



Public Service Commission

State of North Dakota

COMMISSIONERS

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Randy Christmann
Julie Fedorchak

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January 17, 2014

Jeffrey W. Fleischman, Director
OSM Casper Field Office
P.O. Box 11018
150 East "B" Street
Casper, WY 82602-5004

RE: Request for Authorization to Proceed for 2014 Hazen West Phase 3 and 2014 Exploratory Drilling Projects and Request for Concurrence for 2014 Beulah/Zap, 2014 Scranton/Bowman and 2014 Sinkhole Filling Projects in North Dakota.

Dear Mr. Fleischman:

Please find enclosed documentation to support our Request for Authorization to Proceed with the 2014 Hazen West Phase 3 and 2014 Exploratory Drilling Projects. An environmental assessment and a Categorical Exclusion form for these proposed projects and eligibility determination letter are attached.

We are also planning an additional phase (Phase 15) for the Beulah/Zap Project, an additional phase (Phase 2) for the Scranton/Bowman Project and another sinkhole filling project. The scope of work and project locations for the Beulah/Zap and Scranton/Bowman projects will be generally unchanged from 2013. The scope of work and locations for the 2014 sinkhole filling will depend on where dangerous abandoned underground mine subsidence occurs; but we anticipate subsidence will occur mainly in locations where previous reclamation has been approved.

We believe no formal requests for authorization to proceed are needed to continue work on the 2014 Beulah/Zap Phase 15, 2014 Scranton Bowman Phase 2, and 2014 Sinkhole Filling Projects, but request your concurrence that we are already authorized to proceed on them. We will continue to consult with your office on any emergency projects or other projects that require rapid response.

Mr. Jeffrey Fleischman
January 17, 2014
Page 2 of 3

We have requested concurrence for our proposed 2014 projects from the State Historical Society of North Dakota, U.S. Fish and Wildlife Service, North Dakota Parks and Recreation Department, and the North Dakota Department of Health. Copies of our letters and their responses are attached. Since no off-site pit dewatering is planned and all runoff from areas to be affected at the Hazen West project site will flow into abandoned mine pits, consultation with the Army Corps of Engineers is not needed.

A public meeting is scheduled for January 23, 2014, in Beulah to discuss the Hazen West, Beulah/Zap and sinkhole projects and any other AML issues around Beulah. All affected property owners or controllers for our proposed 2014 AML projects have been contacted and consents for right-of-entry will be executed before any work begins.

AMLIS Problem Area Descriptions for the sites are also attached. If additional information is needed or you have any questions, feel free to call Bill Dodd at 701-328-4101 or me at 701-328-2251.

Sincerely,

A handwritten signature in blue ink, appearing to read "James R. Deutsch", is written over the typed name.

James R. Deutsch
Director
Reclamation and AML Divisions

Enclosures

List of Attachments

1. Brief Narratives About the Proposed 2014 Projects
2. Project Location Maps for 2014 Hazen West, Beulah/Zap, Scranton/Bowman and Exploratory Drilling AML Projects
3. Standardized Environmental Assessment for 2014 Hazen West Phase 3 Project and Categorical Exclusion form for Exploratory Drilling Project.
4. Requests for Concurrence for 2014 proposed AML Projects and responses received to date
 - ND State Historical Society (with response)
 - ND Department of Health (with response)
 - ND Parks & Recreation Department (with response)
 - U.S. Fish and Wildlife Service (with response)
5. Eligibility Determination for 2014 Hazen West
6. AMLIS PAD Summaries for Proposed 2014 Project Sites.

The following major projects are proposed for reclamation during the 2014 construction season:

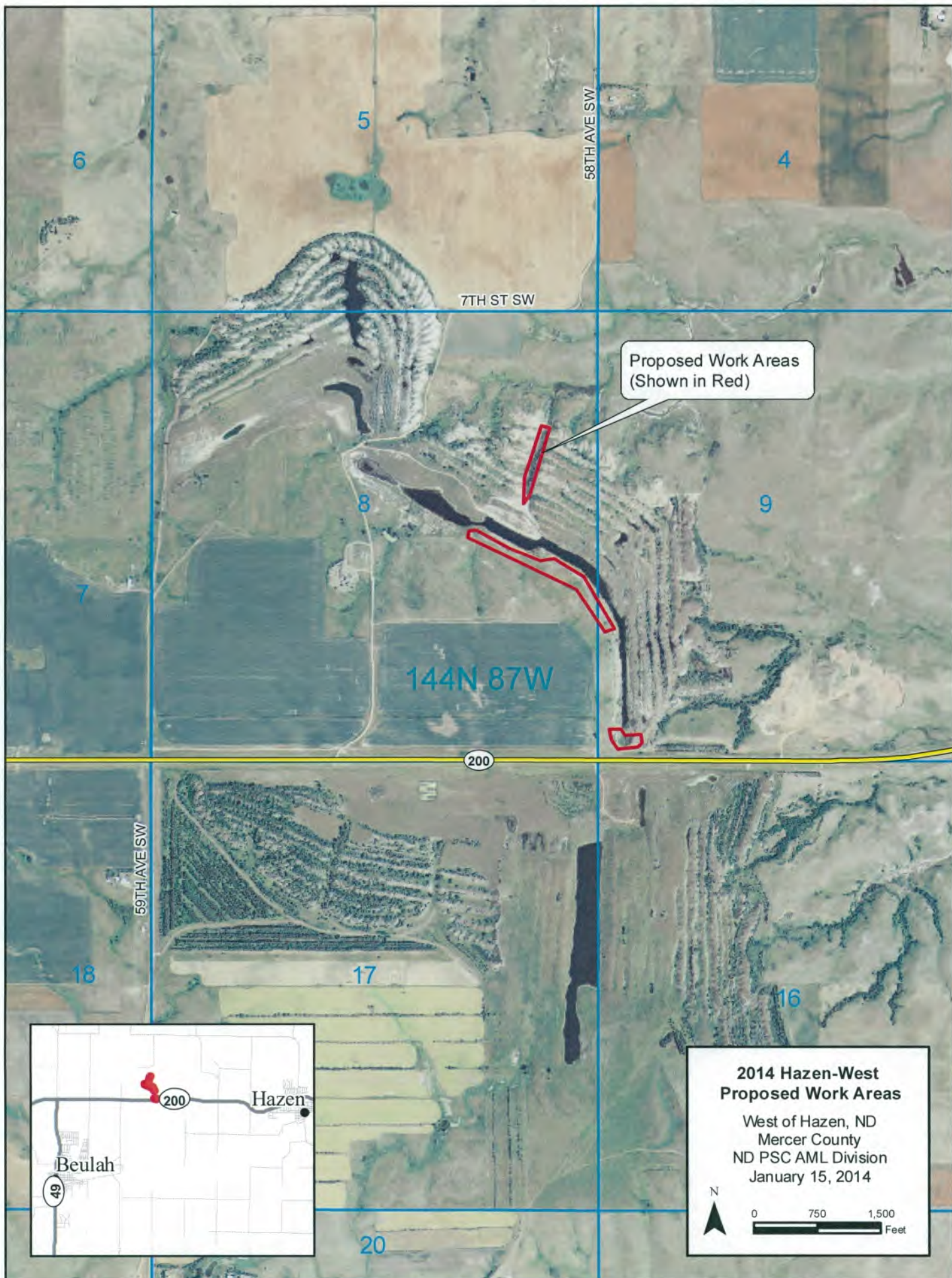
Hazen West Phase 3: This 35 acre project will eliminate about 3,500 feet of hazardous highwalls at an abandoned surface mine west of Hazen in Mercer County on the north side of State Highway 200. This AML site is characterized by steep highwalls that are up to 80 feet high. Some of the erosion features along the highwalls extend into the surrounding land. The proposed reclamation work involves backfilling the highwalls with earthen material from adjacent spoil piles. About 350,000 cubic yards of spoil material will need to be moved in the reclamation process. The estimated project cost is \$1,500,000.

