Environmental Assessment/Baseline Survey to Establish New Drop Zone (DZ) in Cadiz, Ohio

Pittsburgh Air Reserve Station, Coraopolis, Pennsylvania

Final
Environmental Assessment and Baseline Survey

March 2009
Environmental Assessment/Baseline Survey to Establish New Drop Zone (DZ) in Cadiz, Ohio

AECOM, 1461 E. Cooley Drive, Suite 100, Colton, CA, 92324
FINDING OF NO SIGNIFICANT IMPACT (FONSI)
FOR THE ESTABLISHMENT OF A NEW DROP ZONE IN CADIZ, OHIO

The attached environmental assessment (EA) and environmental baseline survey (EBS) analyzes the potential environmental impacts associated with the establishment of a new drop zone near Cadiz, Ohio. Associated with this Proposed Action is a Finding of No Significant Impact (FONSI).

The Proposed Action would entail leasing approximately 430 acres of privately-owned property on a reclaimed strip mine for use by the 911th Airlift Wing (AW) stationed at Pittsburgh International Airport (IAP) Air Reserve Station (ARS). The No-Action Alternative would be to not lease the property, and continue using existing drop zone facilities.

The resources analyzed for environmental impact are land use, airspace management, noise, air quality, safety and occupational health, hazardous materials and hazardous waste, earth resources, water resources, biological resources, cultural resources, socioeconomics, environmental justice, recreation and visual resources, and transportation. No potential significant impacts to any of these resources were identified.

There would be no changes in existing land use at the proposed Cadiz Drop Zone property. Restrictions on aircraft approach and departure directions and coordination with the Federal Aviation Administration would result in no significant impacts to airspace management. Noise levels from C-130 operations over the proposed Cadiz Drop Zone property would be below 45 A-weighted decibels (dBA), well below the 65 dBA threshold for compatibility with all land uses. Air emissions from aircraft operating at the drop zone would not result in significant impacts to air quality. Standard drop zone safety procedures would be implemented. Hazardous materials used and hazardous waste generated on the proposed Cadiz Drop Zone property as a result from vehicle traffic would be minimal and would be handled in accordance with established procedures. No ground disturbing activities that could affect earth or water resources would occur. Drop zone activities are not expected to affect threatened or endangered species, sensitive habitats, or cultural resources. The proposed action would not result in any changes to employment or population. Because no significant impacts to resources were identified, no adverse effects to disproportionately high minority, low-income, or youth populations would occur. No changes to recreation or visual resources would occur. The small number of ground vehicles required for drop zone activities would not have a significant impact on transportation.

Other future actions in the region were evaluated to determine whether cumulative environmental impacts could result due to the implementation of the proposed action in conjunction with other past, present, or reasonably foreseeable future actions. Other actions that would occur in the region include continued low level training by the 911 AW and strip mining activities. These activities are not anticipated to result in cumulative impacts when added to potential impacts of proposed action.
As a result of the analysis of impacts in the EA, it was concluded that the activities proposed to be conducted under the Proposed Action would not have a significant effect on human health or the natural environment. This FONSI is based upon the attached EA, which has been independently evaluated by the Air Force and determined to adequately and accurately discuss the need, environmental issues, and impacts of the proposed project. This EA provides sufficient evidence and analysis to determine that an environmental impact statement is not required.

GORDON H. ELWELL, JR., Colonel, USAFR
Commander, 911th Airlift Wing

10 APR 09
Date
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GORDON H. ELWELL, JR., Colonel, USAFR
Commander, 911th Airlift Wing

Date 10 Apr 09
EXECUTIVE SUMMARY

BACKGROUND

This document is a combined environmental assessment (EA) and environmental baseline survey (EBS) prepared to support the proposed lease of property located near Cadiz, Ohio, for use as a drop zone for airdrop training by the 911th Airlift Wing (911 AW) of the Air Force Reserves (AFR).

The EA evaluates the potential environmental impacts associated with the establishment and operation of the Cadiz Drop Zone. This EA has been prepared in accordance with the National Environmental Policy Act (NEPA) of 1969, as amended (42 United States Code [U.S.C.] 4321, et seq.), the Council on Environmental Quality (CEQ) regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and Air Force policy and procedures (32 CFR Part 989).

The EBS has been prepared to document the environmental condition of property resulting from the release and disposal of hazardous substances, petroleum products and their derivatives, if any, on the proposed drop zone property, and to establish a baseline for use by the Air Force in making decisions concerning real property transactions. The preparation of an EBS is required by Department of Defense (DOD) policy before any property can be sold, leased, transferred, or acquired.

PURPOSE AND NEED

The 911 AW is located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has several serious limitations that restrict the 911 AW’s airdrop training. The proposed Cadiz Drop Zone would not have these limitations.

SITE LOCATION

The proposed Cadiz Drop Zone is located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz. The area proposed to be leased by the Air Force is an approximately 430-acre site on a reclaimed strip mine owned by CONSOL Energy.

DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES

Two alternatives were analyzed, the Proposed Action and No-Action Alternative.
Under the **Proposed Action**, the 911 AW would lease property owned by CONSOL Energy in Harrison County, Ohio, for use as a drop zone for training.

Air drops would be conducted as part of aircraft training flights that are currently a routine activity. A typical drop training event would entail use of two C130 aircraft. Flights to the drop zone would originate and terminate at Pittsburgh IAP ARS. Aircraft would not usually fly directly to the drop zone from the ARS, but would fly a training route. During a typical drop zone training day, 12 airdrop training events would be conducted. These would be conducted as part of three separate training flights. During each of the three trips, each of the two aircraft would fly an approximately 45-minute training route, make a drop, fly another approximately 45-minute training route, then make a second drop before returning to the ARS.

No fly zones for approach would be established in order to avoid overflight of the Harrison County Airport, located approximately 2 miles northeast of the proposed drop zone. Drop zone activities would be conducted 2-3 times per week. Most activities would consist of dropping training bundles consisting of 15-lb sandbags. Heavier dropped material, referred to as “actual loads” would be dropped only 2-3 times per month.

The site would be certified for use by paratroopers. However, paratrooper drops are not currently planned as part of routine activities at the proposed drop zone, but would likely be conducted only as part of special training events. These are not expected to be conducted more than approximately once every two years.

Drop zone operations would generally be conducted between 7 a.m. and 11 p.m. and could occur any day of the week. The drop zone boundary would not be fenced, but the entire site is located within a fenced area with a locked gate. The AFR would coordinate with the Federal Aviation Administration (FAA) flight service station to issue a local Notice to Airmen (NOTAM) when drops are scheduled. Air drops would be limited by weather conditions that allow visual confirmation of the target from the aircraft.

No significant modification of the site, such as grading access roads, clearing vegetation, or constructing facilities, would be required to establish the drop zone. It is expected that cattle grazing would continue to control the height of vegetation on the site, thereby eliminating the need for routine vegetation control. However, should vegetation on the active part of the drop zone become too tall, its height may need to be controlled by mowing.

Under the **No-Action Alternative**, the 911 AW would not lease the CONSOL Energy property and would continue to use the Starvaggi Drop Zone as their only airdrop training site.
SUMMARY OF ENVIRONMENTAL CONSEQUENCES

The resources analyzed for environmental impact are land use, airspace management, noise, air quality, safety and occupational health, hazardous materials and hazardous waste, earth resources, water resources, biological resources, cultural resources, socioeconomics, environmental justice, recreation and visual resources, and transportation.

Activities associated with the establishment and operation of the Cadiz Drop Zone would not have a significant impact on any of the resources analyzed.

CUMULATIVE IMPACTS

Other future actions in the region were evaluated to determine whether cumulative environmental impacts could result due to the implementation of the proposed action in conjunction with other past, present, or reasonably foreseeable future actions. Other actions that would occur in the region include continued low level training by the 911 AW and strip mining activities. These activities are not anticipated to result in cumulative impacts when added to potential impacts of proposed action.

EBS FINDINGS

The property is an undeveloped reclaimed strip mine. No structures, facilities, or utilities are present on or adjacent to the property. The property was in an area actively mined from the early to mid 1980s to the early to mid 1990s. Reclamation began on the northern portion of the area in the early 1990s and in the southern/southwestern portion in the mid to late 1990s. The final bond release has been granted for this property.

No issues with regards to the EBS topics of environmental restoration program sites, storage tanks, oil/water separators, solid waste, medical or biohazardous waste, radioactive material, wastewater treatment, collection and discharge, pesticides, asbestos, polychlorinated biphenyls, radon, and lead-based paint have been identified.

Past use of the property as part of a strip mine may have involved use of small quantities of hazardous materials and petroleum products associated with the operation of mining equipment, such as fuels and oils, and ordnance may have been used as part of mining activities. Hazardous materials and petroleum products and ordnance are not currently used or stored on the property.

Based on an analysis of the available data, no release or disposal of hazardous substances or petroleum products has occurred on the property and it is considered Category 1.
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<tr>
<td>911 AW</td>
<td>911&lt;sup&gt;th&lt;/sup&gt; Airlift Wing</td>
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<td>AFI</td>
<td>Air Force Instruction</td>
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<tr>
<td>AFPD</td>
<td>Air Force Policy Directive</td>
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<td>AFR</td>
<td>Air Force Reserves</td>
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<tr>
<td>AGL</td>
<td>above ground level</td>
</tr>
<tr>
<td>APE</td>
<td>area of potential effect</td>
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<tr>
<td>APN</td>
<td>Assessor Parcel Numbers</td>
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<tr>
<td>ARPA</td>
<td>Archaeological Resources Protection Act</td>
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<tr>
<td>ARS</td>
<td>Air Reserve Station</td>
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<tr>
<td>ASTM</td>
<td>American Society for Testing and Materials</td>
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<tr>
<td>CAA</td>
<td>Clean Air Act</td>
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<tr>
<td>CEQ</td>
<td>Council on Environmental Quality</td>
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<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response, Compensation, and Liability Act</td>
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<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
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<tr>
<td>CO</td>
<td>carbon monoxide</td>
</tr>
<tr>
<td>CO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>carbon dioxide</td>
</tr>
<tr>
<td>CWA</td>
<td>Clean Water Act</td>
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<tr>
<td>dB</td>
<td>decibels</td>
</tr>
<tr>
<td>dBA</td>
<td>A-weighted decibel</td>
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<tr>
<td>°</td>
<td>degree</td>
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<tr>
<td>DNL</td>
<td>day-night noise level</td>
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<tr>
<td>DNR</td>
<td>Department of Natural Resources</td>
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<td>DOD</td>
<td>Department of Defense</td>
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<tr>
<td>EA</td>
<td>environmental assessment</td>
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<td>EBS</td>
<td>environmental baseline survey</td>
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<td>EO</td>
<td>Executive Order</td>
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<td>Environmental Protection Agency</td>
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<td>ERP</td>
<td>Environmental Restoration Program</td>
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<tr>
<td>FAA</td>
<td>Federal Aviation Administration</td>
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<tr>
<td>FIC</td>
<td>Federal Interagency Committee</td>
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<tr>
<td>FOSL</td>
<td>Finding of Suitability to Lease</td>
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<tr>
<td>HUD</td>
<td>Department of Housing and Urban Development</td>
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<tr>
<td>IAP</td>
<td>International Airport</td>
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<tr>
<td>LATN</td>
<td>Low Altitude Tactical Navigation</td>
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<tr>
<td>MACA</td>
<td>Military Airspace Collision Avoidance</td>
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<tr>
<td>µg/m&lt;sup&gt;3&lt;/sup&gt;</td>
<td>microgram per cubic meter</td>
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<tr>
<td>MSL</td>
<td>mean sea level</td>
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<td>NAAQS</td>
<td>National Ambient Air Quality Standards</td>
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<tr>
<td>Abbreviation</td>
<td>Description</td>
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<td>National Register</td>
<td>National Register of Historic Places</td>
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<td>National Environmental Policy Act</td>
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<td>NHPA</td>
<td>National Historic Preservation Act</td>
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<tr>
<td>NO₂</td>
<td>nitrogen dioxide</td>
</tr>
<tr>
<td>NOₓ</td>
<td>nitrogen oxide</td>
</tr>
<tr>
<td>NOTAM</td>
<td>Notice to Airmen</td>
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<tr>
<td>PM₁₀</td>
<td>particulate matter equal to or less than 10 microns in diameter</td>
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<tr>
<td>PM₂₅</td>
<td>particulate matter equal to or less than 2.5 microns in diameter</td>
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<tr>
<td>ppm</td>
<td>parts per million</td>
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<tr>
<td>PSD</td>
<td>Prevention of Significant Deterioration</td>
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<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
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<td>SHPO</td>
<td>State Historic Preservation Officer</td>
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<td>State Implementation Plan</td>
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<td>Station Keeping Equipment</td>
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<td>SO₂</td>
<td>sulfur dioxide</td>
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<td>SR</td>
<td>State Route</td>
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<tr>
<td>TAC</td>
<td>Tactical</td>
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<td>tpy</td>
<td>tons per year</td>
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<tr>
<td>USC</td>
<td>United States Code</td>
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<td>USFWS</td>
<td>U.S. Fish and Wildlife Service</td>
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<td>USGS</td>
<td>United States Geological Survey</td>
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<td>VOC</td>
<td>volatile organic compound</td>
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<td>VRS</td>
<td>visual reconnaissance survey</td>
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<td>VSI</td>
<td>visual site inspections</td>
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1.0 INTRODUCTION

1.1 PURPOSE OF THE DOCUMENT

This document is a combined environmental assessment (EA) and environmental baseline survey (EBS) prepared to support the proposed lease of property located near Cadiz, Ohio, for use as a drop zone for airdrop training by the 911th Airlift Wing (911 AW) of the Air Force Reserves (AFR).

The EA evaluates the potential environmental impacts associated with the establishment and operation of the Cadiz Drop Zone. This EA has been prepared in accordance with the National Environmental Policy Act (NEPA) of 1969, as amended (42 United States Code [U.S.C.] 4321, et seq.), the Council on Environmental Quality (CEQ) regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and Air Force policy and procedures [32 CFR Part 989]).

The EBS has been prepared to document the environmental condition of property resulting from the release and disposal of hazardous substances, petroleum products and their derivatives, if any, on the proposed drop zone property, and to establish a baseline for use by the Air Force in making decisions concerning real property transactions. The preparation of an EBS is required by Department of Defense (DOD) policy before any property can be sold, leased, transferred, or acquired.

Air Force Policy Directive (AFPD) 32-70, Environmental Quality, provides responsibilities and procedures for conducting an EBS and is implemented through Air Force Instruction (AFI) 32-7066, Environmental Baseline Surveys in Real Estate Transactions. The information presented in this EBS is complete and accurate as of October 2008. This EBS is based on available environmental information related to past and present storage, release, and disposal of hazardous substances and petroleum products on the proposed drop zone property.

This EBS will be used by the Air Force, along with other available information, to:

- Develop sufficient information to assess the health and safety risks on the property surveyed and to determine what actions are necessary to protect human health and the environment
- Support decision for a Finding of Suitability to Lease (FOSL) as well as aid in determining potential land use restrictions
- Identify data gaps concerning environmental contamination
- Identify potential environmental concerns associated with the property.
1.2 PURPOSE AND NEED FOR THE PROPOSED ACTION

The 911 AW is located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania (Figure 1.2-1). However, this site has several serious limitations that restrict the 911 AW’s airdrop training. Drop zone site requirements that are currently not provided at the Starvaggi Drop Zone include:

- A relatively level area without steep slopes, rugged terrain, and large trees
- A site large enough to establish a rectangular drop zone size of 1,000 yards by 1,500 yards
- Site that can be surveyed as a circular drop zone to support aircraft run-ins from more than a single direction
- Site not located in airspace where drop altitudes and airspeeds for airdrop operations are limited.

The proposed Cadiz Drop Zone meets these requirements. Because the airdrop training limitations currently imposed by use of the Starvaggi Drop Zone would not be present at the Cadiz Drop Zone, the Proposed Action would greatly increase the 911 AW’s training capability and combat readiness.

1.2.1 Location of the Proposed Action

The proposed Cadiz Drop Zone is located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1.2-2). The area proposed to be leased by the Air Force is an approximately 430-acre site on a reclaimed strip mine owned by CONSOL Energy.

1.3 SURVEY METHODOLOGY

Property categorization factors address storage and release of those substances that are regulated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Resource Conservation and Recovery Act (RCRA). These factors determine the overall property category of land and facilities. Property categories are based on the definitions included in AFI 32-7066. However, in 1996, revisions were made to property categories based on DOD guidance that revised the definition of “uncontaminated” property used in the Category 1 designation (U.S. Air Force, 1996). Uncontaminated property is defined as property where no release or disposal of hazardous or petroleum substances has occurred. Therefore, a property can be considered Category 1, even if hazardous or petroleum
Figure 1.2-1
Environmental Assessment and Baseline Survey
To Establish New Drop Zone in Cadiz, OH
substances are stored on the property. Under the original property category definitions, storage of hazardous or petroleum substances, even without a release, caused the property to be considered Category 2. Under the revised property category definitions, property associated with the release of a petroleum product is considered Category 2. Within this EBS, hazardous substance storage is noted, as appropriate. However, unless a release has been identified, the property is considered Category 1.

Based on an analysis of the available data, the proposed Cadiz Drop Zone property was classified into one of seven categories:

- **Category 1** - Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas)
- **Category 2** - Areas where only release or disposal of petroleum products has occurred
- **Category 3** - Areas where release, disposal, and/or migration of hazardous substances have occurred, but at concentrations that do not require a removal or remedial response
- **Category 4** - Areas where release, disposal, and/or migration of hazardous substances have occurred, and all removal or remedial actions have been taken
- **Category 5** - Areas where release, disposal, and/or migration of hazardous substances have occurred, and all removal or remedial actions are underway, but have not yet been completed
- **Category 6** - Areas where release, disposal, and/or migration of hazardous substances have occurred, but remedial actions have not been implemented
- **Category 7** - Areas that are not evaluated or require additional evaluation.

Property in the first four categories is eligible for deed transfer (Department of Defense, 1995). In general, property in the last three categories will not be considered for transfer until the necessary actions have been taken and the property has been reclassified into one of the first four categories. Leases are permitted for property within the first four categories and would be considered on a case-by-case basis for properties within the last three categories.

Pursuant to U.S. Environmental Protection Agency (EPA) and DOD guidance, this EBS identifies property as uncontaminated even if some limited quantity of hazardous or petroleum substances was released or disposed in cases where the available information indicates that such release or disposal poses no threat to human health or the environment. Examples, as provided in the U.S. EPA guidance, include usage of common household chemicals, storage of heating fuel in base housing areas, incidental releases of petroleum
products on roadways and parking lots, and the routine licensed application of pesticides (U.S. Environmental Protection Agency, 1994).

Information on property categorization factors (hazardous materials and petroleum products, hazardous and petroleum waste, storage tanks and related systems, treatment systems and components, Environmental Restoration Program [ERP] sites, oil/water separators, medical or biohazardous waste, radioactive waste, pesticides, and ordnance) was reviewed to determine the presence and status of each. Each factor was first categorized based on its past or present potential for environmental concern. Then, the categories for all factors present at each location were considered to determine the overall land or facility category. The highest category would determine the overall category for the land/facility. For example, if a parcel of land had a storage tank classified as Category 2 and an ERP site classified as Category 5, the overall categorization would be a Category 5.

Disclosure factors are substances that are not regulated under CERCLA but that may cause environmental concerns. Information on disclosure factors (asbestos, polychlorinated biphenyls, radon, and lead-based paint) was reviewed. While notification of the presence of disclosure factors is not required under CERCLA Section 120(h) (1), such notification is provided to satisfy real estate transaction requirements.

1.4 APPROACH AND RATIONALE

A methodical process was followed for this EA/EBS in which available information was analyzed and conclusions were drawn about the condition of the property near Cadiz, Ohio. First, property records were reviewed to identify historic land and facility uses that may be primary indicators of potential contamination. 911 AW and CONSOL Energy personnel were interviewed, and the land was physically inspected during a visual reconnaissance survey (VRS) on October 14, 2008, to identify evidence of stressed vegetation, stained soils, unusual odors, or other issues that might indicate the presence of contamination (Appendix G-3).

1.4.1 Documents Reviewed

The records search of available documentation focused primarily on records, reports, maps, and aerial photographs maintained by the 911 AW at Pittsburgh IAP ARS and CONSOL Energy staff.

As part of the records search, historic maps (1905, 1961, 1978, and 1994) and aerial photographs (1976, 1982, 1994, and 2005) of the property were reviewed and analyzed to assist in identifying past land and facility uses and potential environmental contamination sources, and to verify other information found in the records search. Aerial photographs and
maps are provided in Appendix E. A detailed list of references used in preparing this document is presented in Appendix A.

1.4.2 Property Inspections

A VRS was conducted on October 14, 2008, to verify characteristics or features identified in the records search and to identify other potential environmental concerns related to the property. Generally, VRSs are cursory physical inspections conducted by walking around or through the areas in question. Visual site inspections are exterior and interior (walk-through) inspections, and are conducted to identify readily apparent concerns or attributes. Because the property does not contain any structures, visual site inspections (VSIs) were not conducted.

Photographs of the property are provided in Appendix F.

1.4.3 Personnel Interviews

During the meetings and the VRS, personnel at Pittsburgh IAP ARS and CONSOL Energy were interviewed to identify potential environmental concerns related to recent and historic operations at the proposed Cadiz Drop Zone, and to verify information found during the records search. A list of individuals contacted during the preparation of this EBS is provided in Appendix D. Primary contacts were made with 911 AW and CONSOL Energy personnel.

1.5 ORGANIZATION OF THE ENVIRONMENTAL ASSESSMENT AND ENVIRONMENTAL BASELINE SURVEY

This document is organized as follows:

Chapter 1.0 - Introduction: Describes the purpose, format, and content of the EA and EBS. Presents the survey methodology, and the approach and rationale used to identify and delineate environmental concerns.

