH
  XSECTION/ STANDARD
                                                                   PEAK DISCHARGE
                              DRAINAGE
                                          RUNDFF
  STRUCTURE
                CONTROL
               OPERATION
                               AREA
                                          AMDUNT
                                                     ELEVATION
                                                                  TIME
                                                                              RATE
                                                                                        RATE
                                                     (FT)
                                                                (HR)
                                                                           (CFS)
                               (SQ MD)
                                           (IN)
                                                                                    (CSM)
                  3.11 inches AND 24.00 hr DURATION, BEGINS AT
                                                                        .0 hrs.
 RAINFALL OF
 RAINTABLE NUMBER 2,
                              ARC 2
                           ,100 HOURS
 MAIN TIME INCREMENT
     ALTERNATE
                          STORM
                                  1
                    1
              1 RUNOFF
                                          .78
                                                                12.57
                                                                              85
                                                                                     223.7
 XSECTION
                                 .38
                                               11/30/2007
        Black Beauty Coal Company
                                                                      REVISION NO.:
                                                                                          DATE:
               EVANSVILLE, INDIANA
                                                             ABN
                                                       TTCH:
       TR-20 Hydrograph Model Report
                                                                      MOTER:
       SEP Mitigation Area Watershed
       Farmersburg Mine, IDNR #S-287
                                          SERET A
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			572 578 678	571 569 567 567 548 548	
and my fit.		f f section 2000 mg ft section 2		3+20	Po. DATT:
Duran, Dreth Last Bruch Burton During Charrel Construct Friden. 2.11 won Cremi Charrel Charrel Friden. 2.21 won Cremi Burton Friden. 2.21 won Cremi Burton Friden. 2.21 won Cremi Burton Charrel Friden. 2.21 won Cremi Burton Friden. 2.21 won Cremi Burton Friden. 2.21 won Burton Friden. 2.22 won ESTE Friden Friden. 2.2		Bernan Corté Lari Proco- Bertan I Commingato Bertan I Commingato Bertan I Commingato Bertan I Languare Commingator Commi		9-50 On-C	EMENTER TTCE ABN NOTES: SCLLE: 1 in = 10 ft SHEFT R OF 3
	Turnan Creek Section 9 Iye/Bêre Event Conveyance Section 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Turnen Creek Section B Sys/24th Event Conveyance Section		2+59 g+5	Black Beauty Coal Company MTE: EVANSVILLE, INDIANA Channel Conveyance Section B Turman Creek East Branch Farmersburg Mine, IDNR #S-287
	977 977 987 988 985	.	F 22	•	