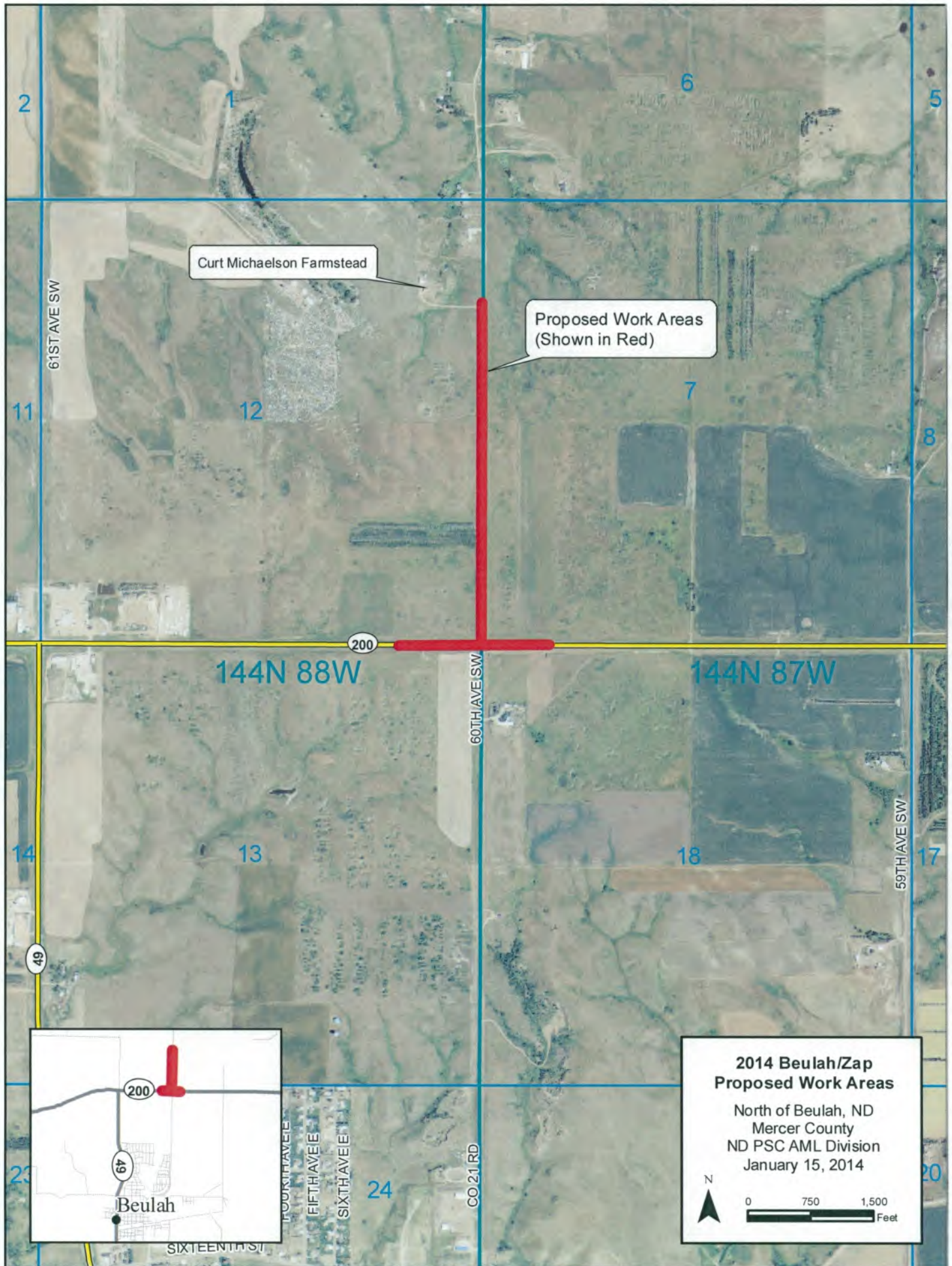
Beulah/Zap Phase 15: This project will involve drilling and pumping pressurized grout into collapsed underground mine workings under public roads north of Beulah in Mercer County. This project consists of rotary drilling, casing drill holes where voids are found, pumping of grout, and grout testing. It is estimated that 5,000 cubic yards of grout will be pumped into mine voids in 2014 and about 10,000 feet of drilling will be carried out in this area. The estimated project cost is \$925,000.

Scranton/Bowman Phase 2: This project also involves drilling and pumping pressurized grout into collapsed underground mine workings. The sites are under public roads near Scranton and Bowman and at an occupied farmstead near Reeder, all in southwestern North Dakota. This project consists of rotary drilling, casing drill holes where voids are found, pumping of grout, and grout testing. It is estimated that 3,000 cubic yards of grout will be pumped into mine voids and about 9,500 feet of drilling will be carried out in these areas. The estimated project cost is \$825,000.

Exploratory Drilling: Some of the available construction funds, estimated at \$230,000, will be used for an exploratory drilling project to investigate suspected abandoned underground coal mines. This project may be conducted at several locations, principally near Wilton, in western North Dakota.

Sinkhole Filling and Construction Maintenance: Some of the available construction funds, about \$100,000, will be used for a maintenance project to backfill hazardous sinkholes that have been caused by underground mines. These funds may also be used to repair erosion and conduct other maintenance on reclaimed surface mine sites. If necessary, some of these funds will be used for emergency projects.







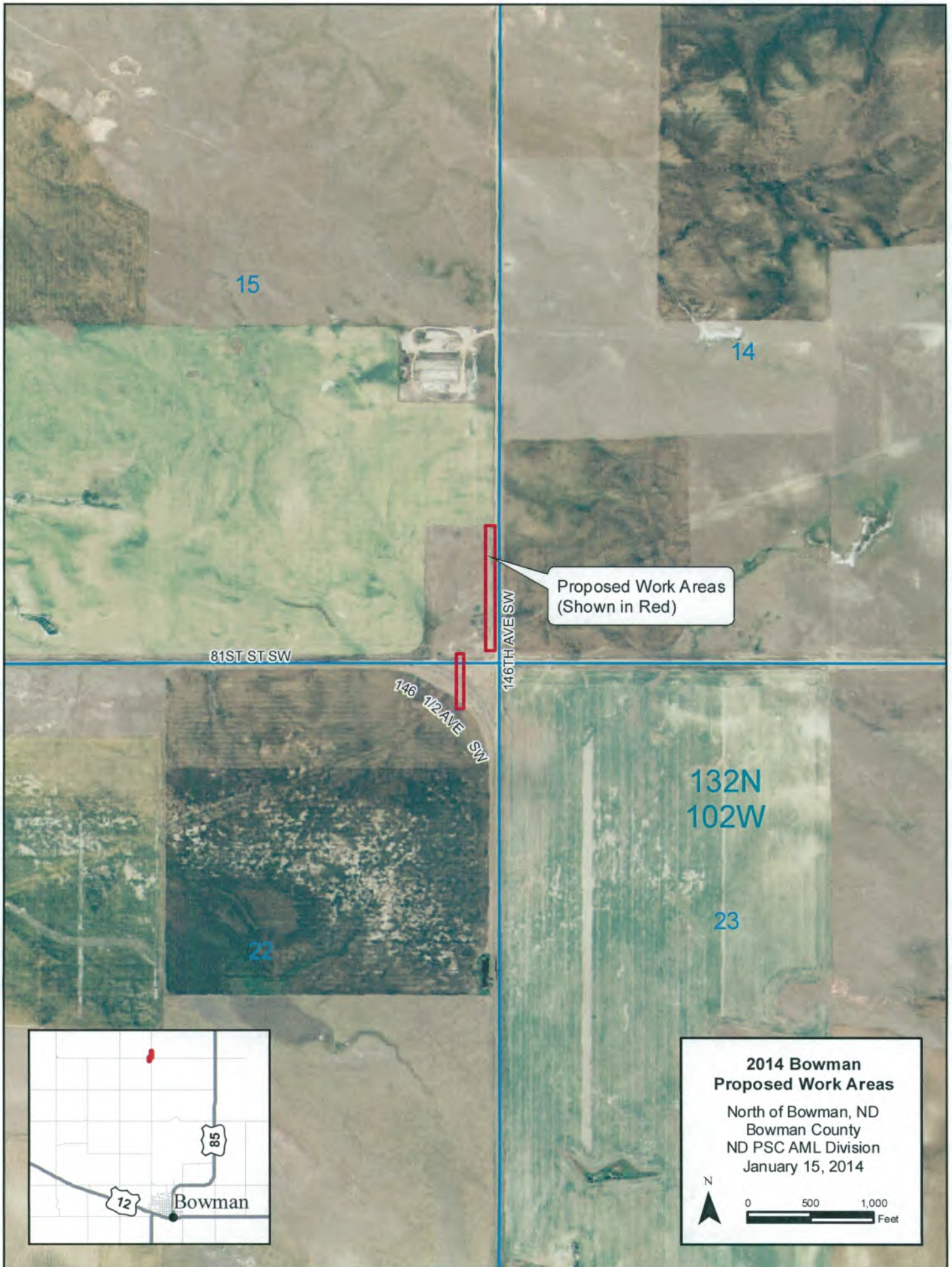
**2014 North Scranton
Proposed Work Areas**

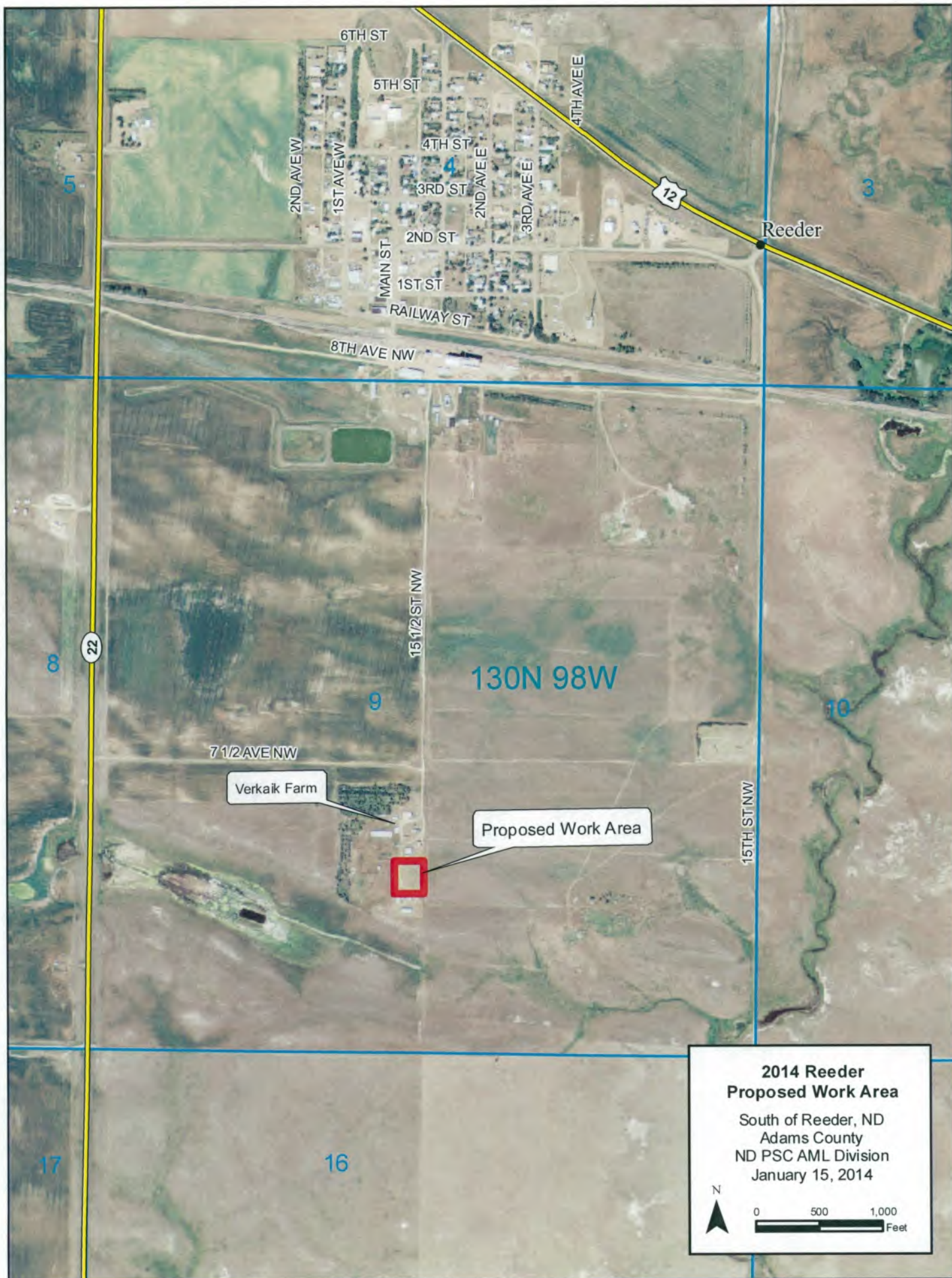
Scranton, ND
Bowman County
ND PSC AML Division
January 15, 2014