Chapter 2.0 - Proposed Action and Alternatives: Describes the Proposed Action and alternatives analyzed in the EA and EBS. Also discusses the legal boundaries of the project area.

Chapter 3.0 - Affected Environment: Establishes the baseline status or environmental condition of the property at the time of the survey. Also discusses past, present, and future expectations for the property based on the Proposed Action and alternatives.

Chapter 4.0 - Environmental Impacts: Discusses the potential impacts to the property and the environment as a result of an implementation of the Proposed Action or the alternatives.
Chapter 5.0 - Findings for Adjacent Properties: Describes the approach used to conduct the adjacent property evaluation, and presents the results from federal and state agency records and other database searches and visual inspections.

Chapter 6.0 - Cumulative Effects of the Action: Discusses the potential effects from an implementation of the Proposed Action or alternatives, based on the past, present, and reasonably foreseeable future actions that take place on the property.

Chapter 7.0 - Applicable Regulatory Compliance Issues: Presents compliance issues for environmental resources that pose a potential concern to the property.

Chapter 8.0 - Presents property-specific information derived from the records search and site inspections, categorizes the level of contamination associated with the subject property, and identifies the location of uncontaminated property. This chapter also discloses data gaps and requirements for further investigation that are needed to close out environmental concerns.

Chapter 9.0 - Recommendations: Presents recommendations for areas of environmental concern identified in the EBS.

Chapter 10.0 - Irreversible and Irretrievable Commitment of Resources: Discusses the potential of the Proposed Action and alternatives to use nonrenewable resources.

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Appendix K: Interagency and Intergovernmental Coordination for Environmental Planning and Public Comments and Responses
2.0 ALTERNATIVES INCLUDING THE PROPOSED ACTION

This chapter describes the Proposed Action and alternatives for the establishment of a new drop zone for the 911 AW. It also provides a discussion of the alternatives considered, but eliminated from further consideration. The following alternatives are analyzed.

Under the **Proposed Action**, the 911 AW would lease property owned by CONSOL Energy in Harrison County, Ohio, for use as a drop zone for training.

Under the **No-Action Alternative**, the 911 AW would not lease the CONSOL Energy property and would continue to use the Starvaggi Drop Zone as their only airdrop training site.

2.1 PROPOSED ACTION

The Proposed Action is the establishment of a drop zone for use by the 911 AW. The proposed drop zone is an approximately 430-acre site located approximately 3.3 miles southwest of the town of Cadiz in Harrison County, Ohio (see Figure 1.2-2). The site is on a reclaimed strip mine owned by CONSOL Energy that is currently being leased for cattle grazing. The project entails lease of the site from CONSOL Energy by the AFR.

The proposed drop zone consists of a circular drop zone superimposed on a rectangular drop zone. The rectangular drop zone is approximately 1,500 yards (4,500 feet) long and 1,000 yards (3,000 feet) wide with a centerline oriented along a northwest-southeast axis (Figure 2.1-1). The circular drop zone has a 750-yard (2,250-foot) radius and is centered on the long axis of the rectangular drop zone, but offset approximately 250 yards (750 feet) to the southeast of the center of the rectangular drop zone. The dimensions of the proposed drop zone are those required by AFI 13-217, *Drop Zone and Landing Zone Operations*, for the airdrop activities proposed for this site. The site consists primarily of fairly level, open grassland. Some areas towards the edges of the proposed lease boundary have steeper slopes and small areas of woodlands, but drop zone activities are not proposed for these areas. Drop zone activities would generally be restricted to the center of the proposed lease area boundary. AFR experience indicates that most dropped items land within 300 yards of targets which would be located along the centerline of the drop zone.

Air drops would be conducted as part of aircraft training flights that are currently a routine activity. A typical drop training event would entail use of two C130 aircraft. Because the 911 AW has nine C-130 aircraft, a maximum of all nine aircraft could be used during a single airdrop training event, but this scenario is considered highly unlikely and would not occur during routine events. Flights to the drop zone would originate and terminate at Pittsburgh IAP ARS. During transit between Pittsburgh IAP and the drop zone, aircraft would fly at
Environmental Assessment and Baseline Survey
To Establish New Drop Zone in Cadiz, OH

Figure 2.1-1
approximately 2,500 feet above mean sea level (MSL) which, due to varying ground elevations, maintains a minimum altitude of 500 feet above ground level (AGL). Aircraft would not usually fly directly to the drop zone from the ARS, but would fly a training route. During drops, aircraft would fly between 500 and 1,500 feet AGL. Aircraft would be at the designated drop altitude, whether higher or lower than the transit altitude, at approximately 10 miles from the drop zone on approach and would return to the transit altitude 5 miles after leaving the drop zone. Aircraft speeds during drops would range from 125 to 150 knots. During a typical drop zone training day, 12 airdrop training events would be conducted. These would be conducted as part of three separate training flights, generally consisting of a morning, an afternoon, and an evening flight. During each of the three trips, each of the two aircraft would fly an approximately 45-minute training route, make a drop, fly another approximately 45-minute training route, then make a second drop before returning to the ARS. Each trip would take approximately 2 hours and cover approximately 120 nautical miles.

Aircraft approach would be limited to along a generally northwesterly–southeasterly orientation between 090 degrees (°) and 170° and between 300° and 360° (Figure 2.1-2). No fly zones for approach would be established in all other directions in order to avoid overflight of the Harrison County Airport, located approximately 2 miles northeast of the proposed drop zone. All aircraft would exit the drop zone at a direction away from the airport, between 135° and 315°.

Drop zone activities would be conducted 2-3 times per week. Most activities would consist of dropping training bundles consisting of 15-lb sandbags with 68-inch diameter parachutes. Heavier dropped material, referred to as “actual loads” would be dropped only 2-3 times per month. These would be container delivery systems, which weigh approximately 800 lbs, consisting of plywood pallets loaded with plastic water barrels; and heavy equipment, which weighs approximately 3,200 lbs, consisting of aluminum pallets loaded with concrete blocks. For each drop, a target would be placed on the drop zone. This is a raised angle marker consisting of an orange tarp angled to face the direction of the incoming aircraft. During night drops, battery-operated lights would be used. The target site may be marked by concrete blocks left in place between drops, but the target and lights would be set up and dismantled for each drop. Targets would either be in the center of the circular portion of the drop zone or would be along the centerline of the rectangular portion, shifted from the center towards the approach direction of the aircraft. The target would be designated at 500 yards from the boundary of the approach end of the drop zone. This is in accordance with the requirement in AFI 13-217 that a minimum distance of 1,000 yards beyond the target be within the drop zone.
EXPLANATION

- No-Fly Zones for Approach
- Proposed Drop Zone
- Harrison County Airport
- Flight Heading

No-Fly on Approach Zones, Proposed Cadiz Drop Zone

Figure 2.1-2
A 2-person crew using pickup trucks would conduct material recovery (e.g., sandbags and parachutes) after training bundle drops. Material recovery after actual load drops would be conducted by a 6-person crew and would typically require use of two pickup trucks, a forklift, and a flatbed truck.

The site would be certified for use by paratroopers. However, paratrooper drops are not currently planned as part of routine activities at the proposed drop zone, but would likely be conducted only as part of special training events. These are not expected to be conducted more than approximately once every two years. Paratrooper personnel dropped at the site would be transported back to Pittsburgh IAP ARS via military convoy.

Drop zone operations would generally be conducted between 7 a.m. and 11 p.m. and could occur any day of the week. However, activities would occur more often on weekdays while Saturday and Sunday activities would generally only occur approximately once per month. The drop zone boundary would not be fenced, but the entire site is located within a fenced area with a locked gate. Prior to conducting any drop activities, a drop zone safety officer would be on the ground at the site to verify that no persons are present on the drop zone. The safety officer would be in radio contact with the pilots.

The property is currently used for cattle grazing. This would not cease during the Air Force lease. Cattle would not need to be moved from the site during the training bundle drops that would occur each week. However, 2-3 times per month during actual load drops, cattle would need to be cleared from the drop zone area. The AFR would coordinate with the cattle owner on dates scheduled for actual load drops so that the cattle can be moved in advance.

The AFR would coordinate with the Federal Aviation Administration (FAA) flight service station to issue a local Notice to Airmen (NOTAM) when drops are scheduled. Air drops would be limited by weather conditions that allow visual confirmation of the target from the aircraft. No drops would be conducted under weather conditions that would prevent the flight crew from seeing the target, such as low clouds or fog.

No significant modification of the site, such as grading access roads, clearing vegetation, or constructing facilities, would be required to establish the drop zone. It is expected that cattle grazing would continue to control the height of vegetation on the site, thereby eliminating the need for routine vegetation control. However, should vegetation on the active part of the drop zone become too tall, its height may need to be controlled by mowing. The AFR would be responsible for conducting any mowing activity deemed necessary for drop zone site maintenance.
Use of the Cadiz Drop Zone would generally replace use of the existing drop zone currently used by the 911 AW, the Starvaggi Drop Zone; however, the 911 AW would retain the Starvaggi Drop Zone and maintain it as an alternate airdrop training site. Switching activity from the Starvaggi Drop Zone to the proposed Cadiz Drop Zone would not result in any change in aircraft or other activity at the Pittsburgh IAP ARS. Aircraft would have to fly 7 minutes longer and 25 nautical miles farther to reach the Cadiz Drop Zone than they currently do to reach the Starvaggi Drop Zone.

### 2.2 ALTERNATIVES

For purposes of this EA, the No-Action Alternative was considered. This is described below.

#### 2.2.1 No-Action Alternative

Under the No-Action Alternative, the AFR would not lease the property from CONSOL Energy to establish the new Cadiz Drop Zone. Airdrop training would continue at the Starvaggi Drop Zone. There would be no change in existing conditions. Because of limitations on use of the Starvaggi Drop Zone, continued reliance on this site as its only drop zone training site would limit the 911 AW’s training capability and combat readiness and is not consistent with the purpose and need for the proposed action. However, it is evaluated in this EA because it is required by NEPA regulations (40 CFR 1502.14(d)).

#### 2.2.2 Alternatives Considered but Eliminated from Further Consideration

The site selection criteria for a drop zone that meets the 911 AW airdrop training requirements include:

- location within 120 miles/2 hours driving time of Pittsburgh IAP ARS to minimize travel time to and from the site for material recovery
- relatively level and free of steep slopes and large trees
- large enough to establish a rectangular drop zone 1000 yards wide and 1500 yards long
- can be surveyed for a circular drop zone with a minimum radius of 750 yards
- located away from populated areas
- can support training 2-3 times per week
- not have airspace restrictions limiting airdrop altitudes and airspeeds
Four drop zone sites located within 120 miles of Pittsburgh IAP ARS were considered for the 911 AW airdrop training needs, but were eliminated for other reasons. These are discussed below.

*Expand the Starvaggi Drop Zone.* This drop zone is currently the only drop zone of the 911 AW. Expansion of this drop zone to meet the 911 AW airdrop training needs was eliminated as an alternative because the site does not meet the following selection criteria:

- This site is only 1100 yards long by 800 yards wide and cannot be expanded to the minimum size required due to steep slopes on adjacent areas
- It can only support run-ins from one direction, so cannot be surveyed as a circular drop zone
- It has a large number of trees 20 feet or higher. Removal of these trees could result in environmental impacts
- It is located within an airspace associated with Pittsburgh IAP that has restrictions which limit airdrop altitudes and air speeds.

*Use the Slagle Drop Zone.* This existing drop zone is located at the Ravenna Arsenal, Ohio. It is currently used by the 910 AW located at Youngstown, Ohio. Because this drop zone is currently being routinely used by the 910 AW for their training needs, it is not available to be used by the 911 AW at the frequency requirements of 2-3 times per week. Therefore, it was eliminated from further consideration.

*Use the Tater Drop Zone.* This existing drop zone is located in Indiana County, Pennsylvania. It is also currently used by the 910 AW. This drop zone does not meet the minimum size requirements and because it is used by the 910 AW for their training, it is not available to the 911 AW for the required training frequency. Therefore, it was eliminated from further consideration.

*Reestablish the Mingo Drop Zone.* This is a former drop zone located in Jefferson County, Ohio. It was leased by the 911 AW until December 1997 when the land was returned to the Ohio Department of Natural Resources (DNR). The site is now part of the Fernwood State Forest. Trees have been planted on it and it is no longer available for use as a drop zone. Therefore, it was eliminated from further consideration.
2.3  BOUNDARIES OF THE PROPERTY/SURVEY AREA

2.3.1  Legal Description of the Property to be Transferred

The proposed Cadiz Drop Zone is a 430-acre area that would be leased from CONSOL Energy. The leased area would occupy portions of 5 parcels with Assessor Parcel Numbers (APNs) 02-0000212.000, 02-0000217.000, 04-0000070.000, 04-0000072.000, and 04-0000094.000. These APNs are located in Township 10, North, Range 5 West, Sections 13, 14, 19, and 20. The proposed lease area is referred to as the Cadiz Drop Zone in this document.

2.3.2  Map

A map of the property is provided in Figure 2.1-1.
3.0 AFFECTED ENVIRONMENT

3.1 ENVIRONMENTAL SETTING

3.1.1 Topographic Features

Based on the latest United States Geological Survey (USGS) topographic map for the Flushing Quadrangle (1994), elevations on the Cadiz Drop Zone range from approximately 1,100 to 1,300 ft above MSL. However, based on observation made during the VRS, because of strip mining and subsequent grading conducted as part of mine site reclamation, the current contours of the property are not the same as depicted on the map. As observed during the VRS of the property, the central portion of the property is fairly level. This area slopes down to areas of lower elevations to the north, south, and southwest. To the north, the topography slopes down into an east-west trending valley that contains the two ponds on the property. The north side of this valley is an area of higher elevation than the central area. A ridge of higher land is also located on the eastern edge of the property. To the south and southwest, the topography slopes down from the central area to the areas of lowest elevation on the property in the southern and western corners.

3.1.2 Chain of Title for the Past 50 Years

The Cadiz Drop Zone is located on portions of several APN parcels currently owned by CONSOL Energy. These parcels are part of a property conveyed by deed from Consolidation Coal Company, a Delaware Corporation to Consolidation Coal Company, a Pennsylvania Corporation on September 15, 1966. Consolidation Coal Company (Pennsylvania) was known as Pittsburgh Consolidation Coal Company prior to 1958. The property was conveyed to Pittsburgh Consolidation Coal Company, or to Consolidation Coal Company (Pennsylvania) after the name change in 1958, by multiple owners between 1946 and 1965.

3.1.3 Utilities Available to the Site

No utilities are present on or adjacent to the Cadiz Drop Zone.

3.2 LAND USE

3.2.1 Current Land Use

The Cadiz Drop Zone and adjacent areas consist of a reclaimed strip mine that is currently used for cattle grazing. Neither Cadiz Township nor Harrison County have any zoning or land use planning designations applicable to the property (Earth Tech, Inc., 2008).
3.2.2 Historic Land Use

According to the current property owner, CONSOL Energy, the Cadiz Drop Zone is an area that was mined under 2 separate permits. Mining occurred from approximately the early to mid 1980s to the early to mid 1990s. Reclamation began on the northern portion of the area in the early 1990s and in the southern/southwestern portion in the mid to late 1990s. After reclamation, bond releases occurred in 3 phases: Phase 1 – after completion of site grading; Phase 2 – after completion of seeding; and Phase 3 (Final Release) – after 5 years of maintenance. The final bond release has been granted for this property (Earth Tech, Inc., 2008).

3.3 AIRSPACE

Navigable airspace is a limited national resource that Congress has charged the FAA to administer in the public interest as necessary to ensure the safety of aircraft and its efficient use. Although the FAA must protect the public's right of freedom of transit through the airspace, full consideration shall be given to all airspace users, to include national defense; commercial and general aviation; and space operations (Federal Aviation Administration, 2008). The FAA manages commercial and general aviation activity within navigable airspace, and the military manages military aviation activity with FAA oversight.

The proposed Cadiz Drop Zone activities would occur within airspace currently used by the 911 AW. Current 911 AW airspace activities are described and analyzed in the Environmental Assessment of the Training Operations Conducted by the 911th Airlift Wing, Pittsburgh International Airport Air Reserve Station, Pennsylvania (December, 2000). Harrison County, Ohio, is located beneath the 911 AW’s Low Altitude Tactical Navigation Area (LATN) B. A LATN is normally an area of navigable airspace that permits most types of required training activities and random routing. The 911 AW uses LATN B for low-altitude tactical navigation. C-130H aircrews fly at altitudes down to 500 ft AGL and at speeds not exceeding 250 knots indicated airspeed (approximately 285 miles per hour).

The 911 AW also trains along Station Keeping Equipment (SKE) and Tactical (TAC) routes which pass over Harrison County. C-130 aircrews use SKE routes for formation flying, usually up to 4 aircraft. TAC routes are used for low-level training and approach to the Starvaggi Drop Zone. Altitudes flown on both SKE and TAC routes vary between 500 and 4,000 feet AGL.

Harrison County Airport is located approximately 2 miles to the northeast of the proposed drop zone. It also underlies or is adjacent to 911 AW SKE and TAC routes. It is an uncontrolled (no control tower) public airport with a single runway oriented northwest-southeast (134/314 degrees magnetic).
The 911 AW has a Military Airspace Collision Avoidance (MACA) plan that includes procedures for clearing local airspace prior to conducting air drops.

3.4 NOISE

Noise can be described as unwanted sound. While most people conduct their daily lives in an environment full of sounds, some or all of these sounds can be generally undesirable and may detract from the quality of the human environment. A number of factors affect sound as it is perceived by the human ear. These factors include the actual level of the sound, the frequencies involved, the period of exposure, and changes or fluctuations in sound levels during exposure. Noise levels are measured in units called decibels (dB). Because the human ear cannot perceive all pitches or frequencies equally well, noise measures are adjusted to compensate for the human lack of sensitivity to low-pitched and high-pitched sounds. This adjusted unit is known as the A-weighted decibel (dBA). The A-weighted network de-emphasizes both very low- and very high-pitched sounds, so measured levels better correlate with human perception.

Human response to changes in noise levels depends on a number of factors, including the quality of the sound, the magnitude of the changes, the time of day at which the changes take place, whether the noise is continuous or intermittent, and the individual's ability to perceive the changes. Human ability to perceive changes in noise levels varies widely with the individual, as does response to the perceived changes. A change in noise level of less than 3 (three) dBA is barely perceptible to most listeners while a 10 dBA change normally is perceived as a doubling (or halving) of noise. Moreover, if sound intensity doubles, the noise level will be increased by 3 dBA. These thresholds allow for estimation of an average individual's probable perception of, and reaction to, changes in noise levels.

It is often useful when measuring noise levels to take into account the difference in perception and response between daylight, waking hours and nighttime, sleeping hours. To this end, a descriptor called the day-night noise level (DNL) has been developed: DNL is defined as the A-weighted average sound level during a 24-hour period, with a 10-dBA penalty weighting applied to noise occurring during nighttime (10 pm to 7 am). The 10-dBA weighting accounts for the fact that noises at night are more perceptible because of the lesser overall sound level.

The DNL descriptor has been recognized by the Department of Housing and Urban Development (HUD), the U.S. EPA, the FAA, and DOD as one of the most appropriate metrics for estimating the degree of nuisance or annoyance that increased noise levels would cause in residential neighborhoods. Therefore, DNL has been selected as the appropriate noise descriptor for this analysis.
In June 1980, the Federal Interagency Committee (FIC) on Urban Noise published guidelines relating DNL to compatible land uses. This committee was composed of representatives of DOD, the Department of Transportation, HUD, the U.S. EPA, and the Veterans Administration. Since the issuance of these guidelines, federal agencies have generally adopted them for their noise analyses.

Ambient background noise levels in the vicinity of the proposed drop zone are typical of a rural environment. It is expected that the project neighborhood can be considered a relatively quiet rural area, but strip mining, traffic, and occasional aircraft overflights add noise to the neighborhood intermittently.

3.5 AIR QUALITY

Air quality in a given location is defined by the concentration of various pollutants in the atmosphere, generally expressed in units of parts per million (ppm) or microgram per cubic meter (μg/m³). Air quality is determined by the type and amount of pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing meteorological conditions. The significance of a pollutant concentration is determined by comparing it to federal and/or state ambient air quality standards. The federal Clean Air Act (CAA), 42 U.S.C. 7401-7671(q), amended in November 1990, stipulates that emissions sources must comply with the air quality standards and regulations that have been established by federal, state, and county regulatory agencies. These standards and regulations focus on (1) the maximum allowable ambient pollutant concentrations and (2) the maximum allowable emissions from individual sources.

The U.S. EPA established the federal standards for the permissible levels of certain pollutants in the atmosphere. The National Ambient Air Quality Standards (NAAQS) have been established for seven criteria pollutants: ozone, nitrogen dioxide (NO₂), particulate matter equal to or less than 10 microns in diameter (PM₁₀), particulate matter equal to or less than 2.5 microns in diameter (PM₂.₅), carbon monoxide (CO), sulfur dioxide (SO₂), and lead. Ozone is a secondary pollutant formed in the atmosphere by photochemical reactions of previously emitted pollutants, or precursors. The ozone precursors are nitrogen oxide (NOₓ) and volatile organic compounds (VOCs). The NAAQS are outlined in Table 3.4-1.

The U.S. EPA designates all areas of the United States as having air quality better than (attainment) or worse than (non-attainment) the NAAQS. Pollutants in an area may be designated as unclassified when there are insufficient ambient air quality data for the U.S. EPA to form a basis for an attainment status. The non-attainment classifications for CO and PM₁₀ are further divided into moderate and serious categories. Ozone non-attainment is divided into marginal, moderate, serious, severe, and extreme categories.
### Table 3.4-1. National Ambient Air Quality Standards\(^{(a)}\)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Averaging Time</th>
<th>Primary(^{(b,c)})</th>
<th>Secondary(^{(b,d)})</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ozone</td>
<td>8-hour</td>
<td>0.075 ppm(^{(e)})</td>
<td>Same as primary standard</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(147 µg/m(^3))</td>
<td></td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>8-hour</td>
<td>9 ppm</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(10 mg/m(^3))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-hour</td>
<td>35 ppm</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(40 mg/m(^3))</td>
<td></td>
</tr>
<tr>
<td>Nitrogen dioxide</td>
<td>Annual Arithmetic</td>
<td>0.053 ppm</td>
<td>Same as primary standard</td>
</tr>
<tr>
<td></td>
<td>Mean</td>
<td>(100 µg/m(^3))</td>
<td></td>
</tr>
<tr>
<td>Sulfur dioxide</td>
<td>Annual Arithmetic</td>
<td>0.03 ppm</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>Mean</td>
<td>(80 µg/m(^3))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>24-hour</td>
<td>0.14 ppm</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(365 µg/m(^3))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-hour</td>
<td>--</td>
<td>0.5 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(1,300 µg/m(^3))</td>
</tr>
<tr>
<td></td>
<td>1-hour</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>PM(_{10})</td>
<td>24-hour</td>
<td>150 µg/m(^3)</td>
<td>Same as primary standard</td>
</tr>
<tr>
<td>PM(_{2.5})</td>
<td>Annual Arithmetic</td>
<td>15 µg/m(^3)</td>
<td>Same as primary standard</td>
</tr>
<tr>
<td></td>
<td>Mean</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24-hour</td>
<td>35 µg/m(^3)</td>
<td>Same as primary standard</td>
</tr>
<tr>
<td>Lead</td>
<td>Rolling 3-month average</td>
<td>0.15 µg/m(^3)</td>
<td>Same as primary standard</td>
</tr>
<tr>
<td></td>
<td>Quarterly</td>
<td>1.5 µg/m(^3)</td>
<td>Same as primary standard</td>
</tr>
</tbody>
</table>

Notes: (a) National standards (other than ozone, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration in a year, averaged over 3 years, is equal to or less than the standard. For PM\(_{10}\), the 24-hour standard is attained when it is not exceeded more than once per year, averaged over 3 years. For PM\(_{2.5}\), the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current federal policies.

(b) Concentrations are expressed first in units in which they were promulgated. Equivalent units given in parentheses are based on a reference temperature of 25 degrees Celsius (°C) and a reference pressure of 760 millimeters (mm) of mercury. All measurements of air quality are to be corrected to a reference temperature of 25 °C and a reference pressure of 760 mm of mercury (1,013.2 millibar); ppm in this table refers to parts per million by volume, or micromoles of pollutant per mole of gas.

(c) National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

(d) National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of pollutant.

(e) 2008 standard. The 1997 standard of 0.08 ppm remains in place for implementation purposes until the EPA undertakes rulemaking to address the transition to the 2008 standard.

µg/m\(^3\) = micrograms per cubic meter
mg/m\(^3\) = milligrams per cubic meter
PM\(_{2.5}\) = particulate matter equal to or less than 2.5 microns in diameter
PM\(_{10}\) = particulate matter equal to or less than 10 microns in diameter
ppm = parts per million
For purposes of the air quality analysis, the region of influence consists of the airshed that the proposed Cadiz Drop Zone property is within, Harrison County, which covers all cities, towns, and unincorporated areas within Harrison County.

**Regional Air Quality.** Harrison County has been designated as an attainment area for all criteria pollutants (U.S. EPA Greenbook, 2008).

Title 40 CFR 51 Part 93, General Conformity, requires federal actions to conform to any State Implementation Plan (SIP) approved or promulgated under Section 110 of the CAA. An air conformity applicability analysis and possibly a formal air conformity determination are required for federal actions in nonattainment or maintenance areas. The general conformity rule does not apply because Harrison County is classified as an attainment area for the NAAQS.

As an attainment area, Harrison County is regulated under the Prevention of Significant Deterioration (PSD) program authorized by the CAA Part C Sections 160-169. PSD areas require that owners and/or operators of new or modified stationary sources obtain a PSD permit prior to construction of a major source situated in attainment or unclassified areas. A major source is defined by PSD regulations as being a specific type of stationary source listed by the U.S. EPA that has a potential of emitting 100 tons per year (tpy) or more of a regulated pollutant. A source not listed by the U.S. EPA may also be considered major if it has the potential to emit 250 tpy or more of a regulated pollutant. PSD permitting criteria would be applicable if the potential emissions are 250 tpy or more of a regulated pollutant. Because no stationary sources of air emissions are associated with the establishment and operation of the Cadiz Drop Zone, PSD permitting does not apply to this project. In addition, there are no Class I areas within 10 kilometers of the property.

Currently, air emissions associated with the property are limited to engine exhaust and fugitive dust generated by infrequent ground vehicle use on the unpaved roads to and on the property. There are no stationary sources.

**Greenhouse Gas Emissions.** Greenhouse gases are compounds found naturally in the Earth’s atmosphere. The compounds trap infrared heat converted from the sunlight inside Earth’s atmosphere. In this way, greenhouse gases act as insulation, and contribute to the maintenance of global temperatures. As the levels of greenhouse gases increase, however, the result is a greater overall temperature on Earth. As 83 percent of greenhouse gases are carbon dioxide (CO₂) emissions, this EA considers CO₂ as the representative greenhouse gas emission and predicts CO₂ levels as appropriate for disclosure purposes.
3.6 SAFETY

Aspects of safety relevant to this EA are limited to those associated with airdrop activities. Safety aspects associated with the low-level C-130 aircraft training that would be conducted prior to and after airdrop activities are considered part of the ongoing aircraft training flights that are conducted in the area. These were described and analyzed in the EA prepared for training operations conducted by the 911 AW (Headquarters Air Force Reserve Command, 2000). AFI 13-217, *Drop Zone and Landing Zone Operations*, prescribes the procedures, techniques, and requirements for operating drop and landing zones. It includes criteria for drop zones and airdrop procedures to ensure safe operations. The 911 AW currently follows standard drop zone safety procedures at the Starvaggi Drop Zone. These include ensuring the drop zone is clear prior to air drops, maintaining radio contact with aircraft and a system of physical ground-to-air signals as backup, and implementing security measures along access roads to advise any traffic that air drops are in progress.

3.7 HAZARDOUS MATERIALS AND HAZARDOUS WASTE

3.7.1 Results of Database Search

Records maintained by federal, state, and tribal agencies were searched to identify reported sites storing hazardous materials and/or generating hazardous waste in the vicinity of the Cadiz Drop Zone. These records included locations of facilities with USTs, facilities with leaking USTs, and uncontrolled or abandoned hazardous waste sites. The agency records search consisted of a review of computerized federal, state, and tribal environmental compliance databases.

The search of federal, state, and tribal databases was performed focusing on the proposed Cadiz Drop Zone (Environmental Data Resources, Inc., 2008a) (Appendix G-1). A list and description of the databases included in the search and the distances searched for each database are provided in the database search results report. These databases were investigated with due diligence based on the minimum search distances recommended by the American Society for Testing and Materials (ASTM) guidelines for conducting Phase I site assessments (American Society for Testing and Materials, 2005). No adjacent sites were identified within the respective search area for the databases.

3.7.2 Hazardous Substances

3.7.2.1 Hazardous Material and Petroleum Products

Hazardous materials and petroleum products are not present or stored on the Cadiz Drop Zone. It is assumed that the present tenant on the property uses petroleum products (gasoline/diesel) for transportation purposes. A review of available records and interviews
with CONSOL Energy personnel did not indicate the past storage of hazardous materials or petroleum products; however it is assumed that some hazardous materials and petroleum products were used in the equipment used to mine the land.

### 3.7.2.2 Hazardous and Petroleum Waste

Hazardous and petroleum waste are not present, stored, or used on the Cadiz Drop Zone. A review of available records and interviews with CONSOL Energy personnel did not indicate the past storage of hazardous or petroleum waste; however it is possible that hazardous and petroleum waste could have been generated when the land was being mined.

### 3.7.3 Environmental Restoration Program

The ERP was established to identify, characterize, and remediate CERCLA related contamination on Air Force installations. The program is designed to evaluate past disposal sites, control the migration of contaminants, and control potential hazards to human health and the environment. The property is not owned by the Air Force nor is it currently used by or controlled by the Air Force. No ERP sites are present on the Cadiz Drop Zone.

### 3.7.4 Storage Tanks

No aboveground storage tanks, underground storage tanks, or pipelines (including hydrant fueling and transfer systems) are present on the property. A review of available records and interviews with CONSOL Energy personnel did not indicate the past use of storage tanks.

### 3.8 OIL/WATER SEPARATORS

No oil/water separators are present on the property. A review of available records and interviews with CONSOL Energy personnel did not indicate the past use of oil/water separators on the property.

### 3.9 SOLID WASTE

No solid waste is generated on the Cadiz Drop Zone. A review of available records and interviews with CONSOL Energy personnel did not indicate the generation of solid waste on the property.

### 3.10 MEDICAL OR BIOHAZARDOUS WASTE

No evidence of medical or biohazardous waste is present on the property. A review of available records and interviews with CONSOL Energy personnel did not indicate the generation of medical or biohazardous waste on the property in the past.
3.11 RADIOACTIVE WASTE

No evidence of radioactive waste is present on the property. A review of available records and interviews with CONSOL Energy personnel did not indicate the generation of radioactive waste on the property in the past.

3.12 WASTEWATER TREATMENT, COLLECTION, AND DISCHARGE

No evidence of wastewater treatment, collection, or discharge is present on the Cadiz Drop Zone. A review of available records and interviews with CONSOL Energy personnel did not indicate the generation of wastewater on the property in the past.

3.13 PESTICIDES

No evidence of pesticide treatment was present on the property. A review of available records and interviews with CONSOL Energy personnel did not indicate the past use of pesticides on the property.

3.14 ORDNANCE

No evidence of ordnance was present on the property. Based on its past use as a strip mine it is possible that some explosives were used on the property and adjacent areas during the mining process; explosives could have been used. Because of subsequent mine site reclamation, the presence of ordnance or ordnance-related contaminants are not expected.

3.15 ASBESTOS

No structures are present on the property. A review of available records, including historic aerial photographs and topographic maps, and interviews with CONSOL Energy personnel did not indicate the presence of structures on the property; therefore, asbestos was not used on the property in the past.

3.16 POLYCHLORINATED BIPHENYLS

No structures or transformers are present on the Cadiz Drop Zone. A review of available records, including historic aerial photographs and topographic maps, and interviews with CONSOL Energy personnel did not indicate the presence of structures or transformers on the property; therefore, polychlorinated biphenyls were not used on the property in the past.
3.17 RADON

Radon is a naturally occurring, colorless, and odorless radioactive gas produced by radioactive decay of naturally occurring uranium. Radon that is present in soil can enter a building through small spaces and openings, accumulating in enclosed areas such as basements. There are no federal or state standards regulating radon exposure at the present time.

The U.S. EPA has prepared a map of radon zones for the United States that assigns each county to one of three zones based on radon potential. Predicted indoor radon levels are highest in Zone 1 and lowest in Zone 3. Harrison County, Ohio, is designated as Zone 1. Predicted average indoor radon levels in Zone 1 areas are over 4 pCi/l (Environmental Data Resources, Inc., 2008a). However, radon potential in a county can vary. The property does not have any structures; therefore there are no concerns with indoor radon levels.

3.18 LEAD-BASED PAINT

No structures are present on the property. A review of available records, including historic aerial photographs and topographic maps, and interviews with CONSOL Energy personnel did not indicate the presence of structures on the property; therefore, lead-based paint was not used on the property in the past.

3.19 EARTH RESOURCES

Harrison County is situated within the Allegheny Plateaus Section of the Appalachian Plateaus Province (Brockman, 1998). Bedrock exposed at the surface in Harrison County belongs to the Pennsylvanian and Permian systems. Rocks of the Conemaugh Group cover approximately two thirds of the county. This group belongs to the Pennsylvanian system and includes interbedded dirty, micaceous sandstones, shales, siltstones, thin, fine-grained limestones, and minor coals. Higher in the section, the rocks tend to include more fine grained mudstones and claystones (Angle and Walker, 2002).

The following information on soils is derived from the Soil Survey of Harrison County, Ohio (U.S. Department of Agriculture, 1998). The soil survey uses aerial photographs from 1981 to map soil types. Because the property and adjacent areas have been reclaimed since the time these aerial photographs were taken, current soil types on the property may not be the same as indicated in the soil survey report.

Soils in the area including the property belong to the Morristown-Guernsey Association. These consist of deep and very deep, nearly level to very steep, well drained and moderately well drained soils on uplands that formed in material mixed by surface mining and in
residuum and colluvium derived from shale, siltstone, and limestone. This association is in and around extensive areas that have been surface mined for coal. In some areas it consists of steep and very steep banks of spoil material that has been deposited parallel to a highwall, below a remnant of the original landscape. In other areas the spoil material has been regraded to eliminate the highwall or the entire landscape above the coal has been moved during mining and then regraded. These areas generally are regraded to a nearly level to moderately steep slope.

Soils mapped on the Cadiz Drop Zone are primarily Morristown with some areas of Guernsey and Orville soils. Morristown soils are very deep and well drained. They are in nearly level to very steep areas that have been surface mined for coal. They are subject to slippage in moderately steep to very steep areas. Some areas are bouldery or stony. Permeability is moderately slow. Guernsey soils are deep and very deep and are moderately well drained. They are on strongly sloping to steep benches and side slopes, above and below the Morristown soils. Guernsey soils are subject to slippage in moderately steep and steep areas. Permeability is slow or moderately slow. Orrville soils are somewhat poorly drained. They are on nearly level flood plains and are subject to occasional flooding. Permeability is moderate. Orrville soils are mapped only in the southern corner of the property.

3.20 WATER RESOURCES

3.20.1 Hydrogeologic Features

In Harrison County, the Flushing Escarpment, a major bedrock ridge situated in the eastern fourth of the county, serves as a major drainage divide separating the stream flow east to the Ohio River and west to the Tuscarawas River (Angle and Walker, 2002). Drainages near the property flow to the South Fork and Brushy Fork. These streams flow westerly to Clendening Lake which empties into Stillwater Creek, which drains into the Tuscarawas River.

Water resources on the Cadiz Drop Zone consist of two ponds created as part of mine reclamation and a small stream in the southern corner (Earth Tech, Inc., 2008).

3.20.2 Drinking Water Quality

There are no utilities provided to the property, including drinking water. Therefore, drinking water quality is not relevant to this site.

3.20.3 Groundwater

Ground water in Harrison County is obtained from both unconsolidated (alluvial) and consolidated (bedrock) aquifers. Stillwater Creek and Conotton Creek contain thin sand and gravel interbedded with thicker sequences of finer-grained lacustrine and alluvial deposits.
Yields up to 25 gallons per minute are obtained from these sandy lenses. Other tributaries in the county contain deposits that are either too thin or fine-grained to constitute sustainable aquifers. These fine-grained deposits more likely help provide extra recharge to the underlying bedrock (Angle and Walker, 2002).

Yields from the consolidated, bedrock aquifers throughout the county tend to be low. Yields typically tend to be especially poor along ridge tops. Bedrock yields less than 5 gallons per minute for aquifers developed in the Permian, Conemaugh, and Monongahela groups. Aquifers developed in the Allegheny group potentially yield approximately 10 gallons per minute. Yields were found to be approximately 10 gallons per minute around Cadiz Township (Angle and Walker, 2002).

A review of records indicated the presence of a well (OHD 10000037968) located near the center of the property (EDR, 2008a). Interviews with Consol Energy personnel indicated that the well most likely no longer exists, due to mining activities.

### 3.2.1 BIOLOGICAL RESOURCES

The property is located within the Monongahela Transition Zone of the Western Alleghany Plateau Ecoregion. Potential natural vegetation in this ecoregion consists of mixed mesophytic and mixed oak forest (U.S EPA, 2008). The following discussion of biological resources on and adjacent to the property is based on observations made during the VRS conducted on 14 October 2008.

The majority of the property is on a reclaimed strip mine. The mined area has been graded and revegetated and is currently a grassland used for cattle grazing. The vegetation consists primarily of grasses and legumes (e.g., clover, vetch) with some other forbs, including Aster sp., Queen Anne’s lace (Daucus carota), chicory (Cichorium intybus), goldenrod (Solidago sp.), and teasel (Dipsacus fullonum). A few small single cottonwood (Populus deltoides) and black locust (Robinia pseudoacacia) trees are present in the grassland area. Two small wooded areas, located at the western and southern edges of the property occupy areas that were probably not mined. Tree species identified in the woodland include sycamore (Platanus occidentalis), black locust, sugar maple (Acer saccharum), silver maple (Acer saccharinum), cottonwood, ash (Fraxinus sp.), and black walnut (Juglans nigra). Common under story plants in the woodland include poison ivy (Toxicodendron radicans), brambles (Rubus sp.), and bush honeysuckle (Lonicera sp). Two areas of cattails (Typha sp.) and willows (Salix sp.) are adjacent to the southern woodland area (Earth Tech, Inc., 2008).
Wildlife species observed were white-tail deer (Odocoileus virginianus) and several bird species [(mallard (Anas platyrhynchos), northern harrier (Circus cyaneus), black vulture (Coragyps atratus), turkey vulture (Cathartes aura), American kestrel (Falco sparverius), American crow (Corvus brachyrhynchos), northern flicker (Colaptes auratus), and yellow-rumped warbler (Dendroica coronata)]. Domestic cattle were observed only in adjacent areas, but signs of cattle grazing, including droppings and heavy trampling in wet areas, were evident on the property (Earth Tech, Inc., 2008).

3.21.1 Wetlands/Floodplains

Wetlands are defined as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions (Federal Interagency Committee for Wetland Delineation, 1989). Wetlands are regulated under Section 404 of the Clean Water Act (CWA) and Executive Order (EO) 11990 (Protection of Wetlands).

Potential wetlands on the property have not been delineated.

Two ponds are present in the northern portion of the property. These appear to be artificial water bodies created during site reclamation. Two areas of cattails (wetland obligate species) are present on the property. Near the center of the property a small area (less than ¼ acre) appeared as a dried puddle during the VRS. Although this dry puddle is generally barren and has been heavily trampled by cattle, a few clumps of rushes (Juncus sp.) (wetland obligate species) grow in this area (Earth Tech, Inc., 2008).

A small stream flows along the edges of the woodland areas located on the western and southern portion of the drop zone (Earth Tech, Inc., 2008).

3.21.2 Protected Species

According to the U.S. Fish and Wildlife Service (USFWS), the only federally listed species recorded for Harrison County and having the potential to occur within the drop zone area is the federally endangered Indiana bat (Myotis sodalis) (U.S. Fish and Wildlife Service, 2008). Focused surveys for the presence of this species were not conducted as part of this EA.

Indiana bats hibernate during winter in caves or, occasionally, in abandoned mines (hibernacula). For hibernation, they require cool, humid caves with stable temperatures, under 50° F but above freezing (U.S. Fish and Wildlife Service, 2007).

Hibernation is an adaptation for survival during the cold winter months when no insects are available for bats to eat. Bats must store energy in the form of fat before hibernating. During
the six months of hibernation the stored fat is their only source of energy. If bats are disturbed or cave temperatures increase, more energy is needed and hibernating bats may starve (U.S. Fish and Wildlife Service, 2007).

After hibernation, Indiana bats migrate to their summer habitat in wooded areas where they usually roost under loose tree bark on dead or dying trees. During summer, males roost alone or in small groups, while females roost in larger groups of up to 100 bats or more. Indiana bats also forage in or along the edges of forested areas (U.S. Fish and Wildlife Service, 2007).

The Ohio DNR implements and maintains Ohio’s Natural Heritage Program, which supplies information concerning rare or endangered species occurrence data. The Ohio DNR was contacted as part of this analysis and asked to provide feedback of the likelihood for the Indiana bat to occur on or adjacent to the proposed project area. The Ohio DNR reviewed Natural Heritage maps and files for the regional area and concluded that no records of Indiana bat have been recorded within 5 miles of the property and no Indiana bat hibernacula have been recorded within 10 miles of the property.

The AFR has conducted informal consultation with the USFWS (see Appendix J). The agency indicated that the project site lies within the range of the bald eagle (Haliaeetus leucocophalus), a species protected under the Bald and Golden Eagle Protection and Migratory Bird Treaty acts, but that it would not be expected to occur within the project area. However, Ohio DNR has indicated that the location of activity of bald eagles, which are a state threatened species, frequently changes and that the presence of bald eagles in the area may change.

Ohio DNR has also indicated that the project is within the range of the black bear (Ursus americanus) and the bobcat (Lynx rufus), both state endangered species.

3.22 CULTURAL RESOURCES

Federal laws and regulations, such as the National Historic Preservation Act (NHPA) and the Archaeological Resources Protection Act of 1979 (ARPA) require federal agencies to consider the effects of a Proposed Action on cultural resources. These laws and regulations stipulate a process for compliance, define the responsibilities of the federal agency proposing the action, and prescribe the relationships among other involved agencies (e.g., the State Historic Preservation Officer [SHPO], the Advisory Council on Historic Preservation). The primary law governing the treatment of cultural resources is the NHPA, which requires a federal agency to consider potential impacts on cultural resources from any proposed undertaking. However, only those cultural resources determined to be significant under cultural resources legislation are subject to protection or consideration by a federal agency.
Significant cultural resources, whether they are prehistoric, historic, or traditional in nature, are referred to as “historic properties.”

The NHPA defines a historic property as any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register of Historic Places (National Register) maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term also includes properties of traditional religious and cultural importance to an Indian tribe that meet National Register criteria. For the purposes of this analysis, the area of potential effect (APE) as defined under cultural resources legislation is the proposed Cadiz Drop Zone, a 430-acre parcel in Harrison County, Ohio. Cultural resources are divided into two topics; Archaeological or Historic Sites and Native American Issues.