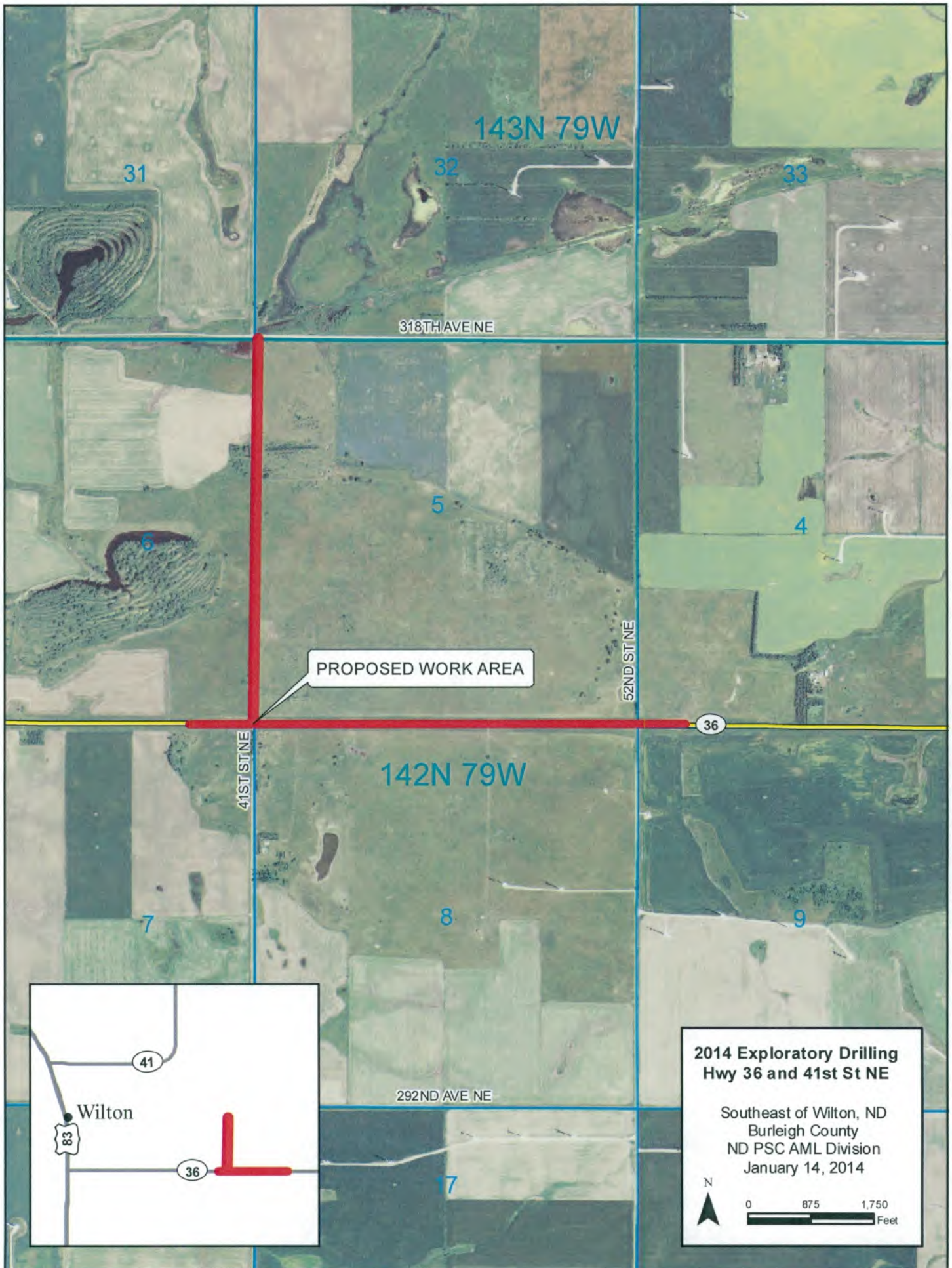


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**ABANDONED MINE LANDS
CATEGORICAL EXCLUSION DETERMINATION**

State: ND PA# Not Applicable

Project Name: 2014 Exploratory Drilling

Project Description: Abandoned Underground Mine Exploratory Drilling

Yes responses require submission of an environmental assessment.

I. GENERAL EXCEPTIONS

Does the project type specifically require an EA in 516 DM 6, Appendix 8, as specified in Item I of the attached instructions?

No ☒ Yes ☐

II. DEPARTMENT OF INTERIOR EXCEPTIONS

Will the project have any of the following:

No ☒ Yes ☐

A significant adverse effect on public health or safety?

An adverse effect on any of the following unique geographic characteristics?

No ☒ Yes ☐

If yes, check the ones that apply.

☐ Parks (State, Local, or National)

☐ Wild or Scenic Rivers

☐ Recreation or Refuge Lands

☐ Wetlands

☐ Wilderness Areas

☐ Floodplains

☐ Ecologically Significant or Critical Areas

☐ Sole or Principal Drinking Water

☐ Prime Farmlands

☐ Aquifers

Highly controversial environmental effects?

No ☒ Yes ☐

Highly uncertain and potentially significant environmental effects or unique or unknown environmental risks?

No ☒ Yes ☐

A precedent for future action or a decision in principle about future actions with potentially significant environmental effects?

No ☒ Yes ☐

Directly related to other actions with individually insignificant but cumulatively significant environmental effects?

No ☒ Yes ☐

Adverse effects on properties listed or eligible for listing on the National Register of Historic Places?

No ☒ Yes ☐

Adverse effects on species listed or proposed to be listed on the List of Endangered or Threatened Species, or have adverse effects on designated Critical Habitat for these species?

No ☒ Yes ☐

Require compliance with Executive Order 11988 (Floodplain Management), Executive Order 11990 (Wetlands Protection) or The Fish and Wildlife Coordination Act?

No [x] Yes []

Threaten to violate a Federal, State, Tribal or local law or requirement imposed for the protection of the environment?

No [x] Yes []

III. RESOURCE IMPACT EXCEPTIONS

Are there any unresolved issues, or adverse effects requiring specialized mitigation, for any of the following resources? If yes, check the ones that apply.

No [x] Yes []

- | | |
|-------------------------------------------------------------|----------------------------------------------------------|
| <input type="checkbox"/> Topography | <input type="checkbox"/> Historic and Cultural |
| <input type="checkbox"/> Land Use (includes prime farmland) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Soils | <input type="checkbox"/> Air Quality |
| <input type="checkbox"/> Vegetation (includes wetlands) | <input type="checkbox"/> Noise |
| <input type="checkbox"/> Hydrology | <input type="checkbox"/> Other (includes socioeconomics) |
| <input type="checkbox"/> Fish and Wildlife | |

IV. ATTACH CONSULTATION LETTERS AND A LOCATION MAP

V. RESPONSIBLE OFFICIAL CERTIFICATION

Signature: William E. Dodd Date: January 17, 2014

Name and Title: William E. Dodd, Assistant Director, AML Division

VI. OSM DETERMINATION

☒ This project conforms with the exclusion criteria in 516 DM 6, Appendix 8, and is excluded from further NEPA compliance.

☐ This project does not conform with the exclusion criteria in 516 DM 6, Appendix 8, and requires an environmental assessment.

Signature: [Signature] Date: 1-22-14
Name and Title: FOP

STANDARDIZED ENVIRONMENTAL ASSESSMENT

**Hazen-West Phase 3
Abandoned Mine Lands Project
ND089
Mercer County, North Dakota**

Prepared by

North Dakota Public Service Commission

In Cooperation With

**United States Department of Interior
Office of Surface Mining Reclamation and Enforcement
Casper Field Office**

(January 2014)

Section I Introduction

A. Need for the Action

The principal objective of the Public Service Commission is to reclaim potentially hazardous portions of a surface coal mine located within Sections 8 and 9, T144N, R87W. This site is approximately four miles west of Hazen, North Dakota, population 2,411 and three miles northeast of Beulah, North Dakota, population 3,121. The surface mine contains dangerous highwalls near roads. About 35 acres of surface mine will be reclaimed with the Hazen-West Phase 3 Project, but the entire mine site is much larger.

To our knowledge, there have been no instances of death or personal injury attributable to the abandoned mine; however, the potential for death or injury is inherent due to the location of the abandoned mine.