3.22.1 Archaeological / Historic Sites

Only a small portion of the 430-acre parcel has been inventoried for cultural resources. However, the majority of the 430-acre parcel is a former strip mine. The original land surface has been mined and subsequently reclaimed. Because of the severe ground disturbance associated with both mining and reclamation activities, the potential for discovery of archaeological resources is considered very low within the APE. Of the 430 acres, roughly 10 percent are considered not affected by strip mining activities. One archaeological survey has been conducted within this portion. The archaeological survey was conducted in 1990 by ASC, Inc (Mustain, 1990). The majority of the survey was conducted outside the APE to the west in support of an application to expand the mining operation. It included both pedestrian survey and shovel probes. This survey recorded a single archaeological site; the Barricklow Farm (HN0061 and HAS0062414). The Barricklow family settled in the area in the early 1800s. The structures within the APE are a dilapidated corn crib or machine shed and a collapsed barn. Both structures are of unknown date, but the recorders noted they do not appear on topographic maps from the early 20th century. The structures were described as neglected and partially demolished. Several pieces of whiteware and stoneware were collected along with some brick fragments from the area around the collapsed barn and corn crib or machine shed. The artifacts from these excavations are curated with the Ohio Historical Society. The shed was listed as neglected and partially demolished. Neither the National Register Status nor State Registry status were assessed.

3.22.2 Native American Issues

In compliance with the NHPA and American Indian Religious Freedom Act, the Air Force has consulted with American Indian groups that have historically inhabited or occupied the vicinity of the Cadiz Drop Zone (see Appendix J). No specific concerns of tribal organizations with regard to the property were identified.
3.23 SOCIOECONOMICS

The proposed drop zone site is located in Cadiz Township in Harrison County. The estimated population of Harrison County in 2006 was 15,799, a 0.4 percent decrease from its population of 15,856 in 2000. Cadiz Township had a population of 3,639 in 2000. In 2000, 7,018 residents of Harrison County were employed and the unemployment rate in Harrison County was 2.6 percent. In the same year, 1,593 residents of Cadiz Township were employed and the township had a 2.1 percent unemployment rate (U.S. Bureau of Census, 2008).

3.24 ENVIRONMENTAL JUSTICE

EO 12898, Environmental Justice, was issued by the President on February 11, 1994. Objectives of the EO, as it pertains to this EA, include development of federal agency implementation strategies and identification of low-income and minority populations potentially affected because of proposed federal actions.

Accompanying EO 12898 was a Presidential Transmittal Memorandum referencing existing federal statutes and regulations to be used in conjunction with EO 12898. One of the items in this memorandum was the use of the policies and procedures of NEPA. Specifically, the memorandum indicates that,

“Each Federal agency shall analyze the environmental effects, including human health, economic and social effects, of federal actions, including effects on minority communities and low-income communities, when such analysis is required by the NEPA 42 U.S.C. section 4321 et. seq.”

In addition to environmental justice issues are concerns pursuant to EO 13045, Protection of Children from Environmental Health Risks and Safety Risks. This EO directs federal agencies to identify and assess environmental health and safety risks that may disproportionately affect children.

Although an environmental justice analysis is not mandated by NEPA, DOD has directed that NEPA will be used as the primary mechanism to implement the provision of the EOs.

The Community of Comparison for the environmental justice analysis is defined as Harrison County focusing on the area where potential environmental effects may occur due to the proposed lease of the Cadiz Drop Zone.

Demographic Analysis. Although EO 12898 provides no guidelines for determination of concentrations of low-income or minority populations, the demographic analysis provides information on the approximate locations of minority and low-income populations in the area.
potentially affected by the proposed federal action. Potential environmental impacts from the proposed action and alternatives would primarily occur within the boundary of the proposed lease property and nearby neighborhoods. The community of comparison is compared with State and national statistics to determine disproportionate levels of low-income or minority populations.

Demographic information from the U.S. Bureau of the Census was used to extract data on minority, low-income, and child populations within the area. The census reports both ethnicity and household income status. Minority populations included in the census are identified as Black or African American, American Indian and Alaska Native, Asian, Native Hawaiian and other Pacific Islander, or some other race. Information on minority populations based on the 2000 U.S. Census is presented in Table 3.24-1.

<p>| Table 3.24-1. Percent Minority, Low-Income, and Persons Under 18 Years of Age Populations |</p>
<table>
<thead>
<tr>
<th>Population</th>
<th>Percent Minority</th>
<th>Disproportionately High</th>
<th>Percent of Population Below Poverty Level</th>
<th>Disproportionately High</th>
<th>Percent Under Age 18</th>
<th>Disproportionately High</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>24.9</td>
<td>--</td>
<td>9.2</td>
<td>--</td>
<td>25.7</td>
<td>--</td>
</tr>
<tr>
<td>Ohio</td>
<td>11,353,140</td>
<td>15.9</td>
<td>--</td>
<td>11.7</td>
<td>--</td>
<td>24.1</td>
</tr>
<tr>
<td>Harrison County</td>
<td>15,856</td>
<td>3.6</td>
<td>--</td>
<td>13.0</td>
<td>Yes</td>
<td>21.5</td>
</tr>
</tbody>
</table>

Note:  
1 Based on data collected in 2006.  

U.S. Census Bureau poverty status is used in this EA to define low-income status. Poverty status is reported for families with income below poverty level (defined in the 2000 census as $16,895 for a family of four with two children under 18 years in 1999). Harrison County has a disproportionately high percentage of the population living below the poverty level.

Youth populations, for consideration of EO 13045, are defined as persons under the age of 18. Harrison County does not have a disproportionately high percentage of youth population.
3.25 RECREATIONAL AND VISUAL RESOURCES

The Cadiz Drop Zone and adjacent areas are not currently used for recreation. The site is on private property that is leased for cattle grazing and is not accessible to the public for recreation. No recreation areas are located near the property. Sally Buffalo Park, which is used for picnicking, hiking, swimming, fishing, and camping, and contains rental cabins, is located approximately 3 miles to the northeast.

Views from the property generally consist of flat to rolling open grassland areas on the former strip mine and adjacent wooded and hilly areas. No public roads are adjacent to the property and it is not generally visible from viewpoints accessible to the public.

3.26 TRANSPORTATION

Roads in the vicinity of the property include U.S. Route 22 to the north and west and State Route (SR) 9 to the east (see Figure 1.2-2). Both of these roads travel through the Village of Cadiz to the north of the property. The property can only be reached from SR 9 via Cadiz Township Road 38 which provides access to the Harrison County Airport. Beyond the airport, the road becomes unpaved. This road, identified as Busby Road on maps, is a private road with a locked gate that denies access to the public.
4.0 ENVIRONMENTAL IMPACTS

4.1 LAND USE

4.1.1 Proposed Action

Under the Proposed Action, the current use of the property for cattle grazing would continue. The Proposed Action would not result in any new structures, fences, or roads on the property. The AFR would not conduct any activities (e.g., excavate soil) that could affect the property’s status as a reclaimed strip mine. The Cadiz Drop Zone is not subject to zoning, a general plan, or a local land use designation, so its use as a drop zone would not conflict with any local land use plans or policies. There would be no significant impacts to land use.

4.1.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the Air Force Reserves. There would be no change to the current land use on the property; therefore, there would be no impacts to land use.

4.2 AIRSPACE MANAGEMENT

4.2.1 Proposed Action

Air drops would be conducted as part of low-level training flights. The proposed drop zone is in an area currently used by the 911 AW for low level training flights.

Aircraft approach to the drop zone would be limited to along a generally northwesterly–southeasterly orientation between 090° and 170° and between 300° and 360° (see Figure 2.1-2). No fly zones for approach would be established in all other directions in order to avoid overflight of the Harrison County Airport, located approximately 2 miles northeast of the proposed drop zone. All aircraft would exit the drop zone at a direction away from the airport, between 135° and 315°. Adherence to these approach and exit restrictions would avoid potential conflicts with aircraft using the Harrison County Airport. In addition, the 911 AW has already contacted the airport managers regarding the potential establishment of the Cadiz Drop Zone.

The AFR would coordinate with the FAA flight service station to issue a local NOTAM when drops are scheduled. Airdrop information would be sent to the airport managers for posting in the NOTAM. Inbound aircraft crews would announce airdrop time and location on Unicom frequency 122.8. Air drops would only be conducted when there is visual confirmation that no aircraft are present in the drop zone area.
The 911 AW flight safety would revise their existing MACA plan to include activities at the new drop zone. The MACA includes placing a radio call into the local airport to clear local traffic as the aircraft approach the drop zone. For these reasons, no significant impacts to airspace management are expected.

### 4.2.2 No-Action Alternative

Under the No-Action Alternative, no air drop activities would be conducted at this site. The 911 AW would continue to conduct air drop activities at the existing Starvaggi Drop Zone. There would be no change to airspace usage; therefore, there would be no impacts to airspace management.

### 4.3 NOISE

#### 4.3.1 Proposed Action

As aircraft noise effects on sensitive land uses is considered using the metric of DNL, the criterion for determining potential aircraft noise impacts is based on the FAA’s guidance that if outdoor DNL is above 65 dBA, residential land uses are normally considered not compatible. The extent of land areas and populations exposed to DNL of 65 dBA and higher provides a way of assessing the noise impacts of alternative aircraft actions.

An aircraft noise modeling study was conducted as part of the environmental assessment for the training operations conducted by the 911 AW at the Pittsburgh IAP ARS (Pittsburgh International Airport, Air Reserve Station, December 2000). In the study, the 911 AW C-130 aircraft noise conditions were predicted around the Starvaggi Drop Zone, as well as along various training routes to and from the Starvaggi Drop Zone.

The DOD’s aircraft noise model applicable for airspace and range flight operations, MR_NMAP, was used to predict the centerline DNL noise levels along each flight training routes including those in the vicinity of the Starvaggi Drop Zone. The model considered:

- Annual utilization of the training routes
- Aircraft type
- Flight path
- Variation of altitude and power settings
- The number of sorties and hours of flight operations

The MR_NMAP-predicted highest centerline DNLs ranged from 26 to 36 dBA along various training routes. The maximum cumulative DNL of 43 dBA was predicted at the Starvaggi Drop Zone.
Drop Zone where several training routes intersect. This is well below the 65 dBA DNL. In addition, no noise complaints regarding current airdrop activities at the Starvaggi Drop Zone have been received (Earth Tech, Inc., 2008).

Under the Proposed Action, the aircraft type and flight durations at the Cadiz Drop Zone would be the same as were analyzed for the Starvaggi Drop Zone in the 2000 EA, although the annual maximum possible sortie operations at Cadiz Drop Zone would be higher than the amount analyzed for the Starvaggi Drop Zone. However, because of cancellation of air drop missions due to weather conditions or aircraft maintenance or because of reduced training due to deployments, actual annual drop zone activity at the Cadiz Drop Zone would be less and would likely be similar to the number analyzed for Starvaggi Drop Zone.

According to the fundamental acoustical principle, doubling or halving the operations from the same aircraft types under the same flight conditions would result in only a 3-dBA change in the noise condition. This would be barely perceptible. The difference in aircraft operational condition associated with the implementation of the Proposed Action would unlikely result in a 3-dBA increase to the overall noise condition predicted for the Starvaggi Drop Zone. Therefore, the highest DNL levels around the new Cadiz Drop Zone would essentially remain the same as compared those levels predicted for existing 911 AW training operations at the Starvaggi Drop Zone and would likely be below 45 dBA. Since these levels would be well below the 65 dBA, above which noise sensitive land uses would normally be of concern, the Proposed Action would not result in a significant noise impact.

4.3.2 No-Action Alternative

Under the No-Action Alternative, no airdrop activities would be conducted at the proposed Cadiz Drop Zone. The 911 AW would continue to conduct air drop activities at the existing Starvaggi Drop Zone. There would be no changes to noise levels; therefore, there would be no impacts from noise.

4.4 AIR QUALITY

4.4.1 Proposed Action

Potential impacts to air quality from the Proposed Action include fugitive dust associated with vehicle travel on unpaved roads to and on the property and engine air emissions from ground vehicles and from aircraft overflights of the drop zone area.

Vehicle engine air emissions and fugitive dust generated by vehicles traveling to and from and on the site would be expected to be minimal. An average of 2 vehicles (pick up trucks) would travel to and from the site 3 times a day 2-3 times a week for material recovery efforts.
Two to three times a month, a flatbed truck would be driven to and from the site in addition to the 2 pick up trucks. These vehicles are currently driven between the Pittsburgh IAP ARS and the Starvaggi Drop Zone at a similar rate to what they would be driven between the ARS and the proposed Cadiz Drop Zone. The round trip drive to the proposed Cadiz Drop Zone is approximately 3 times farther than to the Starvaggi Drop Zone. Because of the longer driving time, overall air emissions from ground vehicle usage would increase. However, because of the small number of vehicles involved, air emissions would still be expected to be minimal. Fugitive dust emissions from vehicle travel on unpaved road to and on the property would be of short duration and would also be limited during periods of wet and/or frozen ground conditions.

Aircraft air emissions relevant to the Proposed Action are those emitted during aircraft approach, overflight, and departure of the drop zone area. These are shown in Table 4.4-1. Aircraft operations during the training flight conducted prior to and after air drops are considered part of the ongoing aircraft training flights that are conducted in the area. These were analyzed in the EA prepared for training operations conducted by the 911 AW (Headquarters Air Force Reserve Command, 2000). That EA concluded that no significant air quality impacts would occur from these activities.

<table>
<thead>
<tr>
<th>Criteria Pollutant</th>
<th>CO</th>
<th>VOC</th>
<th>NO\textsubscript{x}</th>
<th>SO\textsubscript{x}</th>
<th>PM\textsubscript{10}</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Annual Emissions</td>
<td>1.55</td>
<td>0.40</td>
<td>9.13</td>
<td>0.43</td>
<td>1.37</td>
</tr>
<tr>
<td>De Minimis Thresholds\textsuperscript{1}</td>
<td>100</td>
<td>100\textsuperscript{2}</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

Notes:
1. For maintenance areas.
2. Threshold for VOCs in an ozone maintenance area inside an ozone transport region is 50 tpy.

The air emissions calculations are based on the maximum number of sortie-operations that could occur in a year. This assumes 3 training drop test days per week and 3 actual load drop test days per month. Each time an aircraft passes over the drop zone during a training drop counts as a sortie-operation. The analysis is based on 2 aircraft per mission with 2 passes by each aircraft per mission and 3 missions during each test day. Actual annual drop zone activity, and therefore air emissions, would likely be less because of cancellation of air drop operations.
missions due to weather conditions or aircraft maintenance or because of reduced training due to deployments. Air emissions calculations are provided in Appendix I.

The U.S. EPA published final rules on general conformity (40 CFR Parts 51 and 93 in the Federal Register on November 30, 1993) that apply to federal actions in areas designated nonattainment and maintenance for any of the criteria pollutants under the CAA. The rules specify *de minimis* emission levels by pollutant to determine the applicability of conformity requirements for a project. Although de minimis levels are not applicable to this project because Harrison County is an attainment area for all the NAAQS, de minimis threshold for maintenance areas are presented in Table 4.4-1 to provide a point of comparison for estimated emissions from the Proposed Action. Based on the amount of annual air emissions estimated for the Proposed Action, no significant impacts to air quality would occur.

**Greenhouse Gas Emissions.**

Because air drop activities at the Cadiz Drop Zone would be conducted as part of ongoing C-130 flight training, there would be no significant change in flying hours. Therefore there would be no significant change in greenhouse gas emissions from aircraft under the Proposed Action. Ground vehicle use associated with material recovery would increase from current conditions because of the farther driving distance from Pittsburgh IAP ARS to the proposed Cadiz Drop Zone than to the existing Starvaggi Drop Zone. Therefore, greenhouse gas emissions from ground vehicle use could increase; however, because of the small number of vehicles involved, the overall increase in emissions would be small.

4.4.2 No-Action Alternative

Under the No-Action Alternative, no air drop activities would be conducted at the Cadiz Drop Zone. The 911 AW would continue to conduct air drop activities at the existing Starvaggi Drop Zone. There would be no change to air emissions; therefore, there would be no impacts to air quality.

4.5 SAFETY AND OCCUPATIONAL HEALTH

4.5.1 Proposed Action

Dropping items from aircraft presents a potential hazard if people are present in the area where the airdrop is occurring. The proposed drop zone location is not accessible to the general public. Prior to each drop, a drop zone safety officer would be present at the site to verify that no persons are present on the drop zone. The safety officer would be in radio contact with the pilots and drops could be aborted as needed in the unlikely event persons are present and do not leave the area. Prior to actual load drops, cattle would also be excluded.
from the drop zone area. Cattle would not need to be excluded from the drop zone during training bundle drops because training bundles are not expected to cause injury in the event that they impact a cow. Training bundles weigh 15 pounds and are attached to a 68-inch parachute. They would fall too slowly to present a hazard to any cattle in the drop zone. The 911 AW flight safety would revise their existing MACA plan to include activities at the new drop zone. No significant impacts to safety and occupational health would be expected.

4.5.2 No-Action Alternative

Under the No-Action Alternative, there would be no change to current conditions. No air drops would be conducted at the proposed Cadiz Drop Zone. No significant impacts to safety and health would occur. The 911 AW would continue to conduct air drops at the Starvaggi Drop Zone. Because of the more rugged topography and presence of large trees at the Starvaggi Drop Zone, material recovery is more difficult than it would be at the Cadiz site; therefore, continued use of the Starvaggi site presents a slightly greater potential for injury to a member of a material recovery crew.

4.6 HAZARDOUS MATERIALS AND HAZARDOUS WASTE

4.6.1 Proposed Action

Under the Proposed Action, small quantities of hazardous materials and petroleum products, such as fuel, oil, lubricants, and antifreeze, would be used on the property in the vehicles used as for material recovery activities. No hazardous material or petroleum products would be stored and no hazardous wastes or petroleum wastes would be generated on the property. The AFR would be responsible for following applicable regulations and procedures for the proper management of these materials. No other use of hazardous material or petroleum products would occur on the property as a result of airdrop training activities. Therefore, under the Proposed Action there would be no significant impacts from hazardous materials and hazardous waste.

4.6.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the AFR for airdrop activities. There would be no change to the current hazardous materials and waste use on the property; therefore, there would be no impacts from hazardous materials or hazardous waste.
4.7 EARTH RESOURCES

4.7.1 Proposed Action

The Proposed Action would not entail any activities that could affect earth resources. No construction, excavation, or other ground disturbing activities would be conducted. The property is on a reclaimed strip mine from which economically recoverable coal has been removed. The Proposed Action does not entail any activity or change in land use that could affect the soil or future access to any mineral resources. No significant impacts to earth resources would be expected.

4.7.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the Air Force Reserves. There would be no change to activities on the property; therefore, there would be no impacts to earth resources.

4.8 WATER RESOURCES

4.8.1 Proposed Action

The Proposed Action would not entail any activities that could affect water resources. No ground disturbing activities that could result in sediment in water bodies from soil erosion would be conducted. There is the potential for a stray load to drop into one of the ponds on the property. Because recovery of material from a water body is more difficult than from on land, this is something the 911 AW would seek to avoid. An occasional load dropping into a pond and subsequent recovery activity would not be expected to have a significant impact to the artificial water bodies on the property. The stream in the southern corner of the property is well outside the expected impact area and would not be affected by routine air drop activities.

4.8.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the Air Force Reserves. There would be no change to activities on the property; therefore, there would be no impacts to water resources.
4.9 BIOLOGICAL RESOURCES

4.9.1 Proposed Action

Impacts to vegetation within the drop zone as a result of the Proposed Action would be minimal. Some vegetation loss within the grassland/pasture area is expected during the training exercise. Support vehicles used in setting up the drop zone target and retrieving the dropped materials would use existing roads where possible, but some off-road travel could be required. Off-road travel could crush/smother individual plant species. No significant modification of the drop zone, such as grading, access roads, clearing vegetation or constructing facilities would be required to establish the drop zone. Current grazing activities would continue to control vegetation height within the drop zone. However, if deemed necessary, some mowing may be required to concurrently control vegetation height. Vegetation species found within the drop zone are common and widespread within the regional area and the described impacts to this vegetation community would be considered less than significant.

Potential effects on wildlife or domestic animals are a function of associated noise produced by aircraft operations. As a result, common wildlife species occupying the drop zone could be temporarily startled and displaced during the drop zone operations. Species such as the white-tailed deer and various bird species would more than likely disperse during drop zone operations, but are expected to quickly return to the drop zone area once the exercise has ceased. Impacts to wildlife species and domestic animals as a result of drop zone operations are temporary, and are considered less than significant.

Wetlands

Wetlands can be affected by direct or indirect impacts. Direct impacts can result when wetlands are filled, dredged, or flooded. Indirect impacts can occur from disturbance to the aquatic habitat or adjacent lands, causing chemical/sedimentary runoff that can result in water degradation.

There are no direct impacts expected to the aquatic habitats present on-site. To the extent possible, the aquatic sites within the proposed impact areas will be avoided; however, it is possible the dropped materials would need to be occasionally retrieved from these sites. During the VRS of the drop zone, it was noted that the aquatic sites present were heavily trampled by and used as water source for the grazing cattle. The occasional retrieval of dropped materials could cause temporary increased sedimentation with the water column, ultimately affecting the water quality; however, the water quality would be expected to return to pre-exercise conditions shortly after the drop-zone operations have ceased. No significant adverse impacts to the aquatic habitats within the impact area are expected.
The small stream located within the woodland area in the southern corner of the property is well outside the expected impact area. There are no impacts anticipated to in this area.

**Protected Species**

Although potential for the Indiana bat exists within Harrison County, the information gathered from the Ohio DNR supports that the Indiana bat is not found within the regional area containing the proposed drop zone (see Appendix J). Therefore, impacts to the Indiana bat are not anticipated as a result of proposed project activities. Both USFWS and Ohio DNR have concurred that the proposed project is not likely to impact this species.

Because the project entails no construction activities, Ohio DNR has indicated that it is unlikely that there would be impacts to bald eagles. Ohio DNR has also indicated that the proposed project is not likely to have an impact on state listed black bears and bobcats due to the mobility of these species.

**4.9.2 No-Action Alternative**

Under the No-Action Alternative, the property would not be leased to the Air Force Reserves. There would be no change to activities on the property; therefore, there would be no impacts to biological resources.

**4.10 CULTURAL RESOURCES**

**4.10.1 Proposed Action**

Impacts to cultural resources within the Cadiz Drop Zone as a result of the Proposed Action would be negligible. Activities associated with the Proposed Action occur almost exclusively on the mined portion of the property. Access to the property will occur on existing roads. No cultural resources are present in these areas. No significant modification of the drop zone, such as grading new access roads, clearing vegetation, or constructing facilities would be required to establish the drop zone. The activities associated with the Proposed Action are expected to occur mainly in the central portion of the property. The only known cultural resource on the Cadiz Drop Zone, the Barricklow Farm, is not located near the center of the property; it is located in the southeastern portion of the drop zone along the wooded area. Therefore, it will not likely be impacted by training activities. Impacts to cultural resources as a result of drop zone operations are considered less than significant. The Ohio SHPO has concurred that the proposed action would not affect properties listed on or eligible for listing on the National Register (see Appendix J).
4.10.2 No-Action Alternative

Under the No-Action Alternative, the property would not be leased to the Air Force Reserves. There would be no change to activities on the property; therefore, there would be no impacts to cultural resources.

4.11 SOCIOECONOMICS

4.11.1 Proposed Action

The Proposed Action would not result in any changes in employment or population. Persons involved in air drop activities would be existing personnel at Pittsburgh IAP ARS. Economic impacts of the establishment of the Cadiz Drop Zone would be negligible. Material recovery crews could purchase some items, such as fuel and food, in the local area on their way to or from the drop zone. The 911 AW would lease the Property from CONSOL Energy. The lease on privately owned property would not result in changes in revenue to local communities. No significant impacts to socioeconomics would be expected.

4.11.2 No-Action Alternative

Under the No-Action Alternative, the 911 AW would not establish a drop zone and conduct air drop activities at Cadiz. There would be no changes to AFR activities in the area; therefore, there would be no impacts to socioeconomics.

4.12 ENVIRONMENTAL JUSTICE

4.12.1 Proposed Action

Under the Proposed Action there would be no significant impacts to resources; therefore, there would not be any adverse effects to disproportionately high minority, low-income, or youth populations in Harrison County, Ohio. No significant environmental justice impacts would occur.

4.12.2 No-Action Alternative

Under the No-Action Alternative, there would be no change to environmental conditions in Harrison County, Ohio, due to establishment and operation of the Cadiz Drop Zone; therefore, there would be no impacts to minority, low-income, or youth populations. No significant environmental justice impacts would occur.
4.13 RECREATION AND VISUAL RESOURCES

4.13.1 Proposed Action

The proposed drop zone site is not currently used for recreation nor is it accessible to the public for recreational uses. Under the proposed action, there would be no change to area’s use or accessibility. There would be no impact to recreation at the nearby Sally Buffalo Park. The use of the site as a drop zone would not result in any visual changes to the property. The Proposed Action would not have a significant impact to recreation and visual resources.

4.13.2 No-Action Alternative

Under the No-Action Alternative, there would be no changes in use and current condition of the property. These would be no impacts to recreation or visual resources.

4.14 TRANSPORTATION

4.14.1 Proposed Action

Routine drop zone activities would entail use of a small number of vehicles driven between Pittsburgh IAP ARS and the proposed Cadiz Drop Zone. Generally 2 pick up trucks would be driven to and from the site up to 3 times a day on each training bundle drop training day. In addition, up to 3 times a month a flatbed truck, in addition to the 2 pick up trucks, would be driven to and from the site up to 3 times a day. This amount of traffic would have no significant impact to traffic on the roads that access the site.

During a paratrooper drop event, a military convoy would be used to transport the paratroopers from the drop zone. An infrequent military convey, estimated at approximately once every two years, would not be expected to have a significant impact to traffic.

4.14.2 No-Action Alternative

Under the No-Action Alternative, there would be no changes in ground vehicle use due to the operation of the Cadiz Drop Zone. There would be no impacts to transportation.

4.15 OTHER

No other resources that have a potential to be affected by implementation of the Proposed Action or No-Action Alternative have been identified.
5.0 FINDINGS FOR ADJACENT PROPERTIES

5.1 LAND USES WITHIN ¼ MILE OF PROPERTY

Land uses adjacent to the Cadiz Drop Zone are the same as on the property. Within ¼ mile of the property land uses consist of reclaimed strip mined areas covered with grassland vegetation and used for cattle grazing. There are wooded areas to the south and west that were apparently not mined. No buildings or other structures are present.

5.2 POTENTIAL ENVIRONMENTAL CONCERNS WITHIN ¼ MILE OF PROPERTY

No potential environmental concerns have been identified within ¼ mile of the property.
6.0 CUMULATIVE EFFECTS OF THE ACTION

6.1 DEFINITION OF CUMULATIVE EFFECTS

Cumulative impacts result from “the incremental impact of actions when added to other past, present, and reasonably foreseeable future actions, regardless of what agency undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time” (Council on Environmental Quality, 1978).

6.2 PAST, PRESENT, AND REASONABLY FORESEEABLE ACTIONS

Other future actions in the region were evaluated to determine whether cumulative environmental impacts could result due to the implementation of Proposed Action in conjunction with other past, present, or reasonably foreseeable future actions.

Other actions that occur in the region that could contribute to cumulative impacts include the Air Force Reserve’s continued flight training using C-130 aircraft and strip mining activity. The proposed Cadiz Drop Zone is in an area currently used for LATN by the 911 AW. The LATN areas used by the 911 AW cover approximately 70,000 square nautical miles and flight activities within these areas are widely dispersed and do not frequently pass near the same ground point (Headquarters, Air Force Reserve Command, 2000). An active strip mine is located approximately 3,000 feet to the east of the property.

No other actions with the potential to result in cumulative impacts with the Proposed Action have been identified.

6.3 CUMULATIVE EFFECTS ANALYSIS

Because of the widely dispersed nature of LATN training, this activity is not anticipated to result in cumulative impacts when added to potential impacts from the Proposed Action.

Impacts from strip mining in the area could present potential cumulative impacts with the Proposed Action to resources such as air quality and noise. Air emissions from strip mining could include fugitive dust and mining equipment engine exhaust. Air emissions from the Proposed Action would be minimal and not expected to be significant when added to other sources in the drop zone area. During the VRS of the property, no noise from the active strip mine was audible on the property; therefore, it is unlikely that noise from strip mining activities would add to the noise levels generated by aircraft conducting airdrop activities in the area. No significant cumulative impacts are expected.
7.0  APPLICABLE REGULATORY COMPLIANCE ISSUES

7.1  COMPLIANCE ISSUES

No compliance issues have been identified based on the findings of the EA/EBS.

7.2  DESCRIPTION OF CORRECTIVE ACTIONS TAKEN OR IN PROGRESS

The Cadiz Drop Zone is situated on a reclaimed strip mine. This mine site has been released from its final bond. No other corrective actions have been taken or are in progress for the property.
8.0 CONCLUSIONS REGARDING SUITABILITY TO PROCEED
WITH THE REAL ESTATE TRANSACTION

8.1 FACILITY MATRIX

There are no facilities present on the property.

8.2 PROPERTY CATEGORIES

As discussed in Section 1.3, environmental factors were used in property categorization. Each occurrence of each factor was first categorized individually based on its past or present potential for environmental concern. The categories for all factors present at each location were then integrated to determine the overall property category. The highest category within an individual property determines the overall category for that property.

Disclosure factors were not considered in property categorization. These factors are not considered to be hazardous when properly managed and in good condition. Their presence and any required protective actions may be identified and addressed in other documents.

Based on the findings of this EA/EBS presented in Chapter 3.0, the property was classified into one of the following categories:

- **Category 1** - Areas where no release or disposal of hazardous or petroleum substances has occurred (including no migration of these substances from adjacent areas)
- **Category 2** - Areas where only release or disposal of petroleum substances has occurred
- **Category 3** - Areas where release, disposal, and/or migration of hazardous substances has occurred, but at concentrations that do not require removal or remedial response
- **Category 4** - Areas where release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions have been taken
- **Category 5** - Areas where release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions are underway, but have not yet been completed
- **Category 6** - Areas where release, disposal, and/or migration of hazardous substances has occurred, but remedial actions have not been implemented
- **Category 7** - Areas that are not evaluated or require additional evaluation.
Pursuant to U.S. EPA guidance, this document identifies property as uncontaminated even if some limited quantity of hazardous or petroleum substances was released or disposed of in cases where the available information indicates that such release or disposal poses no threat to human health or the environment. Examples, as provided in the U.S. EPA guidance, include: usage of common household chemicals and storage of heating fuel in housing areas, incidental releases of petroleum products on roadways and parking lots, and the routine licensed application of pesticides (U.S. Environmental Protection Agency, 1994).

The property is considered Category 1.

### 8.3 Natural Resources Issues

Natural resource issues that could affect the property include wetlands, protected species, and archaeological/historic sites.

#### 8.3.1 Wetlands

Two ponds and three separate areas supporting wetland vegetation are present on the property; however, these potential wetland areas have not been delineated. The proposed air drop activities, as described in this document, are not anticipated to have an adverse affect to these areas and the presence of potential wetlands should not pose a concern to lease and use of the property as a drop zone.

#### 8.3.2 Protected Species

Only one federally listed species, the Indiana bat has the potential to occur in Harrison County. Although there are no records of the bat occurring near the property there is still a potential for the species to occur in the area. Proposed drop zone activities are not expected to adversely affect the bat. In addition, no impacts to state listed black bears, bobcats, or bald eagles are expected.

#### 8.3.3 Archaeological/Historic Sites

The only known cultural resource on the property is the Barricklow Farm. Because the site is located near the drop zone boundary, it is not in an area that would be expected to be affected by drop zone activities. No significant impacts to the Barricklow Farm are expected.

### 8.4 Data Gaps

No data gaps that would be expected to affect the findings of this EA/EBS have been identified.
9.0 RECOMMENDATIONS REGARDING PROCEEDING WITH THE REAL ESTATE TRANSACTION

Based on the findings of this EA/EBS, no environmental issues with regard to leasing the property have been identified.
10.0 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

Irreversible and irretrievable resource commitment refers to the use of nonrenewable resources and the effects these resources would have on future generations. Irreversible effects would result primarily from the consumption or destruction of a resource that could not be reversed. Irretrievable resource commitments would involve a loss or gain in the value of an affected resource that could not be reversed. The Proposed Action and No-Action Alternative would both entail use of some nonrenewable resources, most notably fuel used in aircraft and ground vehicle operations. Implementation of the Proposed Action and No-Action Alternative would not result in a significant irreversible or irretrievable commitment of resources.
APPENDIX A

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Federal Aviation Administration, 2008. 
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Section 2 - Policy


http://www.usfws.gov
APPENDIX B

TERMS
APPENDIX B

GLOSSARY OF TERMS

Adjacent Properties. Properties within 1/4 mile of the subject property, and properties within 1 mile of the subject property that exhibit potential environmental concerns.

Airspace. Airspace is a finite resource that can be defined vertically, horizontally, and temporally, when describing its use for aviation purposes. The Federal Aviation Administration (FAA) manages commercial and general aviation activity within the airspace, and the military manages military aviation activity with FAA oversight.

Asbestos. Six naturally occurring fibrous minerals found in certain types of rock formations. Of the six, the minerals chrysotile, amosite, and crocidolite have been most commonly used in building products. When mined and processed, asbestos is typically separated into very thin fibers. Because asbestos is strong, incombustible, and corrosion-resistant, it was used in many commercial products beginning early in the twentieth century, and peaking in the period from World War II into the 1970s. When inhaled in sufficient quantities, asbestos fibers can cause serious health problems.

Attainment. An area where the level of a pollutant is below the NAAQS. An area is deemed in attainment by the U.S. EPA when the air quality is monitored and the resultant concentrations are found to be consistently below the NAAQS.

Class 1. Class 1 federal lands include areas such as national parks, national wilderness areas, and national monuments. These areas are granted special air quality protections under Section 162(a) of the federal Clean Air Act.

Contaminants. Undesirable substances rendering something unfit for use.

Contamination. The degradation of naturally occurring water, air, or soil quality, either directly or indirectly, as a result of human activities.

Cultural Resources. Prehistoric or historic archaeological sites, buildings, structures, districts, artifacts, or other physical evidence of human activity.

Discharge. Release of groundwater in to springs or wells, through evapotranspiration, or as outflow. Also a release of a liquid into a waterbody or a gas into the air.

Endangered. An animal or plant species in danger of extinction throughout all or a significant portion of its range.
**Environmental Restoration Program (ERP).** The Air Force program designed to identify, characterize, and remediate environmental contamination on Air Force installations. Although widely accepted at the time, procedures followed prior to the mid-1970s for managing and disposing of many wastes often resulted in contamination of the environment. The program has established a process to evaluate past disposal sites, control the migration of contaminants, and control potential hazards to human health and the environment. Section 211 of the Superfund Reauthorization and Amendment Act (SARA), codified as the Defense Environmental Restoration Program (DERP), of which the Air Force ERP is a subset, ensures that the Department of Defense (DOD) has the authority to conduct its own environmental restoration programs. DOD coordinates ERP activities with the U.S. EPA and appropriate state agencies.

**Groundwater.** Water that occurs beneath the water table in soil and geologic formations that are fully saturated.

**Hazardous material.** Generally, a substance or mixture of substances that has the capability of either causing or significantly contributing to an increase in mortality or an increase in serious irreversible or incapacitating reversible illness; or posing a substantial present or potential risk to human health or the environment. Use of these materials is regulated by the Department of Transportation, Occupational Safety and Health Administration (OSHA), and the U.S. EPA.

**Hazardous substances.** “Hazardous substances” is a broad classification and includes hazardous materials, hazardous chemicals, hazardous wastes, and petroleum products. Several different federal and state rules individually regulate the storage of these hazardous substances.

**Hazardous waste (federal definition under Resource Conservation and Recovery Act [RCRA], 42 U.S. Code [U.S.C.] Section 6903).** RCRA defines hazardous waste as "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics, may pose a hazard to human health or the environment" (RCRA, Section 1004[5]). The U.S. EPA has listed several wastes that are known to be hazardous. A waste can also be classified as a characteristic hazardous waste if it exhibits one or more of the four hazardous waste characteristics described in Subpart C: ignitability, corrosivity, reactivity, or toxicity.

**Lead.** A heavy metal used in many industries that can accumulate in the body and cause a variety of negative effects.
**Migration.** The movement of substances from adjacent areas to the subject property, versus the ERP definition, which is the movement of substances from the subject property to an adjacent area.

**National Ambient Air Quality Standards (NAAQS).** The NAAQS are established by the U. S. EPA for pollutants considered harmful to public health and the environment. The NAAQS are for six principal pollutants, which are called "criteria" pollutants. These are: carbon monoxide, lead, nitrogen dioxide, particulate matter equal to or less than 10 microns in diameter, particulate matter equal to or less than 2.5 microns in diameter, ozone, and sulfur dioxide.

**National Priorities List.** The list compiled by the U.S. EPA pursuant to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C., Section 9605[a][8][B]) of properties with the highest priority for cleanup pursuant to U.S. EPA's Hazard Ranking System.

**Nonattainment.** An area designated by U.S. EPA where an air pollutant exceeds the NAAQS.

**Pesticides.** Any substance, organic or inorganic, used to destroy or inhibit the action of plant or animal pests; the term thus includes insecticides, herbicides, fungicides, rodenticides, miticides, fumigants, and repellents. All pesticides are toxic to humans some degree. Pesticides vary in biodegradability.

**Petroleum Products.** Fuels, lubricants, hydraulic fluids, and solvents that are predominant petroleum based. They do not include oil-based paints, pesticides, synthetic solvents or other petroleum products containing hazardous substances which are added after the petroleum refining process.

**Petroleum Substance.** Petroleum products and petroleum wastes.

**Petroleum Wastes.** Refuse generated through the use of petroleum products. Petroleum wastes qualifying for the petroleum exclusion are unadulterated petroleum wastes. Petroleum wastes contaminated by hazardous substances are treated as hazardous wastes.

**Polychlorinated biphenyls (PCBs).** Any of a family of industrial compounds produced by chlorination of biphenyls. These compounds accumulate in organisms and concentrate in the food chain with resultant pathogenic and teratogenic effects. They also decompose very slowly.
**Release.** Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant), but excludes (a) any release that results in exposure to persons solely within a workplace, with respect to a claim that such persons may assert against the employer of such persons; (b) emissions from the engine exhaust of a motor vehicle, rolling stock, aircraft, vessel, or pipeline pumping station engine; (c) release of source, by-product, or special nuclear material from a nuclear incident, as those terms are defined in the Atomic Energy Act of 1954, if such release is subject to requirements with respect to financial protection established by the Nuclear Regulatory Commission under Section 170 of such Act, or, for the purposes of Section 104 of this title or any other response action, any release of source by-product, or special nuclear material from any processing site designated under Section 102(a)(1) or 302(a) of the Uranium Mill Tailings Radiation Control Act of 1978, and (d) the normal application of fertilizer.

**Transfer.** Permits to other government agencies, donations, land exchanges, transfers of federal government property accountability, easements, leases, or licenses.

**Uncontaminated Property.** Property on which no hazardous substances and no petroleum products or their derivatives were known to have been released or disposed of.

**Underground storage tank (UST).** Any tank, including underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products, and the volume of which is 10 percent or more beneath the surface of the ground.

**U.S. Environmental Protection Agency (EPA).** The independent federal agency, established in 1970, that regulates environmental matters and oversees the implementation of environmental laws.

**Visual Reconnaissance Survey.** A cursory physical conducted by walking around or through an area.

**Visual Site Inspection.** An exterior and interior (walk through) inspection of a structure.
APPENDIX C

LIST OF PREPARERS
APPENDIX C

LIST OF PREPARERS

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APPENDIX D

PERSONS AND AGENCIES CONTACTED
APPENDIX D

PERSONS CONTACTED

The following individuals were interviewed, by phone, email, or in person, during the preparation of this EA/EBS and provided information used in developing the findings of the report.

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Lt Col Aldo Filoni 911 OSF/OSTX
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Additional information was provided by people and agencies that were contacted during regulatory consultation and Interagency and Intergovernmental Coordination for Environmental Planning. Copies of correspondence from these agencies can be found in Appendixes J and K.
APPENDIX E
MAPS AND AERIAL PHOTOGRAPHS
# APPENDIX E

## TABLE E-1. AERIAL PHOTOGRAPH, COMPOSITE HISTORICAL TIMETABLE

### PROPOSED CADIZ DROP ZONE PROPERTY

<table>
<thead>
<tr>
<th>Year</th>
<th>Source</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1905</td>
<td>Topographic Map</td>
<td>Distinguishing landmarks identifying area on map as a reclaimed strip mine are undetectable. Based on this topographic map the proposed Cadiz Drop Zone property appears to be undeveloped open space with rolling hills and several small streams throughout the property running to the southwest and southeast and emptying into South Fork.</td>
</tr>
<tr>
<td>1961</td>
<td>Topographic Map</td>
<td>About 1/3 of the property appears to have been strip mined. There are still undeveloped portions and forested areas. Several small ponds appear on this topographic map, along with the power lines to the west of the property and access roads to the mines.</td>
</tr>
<tr>
<td>1976</td>
<td>Aerial Photograph</td>
<td>The property appears to have been completely disturbed in this aerial photograph. There are access roads to the mines and several ponds near the property.</td>
</tr>
<tr>
<td>1978</td>
<td>Topographic Map</td>
<td>In this map, the remainder of the property is labeled as having been strip mined. The shapes and locations of ponds shift slightly; however, no major changes to the topography have been made. There is no evidence of reclamation.</td>
</tr>
<tr>
<td>1982</td>
<td>Aerial Photograph</td>
<td>The property appears unchanged from the 1976 aerial photograph.</td>
</tr>
<tr>
<td>1994</td>
<td>Aerial Photograph</td>
<td>The property appears similar to the property in the 1982 aerial photograph. There is evidence that mining has been restarted.</td>
</tr>
<tr>
<td>1994</td>
<td>Topographic Map</td>
<td>The property appears to have been strip mined again. The present access roads appear on this map.</td>
</tr>
<tr>
<td>2005</td>
<td>Aerial Photograph</td>
<td>The property appears to have been reclaimed.</td>
</tr>
</tbody>
</table>
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E1: HISTORICAL TOPOGRAPHIC MAP REPORT
The EDR Historical Topographic Map Report

Cadiz Drop Zone
Busby Rd & Slater Rd
Cadiz, OH 43907

Inquiry Number: 2336628.4
October 09, 2008
EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

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E2: AERIAL PHOTO DECADE PACKAGE
Cadiz Drop Zone
Busby Rd & Slater Rd
Cadiz, OH 43907

Inquiry Number: 2336628.5
October 13, 2008
Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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**Date EDR Searched Historical Sources:**
Aerial Photography October 13, 2008

**Target Property:**
Busby Rd & Slater Rd
Cadiz, OH 43907

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APPENDIX F

SITE PHOTOGRAPHS
Photograph 1: Access road to the property, facing east.

Photograph 2: Facing northwest toward pond on eastern side of the property.
Photograph 3: View west across central portion of property from near east end.

Photograph 4: Facing north toward pond on western portion of the property.
Photograph 5: View from near west end of property of east pond in the valley containing the ponds.

Photograph 6: View east across the central portion of the property from near the west end.
Photograph 7: Typical vegetation on the central portion of the property.

Photograph 8: View west from central portion of property.
Photograph 9: Wet area near center of the property, facing south.

Photograph 10: Forested area on the western portion of the property, facing southwest.
Photograph 11: View of ridge to east of the property.