B. Project Background

The Hazen-West Problem Area is composed of an extensive surface coal mine located in Mercer County, T144N, R87W, Sections 5, 8, 9, 16 and 17. This AML site is characterized by dangerous highwalls near roads. The land is currently owned by the North Dakota Game and Fish Department and serves as a Wildlife Management Area.

The Hazen-West AML site is within four miles of the corporate limits of Hazen, North Dakota, and encompasses approximately 185 acres. Mining was conducted from the 1950's to the 1960's. The area is currently used for wildlife habitat. Anticipated land use of the area will remain as a wildlife management area.

Section II

Description of the Proposed Project and Alternatives

The proposed reclamation project for this site will be beneficial to the general public and meets the requirements of federal and state law for reclamation. Besides the elimination of a severe hazard to the general public, as well as the landowner, parameters with other beneficial effects are land use, vegetation, wildlife and topography.

The plan of action for proposed reclamation activity will be to backslope hazardous highwalls. Erosional gullies and washouts will be repaired and reestablished to nonerosive slopes.

To the degree possible, topsoil will be salvaged from the disturbed areas and respread once the earthwork has been completed. Approximately 3,000 feet of hazardous highwall would be eliminated through proposed reclamation operations in 2014. The reclaimed areas will be fertilized and seeded. Revegetation would be done with a seed mixture compatible to the quality of available plant growth material.

Options or alternatives include backfilling, fencing of hazard areas or no action. Backfilling is the preferred option. The no action does not solve the AML problems at the site and fencing is not considered as a viable option. The proposed reclamation activities should have no long term adverse effects on the environment. The temporary disruption of wildlife habitat will be a short term effect.

The approved North Dakota Abandoned Mine Lands State Reclamation Plan identifies backfilling as an effective reclamation technique.

Section III Existing Environmental Documents

OSM-EIS-11. Approval of State and Indian Reclamation Program Grants under Title IV of the Surface Mining Control and Reclamation Act of 1977 was published by the Office of Surface Mining in November 1983. This EIS describes and analyzes the environmental impacts that were expected to result from approval of State or Tribal Grants. It focuses on the adverse and/or beneficial impacts and standard reclamation activities associated with eight major categories of abandoned coal mine problems in the United States.

The environmental concerns of the proposed project are addressed in an Environmental Impact Statement (EIS) prepared by the Office of Surface Mining Reclamation and Enforcement entitled "Approval of State and Indian Reclamation Program Grants Under Title IV of the Surface Mining Control and Reclamation Act of 1977": (OSM-EIS-11, November 1983). Please reference the following documents for further information:

Chapter III, Affected Environmental Rocky Mountain/Northern Great Plains Region:

Section 3.5.2.2, Adverse Impacts Related to Highwalls, pp. III-24, Subsections 3.5.2.2.1, 3.5.2.2.12, pp. III-24 to III-26.

Chapter IV, Environmental Consequences Rocky Mountain/Northern Great Plains Region:

Section 4.2.2, Impact Common to Remedial Actions, pp. IV-3 to IV-7; and,

Section 4.3.2 Reclamation of Highwalls, pp. IV-11, Subsection 4.3.2.1, pp. IV-11 to IV-12.

Section IV Site Specific Review

- A. Cultural or historic resource values (the archaeological Resources Protection Act of 1979; the Archaeological and Historic Preservation Act of 1974; the National Historic Preservation Act of 1986, as amended; the Antiquities Act of 1906, Executive Order 11593, concerning the protection and enhancement of the cultural environment; the American Indian Religious Freedom Act of 1978; the Historic Sites Act of 1978; and, OMB Circular A-102).**

A letter was sent November 14, 2013, to the North Dakota State Historical Society requesting comments concerning the cultural resources of this site. The State Historical Society has reviewed this site and signed off a letter dated November 21, 2013, indicating that it did not constitute a historical or culturally significant site.

- B. Water quality values (Clean Water Act, as amended)**

There are no streams present on or near the proposed project area. Reclamation efforts at Hazen-West Phase 3 project area will have no adverse effect on surface or ground water quality or quantity.

- C. Wetlands values (Clean Water Act, Executive Order 11990, and Army/EPA Memorandum of Agreement (MOA) Concerning the Determination of Mitigation under the Section 404(b) (1) Guidelines)**

No wetlands are located within the Hazen-West Phase 3 project area.

- D. Flood values (Executive Order 11988)**

The project area is not contained within an identified floodplain.

E. Wildlife (Endangered Species Act and Fish and Wildlife Coordination Act)

The U.S. Fish and Wildlife Service was contacted on November 14, 2013, requesting any comments regarding the proposed reclamation plan for the project site. A response from the Fish and Wildlife Services dated November 26, 2013, indicated that the project as described will have no significant impact on fish and wildlife resources. No endangered or threatened species are known to occupy the project area.

F. Prime and unique farmland values (Farmland Protection Policy Act)

There has been no prime farmland identified on the proposed project site.

G. Recreational resource values (Wild and Scenic Rivers Act, Clean Air Act)

There are no lands in the proposed project area classified as wilderness area or lands being studied for wilderness designation.

There are no lands in the proposed project area identified as areas of critical environmental concern.

There are no lands in the proposed project area included in the wild and scenic river category.

There are no parks or areas of critical ecological or aesthetic concern found in the proposed project area.

H. Air quality (Clean Air Act)

The proposed project area is not in or near a Class I air quality region.

There are no conditions on the existing site of the proposed project that affect air quality of the nearby area.

I. Socioeconomic factors

There will be no adverse socioeconomic effect from the reclamation of this site.

J. Political factors

Meetings between the North Dakota Public Service Commission and all governing entities are ongoing and will continue throughout project completion. County officials and landowners have expressed interest in reclamation of the proposed areas. A public meeting was held on January 28, 2009, in Beulah, North Dakota, to discuss proposed reclamation work with local residents, city and county officials and the general public. Another meeting to discuss this and other AML projects in the general area will be held January 23, 2014 in Beulah.

K. Existing Vegetative Cover

Highwalls and pits are mostly unvegetated. The adjacent spoil is generally in lower relief dozer and scraper built piles. The spoil material is composed of mostly sands and clays. The spoil piles are fairly vegetated. Dominant plant species include Smooth brome grass (*Bromis inermis*), Western wheat grass (*Agropyron smithii*), and Kentucky bluegrass (*Poa pratensis*). Forb species including Alfalfa (*Medicago sativa*), American Licorice (*Glycyrrhiza lepidota*), and Missouri Goldenrod (*Solidago missouriensis*) are commonly found in mine spoils in this area.

L. Threatened and Endangered Plant Species

No threatened or endangered plant species have been identified within the project area. The North Dakota Parks and Recreation Department was contacted on November 14, 2013, requesting any comments regarding the proposed reclamation plan for the project site.

M. Anticipated date of Reclamation

Reclamation work for Hazen-West Phase 1 Project began in June 1991 and was completed in September 1991.

Reclamation work for Hazen-West Phase 2 Project began in May 2009 and was completed in August 2009.

Reclamation performance period for Hazen-West Phase 3 Project is scheduled to begin in June 2014 and be completed in October 2014.

N. Estimated Construction Cost

The construction cost for the Hazen-West Phase 1 Project was \$539,501.53. The construction cost for the Hazen-West Phase 2 Project was \$597,038.75. It is estimated that construction cost for the Hazen-West Phase 3 Project will be \$1,500,000.

O. Offsite Borrow and Disposal Areas

There will be no off-site borrow or disposal area concerns relative to this project. If off-site borrow or disposal issues arise, applicable environmental regulations will be addressed through the North Dakota Department of Health.

P. Noise Pollution

Project work will be conducted no closer than 5,000 feet from the nearest residential or commercial population. Noise pollution problems are not anticipated; however, if problems arise, remedial action measures will be addressed through the North Dakota Department of Health.

Section V Consultations

The State Historical Preservation Officer has been contacted with reference to any cultural or historical values present at or near the project site.

The United States Fish and Wildlife Service has been contacted with reference to identification of threatened or endangered animal species on the proposed project site.

The Planning and Natural Resources Division of the North Dakota Parks and Recreation Department has been contacted with reference to identification of threatened, endangered or rare plant species or communities.

A letter was also sent to the North Dakota Department of Health requesting concurrence for this project.

Section VI Preparers



Jim Deutsch
Director - AML Division
North Dakota Public Service Commission



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November 14, 2013

Kathy Duttonhefner
ND Parks & Recreation Department
1835 Bismarck Expressway
Bismarck, ND 58504

Dear Ms. Duttonhefner:

The Public Service Commission is planning reclamation activities in 2014 at the Hazen-West, Beulah/Zap and Scranton/Bowman Abandoned Mine Lands (AML) Sites. We also expect to conduct exploratory drilling and sinkhole filling projects in western North Dakota. These projects will be conducted by contractors selected through competitive bidding.

The 2014 Hazen-West Phase 3 Project is a continuation of a project series where previous phases were conducted in 2009 and 1991. It is located in the NE1/4 of the SE1/4 of Section 8, and the W1/2 of the SW1/4 of Section 9, T144N, R87W in Mercer County, North Dakota (see map). This abandoned surface coal mine contains a hazardous mine pit with steep highwalls. The plan of action is to backslope the hazardous highwalls. Total surface area to be affected at this project location will be approximately 35 acres. Areas affected by this project will be reseeded with locally adapted species native to western North Dakota. No pit dewatering is planned and all runoff from affected areas will flow into the mine pit.

The 2014 Beulah/Zap Phase 15 and 2014 Scranton/Bowman Phase 2 Projects are a continuation of previous reclamation work at locations that have already received concurrence from your office. Residential areas and roads at these project sites are underlain by abandoned underground mines. The plan of action is to drill holes into the underground mine and, if necessary, pump cementitious grout through drilled holes into abandoned underground mined workings to help stabilize the surface from future mine collapse. The combined total area of disturbance for 2014 drilling and grouting projects is expected to be ten acres or less at all sites combined and surface disturbance will be minimal.