Photograph 12: Wetlands on the southern portion of the property, facing southeast.
Photograph 13: Forested area on the southern part of the property, facing southeast.

Photograph 14: Wetlands south of the forested area on the southern part of the property, facing southwest.
Photograph 15: An area of wetland vegetation on the southern portion of the property.

Photograph 16: Vegetation in the forested area on the southern part of the property.
G1: RECORDS SEARCH REPORT
Cadiz Drop Zone
Busby Rd & Slater Rd
Cadiz, OH 43907

Inquiry Number: 2336628.2s
October 08, 2008

The EDR Radius Map™ Report with GeoCheck®
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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TARGET PROPERTY INFORMATION

ADDRESS

BUSBY RD & SLATER RD
CADIZ, OH 43907

COORDINATES

Latitude (North): 40.229660 - 40°13’46.8”
Longitude (West): 81.050750 - 81°3’2.7”
Universal Tranverse Mercator: Zone 17
UTM X (Meters): 495682.4
UTM Y (Meters): 4453038.5
Elevation: 1102 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 40081-B1 FLUSHING, OH
Most Recent Revision: 1994

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR’s search of available (“reasonably ascertainable”) government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL________________________ National Priority List
Proposed NPL________________ Proposed National Priority List Sites
Delisted NPL______________ National Priority List Deletions
NPL LIENS_________________ Federal Superfund Liens
CERCLIS___________________ Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP______________ CERCLIS No Further Remedial Action Planned
LIENS 2__________________ CERCLA Lien Information
CORRACTS_______________ Corrective Action Report
RCRA-TSDF______________ RCRA - Transporters, Storage and Disposal
RCRA-LQG_______________ RCRA - Large Quantity Generators
EXECUTIVE SUMMARY

RCRA-SQG  RCRA - Small Quantity Generators
RCRA-CESQG RCRA - Conditionally Exempt Small Quantity Generator
RCRA-NonGen RCRA - Non Generators
US ENG CONTROLS Engineering Controls Sites List
US INST CONTROL Sites with Institutional Controls
ERNs Emergency Response Notification System
HMIRS Hazardous Materials Information Reporting System
DOT OPS Incident and Accident Data
US CDL Clandestine Drug Labs
US BROWNFIELDS A Listing of Brownfields Sites
DOD Department of Defense Sites
FUDS Formerly Used Defense Sites
LUCIS Land Use Control Information System
CONSENT Superfund (CERCLA) Consent Decrees
ROD Records Of Decision
UMTRA Uranium Mill Tailings Sites
ODI Open Dump Inventory
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
MINES Minxes Master Index File
TRIS Toxic Chemical Release Inventory System
TSCA Toxic Substances Control Act
FTTS FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS FIFRA/TSCA Tracking System Administrative Case Listing
SSTS Section 7 Tracking Systems
ICIS Integrated Compliance Information System
PADS PCB Activity Database System
MLTS Material Licensing Tracking System
RADINFO Radiation Information Database
FINDS Facility Index System/Facility Registry System
RAATS RCRA Administrative Action Tracking System
SCRD DRYCLEANERS State Coalition for Redediation of Drycleaners Listing

STATE AND LOCAL RECORDS
SHWS This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
DERR Division of Emergency & Remedial Response’s Database
MSL Master Sites List
TOWNGAS DERR Towngas Database
SWF/LF Licensed Solid Waste Facilities
HIST LF Old Solid Waste Landfill
LUST Leaking Underground Storage Tank File
UNREG LTANKS Ohio Leaking UST File
UST Underground Storage Tank File
ARCHIVE UST Archived Underground Storage Tank Sites
SPILLS Emergency Response Database
ENG CONTROLS Sites with Engineering Controls
INST CONTROL Sites with Institutional Engineering Controls
VCP Voluntary Action Program Sites
DRYCLEANERS Drycleaner Facility Listing
BROWNFIELDS Ohio Brownfield Inventory
CDL Clandestine Drug Lab Locations
NPDES NPDES General Permit List
AIRS Title V Permits Listing
EXECUTIVE SUMMARY

USD. Urban Setting Designation Sites
HIST ENG CONTROLS. Operation & Maintenance Agreements Database
HIST USD. Urban Setting Designations Database
HIST INST CONTROLS. Institutional Controls Database

TRIBAL RECORDS
INDIAN RESERV. Indian Reservations
INDIAN ODI. Report on the Status of Open Dumps on Indian Lands
INDIAN LUST. Leaking Underground Storage Tanks on Indian Land
INDIAN UST. Underground Storage Tanks on Indian Land
INDIAN VCP. Voluntary Cleanup Priority Listing

EDR PROPRIETARY RECORDS
Manufactured Gas Plants. EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS
Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.
Due to poor or inadequate address information, the following sites were not mapped:

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### STATE AND LOCAL RECORDS

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| MSL                           | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| TOWNAS                        | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
## MAP FINDINGS SUMMARY

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<th>Target Property</th>
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### TRIBAL RECORDS

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<th>1/4 - 1/2</th>
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<th>&gt; 1</th>
<th>Total Plotted</th>
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<td>INDIAN ODI</td>
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<td>INDIAN LUST</td>
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### EDR PROPRIETARY RECORDS

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### NOTES:
- **TP** = Target Property
- **NR** = Not Requested at this Search Distance
- Sites may be listed in more than one database
- **N/A** = This State does not maintain a SHWS list. See the Federal CERCLIS list.
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<th>EDR ID Number</th>
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NO SITES FOUND
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<tr>
<th>City</th>
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<th>Site Name</th>
<th>Site Address</th>
<th>Zip</th>
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<td>CADIZ</td>
<td>1000027152</td>
<td>GULF OIL CORPORATION</td>
<td>ROUTE 151</td>
<td>43907</td>
<td>FINDS, RCRA-NonGen</td>
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<tr>
<td>CADIZ</td>
<td>1000561318</td>
<td>HARRISON COUNTY HIGHWAY DEPARTMENT</td>
<td>ROUTE 9 NORTH</td>
<td>43907</td>
<td>FINDS, RCRA-TSDF, CORRACTS, CERC-NFRAP, RCRA-NonGen</td>
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<td>CADIZ</td>
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<td>94399237</td>
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<td>CADIZ</td>
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<td>CADIZ</td>
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<td>TOWN GAS</td>
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<td>CADIZ</td>
<td>S105905313</td>
<td>NORFOLK &amp; WESTERN</td>
<td>REXFORD SIDING (300’ N OF SR 22)</td>
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<td>UNREG LTANKS</td>
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<td>FINDS</td>
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<td>HARRISON HILLS SCHOOL</td>
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<td>CADIZ</td>
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<td>CADIZ</td>
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<td>CADIZ WWTP</td>
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</table>
To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA’s Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

<table>
<thead>
<tr>
<th>Date of Government Version: 08/13/2008</th>
<th>Source: EPA</th>
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<tbody>
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<td>Date Made Active in Reports: 09/23/2008</td>
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<tr>
<td>Number of Days to Update: 27</td>
<td>Next Scheduled EDR Contact: 10/27/2008</td>
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</table>

NPL Site Boundaries

Sources:

EPA’s Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 2
Telephone 215-814-5418

EPA Region 3
Telephone 404-562-8033

EPA Region 4
Telephone 312-886-6686

EPA Region 5
Telephone 206-553-8665

EPA Region 6
Telephone 214-655-6659

EPA Region 7
Telephone 913-551-7247

EPA Region 8
Telephone 303-312-6774

EPA Region 9
Telephone 415-947-4246

Proposed NPL: Proposed National Priority List Sites
A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

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<th>Date of Government Version: 04/30/2008</th>
<th>Source: EPA</th>
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<tr>
<td>Number of Days to Update: 34</td>
<td>Next Scheduled EDR Contact: 10/27/2008</td>
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DELISTED NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

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<tr>
<td>Data Release Frequency: Quarterly</td>
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</table>
NPL LIENS: Federal Superfund Liens
Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56
Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/09/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 34
Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 09/19/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA’s knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007
Date Data Arrived at EDR: 12/06/2007
Date Made Active in Reports: 02/20/2008
Number of Days to Update: 76
Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information
A Federal CERCLA (‘Superfund’) lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 08/19/2008
Date Data Arrived at EDR: 08/29/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 11
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/25/2008
Date Data Arrived at EDR: 06/30/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 56
Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Transporters, Storage and Disposal
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.
RCRA-LQG: RCRA - Large Quantity Generators
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

RCRA-SQG: RCRA - Small Quantity Generators
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

RCRA-NonGen: RCRA - Non Generators
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.
US ENG CONTROLS: Engineering Controls Sites List
A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/23/2008
Date Data Arrived at EDR: 07/29/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-0695

US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/23/2008
Date Data Arrived at EDR: 07/29/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-0695

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 01/23/2008
Date Made Active in Reports: 03/17/2008
Number of Days to Update: 54

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/30/2008
Date Data Arrived at EDR: 07/15/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 41

Source: U.S. Department of Transportation
Telephone: 202-366-4555

DOT OPS: Incident and Accident Data
Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008
Date Data Arrived at EDR: 05/28/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 72

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595

CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.
US BROWNFIELDS: A Listing of Brownfields Sites
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA’s Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA’s Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.
**ROD: Records Of Decision**

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

<table>
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<tr>
<th>Date of Government Version</th>
<th>Source: Department of Justice, Consent Decree Library</th>
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**UMTRA: Uranium Mill Tailings Sites**

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

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<td>Number of Days to Update</td>
<td>Next Scheduled EDR Contact: 12/29/2008</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Annually</td>
</tr>
</tbody>
</table>

**ODI: Open Dump Inventory**

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Environmental Protection Agency</th>
</tr>
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<tr>
<td>Date Data Arrived at EDR</td>
<td>Telephone: 800-424-9346</td>
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<tr>
<td>Date Made Active in Reports</td>
<td>Last EDR Contact: N/A</td>
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<tr>
<td>Number of Days to Update</td>
<td>Next Scheduled EDR Contact: N/A</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: No Update Planned</td>
</tr>
</tbody>
</table>

**DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations**

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: EPA, Region 9</th>
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</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>Telephone: 415-972-3336</td>
</tr>
<tr>
<td>Date Made Active in Reports</td>
<td>Last EDR Contact: 09/22/2008</td>
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<tr>
<td>Number of Days to Update</td>
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<td>Data Release Frequency: Semi-Annually</td>
</tr>
</tbody>
</table>

**MINES: Mines Master Index File**

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Department of Labor, Mine Safety and Health Administration</th>
</tr>
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<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>Telephone: 303-231-5959</td>
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<tr>
<td>Date Made Active in Reports</td>
<td>Last EDR Contact: 09/23/2008</td>
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<td>Number of Days to Update</td>
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<td>Data Release Frequency: Semi-Annually</td>
</tr>
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</table>

**TRIS: Toxic Chemical Release Inventory System**

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.
**TSCA: Toxic Substances Control Act**

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

**FTTS: FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

**FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing**

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

**HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing**

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.
SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

PADS: PCB Activity Database System
PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB’s who are required to notify the EPA of such activities.

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.
FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/09/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 47

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/06/2007
Date Made Active in Reports: 04/13/2007
Number of Days to Update: 38

SCRD DRYCLEANERS: State Coalition for Redediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 09/08/2008
Date Data Arrived at EDR: 09/10/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 13

STATE AND LOCAL RECORDS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states’ equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Data Release Frequency: N/A
DERR: Division of Emergency & Remedial Response’s Database

The DERR listings contains sites from all of Ohio that are in the Division of Emergency and Remedial Response (DERR) database, which is an index of sites for which our district offices maintain files. The database is NOT a record of contaminated sites or sites suspected of contamination. Not all sites in the database are contaminated, and a site’s absence from the database does not imply that it is uncontaminated.

Date of Government Version: 09/08/2008
Date Data Arrived at EDR: 09/08/2008
Date Made Active in Reports: 09/19/2008
Number of Days to Update: 11

Source: Ohio EPA, Div. of Emergency and Remedial Response
Telephone: 614-644-3538
Last EDR Contact: 09/08/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Semi-Annually

TOWNGAS: DERR Towngas Database

The database includes 82 very old sites (circa 1895) which produced gas from coal for street lighting. Most visual evidence of these sites has disappeared, however the potential for buried coal tar remains. The database is no longer in active use.

Date of Government Version: 07/28/1992
Date Data Arrived at EDR: 02/21/2003
Date Made Active in Reports: 03/05/2003
Number of Days to Update: 12

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 02/12/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

MSL: Master Sites List

Ohio EPA no longer maintains or publishes the MSL, which was a list of sites with known or suspected contamination. Please be advised that this report does not constitute a determination that any site identified in the report is or may be contaminated.

Date of Government Version: 03/01/1999
Date Data Arrived at EDR: 03/29/1999
Date Made Active in Reports: 04/21/1999
Number of Days to Update: 23

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2068
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: No Update Planned

SWF/LF: Licensed Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/14/2008
Date Data Arrived at EDR: 08/14/2008
Date Made Active in Reports: 09/04/2008
Number of Days to Update: 21

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2621
Last EDR Contact: 08/04/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Annually

HIST LF: Old Solid Waste Landfill

A list of about 1200 old abandoned dumps or landfills. This database was developed from Ohio EPA staff notebooks and other information dating from the mid-1970s

Date of Government Version: 01/01/1980
Date Data Arrived at EDR: 07/01/2003
Date Made Active in Reports: 07/17/2003
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/26/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LUST: Leaking Underground Storage Tank File

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.
### UNREG LTANKS: Ohio Leaking UST File
A suspected or confirmed release of petroleum from a non-regulated UST.

<table>
<thead>
<tr>
<th>Date of Government Version: 08/25/1999</th>
<th>Source: Department of Commerce</th>
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<tr>
<td>Date Data Arrived at EDR: 08/19/2003</td>
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<td>Number of Days to Update: 7</td>
<td>Next Scheduled EDR Contact: N/A</td>
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<td>Data Release Frequency: No Update Planned</td>
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</table>

### UST: Registered Underground Storage Tank File
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

<table>
<thead>
<tr>
<th>Date of Government Version: 09/24/2008</th>
<th>Source: Department of Commerce, Division of State Fire Marshal</th>
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<tbody>
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<td>Date Made Active in Reports: 09/30/2008</td>
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<td>Number of Days to Update: 6</td>
<td>Next Scheduled EDR Contact: 12/08/2008</td>
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<td></td>
<td>Data Release Frequency: Quarterly</td>
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</table>

### ARCHIVE UST: Archived Underground Storage Tank Sites
Underground storage tank records that have been removed from the Underground Storage Tank database.

<table>
<thead>
<tr>
<th>Date of Government Version: 09/24/2008</th>
<th>Source: Department of Commerce, Division of State Fire Marshal</th>
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<tbody>
<tr>
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<td>Date Made Active in Reports: 09/30/2008</td>
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<td>Number of Days to Update: 6</td>
<td>Next Scheduled EDR Contact: 12/08/2008</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Quarterly</td>
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</table>

### SPILLS: Emergency Response Database
Incidents reported to the Emergency Response Unit. The focus of the ER program is to minimize the impact on the environment from accidental releases, spills, and unauthorized discharges from any fixed or mobile sources. Incidents involving petroleum products, hazardous materials, hazardous waste, abandoned drums, or other materials which may pose as a pollution threat to the state's water, land, or air should be reported immediately. Not all incidents included in the database are actual SPILLS, they can simply be reported incidents.

<table>
<thead>
<tr>
<th>Date of Government Version: 09/01/2008</th>
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<td>Data Release Frequency: Varies</td>
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### ENG CONTROLS: Sites with Engineering Controls
A database that tracks properties with engineering controls.

<table>
<thead>
<tr>
<th>Date of Government Version: 09/02/2008</th>
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<td></td>
<td>Data Release Frequency: Semi-Annually</td>
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</table>

### INST CONTROL: Sites with Institutional Engineering Controls
A database that tracks properties with institutional controls.
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/02/2008
Date Data Arrived at EDR: 09/03/2008
Date Made Active in Reports: 09/19/2008
Number of Days to Update: 16
Source: Ohio Environmental Protection Agency
Telephone: 614-644-2306
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Semi-Annually

VCP: Voluntary Action Program Sites
Site involved in the Voluntary Action Program.
Date of Government Version: 09/05/2008
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/19/2008
Number of Days to Update: 14
Source: Ohio EPA, Voluntary Action Program
Telephone: 614-728-1298
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Semi-Annually

DRYCLEANERS: Drycleaner Facility Listing
A listing of drycleaner facility locations.
Date of Government Version: 05/07/2008
Date Data Arrived at EDR: 05/09/2008
Date Made Active in Reports: 06/24/2008
Number of Days to Update: 46
Source: Ohio EPA
Telephone: 614-644-3469
Last EDR Contact: 08/20/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Varies

BROWNFIELDS: Ohio Brownfield Inventory
A statewide brownfields inventory. A brownfield is an abandoned, idled or under-used industrial or commercial property where expansion or redevelopment is complicated by known or potential releases of hazardous substances and/or petroleum.
Date of Government Version: 07/25/2008
Date Data Arrived at EDR: 08/11/2008
Date Made Active in Reports: 09/04/2008
Number of Days to Update: 24
Source: Ohio EPA
Telephone: 614-644-3748
Last EDR Contact: 07/25/2008
Next Scheduled EDR Contact: 10/06/2008
Data Release Frequency: Varies

CDL: Clandestine Drug Lab Locations
A list of clandestine drug lab sites with environmental impact. This list is extracted from the SPILLS database based on the "product" type.
Date of Government Version: 03/01/2008
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 03/24/2008
Number of Days to Update: 10
Source: Ohio EPA
Telephone: 614-644-2080
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Varies

NPDES: NPDES General Permit List
General information regarding NPDES (National Pollutant Discharge Elimination System) permits.
Date of Government Version: 06/30/2008
Date Data Arrived at EDR: 09/03/2008
Date Made Active in Reports: 09/19/2008
Number of Days to Update: 16
Source: Ohio EPA
Telephone: 614-644-2031
Last EDR Contact: 09/03/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Semi-Annually

AIRS: Title V Permits Listing
A listing of Title V Permits issued by the Division of Air Pollution Control. It is a federal operating permit program adopted and implemented by the state. The basic program elements typically specify that major sources will submit an operating application to the specified state environmental regulatory agency according to a schedule.
### USD: Urban Setting Designation Sites

A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director’s decision on approval or denial of the request is needed before cleanup requirements for the site can be determined.

### HIST USD: Urban Setting Designations Database

A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director’s decision on approval or denial of the request is needed before cleanup requirements for the site can be determined. This database is no longer updated or maintained by the state agency.

### HIST INST CONTROLS: Institutional Controls Database

"Institutional control" is a restriction that is recorded in the same manner as a deed which limits access to or use of the property such that exposure to hazardous substances or petroleum are effectively and reliably eliminated or mitigated. Examples of institutional controls include land and water use restrictions. This database is no longer updated or maintained by the state agency.