The AML Division also expects to conduct exploratory drilling and sinkhole-filling projects. The exploratory drilling project will be conducted to locate and characterize abandoned mine voids beneath Highway 36 and other county and township roads near Wilton and possibly other

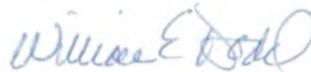
sites (see map). Drilling will generally be conducted in road right-of-way and surface disturbance will be very minimal.

The sinkhole filling project will be conducted to fill dangerous sinkholes caused by sudden collapse of underground mined workings. Sinkhole-filling projects have been conducted annually for many years. These sinkholes will be filled with earthen materials taken from as near as possible to the sinkholes and surface disturbance is usually less than 10 acres per year. We do not know where these sinkholes will occur or which ones need to be filled because they are usually reported by landowners and the public as they occur. These sinkholes are often on areas where previous AML reclamation projects have been conducted.

As part of the project approval process, our office requests concurrence that the proposed reclamation work will not adversely affect any threatened, endangered or rare plant species. We would appreciate your review and concurrence for the work proposed at these sites. Please reply regarding these proposed projects by December 20, 2013.

Attached are maps showing general locations of the proposed reclamation projects. Thank you for your assistance in this matter. If you have any questions or need more information, please contact me at wdodd@nd.gov or 701.328.4101.

Sincerely,

A handwritten signature in blue ink, appearing to read "William E. Dodd".

William E. Dodd,
Assistant Director
Abandoned Mine Lands Division

Enclosure



Public Service Commission State of North Dakota

COMMISSIONERS

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Fax: 701-328-2410
TDD: 800-366-6888 or 711

November 14, 2013

Susan Quinnell
State Historical Society of North Dakota
612 East Boulevard Avenue
Bismarck, ND 58505-0830

Dear Ms. Quinnell:

The Public Service Commission is planning reclamation activities in 2014 at the Hazen-West, Beulah/Zap and Scranton/Bowman Abandoned Mine Lands (AML) Sites. We also expect to conduct exploratory drilling and sinkhole filling projects in western North Dakota. These projects will be conducted by contractors selected through competitive bidding.

The 2014 Hazen-West Phase 3 Project is a continuation of a project series where previous phases were conducted in 2009 and 1991. It is located in the NE1/4 of the SE1/4 of Section 8, and the W1/2 of the SW1/4 of Section 9, T144N, R87W in Mercer County, North Dakota (see map). This abandoned surface coal mine contains a hazardous mine pit with steep highwalls. The plan of action is to backslope the hazardous highwalls. Total surface area to be affected at this project location will be approximately 35 acres. Areas affected by this project will be reseeded with locally adapted species native to western North Dakota. No pit dewatering is planned and all runoff from affected areas will flow into the mine pit.

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The AML Division also expects to conduct exploratory drilling and sinkhole-filling projects. The exploratory drilling project will be conducted to locate and characterize abandoned mine voids beneath Highway 36 and other county and township roads near Wilton and possibly other sites (see map). Drilling will generally be conducted in road rights of way and surface disturbance will be very minimal.

The sinkhole filling project will be conducted to fill dangerous sinkholes caused by sudden collapse of underground mined workings. Sinkhole-filling projects have been conducted annually for many years. These sinkholes will be filled with earthen materials taken from as near as possible to the sinkholes and surface disturbance is usually less than 10 acres per year. We do not know where these sinkholes will occur or which ones need to be filled because they are usually reported by landowners and the public as they occur. These sinkholes are often on areas where previous AML reclamation projects have been conducted.

As part of the project approval process, our office requests concurrence that the proposed reclamation work will not adversely affect any historical or archaeological resources. We would appreciate your review and concurrence for the work proposed at these sites. Please reply regarding these proposed projects by December 20, 2013.

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William E. Dodd,
Assistant Director
Abandoned Mine Lands Division

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November 14, 2013

Mr. Jeff Towner, Field Supervisor
U.S. Fish and Wildlife Service
3425 Miriam Avenue
Bismarck, ND 58501-7926

Dear Mr. Towner:

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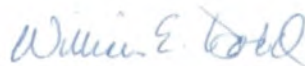
sites (see map). Drilling will generally be conducted in road rights of way and surface disturbance will be very minimal.

The sinkhole filling project will be conducted to fill dangerous sinkholes caused by sudden collapse of underground mined workings. Sinkhole-filling projects have been conducted annually for many years. These sinkholes will be filled with earthen materials taken from as near as possible to the sinkholes and surface disturbance is usually less than 10 acres per year. We do not know where these sinkholes will occur or which ones need to be filled because they are usually reported by landowners and the public as they occur. These sinkholes are often on areas where previous AML reclamation projects have been conducted.

As part of the project approval process, our office requests concurrence that the proposed reclamation work will not adversely affect any threatened, endangered or rare animal species. We would appreciate your review and concurrence for the work proposed at these sites. Please reply regarding these proposed projects by December 20, 2013.

Attached are maps showing general locations of the proposed reclamation projects. Thank you for your assistance in this matter. If you have any questions or need more information, please contact me at wdodd@nd.gov or 701.328.4101.

Sincerely,

A handwritten signature in blue ink that reads "William E. Dodd". The signature is written in a cursive style with a large, stylized "D" at the end.

William E. Dodd,
Assistant Director
Abandoned Mine Lands Division

Enclosure



Public Service Commission State of North Dakota

COMMISSIONERS

Brian P. Kalk
Randy Christmann
Julie Fedorchak

Executive Secretary
Darrell Nitschke

600 East Boulevard, Dept. 408
Bismarck, North Dakota 58505-0480
Web: www.psc.nd.gov
E-mail: ndpsc@nd.gov
Phone: 701-328-2400
ND Toll Free: 1-877-245-6685
Fax: 701-328-2410
TDD: 800-366-6888 or 711

November 14, 2013

Mr. Dennis Fewless,
Director of Water Quality
North Dakota Department of Health
Gold Seal Center
918 East Divide Avenue
Bismarck, ND 58501-1947

Dear Mr. Fewless:

The Public Service Commission is planning reclamation activities in 2014 at the Hazen-West, Beulah/Zap and Scranton/Bowman Abandoned Mine Lands (AML) Sites. We also expect to conduct exploratory drilling and sinkhole filling projects in western North Dakota. These projects will be conducted by contractors selected through competitive bidding.

The 2014 Hazen-West Phase 3 Project is a continuation of a project series where previous phases were conducted in 2009 and 1991. It is located in the NE1/4 of the SE1/4 of Section 8, and the W1/2 of the SW1/4 of Section 9, T144N, R87W in Mercer County, North Dakota (see map). This abandoned surface coal mine contains a hazardous mine pit with steep highwalls. The plan of action is to backslope the hazardous highwalls. Total surface area to be affected at this project location will be approximately 35 acres. Areas affected by this project will be reseeded with locally adapted species native to western North Dakota. No pit dewatering is planned and all runoff from affected areas will flow into the mine pit.

The 2014 Beulah/Zap Phase 15 and 2014 Scranton/Bowman Phase 2 Projects are a continuation of previous reclamation work at locations that have already received concurrence from your office. Residential areas and roads at these project sites are underlain by abandoned underground mines. The plan of action is to drill holes into the underground mine and, if necessary, pump cementitious grout through drilled holes into abandoned underground mined workings to help stabilize the surface from future mine collapse. The combined total area of disturbance for 2014 drilling and grouting projects is expected to be ten acres or less at all sites combined and surface disturbance will be minimal.

The AML Division also expects to conduct exploratory drilling and sinkhole-filling projects. The exploratory drilling project will be conducted to locate and characterize abandoned mine


voids beneath Highway 36 and other county and township roads near Wilton and possibly other sites (see map). Drilling will generally be conducted in road rights of way and surface disturbance will be very minimal.

The sinkhole filling project will be conducted to fill dangerous sinkholes caused by sudden collapse of underground mined workings. Sinkhole-filling projects have been conducted annually for many years. These sinkholes will be filled with earthen materials taken from as near as possible to the sinkholes and surface disturbance is usually less than 10 acres per year. We do not know where these sinkholes will occur or which ones need to be filled because they are usually reported by landowners and the public as they occur. These sinkholes are often on areas where previous AML reclamation projects have been conducted.

As part of the project approval process, our office requests concurrence that the proposed reclamation work will not adversely affect water or public health resources. We would appreciate your review and concurrence for the work proposed at these sites. Please reply regarding these proposed projects by December 20, 2013.

Attached are maps showing general locations of the proposed reclamation projects. Thank you for your assistance in this matter. If you have any questions or need more information, please contact me at wdodd@nd.gov or 701.328.4101.

Sincerely,

A handwritten signature in blue ink that reads "William E. Dodd". The signature is written in a cursive, slightly stylized font.