### HIST ENG CONTROLS: Operation & Maintenance Agreements Database

Volunteers that complete a voluntary action that relies on the ongoing operation and maintenance (O&M) of an engineered control to make the site protective (e.g., cap systems and ground water treatment systems) must enter into a legally binding agreement with the Ohio EPA before the director issues a covenant not to sue. This O&M Agreement must describe how the remedy is constructed and how it will be monitored, maintained, and repaired. It also lays out inspection opportunities for the agency. Companies must document that they have the financial capability to operate any remedy relied on, before the agency will agree to enter into the O&M Agreement. The statute requires that the agency be notified of any change in ownership. This database is no longer updated or maintained by the state agency.
TRIBAL RECORDS

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska.
INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.
Date of Government Version: 09/05/2008
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 18
Next Scheduled EDR Contact: 11/17/2008
Source: EPA Region 6
Telephone: 214-665-6597
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada.
Date of Government Version: 07/11/2008
Date Data Arrived at EDR: 07/11/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 28
Next Scheduled EDR Contact: 11/17/2008
Source: Environmental Protection Agency
Telephone: 415-972-3372
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.
Date of Government Version: 08/21/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 5
Next Scheduled EDR Contact: 11/17/2008
Source: EPA Region 8
Telephone: 303-312-6271
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
No description is available for this data.
Date of Government Version: 08/21/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 5
Next Scheduled EDR Contact: 11/17/2008
Source: EPA Region 8
Telephone: 303-312-6137
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
No description is available for this data.
Date of Government Version: 07/11/2008
Date Data Arrived at EDR: 07/11/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 28
Next Scheduled EDR Contact: 11/17/2008
Source: EPA Region 9
Telephone: 415-972-3368
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
No description is available for this data.
Date of Government Version: 08/22/2008
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 18
Next Scheduled EDR Contact: 11/17/2008
Source: EPA Region 10
Telephone: 206-553-2857
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land
No description is available for this data.
Date of Government Version: 03/17/2008
Date Data Arrived at EDR: 03/27/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 40
Next Scheduled EDR Contact: 11/17/2008
Source: EPA Region 4
Telephone: 404-562-9424
Data Release Frequency: Semi-Annually
INDIAN UST R1: Underground Storage Tanks on Indian Land
A listing of underground storage tank locations on Indian Land.
Date of Government Version: 03/12/2008  Source: EPA, Region 1
Date Data Arrived at EDR: 03/14/2008  Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008  Last EDR Contact: 08/18/2008
Number of Days to Update: 6  Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
No description is available for this data
Date of Government Version: 06/01/2007  Source: EPA Region 7
Date Data Arrived at EDR: 06/14/2007  Telephone: 913-551-7003
Date Made Active in Reports: 07/05/2007  Last EDR Contact: 08/18/2008
Number of Days to Update: 21  Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
No description is available for this data
Date of Government Version: 09/05/2008  Source: EPA Region 6
Date Data Arrived at EDR: 09/05/2008  Telephone: 214-665-7591
Date Made Active in Reports: 09/23/2008  Last EDR Contact: 08/18/2008
Number of Days to Update: 18  Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
No description is available for this data
Date of Government Version: 12/21/2007  Source: EPA Region 5
Date Data Arrived at EDR: 12/21/2007  Telephone: 312-886-6136
Date Made Active in Reports: 01/24/2008  Last EDR Contact: 08/18/2008
Number of Days to Update: 34  Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.
Date of Government Version: 03/20/2008  Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008  Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008  Last EDR Contact: 07/21/2008
Number of Days to Update: 27  Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.
Date of Government Version: 04/02/2008  Source: EPA, Region 1
Date Data Arrived at EDR: 04/22/2008  Telephone: 617-918-1102
Date Made Active in Reports: 05/19/2008  Last EDR Contact: 07/21/2008
Number of Days to Update: 27  Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS
Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.
OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

**CT MANIFEST: Hazardous Waste Manifest Data**
- Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.
- Date of Government Version: 12/31/2005
- Date Data Arrived at EDR: 06/15/2007
- Date Made Active in Reports: 08/20/2007
- Number of Days to Update: 66
- Source: Department of Environmental Protection
- Telephone: 860-424-3375
- Last EDR Contact: 09/12/2008
- Next Scheduled EDR Contact: 12/08/2008
- Data Release Frequency: Annually

**NJ MANIFEST: Manifest Information**
- Hazardous waste manifest information.
- Date of Government Version: 09/30/2007
- Date Data Arrived at EDR: 12/04/2007
- Date Made Active in Reports: 12/31/2007
- Number of Days to Update: 27
- Source: Department of Environmental Protection
- Telephone: N/A
- Last EDR Contact: 08/08/2008
- Next Scheduled EDR Contact: 11/03/2008
- Data Release Frequency: Annually

**NY MANIFEST: Facility and Manifest Data**
- Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.
- Date of Government Version: 07/23/2008
- Date Data Arrived at EDR: 08/28/2008
- Date Made Active in Reports: 09/11/2008
- Number of Days to Update: 14
- Source: Department of Environmental Conservation
- Telephone: 518-402-8651
- Last EDR Contact: 08/28/2008
- Next Scheduled EDR Contact: 11/24/2008
- Data Release Frequency: Annually

**PA MANIFEST: Manifest Information**
- Hazardous waste manifest information.
- Date of Government Version: 12/31/2007
- Date Data Arrived at EDR: 09/11/2008
- Date Made Active in Reports: 10/02/2008
- Number of Days to Update: 21
- Source: Department of Environmental Protection
- Telephone: N/A
- Last EDR Contact: 09/08/2008
- Next Scheduled EDR Contact: 12/08/2008
- Data Release Frequency: Annually

**RI MANIFEST: Manifest Information**
- Hazardous waste manifest information.
- Date of Government Version: 12/31/2007
- Date Data Arrived at EDR: 06/03/2008
- Date Made Active in Reports: 08/07/2008
- Number of Days to Update: 65
- Source: Department of Environmental Management
- Telephone: 401-222-2797
- Last EDR Contact: 09/15/2008
- Next Scheduled EDR Contact: 12/15/2008
- Data Release Frequency: Annually
VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.
Date of Government Version: 03/17/2008
Source: Department of Environmental Conservation
Date Data Arrived at EDR: 03/26/2008
Telephone: 802-241-3443
Date Made Active in Reports: 04/09/2008
Last EDR Contact: 08/11/2008
Number of Days to Update: 14
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.
Date of Government Version: 12/31/2007
Source: Department of Natural Resources
Date Data Arrived at EDR: 08/22/2008
Telephone: N/A
Date Made Active in Reports: 09/08/2008
Last EDR Contact: 10/06/2008
Number of Days to Update: 17
Next Scheduled EDR Contact: 01/05/2009
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association’s annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on private school locations in the United States.

Daycare Centers: Licensed Child Day Care Facilities
Source: Department of Job & Family Services
Telephone: 614-466-6282
Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 614-265-1044

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.
GROUNDWATER FLOW DIRECTION INFORMATION
Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY
General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.
HYDROLOGIC INFORMATION
Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE
Target Property County: HARRISON, OH
Flood Plain Panel at Target Property: Not Reported
Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY
NWI Quad at Target Property: Not Available
FLUSHING: Not Available

HYDROGEOLOGIC INFORMATION
Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®
Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>LOCATION FROM TP</th>
<th>GENERAL DIRECTION GROUNDWATER FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Reported</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
GROUNDWATER FLOW VELOCITY INFORMATION
Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY
Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

<table>
<thead>
<tr>
<th>Era</th>
<th>Paleozoic</th>
</tr>
</thead>
<tbody>
<tr>
<td>System</td>
<td>Pennsylvanian</td>
</tr>
<tr>
<td>Series</td>
<td>Virgilian Series</td>
</tr>
<tr>
<td>Code</td>
<td>PP4 (decoded above as Era, System &amp; Series)</td>
</tr>
</tbody>
</table>

GEOLOGIC AGE IDENTIFICATION
Category: Stratified Sequence


DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture’s (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: FAIRPOINT
Soil Surface Texture: shaly - clay loam
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.
Corrosion Potential - Uncoated Steel: HIGH
Depth to Bedrock Min: > 60 inches
Depth to Bedrock Max: > 60 inches
Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Upper</th>
<th>Lower</th>
<th>Soil Texture Class</th>
<th>AASHTO Group</th>
<th>Unified Soil</th>
<th>Permeability Rate (in/hr)</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>5 inches</td>
<td>shaly - clay loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay</td>
<td>Max: 0.60</td>
<td>Min: 0.20</td>
</tr>
<tr>
<td>2</td>
<td>5 inches</td>
<td>60 inches</td>
<td>shaly - clay loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.</td>
<td>COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel</td>
<td>Max: 0.60</td>
<td>Min: 0.20</td>
</tr>
</tbody>
</table>

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
sandy loam

Surficial Soil Types: silt loam
sandy loam

Shallow Soil Types: channery - sandy loam
loam
silt loam
silty clay loam

Deeper Soil Types: unweathered bedrock
stratified weathered bedrock
silt loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<table>
<thead>
<tr>
<th>DATABASE</th>
<th>SEARCH DISTANCE (miles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal USGS</td>
<td>1.000</td>
</tr>
<tr>
<td>Federal FRDS PWS</td>
<td>Nearest PWS within 1 mile</td>
</tr>
<tr>
<td>State Database</td>
<td>1.000</td>
</tr>
</tbody>
</table>
### FEDERAL USGS WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No Wells Found</td>
</tr>
</tbody>
</table>

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No PWS System Found</td>
</tr>
</tbody>
</table>

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OHDT00000037968</td>
<td>1/8 - 1/4 Mile SE</td>
</tr>
<tr>
<td>Map ID</td>
<td>Database</td>
<td>EDR ID Number</td>
</tr>
<tr>
<td>--------</td>
<td>----------</td>
<td>---------------</td>
</tr>
<tr>
<td>1 SE</td>
<td>OH WELLS</td>
<td>OHD10000037968</td>
</tr>
</tbody>
</table>

| Direction | Distance | Elevation | Well log n: | Well type: | Cnty code: | Twp code: | Orig owner: | Orig own 1: | Well use c: | Aquifer ty: | St dir cod: | St no: | St name: | St type co: | City: | State code: | Zip: | Horiz y: | Longitude: | Total dept: |
|-----------|----------|------------|-------------|------------|------------|----------|-------------|------------|------------|------------|------------|----------|-------|------------|-------|----------|-----------|-----------|
| SE        | 1/8 - 1/4 Mile | Higher     | 246298      | W          | 67         | 440      | Not Reported | HANNA COAL CO. | Not Reported | SHA        | Not Reported | Not Reported | Not Reported | Not Reported | Not Reported | 207911.41 | Not Reported | Not Reported | 59       |
### AREA RADON INFORMATION

State Database: OH Radon

#### Radon Test Results

<table>
<thead>
<tr>
<th>Zip</th>
<th>Total Sites</th>
<th>Median</th>
<th>1st Quartile</th>
<th>3rd Quartile</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>43907</td>
<td>17</td>
<td>4.8</td>
<td>2.4</td>
<td>8.6</td>
<td>1.2</td>
<td>39.5</td>
</tr>
</tbody>
</table>

Federal EPA Radon Zone for HARRISON County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

- Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 43907

Number of sites tested: 4

<table>
<thead>
<tr>
<th>Area</th>
<th>Average Activity</th>
<th>% &lt;4 pCi/L</th>
<th>% 4-20 pCi/L</th>
<th>% &gt;20 pCi/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Living Area - 1st Floor</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
</tr>
<tr>
<td>Living Area - 2nd Floor</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
</tr>
<tr>
<td>Basement</td>
<td>4.425 pCi/L</td>
<td>75%</td>
<td>25%</td>
<td>0%</td>
</tr>
</tbody>
</table>
TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5’ Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 614-265-1044

HYDROGEOLOGIC INFORMATION

AQUIFLOWR Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture’s (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.
LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water System Data
Source: Ohio Environmental Protection Agency
Telephone: 614-644-3677
The database includes community, transient noncommunity and nontransient noncommunity water wells; and source treatment unit locations.

Water Well Database
Source: Department of Natural Resources
Telephone: 614-265-6747

OTHER STATE DATABASE INFORMATION

RADON

State Database: OH Radon
Source: Department of Health
Telephone: 614-644-2727
Radon Statistics for Zip Code Areas

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration
G2: TRIP REPORT
24 October 2008

U.S. Department of the Air Force
HQ AFRC/A7PP
Attention: Ron Scandlyn
220 Richard Ray Blvd
Robbins Air Force Base, GA 31098-1637

Contract No.: FA4890-04-D-0007
Delivery Order No.: 5Y01

Subject: Cadiz Drop Zone Environmental Assessment (EA)/Environmental Baseline Survey (EBS) – Pittsburgh International Airport Air Reserve Station

Dear Mr. Scandlyn:

The subject site visit and data collection trip was conducted during 14-16 October 2008.

Meetings

Kick-Off Meeting

The kick-off meeting was held on 14 October at Pittsburgh IAP ARS. The following were in attendance:

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frank Sniezek</td>
<td>911 AW/CEV</td>
<td>412.474.8428</td>
</tr>
<tr>
<td>Joseph Matis</td>
<td>911 AW/CEV</td>
<td>412.474.8749</td>
</tr>
<tr>
<td>Thomas Kutchenriter</td>
<td>911 MSG/CER</td>
<td>412.474.8569</td>
</tr>
<tr>
<td>Robert Moeslein</td>
<td>911 MSG/CE</td>
<td>412.474.8571</td>
</tr>
<tr>
<td>Lt Col Aldo Filoni</td>
<td>911 OSF/OSTX</td>
<td>412.474.8606</td>
</tr>
<tr>
<td>Lt Col William Gutermuth</td>
<td>911 AW Safety</td>
<td>412.474.8513</td>
</tr>
<tr>
<td>Maj Todd McCrann</td>
<td>911 LRS/CC</td>
<td>412.474.8509</td>
</tr>
<tr>
<td>Ashley Hileman</td>
<td>CONSOL Energy</td>
<td>724.825.7816</td>
</tr>
<tr>
<td>Lynn Manning</td>
<td>CONSOL Energy</td>
<td>724.485.4039</td>
</tr>
<tr>
<td>Tim Schivley</td>
<td>CONSOL Energy</td>
<td>724.485.4511</td>
</tr>
<tr>
<td>Carl Rykaczewski</td>
<td>Earth Tech AECOM</td>
<td>909.554.5052</td>
</tr>
<tr>
<td>Nora Castellanos</td>
<td>Earth Tech AECOM</td>
<td>909.554.5008</td>
</tr>
</tbody>
</table>
The following represent major points of discussion:

- CONSOL Energy expressed concerns that this EA/EBS could raise issues that could adversely affect CONSOL Energy. They referenced a problem at one of their sites due to disturbance to the Indiana bat, a federally-listed species. They would like us to meet with their environmental department personnel.
- The proposed drop zone site is in an area already used for low-level flight activities and these activities have been analyzed in an EA.
- There are no noise complaints from use of the current drop zone, Starvaggi.
- The drop zone would be approved for paratrooper drops, but these are not a routine activity and are normally conducted at other locations. Paratrooper drops would likely only happen once or twice per year as part of a special exercise. Such an exercise may require its own NEPA analysis. However, the 911 AW prefers that this EA include this activity.
- Cattle have been grazing on property for about two years.
- The 911 AW has mapped no-fly area to avoid overflight of the nearby Harrison County Airport.
- Most air drop exercises occur at evening and so most airdrop flights would occur after the Harrison County Airport is closed.

DOPAA Discussion

A meeting was held among Lt Col Filoni, Lt Col Gutermuth, Mr. Sniezek, Ms. Castellanos, and Mr. Rykaczewski on 15 October to discuss details of the proposed action. The following represent major points of discussion regarding the proposed action from this meeting and from other discussions:

- Targets used on the drop zone would be set up and removed for each airdrop. Concrete blocks that may be used mark the target location may be left in place between airdrop events, but no permanent structures would be installed. The target would consist of a raised angle marker (RAM) consisting of a bright orange tent-like structure that is angled to face the direction of the approaching aircraft. For night drops, battery powered lights using 9-volt batteries would be set up.
- Visual confirmation of the target is mandatory for drop exercise. No instrument-only drops would be conducted. Air drops would not be conducted during weather conditions that do not allow visual confirmation of the target.
- The Harrison County Airport averages one airplane a day, although this does not necessarily mean a single sortie (i.e., the single plane could take off and land more than once per day).
- The 911 AW does not currently coordinate with the FAA to publish drop zone site information on FAA charts and airport publications, and probably would not plan to do this for the Cadiz Drop Zone.
- Flight safety is currently revising the existing Military Airspace Collision Avoidance (MACA) plan to include the new drop zone.
- The 911 AW has visited the Harrison County Airport and discussed the potential new drop zone.
• A Notice to Airmen (NOTAM) would be issued for airdrops. The NOTAM would be added to the current NOTAM for low-level training.
• Low-level flight areas cover four states, including proposed lease property
• The MACA includes placing a radio call into the local airport to clear local traffic as the aircraft approach the drop zone. There will be both aircraft-to-aircraft and ground safety-to-aircraft communication.
• Visual assurance that no other aircraft are in the drop zone prior to an airdrop is part of standard procedures.
• A typical airdrop training day includes three separate flights with two planes each in the morning, afternoon/evening, and at night. During each flight each of the two planes would make two drops for a total of 12 drops in one day.
• The total flight time for an air drop is approximately 2 hours.
• The aircraft adjust to the drop altitude 10 miles out from the drop zone. This may be lower or higher than the transit altitude. At five miles past the drop zone, the aircraft would be back to the en-route altitude (i.e., at 2500 above mean sea level).
• Material recovery would require two people for training bundle drops and six people for actual load drops. Material recovery after an actual load drop would require use of a forklift, full-size pickup trucks, and a flatbed truck
• The Tater Drop Zone is located in Indiana County, PA. It is only large enough to conduct training bundle drops.
• This EA will not address bivouac activities.
• The FONSI and EBS signature blocks will read Gordon H. Elwell, Colonel, USAFR, Installation Commander.

**Meeting with CONSOL Energy Personnel**

A meeting was held at CONSOL Energy, Canonsburg, PA, on 15 October to discuss information on the proposed lease site property that is owned by CONSOL Energy. The following were in attendance:

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denny McCracken</td>
<td>CNX Land</td>
<td>724.485.4088</td>
</tr>
<tr>
<td>Kim Raeder</td>
<td>CNX Land</td>
<td>724.485.4611</td>
</tr>
<tr>
<td>Bill Weir</td>
<td>CNX Environmental</td>
<td>724.485.4604</td>
</tr>
<tr>
<td>John Owsiany</td>
<td>CNX Environmental</td>
<td>724.485.4503</td>
</tr>
<tr>
<td>Jim Poland</td>
<td>CNX Env &amp; Engr Services</td>
<td>724.485.4317</td>
</tr>
<tr>
<td>Lt Shawn M Walleck</td>
<td>911 AW Public Affairs</td>
<td>412.474.8750</td>
</tr>
<tr>
<td>Frank Snieszek</td>
<td>911 AW/CEVE</td>
<td>412.474.8428</td>
</tr>
<tr>
<td>Lt Col Aldo Filoni</td>
<td>911 AW</td>
<td>412.474.8439</td>
</tr>
<tr>
<td>Carl Rykaczewski</td>
<td>Earth Tech AECOM</td>
<td>909.554.5052</td>
</tr>
<tr>
<td>Nora Castellanos</td>
<td>Earth Tech AECOM</td>
<td>909.554.5008</td>
</tr>
</tbody>
</table>

The following represent major points of discussion:
• There is no information on property use before it was mined. CONSOL Energy will try to provide information on the previous owner(s) and land uses.
• The proposed lease site is an area that was mined under two separate permits.
• Mining occurred from approximately the early to mid 1980s to the early to mid 1990s.
• Reclamation began on the northern portion of the area in the early 1990s and in the southern/southwestern portion in the mid to late 1990s.
• After reclamation, bond releases occur in two phases:
  o Phase 1 – after completion of site grading
  o Phase 2 – after completion of seeding
  o Phase 3 (Final Release) - after 5 years of maintenance. No ground disturbance is allowed. This could affect the bond release.
• The final bond release has been granted for this property. CONSOL Energy’s intent is to sell the property.
• Ohio Department of Natural Resources (ODNR) Mineral Resources Division has regulatory control over mining; however, both the state and the federal Office of Surface Mining do inspections.
• Mining permit conditions state reclamation guidelines. Mining regulations are located in Admin. Code Title 15, Chapter 1513, and Revised Code 1501-13 (for coal).
• CONSOL Energy has owned the property since at least before the early 1980s, and will try to provide more detailed information on how long they have owned it.
• Cattle grazing has been occurring probably since the mid to late 1990s.
• The forested areas were most likely not mined.
• CONSOL Energy will try to provide the approximate total acreage of this mine site, but it was guessed at approximately 2,500 acres.
• The site lies within Cadiz Township, Harrison County, Ohio.
• ODNR would have old permit records, reclamation guidelines.
• CONSOL Energy personnel had no knowledge of the well that the database search indicates is on or near the site. However, since its owner is listed a Hanna Coal Company, which subsequently became part of CONSOL Energy, it probably pre-dates mining activities and was likely destroyed during mining.

Visual Reconnaissance Inspection

The VRS of the proposed drop zone property was conducted on 14 October 2008. Mr. Sniezek, Lt Col Filoni, Lt Col Gutermuth, and Mr. Schivley escorted Ms. Castellanos and Mr. Rykaczewski during the survey of the property.

• There is a single road traversing the central portion of the proposed drop zone.
• The center of the proposed drop zone along the access road is relatively level; however, sloping areas are present to the north, south, and east. Two apparently artificial ponds created during the mine reclamation, are present in the northern portion of the drop zone area.
• No structures are present.
• The vegetation on most of the site consists of grazed grasses, legumes (clover, vetch), and other herbaceous plants (e.g., chicory, aster, queen anne’s lace, goldenrod, teasel).
• There is a “puddle” near the center of the circular drop zone. It was dry during the site visit and appeared heavily trampled by cattle; however, some bulrushes (wetland species) were observed growing. It appeared than when full of water, it could be 1.5-3 feet deep.
There are small wooded areas on the southern and western areas of the property. The southern wooded area also contains some wetlands and a small creek. Airdrop activities are planned for the center of the lease area (within 300 yards of the target) and should not affect the wooded and wetland areas near the perimeter.

Tree species noted in the southern wooded area include sycamore, black locust, sugar maple, silver maple, cottonwood, ash, and black walnut. Common understory plants noted are poison ivy, brambles, and bush honeysuckle.

Wetland areas included cattails and willows.

White-tail deer and several bird species (mallard, northern harrier, black vulture, turkey vulture, kestrel, crow, northern flicker, and yellow-rumped warbler) were observed on or near the site.

The site is within the 911 AW’s low-level training area and they currently fly aircraft as low as 500 ft above ground level in this area; however, the frequency of low-level flights at this specific location would increase after establishment of the drop zone.

Local emergency personnel would be contacted in the event of injuries

Local Data Collection

The ODNR office in Cadiz, Ohio (this location is for soil conservation only) indicated that the nearest ODNR mining office is in Cambridge, POC is Dave Clark, (740.439.9079), and the nearest ODNR wildlife office is in Akron, POC Daniel McMillen (330.644.3802 X3025).

The engineering department in the Harrison County Courthouse indicated that there is no county general plan and that neither Cadiz nor Athens townships have any zoning.

Action Items

- Mr. Sniezek to contact Max Shiflet, environmental manager at the Youngstown ARS, for a potential IICEP mailing list relevant to Ohio.
- Connie Barrett, real property (412.474.8721) to look into whether the U.S. Army Corps of Engineers has started the real estate process for leasing the drop zone property.
- CONSOL Energy to try to provide the following:
  - Copies of deeds for the parcels included in the potential lease area
  - Copy of, or date of, the final bond release for the applicable portion(s) of the mine site
  - How long CONSOL Energy has owned the property
  - Information on previous owners
  - Information on previous land use
  - Approximate acreage of the entire mine site
- Earth Tech AECOM to provide example agency consultation letters to Mr. Sniezek.
Data Collected

The following materials were collected:

- Environmental Assessment for Project JLSS 93-0042 Bivouac and Exercise Area Mingo Drop Zone, Pittsburgh IAP ARS, May 1995
- Memorandum for HQ AFRC/A3TA, New Drop Zone Procedures, March 2008
- Final Pest Management Plan, Pittsburgh IAP ARS, August 2008
- General Plan, Pittsburgh IAP ARS, December 1998
- Integrated Solid Waste Management Plan for Pittsburgh International Airport Air Reserve Station, Ecology and Environment, Inc., March 2003
- Stormwater Pollution Prevention Plan, 911th Airlift Wing Pittsburgh International Airport Air Reserve Station, Moon Township, Pennsylvania, EA Engineering Science and Technology, Inc., August 2006
- Electronic files of figures showing drop zone boundaries, no fly zones, and parcels.