William E. Dodd,
Assistant Director
Abandoned Mine Lands Division

Enclosure





• Reeder

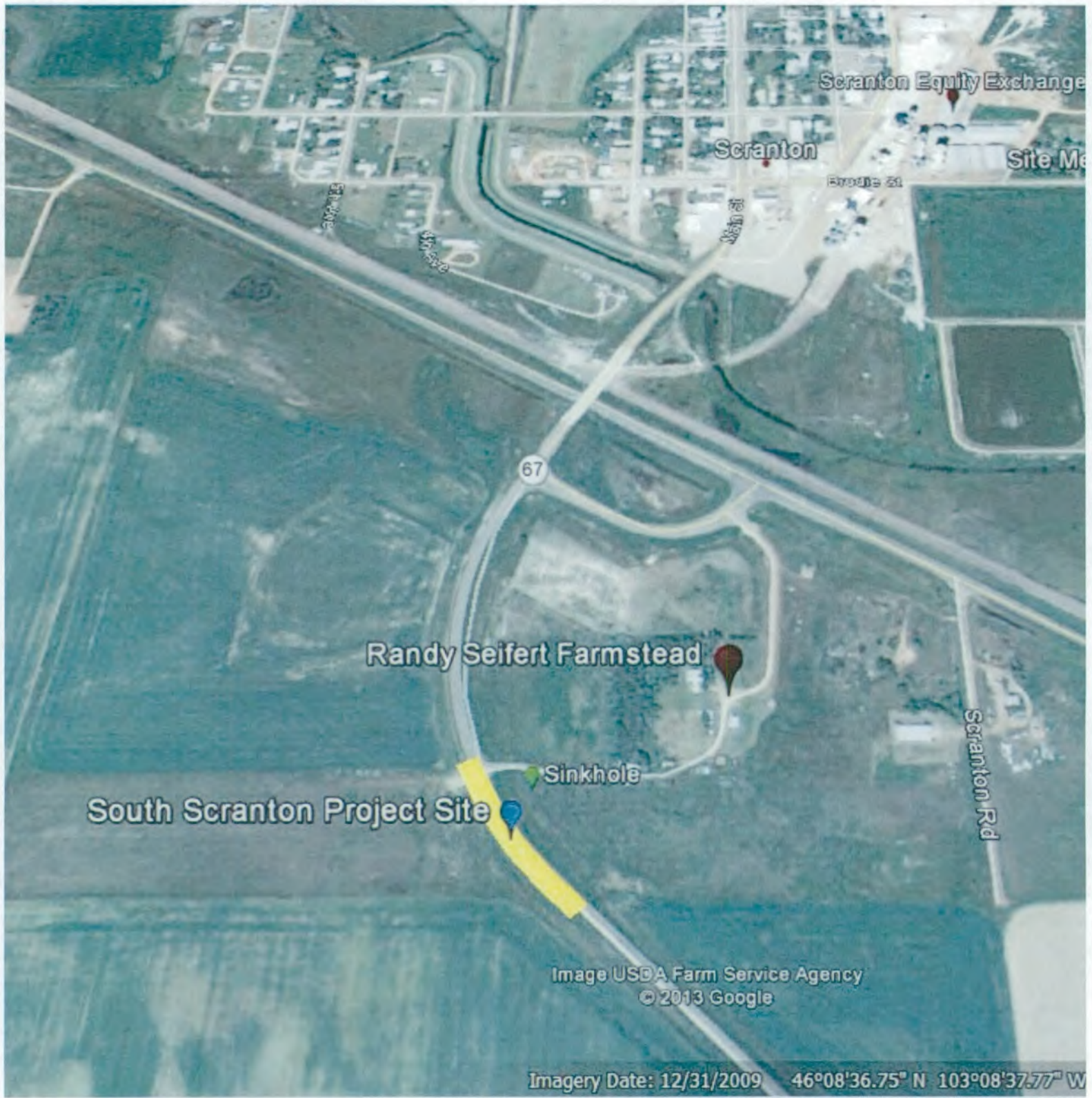
Verkaik Farm

Reeder Project Site

Image USDA Farm Service Agency

Imagery Date: 12/31/2009 46°05'51.4





Co Rd 17

Curt Michaelson farmstead

1st St SW

2013 Beulah/Zap work

Sec 12 T144N R88W

Sec 7 T144N R

Site Meeting

200

49

Sec 13 T144N R88W

Sec 18 T144N

© 2013 Google
Image © 2013 DigitalGlobe

Co Rd 21

Imagery Date

146 th Avenue SW

Bowman Project Site

81 st Street SW

Image USDA Farm Service Agency
© 2013 Google

Imagery Date: 12/31/2009 46°14'59.00" N 103°24'44.28" W elev 3



**STATE
HISTORICAL
SOCIETY
OF NORTH DAKOTA**

NOV 22 2013

Jack Dalrymple
Governor of North Dakota

November 21, 2013



North Dakota
State Historical Board

Mr. William E. Dodd
Assistant Director
Abandoned Mine Lands Division
Public Service Commission
600 East Boulevard, Dept. 408
Bismarck, ND 58505-0480

Calvin Grinnell
New Town - President

A. Ruric Todd III
Jamestown - Vice President

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Albert I. Berger
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Gerold Gerntholz
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Bismarck

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Kelly Schmidt
State Treasurer

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*Director
Parks and Recreation
Department*

Grant Levi
*Director
Department of Transportation*

Merlan E. Paaverud, Jr.
Director

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NDSHPO REF.: 14-0292 PSC Abandoned Mine Lands Division 2014 Hazen-West Phase # Project in portions of [T144N R87W Sections 8, 9] Mercer County and previously reviewed Beulah/Zap and Scranton/Bowman AML Sites in North Dakota

Dear Mr. Dodd,

We reviewed NDSHPO REF.: 14-0292 PSC Abandoned Mine Lands Division 2014 Hazen-West Phase # Project in portions of [T144N R87W Sections 8, 9] Mercer County and previously reviewed Beulah/Zap and Scranton/Bowman AML Sites in North Dakota, submitted in your November 14, 2013 letter. We concur with "No Historic Properties Affected" and "No Significant Sites" determinations for the projects as described and mapped in your November 14, 2013 letter.

Thank you for the opportunity to review these projects. If you have questions please contact Susan Quinnell at squinnell@nd.gov or (701) 328-3576.

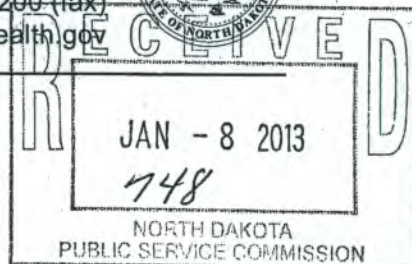
Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer (North Dakota)
and
Director, State Historical Society of North Dakota



NORTH DAKOTA
DEPARTMENT of HEALTH

ENVIRONMENTAL HEALTH SECTION
Gold Seal Center, 918 E. Divide Ave.
Bismarck, ND 58501-1947
701.328.5200 (fax)
www.ndhealth.gov



January 6, 2014

Mr. William Dodd
Assistant Director
Abandoned Mine Lands Division
Public Service Commission
600 East Boulevard Avenue
Bismarck, ND 58505

Re: Proposed Mine Reclamation Projects.

Mr. Dodd,

The North Dakota Department of Health (NDDH) has reviewed the proposed mine reclamation projects summarized in your November 14, 2013 letter. The reclamation areas where the injection of grout will occur have been mapped in relation to aquifers, wellhead protection areas, and existing wells (maps and site evaluation summaries are attached). Reclamation activities should be conducted in a manner that minimizes potential impacts to water supply wells located in the vicinity of the sites.

The Hazen-West project involves backfilling a hazardous mine pit with steep highwalls. No dewatering or runoff is anticipated. The affected area is estimated at 35 acres; therefore, a North Dakota Pollutant Discharge Elimination System (NDPDES) general construction permit is required for this project. The estimated affected areas of the remaining projects are less than 10 acres combined and spread out over a large area; consequently NDPES permits are not required for these projects.

Please do not hesitate to contact me at 701-328-5213 if you have any questions.

Sincerely,

Carl Anderson
Ground Water Protection Program Manager
NDDH – Division of Water Quality



Jack Dalrymple, Governor
Mark A. Zimmerman, Director

1600 East Century Avenue, Suite 3
Bismarck, ND 58503-0649
Phone 701-328-5357
Fax 701-328-5363
E-mail parkrec@nd.gov
www.parkrec.nd.gov

January 2, 2014

Mr. William Dodd
Public Service Commission
600 East Blvd.
Dept 408
Bismarck, ND 58558

Re: Hazen-West, Beulah/Zap and Scranton/Bowman Abandoned Mine Lands Sites
Dear Mr. Dodd,

The North Dakota Parks and Recreation Department (the Department) has reviewed the above referenced proposal for the reclamation activities in 2014 at the Hazen-West, Beulah/Zap and Scranton/Bowman Abandoned Mine Lands Sites.

Our agency scope of authority and expertise covers recreation and biological resources (in particular rare plants and ecological communities). The project as defined does not affect state park lands that we manage or Land and Water Conservation Fund recreation projects that we coordinate.

The North Dakota Natural Heritage biological conservation database has been reviewed to determine if any plant or animal species of concern or other significant ecological communities are known to occur within an approximate one-mile radius of the project area. Based on this review, there are no documented occurrences in our database within or adjacent to project area. Because this information is not based on a comprehensive inventory, there may be species of concern or otherwise significant ecological communities in the area that are not represented in the database. The lack of data for any project area cannot be construed to mean that no significant features are present. The absence of data may indicate that the project area has not been surveyed, rather than confirm that the area lacks natural heritage resources.

The Department recommends that the project be accomplished with minimal impacts and that all efforts be made to ensure that critical habitats not be disturbed in the project area to help secure rare species conservation in North Dakota. Regarding any reclamation efforts, we recommend that any impacted areas be revegetated with species native to the project area.

We appreciate your commitment to rare plant, animal and ecological community conservation, management and inter-agency cooperation to date. For additional information please contact me at (701-328-5370 or kgduttonhefner@nd.gov). Thank you for the opportunity to comment on this proposed project.

Sincerely,

Kathy Duttonhefner, Coordinator
Natural Resources Division

R.USNDNHI*2014_001 KD1/2/2014DL1.2.2014

.....
Play in our backyard!

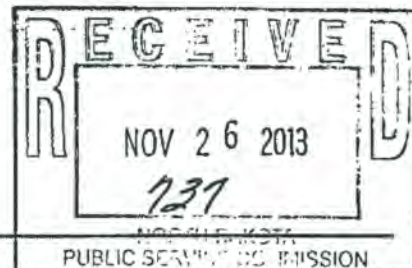


Public Service Commission
State of North Dakota

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Randy Christmann
Julie Fedorchak

Executive Secretary
Darrell Nitschke



600 East Boulevard, Dept. 408
Bismarck, North Dakota 58505-0480
Web: www.psc.nd.gov
E-mail: ndpsc@nd.gov
Phone: 701-328-2400

U.S. FISH AND WILDLIFE SERVICE
ECOLOGICAL SERVICES
ND FIELD OFFICE

Project as described will have no significant impact on fish and wildlife resources. No endangered or threatened species are known to occupy the project area and/or are not likely to be adversely affected. IF PROJECT DESIGN CHANGES ARE MADE, PLEASE SUBMIT PLANS FOR REVIEW.

11/25/13 *Jeffrey K. Towner*
Date Jeffrey K. Towner
Field Supervisor

November 14, 2013

Mr. Jeff Towner, Field Supervisor
U.S. Fish and Wildlife Service
3425 Miriam Avenue
Bismarck, ND 58501-7926

Dear Mr. Towner:

The Public Service Commission is planning reclamation activities in 2014 at the Hazen-West, Beulah/Zap and Scranton/Bowman Abandoned Mine Lands (AML) Sites. We also expect to conduct exploratory drilling and sinkhole filling projects in western North Dakota. These projects will be conducted by contractors selected through competitive bidding.

The 2014 Hazen-West Phase 3 Project is a continuation of a project series where previous phases were conducted in 2009 and 1991. It is located in the NE1/4 of the SE1/4 of Section 8, and the W1/2 of the SW1/4 of Section 9, T144N, R87W in Mercer County, North Dakota (see map). This abandoned surface coal mine contains a hazardous mine pit with steep highwalls. The plan of action is to backslope the hazardous highwalls. Total surface area to be affected at this project location will be approximately 35 acres. Areas affected by this project will be reseeded with locally adapted species native to western North Dakota. No pit dewatering is planned and all runoff from affected areas will flow into the mine pit.

The 2014 Beulah/Zap Phase 15 and 2014 Scranton/Bowman Phase 2 Projects are a continuation of previous reclamation work at locations that have already received concurrence from your office. Residential areas and roads at these project sites are underlain by abandoned underground mines. The plan of action is to drill holes into the underground mine and, if necessary, pump cementitious grout through drilled holes into abandoned underground mined workings to help stabilize the surface from future mine collapse. The combined total area of disturbance for 2014 drilling and grouting projects is expected to be ten acres or less at all sites combined and surface disturbance will be minimal.

The AML Division also expects to conduct exploratory drilling and sinkhole-filling projects. The exploratory drilling project will be conducted to locate and characterize abandoned mine voids beneath Highway 36 and other county and township roads near Wilton and possibly other

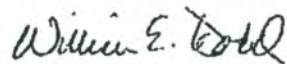
sites (see map). Drilling will generally be conducted in road rights of way and surface disturbance will be very minimal.

The sinkhole filling project will be conducted to fill dangerous sinkholes caused by sudden collapse of underground mined workings. Sinkhole-filling projects have been conducted annually for many years. These sinkholes will be filled with earthen materials taken from as near as possible to the sinkholes and surface disturbance is usually less than 10 acres per year. We do not know where these sinkholes will occur or which ones need to be filled because they are usually reported by landowners and the public as they occur. These sinkholes are often on areas where previous AML reclamation projects have been conducted.

As part of the project approval process, our office requests concurrence that the proposed reclamation work will not adversely affect any threatened, endangered or rare animal species. We would appreciate your review and concurrence for the work proposed at these sites. Please reply regarding these proposed projects by December 20, 2013.

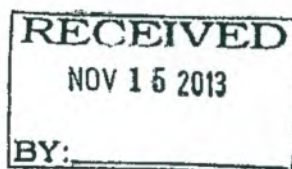
Attached are maps showing general locations of the proposed reclamation projects. Thank you for your assistance in this matter. If you have any questions or need more information, please contact me at wdodd@nd.gov or 701.328.4101.

Sincerely,



William E. Dodd,
Assistant Director
Abandoned Mine Lands Division

Enclosure





Public Service Commission

State of North Dakota

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Randy Christmann
Julie Fedorchak

Executive Secretary
Darrell Nitschke

600 East Boulevard, Dept. 408
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E-mail: ndpsc@nd.gov
Phone: 701-328-2400
ND Toll Free: 1-877-245-6685
Fax: 701-328-2410
TDD: 800-366-6888 or 711

January 17, 2014

Jeffrey W. Fleischman, Director
OSM Casper Field Office
P.O. Box 11018
150 East "B" Street
Casper, WY 82602-5004

RE: Eligibility Determination for 2014 2014 Hazen West Phase 3 AML Project in North Dakota.

Dear Mr. Fleischman:

This letter is submitted under 30 CFR 874.12 as the required eligibility determination for lands included in the proposed abandoned mine lands reclamation projects. Legal descriptions for these lands are included with the request for authorization to proceed and are summarized below:

2014 Hazen West Phase 3 Project: The N½ of the SE¼ of Section 8, T144N, R87W, and the W½ of the SW¼ of Section 9, T144N, R87W, in Mercer County.

Eligibility Determination - 30 CFR 874.12

The requirements of this section of the Abandoned Mine Reclamation Program set forth the following criteria for eligibility for reclamation activities (paraphrased):

- a. Was the real property subjected to coal mining and related processes?
- b. Did the coal mining processes on the real property occur prior to August 3, 1977, and was said real property left or abandoned in an unreclaimed or inadequately reclaimed condition? and,
- c. Is there continuing responsibility for reclamation by the operator, permittee, or agent of the permittee under the statutes of the State of North Dakota or the government of the United States?

Mr. Jeffrey Fleischman
January 17, 2014
Page 2 of 2

Based upon available historical information, I find that the described real properties were mined for coal; that the coal mining activity occurred prior to August 3, 1977; and, that the property has been left in an abandoned and unreclaimed state. I further find that there is no continuing responsibility for reclamation by the operator, permittee or agent of the permittee under statutes of the State of North Dakota or the government of the United States.

Based on these findings, it is my opinion that the described real properties meet the eligibility requirements of 30 CFR 874.12 for abandoned mine reclamation.

Sincerely,

A handwritten signature in blue ink, appearing to read "James R. Deutsch", is written over the printed name.

James R. Deutsch
Director
Reclamation and AML Divisions



Home Add PA Edit PA View PA Funding Sources Planning Units Query Map Summary Logoff

OMB Number: 1029-0087 Expiration Date: 6/30/2016

Prev Next

Format:
Adobe PDF

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Help

PAD History

Problems

2 DH SGA

Problem Type:

P2 Dangerous Highwalls

Program:

Pre-SMCRA Coal State/Tribe Program (P1, P2, P:

Alternative Funding Source:

	Imperial Units	Metric Units	Cost	GPRA Acres
Unfunded	5000	1524	2202961	93
Funded	0	0	0	0
Completed	4149.5	1264.5	1136600	59.29
Total	9149.5	2788.5	3339561	152.25

Documents (0)

Adjacency

Comments

Completion Data (1)

Comments



U.S. Department of the Interior
Office of Surface Mining Reclamation and Enforcement

e-AMLIS Problem Area Description

PAD Status: Approved

Date Prepared: 3/2/1993 Prepared By: Phone: (701)328-4096
Date Revised: 9/14/2009 Field Contact: Phone:

AMLIS Key: ND000089 PA Name: HAZEN WEST
PU Name: OTTER CREEK PU Number: 66

Latitude: 47.291666666667 Longitude: -101.70833333333
State/Tribe: North Dakota County: MERCER
Cong Dist: 0 FIPS Code: 38057
Watershed: KNIFE HUC Code: 10130201
Quadrangle: HAZEN WEST

Mining Type: Surface
Surface Owners: Private 40%, State 60%
Ore Types:

Problem Summary

Problem	Unfunded		Funded		Completed		Total	
	Units	Costs	Units	Costs	Units	Costs	Units	Costs
2 DH SGA	5,000	2,202,961.00	0	0.00	4,150	1,136,600.00	9,150	3,339,561.00

Priority Totals

P1 Total	-	0.00	-	0.00	-	0	-	0.00
P2 Total	-	2,202,961.00	-	0.00	-	1136600	-	3,339,561.00
P3 Total	-	0.00	-	0.00	-	0	-	0.00
PAD Total	-	2,202,961.00	-	0.00	-	1136600	-	3,339,561.00



Home Add PA Edit PA View PA Funding Sources Planning Units Query Map Summary Logoff

OMB Number: 1029-0087
Expiration Date: 6/30/2016



U.S. Department of the Interior
Office of Surface Mining Reclamation and Enforcement

e-AMLIS Problem Area Description

PAD Status: Approved

Date Prepared: 3/2/1993 Prepared By: William Dodd Phone: 701-328-4101
Date Revised: 1/14/2014 Field Contact: Phone:

AMLIS Key: ND000014 PA Name: BEULAH
PU Name: HAZEN DAM PU Number: 64

Latitude: 47.25 Longitude: -101.75
State/Tribe: North Dakota County: MERCER
Cong Dist: 1 FIPS Code: 38057
Watershed: KNIFE HUC Code: 10130201
Quadrangle: BEULAH

Mining Type: U
Surface Owners: Private 80%, State 20%
Ore Types:

Problem Summary

Problem	Unfunded		Funded		Completed		Total	
Prio/Type/Fund	Units	Costs	Units	Costs	Units	Costs	Units	Costs
2 DH SGA	3,200	736,000.00	0	0.00	0	0.00	3,200	736,000.00
2 S SGA	610.44	4,369,069.00	0	0.00	439.51	10,630,931.00	1,050	15,000,000.00
1 S SEA	0	0.00	0	0.00	9.00	40,272.00	9	40,272.00
1 SB SEA	0	0.00	0	0.00	2	4,028.00	2	4,028.00

Priority Totals

P1 Total	-	0.00	-	0.00	-	44,300.00	-	44,300.00
P2 Total	-	5,105,069.00	-	0.00	-	10,630,931.00	-	15,736,000.00
P3 Total	-	0.00	-	0.00	-	0.00	-	0.00
PAD Total	-	5,105,069.00	-	0.00	-	10,675,231.00	-	15,780,300.00

Prev Next

Format:
Adobe PDF

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New Save Submit Delete

Help

Field Contact

Problem Area

Surface Information

Problems

2 S SGA New Delete

Problem Type:

S - P2 Subsidence

Program:

SGA - Pre-SMCRA Coal State/Tribe Program (P1,

Alternative Funding Source:

Edit

Units/Costs:

	English Units	Metric Units	Cost	GPRA Acres
Unfunded	610.44	247	4369069	610.44
Funded	0	0	0	0
Completed	439.51	177.9	10630931	439.51
Total	1050.0	424.9	15000000	1050.0

Documents (0)

Adjacency

Comments

Completion Data (11)

Comments



Home Add PA Edit PA View PA Funding Sources Planning Units Query Map Summary Logoff

Field Contact

Problem Area

Surface Information

Problems

2 S SGA

New

Delete

Problem Type:

S - P2 Subsidence

Program:

SGA - Pre-SMCRA Coal State/Tribe Program (P1,

Alternative Funding Source:

Edit

Units/Costs:

	English Units	Metric Units	Cost	GPRA Acres
Unfunded	45	18.2	1591945	45
Funded	5	2.0	908055	5
Completed	0	0	0	0
Total	50.0	20.2	2500000	50.0

Documents (0)

Adjacency

Comments

Completion Data (0)

Comments



U.S. Department of the Interior
Office of Surface Mining Reclamation and Enforcement

e-AMLIS Problem Area Description

PAD Status: Approved

Date Prepared: 7/23/1987

Prepared By: William Dodd

OMB Number: 1029-0087

Expiration Date: 6/30/2016

Date Revised: 1/14/2014

Field Contact:

Phone: 701-328-4101

Phone:

AMLIS Key: ND000528

PA Name: SCRANTON

PU Name: BUFFALO CREEK

PU Number: 16

Latitude: 46.141666666667

Longitude: -103.125

State/Tribe: North Dakota

County: BOWMAN

Cong Dist: 1

FIPS Code: 38011

Watershed: NORTH FORK GRAND

HUC Code: 10130301

Quadrangle: SCRANTON

Mining Type: B

Surface Owners: Private 100%

Ore Types:

Problem Summary

Problem	Unfunded		Funded		Completed		Total	
Prio/Type/Fund	Units	Costs	Units	Costs	Units	Costs	Units	Costs
1 DH SGA	0	0.00	0	0.00	100	100,000.00	100	100,000.00
1 DH SEA	0	0.00	0	0.00	1,000	148,854.00	1,000	148,854.00
1 HEF SGA	0	0.00	0	0.00	1	1.00	1	1.00
1 IRW SGA	0	0.00	0	0.00	1	1.00	1	1.00
1 P SGA	0	0.00	0	0.00	1	1.00	1	1.00
1 S SEA	0	0.00	0	0.00	1	3,284.00	1	3,284.00
1 S FRA	0	0.00	0	0.00	70	245,000.00	70	245,000.00
2 S SGA	45	1,591,945.00	5	908,055.00	0	0.00	50	2,500,000.00
1 S SGA	0	0.00	0	0.00	19	1,600,996.00	19	1,600,996.00
1 SB SGA	0	0.00	0	0.00	1	1.00	1	1.00
1 VO SGA	0	0.00	0	0.00	1	1.00	1	1.00

Priority Totals

P1 Total	-	0.00	-	0.00	-	2,098,139.00	-	2,098,139.00
P2 Total	-	1,591,945.00	-	908,055.00	-	0.00	-	2,500,000.00
P3 Total	-	0.00	-	0.00	-	0.00	-	0.00
PAD Total	-	1,591,945.00	-	908,055.00	-	2,098,139.00	-	4,598,139.00

Prev

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Field Contact

Problem Area

Surface Information

Problems

2 S SGA

NewDelete

Problem Type:

S - P2 Subsidence

Program:

SGA - Pre-SMCRA Coal State/Tribe Program (P1,

Alternative Funding Source:

Edit

Units/Costs:

	English Units	Metric Units	Cost	GPRA Acres
Unfunded	5	2.0	500000	5
Funded	0	0	0	0
Completed	20	8.09	1	20
Total	25.0	10.1	500001	25.0

Documents (0)

Adjacency

Comments

Completion Data (0)

Comments



U.S. Department of the Interior
Office of Surface Mining Reclamation and Enforcement
e-AMLIS Problem Area Description

PAD Status: Edit

Date Prepared: 11/23/1987
Date Revised: 1/30/2013

Prepared By: Bruce Johnson
Field Contact:

Phone: 701-328-4094
Phone:

AMLIS Key: ND000003
PU Name: BUFFALO CREEK

PA Name: SOUTH SCRANTON
PU Number: 16

Latitude: 46.148888888889
State/Tribe: North Dakota
Cong Dist: 1
Watershed: NORTH FORK GRAND
Quadrangle: SCRANTON

Longitude: -103.152777777778
County: BOWMAN
FIPS Code: 38011
HUC Code: 10130301

Mining Type: U
Surface Owners: Private 100%
Ore Types:

Problem Summary

Problem	Unfunded		Funded		Completed		Total	
	Units	Costs	Units	Costs	Units	Costs	Units	Costs
2 S SGA	5	500,000.00	0	0.00	20	1.00	25	500,001.00
2 VO SGA	0	0.00	0	0.00	6	41,118.00	6	41,118.00
Priority Totals								
P1 Total	-	0.00	-	0.00	-	0.00	-	0.00
P2 Total	-	500,000.00	-	0.00	-	41,119.00	-	541,119.00
P3 Total	-	0.00	-	0.00	-	0.00	-	0.00
PAD Total	-	500,000.00	-	0.00	-	41,119.00	-	541,119.00

OMB Number: 1029-0087
Expiration Date: 6/30/2016

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Field Contact

Problem Area

State/Tribe:

North Dakota

PA Number:

000033

Assign

PA Name:

ANDREWS LAKE

PU Select:

PU Number:

4

PU Name:

TWIN BUTTE

Latitude:

46.270833333333

or

46 16 15

Longitude:

-103.4375

or

103 26 15

Get Geographic Data [Map It](#)

Surface Information

Problems

Comments

OMB Number: 1029-0087
Expiration Date: 6/30/2016



U.S. Department of the Interior Office of Surface Mining Reclamation and Enforcement

e-AMLIS Problem Area Description

PAD Status: Edit

Date Prepared: 3/2/1993

Prepared By: Bruce Johnson

Phone: 701-328-4094

Date Revised: 1/30/2013

Field Contact:

Phone:

AMLIS Key: ND000033

PA Name: ANDREWS LAKE

PU Name: TWIN BUTTE

PU Number: 4

Latitude: 46.270833333333

Longitude: -103.4375

State/Tribe: North Dakota

County: BOWMAN

Cong Dist: 1

FIPS Code: 38011

Watershed: MIDDLE LITTLE MISSOURI

HUC Code: 10110203

Quadrangle: STEWART LAKE

Mining Type: U

Surface Owners: Private 30%, State 70%

Ore Types:

Problem Summary

Problem		Unfunded		Funded		Completed		Total	
Prio/Type/Fund	Units	Costs	Units	Costs	Units	Costs	Units	Costs	
2 S SGA	19	1,000,000.00	0	0.00	6	26,293.00	25	1,026,293.00	

Priority Totals

P1 Total	-	0.00	-	0.00	-	0.00	-	0.00
P2 Total	-	1,000,000.00	-	0.00	-	26,293.00	-	1,026,293.00
P3 Total	-	0.00	-	0.00	-	0.00	-	0.00
PAD Total	-	1,000,000.00	-	0.00	-	26,293.00	-	1,026,293.00

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Problem Type:

S - P2 Subsidence

Program:

SGA - Pre-SMCRA Coal State/Tribe Program (P1,

Alternative Funding Source:

Edit

Units/Costs:

	English Units	Metric Units	Cost	GPRA Acres
Unfunded	2	0.8094	500000	2
Funded	0	0	0	0
Completed	1	0.4	10000	1
Total	3.0	1.2	510000	3.0

Documents (0)

Adjacency

Comments

Completion Data (0)

Comments



U.S. Department of the Interior
Office of Surface Mining Reclamation and Enforcement

e-AMLIS Problem Area Description

PAD Status: Edit

Date Prepared: 11/28/2000

Prepared By: Bruce Johnson

Phone: 701-328-4094

Date Revised: 1/30/2013

Field Contact:

Phone:

AMLIS Key: ND000140

PA Name: REEDER

PU Name: BUFFALO CREEK

PU Number: 16

Latitude: 46.083333333333

Longitude: -102.933333333333

State/Tribe: North Dakota

County: ADAMS

Cong Dist: 1

FIPS Code: 38001

Watershed: NORTH FORK GRAND

HUC Code: 10130301

Quadrangle: REEDER

Mining Type: U

Surface Owners: Private 100%

Ore Types:

Problem Summary

Problem	Unfunded		Funded		Completed		Total	
Prio/Type/Fund	Units	Costs	Units	Costs	Units	Costs	Units	Costs
2 S SGA	2	500,000.00	0	0.00	1	10,000.00	3	510,000.00

Priority Totals

P1 Total	-	0.00	-	0.00	-	0.00	-	0.00
P2 Total	-	500,000.00	-	0.00	-	10,000.00	-	510,000.00
P3 Total	-	0.00	-	0.00	-	0.00	-	0.00
PAD Total	-	500,000.00	-	0.00	-	10,000.00	-	510,000.00

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