If you have any questions or comments, please contact me at (909) 554-5052.

Very truly yours,

Earth Tech Inc.,

Carl Rykaczewski
Senior Environmental Professional

cc: Frank Sniezek, 911 MSG/CEVE
    Marsha Denning, HQ AFRC/A7KA
G3: VISUAL SITE INSPECTION FORMS
Facility: # ______________ Name/Current Use **Cadiz Drop Zone**

Past Use: □ Same as above  **Strip Mine (Reclaimed)**

Location/Topography:  **Rolling Hills, SW of Cadiz**

Year of Construction: ______________ Major Renovations:  **Reclaying Activities**

Does/Did facility use Hazardous Material: □ Yes  □ No  Types: ______________________

Does/Did facility store Hazardous Material: □ Yes  □ No  Types: ______________________

Does/Did Facility generate Hazardous Waste: □ Yes  □ No  Types: ______________________

Does/Did Facility store Hazardous Waste: □ Yes  □ No  If Yes □ Accumulation point #
□ Satellite point
□ Other ______________________

Years of Storage: ______________

Types of Storage: ______________________

Disposal practices: ______________________

"Housekeeping" in and around building is □ Good  □ Poor  **not applicable**

If Poor: ______________________

Effluent/discharged waste destination: □ Sanitary Sewer  □ Industrial Sewer  □ Septic Tank  □ Storm Drain

□ Other:  **None - Natural**

Conditions not mentioned that present concerns: ______________________

Interviews:  **Lt. Col. Fitz, Tim Shively (COSOL)**

**Signatures**
BUILDING INSPECTION CHECKLIST

Are there any signs of the following on the property? 

Y: Yes  N: No  Unk: Unknown

<table>
<thead>
<tr>
<th>Content</th>
<th>Size</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) UST</td>
<td></td>
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<tr>
<td>B) AST</td>
<td></td>
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<tr>
<td>C) OWS</td>
<td></td>
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<tr>
<td>D) IRP Site</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E) Waste Piles/Evidence of improper disposal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F) Transformers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G) Floor Drains discharge to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H) Evidence of Spills/Staining</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I) Discolored Soil/Stressed vegetation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J) Noxious Odors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K) Radioactive and Mixed Waste</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L) Fill Areas/Buried Objects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M) Drums/Drum Storage</td>
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<td></td>
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<tr>
<td>N) Surface Water w/in ___ ft. to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O) Sensitive Receptors w/in ___ ft. to</td>
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<td></td>
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<tr>
<td>P) Flaking Paint</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q) Potential ACM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R) Other</td>
<td></td>
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</tr>
</tbody>
</table>

H/I Source: ________________________________

Check List Description:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Photo Log:
Roll Frame Subject
G4: ENVIRONMENTAL LIENS SEARCH
The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders’ offices, registries of deeds, county clerks’ offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

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EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

CLIENT REF 2336628.7S
Site Address BUSBY RD AND SLATER RD
Site CSZ CADIZ, OHIO 43097

RESEARCH SOURCE

Sources: HARRISON

DEED INFORMATION

Type of Deed: Conveyance of Coal Properties and Reservation of Production Payment
Title is vested in: Consolidation Coal Company, a Pennsylvania Corporation
Title received from: Consolidation Coal Company, a Delaware Corporation
Deed Dated: 09/15/1966
Deed Recorded:
Book: 157
Page: 55

LEGAL DESCRIPTION

Description: SITUATED IN THE STATE OF OHIO, COUNTY OF HARRISON, TOWNSHIP OF SHORT CREEK, BEING MORE FULLY DESCRIBED IN VOLUME 157, PAGE 146 RECORDED IN THE COUNTY OF HARRISON, TOWNSHIP OF SHORT CREEK, OHIO.

Assessor’s Parcel Number: 04.0000094.000
04.0000072.000
04.0000070.000
02.0000271.000
02.0000212.000

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If yes:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AUL’s: Found ☐ Not Found ☒
Copy of Deed and any instruments.
PART I
CONSOLIDATION COAL COMPANY
(A. Furniture company)
TO
CONSOLIDATION COAL COMPANY
(1. Furniture company)
Conveyance of Coal Properties
and Reservation of Production Payment.

Pursuant thereto $425,000,000

Dated as of September 15, 1966

PART II
CONSOLIDATION COAL COMPANY
(A Furniture company)
TO
WILLIAM COAL CORPORATION
Conveyance of
Production Payment
Dated as of September 15, 1966
State Instrument of Conveyance dated as of September 13, 1996, consisting of PART I, a conveyance of all Properties and Beneficiation of Production Payable from the Western Coal Company to Part I, the "Grantee"; PART II, a Conveyance of Production Payable from the Eastern Coal Company to Part I, the "Grantee"; and PART III, a Conveyance of Beneficiation from the Western Coal Company to Western Coal Company, Delaware corporation (hereinafter called the "Producing Company"), each of such parties being expressly and distinctly different from the other and evidencing a different transaction, with the transaction evidenced by, and delivery of, Part I conveying immediately prior to the transaction evidenced by, and delivery of, Part II.
of the Undeveloped Subject Interest, but no such Developed Subject Interest may be established by the transfer of a portion thereof to an Undeveloped Subject Interest without the consent of the Grantor.

(g) "Effective Date" shall mean 11:45 P.M. September 12, 1966, determined as to each locality in accordance with the time then generally observed in such locality.

(h) "Cabinet a" shall mean KABIN a attached hereto and hereby made a part of both Part I and Part II hereof.

(i) "Green Income" shall mean "green income from mining" under Section 48(1) of the internal revenue Code of 1934, as it is in effect on the Effective Date.

(1) The term "independent," when applied to any person, shall mean a person (i) which is in fact independent, (ii) which does not have any substantial interest, direct or indirect, in the Grantees or any Affiliate of the Grantees, (iii) in which the Grantees or any Affiliate of the Grantees does not have any substantial interest, direct or indirect, and (iv) which is not associated with the Grantees or any Affiliate of the Grantees as an officer, employee, promoter, underwriter, trustee, partner, director or person performing similar functions.

(j) "Mine" shall mean a single facility or related group of facilities for the extraction of Subject Coal. Whether a facility or group of facilities constitutes one or more than one Mine shall be determined in accordance with the customary practices of the Grantees and shall be approved, provided, however, that the facilities included in such Developed Subject Interest described or referred to in Appendix II to the WIR Report shall constitute a single Mine.

(k) "Mine Expenditure" shall mean an increase, other than an increase described or referred to in Appendix I to the WIR Report, in the number, equipment or other facilities comprising a Mine to the extent that the same results in an increase in the Rated Mine Capacity of such Mine.

(l) "The Mine Reserve" with respect to any Developed Subject Interest shall mean the green Income attributable to Subject Coal produced from such Developed Subject Interest
less (1) all wages, severance, mining, occupation, sales and similar taxes payable to any state or political subdivision thereof to the extent that the same are attributable to the interest of the
Greater in such Subject Coal and (2) the (a) Aguadilla production relating thereto and (b) mining, royalty, transportation, processing, depreciation (on a 15-year straight line basis), division overhead, transportation (to the extent that the cost thereof is includible in the computation of gross revenue), selling general administrative overhead (not to exceed $2,000 per ton) and all other operating costs, charges and expenses directly related to the production of such Subject Coal from such Developed Subject Interest, but exclusive of exploration costs and taxes in the nature of assessable costs. Division overhead, general administrative overhead, operating costs and the allocation of all interest and similar taxes shall be determined in accordance with the provisions of the Greater in effect during the year 1926 consistently applied. Division overhead and general administrative overhead shall be limited to that portion of such overhead properly attributable to the production and sale of Subject Coal. Any taxes or other charges are expenses properly includible in the computation of Net Mine Revenue in any calendar month which are not included in the Application Report covering such calendar month because of their not being readily accountable at the time of delivery of such Output shall be credited forward to the next calendar month and included in the computation of Net Mine Revenue therein. If during any calendar month these amounts shall exceed 25% of the Subject Coal produced from Developed Subject Interest which in the aggregate produced, the greater part of the Subject Coal produced from all Developed Subject Interests during the preceding calendar year, and if any taxes or other charges and expenses incurred during such calendar month and properly includable in the computation of Net Mine Revenue attributable to such Developed Subject Interest included by such form owners shall exceed the output revenue attributable to subject Coal produced from such Developed Subject Interest in such calendar month, then such excess shall be disregarded in the computation of Net Mine Revenue attributable to Subject Coal produced from such Developed Subject Interest in any calendar month. Subject to the
provisions of the preceding subclause, in the event that any lease or easement, drainage and expression property included in the new area of the Net Mine Revenue attributable to Subject Coal produced from any Developed Subject Interest in any calendar month shall exceed the Fixed Income attributable to Subject Coal produced from each Developed Subject Interest in such calendar month, such excess shall be carried forward to the next calendar month and included in the computation of Net Mine Revenue attributable to Subject Coal produced from each Developed Subject Interest in such next calendar month.

(i) "Net Mine" shall mean any Mine not located in one of the Developed Subject Interests described as referred to in Appendix II to the War Report.

(ii) An "officer's certificate" shall mean a certificate signed by the President or a Vice President of the Grantee and delivered to the Grantee, an officer's certificate must be under oath and notarize in the corporate seal of the Grantee, not shall include (1) a statement that the person making such certificate has read the provisions of this Agreement relating to the subject matter of such certificate, (2) a brief statement in the nature and scope of the examination or investigation which the statements contained in such certificate are based, (3) a statement that, in the opinion of such person, he has made such examination or investigation as is necessary to enable him to express an informed opinion as to the matters called for by such provisions and (4) the statements required by such provisions.

(iii) "person" shall mean an individual, corporation, partnership, trust, unincorporated organization or government, including the United States, any state, municipality or local authority, or any political subdivision, agency or department thereof.

(iv) "Net Mine Capacity" for any Mine in any year shall mean the total tons of Subject Coal which such Mine is capable of producing and processing in such year, determined as follows: (1) for all Mines located in the Developed Subject Interests described as referred to in Appendix I to the War Report, the current Net Mine Capacity shall be as shown in said Report; (2) for each New-Mine and each Mine affected by a
Mississippi: The annual yield of coal capacity shall be determined by the Governor and shall be set forth in an official certificate subscribed to by the Governor within six months after the commencement of production from each new mine or the completion of each mine expansion, as the case may be. Each such official certificate shall also set forth a reasonable summary of the details of the total recoverable coal located in connection with each new mine or mine expansion.

(5) "Subject to" shall mean and include all coal measured and in place now owned by the Grantee and surveyed by the Surveyor, and all coal which may be produced from and all coal which shall sooner or be attributable to the Subject Interest, from and after the Effective Date and throughout the period specified in Section 1.2.

(6) "Subject Interest" shall mean all of the properties, interests and rights described in Subsection A to C inclusive, at Option E. Except as otherwise provided above in paragraph (2) with respect to the Developed Subject Interest referred to in Appendix E to the Title Report, each "Subject Interest," shall remain all of such properties, interests and rights as may be determined by the Grantee in accordance with its customary practices consistently applied. The term "Subject Interest" shall include also (a) said properties, interests and rights as the same shall be constituted from time to time after the issuance and delivery of this conveyance, and as enlarged by the discharge of any payments out of production or by the conveyance of any lease, transfer or assignment in which any of said properties, interests or rights are subject, or otherwise (b) any and all payments and extensions of any and all properties, interests or rights, (c) all contracts and agreements supplementary to or in substitution for the contracts and agreements described in Section 2 of Section 1.1 farther as the same relates to any Subject Interest and (d) any and all leases or licenses entered into in any federal prospecting permits described or referred to in Subsection A. For the purpose herein, "a new Coal" mineral, mining or otherwise supplied by the Grantee prior to or within 180 days after the termination or expiration of any Coal, included, included or otherwise do
method of reference to Exhibit A and which covers all or any part of the Subject Interests severally by such instrument or expired lease shall, to the extent it covers such property, be considered a renewal and extension of such terminated or expired lease.

(c) "Undeveloped Subject Interest" shall mean any Subject Interest which, on the date of determination, is neither a Developed Subject Interest nor a royalty interest.

(e) "Well Report" shall mean the engineering report (including Appendices I, II, III and IV thereof) dated March 25, 1958, as amended by Supplement No. 1 thereto dated July 8, 1959, prepared by Paul Weir Company, Incorporated, with respect to the Subject Interests, copies of which are in the possession of the Grantee, the Grantee and the Federation Petroleum Corporation.

(5) The following terms shall have the following respective meanings:

(a) "Assessing Month", the meaning stated in Section 1.3;

(b) "Application Report", the meaning stated in Section 1.3;

(c) "Assignee Appraiser", the meaning stated in Section 1.3;

(d) "Cost of Production Payment", the meaning stated in Section 1.3;

(e) "Contingent", the meaning stated in Section 1.3;

(f) "Contingent Payments", the meaning stated in Section 1.3;

(g) "Initial Cost of Production Payment Percentage", the meaning stated in Section 1.3;

(h) "Paying Quantity", the meaning stated in Section 1.3;

(i) "Primary Zone", the meaning stated in Section 1.3;

(j) "A 75/25% Portion of the Primary Zone" and "A 65/35% Portion of the Primary Zone", the meanings stated in Section 1.3;
PART I

Conveyance of Coal Properties and Reversion of Production Rights

ARTICLE FIRST

Conveyance and Reservation

Sec. 1. Conveyance and Reservation. The Grantor for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, by these present deeds, effective as of the Effective Date, grant, bargain, sale, convey, assign, transfer, set over and deliver unto the Grantee, its successors and assigns, the following:

A. The fee estates, Coal and Coal values, the mining rights, privileges and easements granted or acquired with or related to such estates, the leasehold estates and all rights, privileges and easements included or granted therewith and the mining, working, royalties, production payments, and other matters, all of which are described or referred to in Exhibit A; subject, however, to the restrictions, reservations, conditions, easements, immunities and other matters, if any, set forth or referred to in Exhibit A;
B. All of the Grantee's right, title and interest in, to and under, or derived from, all of the presently existing contracts and agreements for the sale, purchase, lease or exchange of coal or coal mining rights, and all other contracts, agreements, respecting permits and instruments which are described or referred to in Exhibit A or which relate in any way to any of the properties and interests described or referred to in Exhibit A or to the production of coal from or belonging to said properties and interests; and

C. Without limiting the foregoing, all of the Grantee's right, title and interest (whether now owned or hereafter acquired by operation of law or otherwise) in and to the properties and interests described or referred to in Exhibit A, even though such properties and interests be hereafter or heretofore described in Exhibit A.

Expressly Reserving from the Grantee and reserving and retaining unto the Grantor, his successors and assigns, as a Production Payment:

The appraised or estimated value of all the Subject Coal determined as provided below in this Section under the heading "Initial Production Payment Percentage" (herein called the "Initial Production Payment Percentage"), as such percentage, is in the name of the Developed Subject Estates, may be adjusted from time to time as provided below in this Section (such Initial Production Payment Percentage, together with any adjustments thereto, being herein called the "Production Payment Percentage") subject, however, in the provisions of Sections 2.2 and 1.2. The Production Payment Percentage of the Subject Coal as expressly expressed, reserved and retained are herein sometimes called the "Production Payment". The Production Payment is subject, together with all other rights, title, interests, estates, easements, powers and privileges appurtenant or incident hereto enjoyed and retained by the Grantor under this Agreement are herein sometimes called the "Production Payment".

The Gross Production Payment, as incurred, reserved and retained in this Agreement, shall subsist as interests in said property excepted, reserved and retained from the Subject Estates.
Initial Production Payment Percentages

1. The Initial Production Payment Percentages for Subject Coal shall be as calculated by dividing the average annual revenue per ton for each Subject Coal at the Mine from which the same shall have been produced during the last calendar month in which there shall have been production prior to the date of determination into 80 and multiplying the resulting decimal into a percentage, provided, however, that at no time shall the Initial Production Payment Percentage for any Developed Subject Interest exceed 50%.

2. The Initial Production Payment Percentages for Subject Coal or raising or attributable to each Undeveloped Subject Interest shall be as calculated 50% each time as such Undeveloped Subject Interest becomes a Developed Subject Interest.

3. The Initial Production Payment Percentages for Subject Coal or raising or attributable to each Undeveloped Subject Interest which is a security interest shall be 100% of such security interest after deducting any expenses payable to third parties with respect to such Subject Coal and any ad valorem, severance, mining, occupation, gathering, excess rental and similar terms attributable to the interest of the fencee in each Subject Coal.

Evaluation Against Percentages
Not Entitled Subject Interests

(a) The Production Payment Percentages for Subject Coal or raising or attributable to each Developed Subject Interest shall, commencing with November 1, 1960, be automatically adjusted upon the Initial Production Payment Percentage applicable thereto to such percentage as will result in the receipt by the创者 of 85% of the Net Mine Revenue attributable to Subject Coal produced from each Developed Subject Interest in the calendar month in which such adjustment occurs and, subject to the provisions of paragraph...
(a) below, a similar adjustment from each Initial Production Payment Percentage shall take place with respect to each subset Coal on the first day of each succeeding calendar month.

(b) If, however, as of the start of business on any date specified in the table below the unreported balance of the Primary Coal shall be greater than the amount specified opposite such date:

<table>
<thead>
<tr>
<th>Date</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 1, 1969</td>
<td>$400,800,000</td>
</tr>
<tr>
<td>July 1, 1969</td>
<td>$287,000,000</td>
</tr>
<tr>
<td>Jan 1, 1970</td>
<td>$310,000,000</td>
</tr>
<tr>
<td>July 1, 1970</td>
<td>$200,000,000</td>
</tr>
</tbody>
</table>

Thus, all Production Payments Percentages for the Initial Production Payment Percentage for each

1.57 percent
book, implements, utensils, mining machines, leading machines, power shovels, draglines, derricks, trucks and other machinery and equipment, engines, water lines, gas lines, substations, transformers, yards, power lines, telephones and telegraph lines, roads and other appurtenances, all such property, improvements, easements, roads, fences, servitudes, rights of way and other rights or interests being herein called the "Leased Property.".

To have and to hold the premises, rights, titles, interests, mines, power, premises, privileges and appurtenances heretofore granted, here-inafter sold, conveyed, assigned, transferred, set over and delivered as aforesaid unto the Grantee, its successors and assigns forever answering and meaning as aforesaid.


All the provisions of the Conveyance shall be subject to the following:

A. Unless the context otherwise requires, the words "Subject Coal" and "Production Payment Coal" shall be deemed to include the proceeds of such Coal, without any deduction for amount of any costs, expenses or expenses.

B. For the discharge of the General Production Payment the Grantee shall look exclusively to the Production Payment Coal and the Grantee shall not be liable for any liabilities.

C. The General Production Payment shall not be discharge-able out of any proceeds resulting from any manufacturing or processing operation, except to the extent of the portion of such proceeds the value of which represents the General Interest attributable to the Subject Coal.

D. The General Production Payment shall not be discharge-able out of any bonus which the Grantee shall receive for any lessee, sublease or subgrant of any of the Subject Interests.

E. There shall not be excluded to the Production Payment Coal any Coal lost in the mining or the present mining incident to mining thereof or mined from any Subject Interest and used by the Grantee in conformity with good industry practices for mining or present mining operations conducted for the purpose of,
Paragraph 3: Subject to the provisions of paragraph (1) below, the total Production Payment shall not be reimbursable out of any Subject Coal mined from any New Mine or Mine Expansion prior to 12:01 A.M. local time, on the first day of the calendar month next occurring the calendar month in which the aggregate amount of the Net Mine Revenues, plus depreciation, attributable to Subject Coal produced from each New Mine or Mine Expansion, as the case may be, shall equal the Incremental Costs which shall have been incurred by the Grantee in installing each New Mine or Mine Expansion. In the event that any Mine which is the subject of a Mine Expansion is also producing or capable of producing Subject Coal from facilities other than such Mine Expansion, Subject Coal shall be deemed to be produced from such Mine Expansion in any year only after, and to the extent that, the total quantity of Subject Coal produced from such Mine in such year exceeds the Rated Annual Capacity of such Mine as purported prior to such Mine Expansion. “Incremental Costs” shall include only the actual cost to the Grantee of labor, transportation, other services, materials, equipment and supplies (including a reasonable allocation for division overhead and general administrative overhead), and all amounts paid to independent contractors or owners, to the extent such costs are attributable to the designing, installing, completing and equipping of a New Mine or a Mine Expansion for the production of Subject Coal, but Incremental Costs shall not include any costs incurred in connection with maintaining such New Mine or Mine Expansion, or any other costs, to be taken into account in computing Net Mine Revenues or any interest, franchise, depreciation or depletion charges or other indirect costs.

(2) Notwithstanding the provisions of paragraph (1) above, if the unallocated balance of the Primary Component of the Coal Production Payment has not been paid to the Grantee as specified in the tabulation in Section 1, the respective interests specified applicable each date the provisions of paragraph (1) above shall cease to apply, commencing with Subject Coal mined from all New Mines and Mine Expansions on each third con-
receive data until any data set forth above is Section 1.1 subsequent to such occasion as of which the unclassified balance of the Primary Item shall be equal to or less than the amount specified opposite each date, whereupon the provisions of paragraph (1) above shall again become applicable, subject however, to being resumed again in the same manner as provided in this paragraph (2).

O. So long as and to the extent that the name may be required by applicable law or regulation, the Production Payment Percentage applicable to any federal real base (including any federal real base issued pursuant to a federal real lease) or by reason of or pursuant to the NPS, the leased land shall not exceed any maximum percentages which may be expressly determined by the Department of the Interior as it shall be determined in respect of such base under such laws or regulations.

Section 1.2. Amount, Form and Frequency of Payment. The amount of the Production Payment shall consist of a sum of money and be paid from time to time the amount shall have been remitted and remitted, out of the Production Payment Credit, the full aggregate sum of the amount referred to below in Subsections A, B, C, D, E of this Section 1.2, as increased as in the circumstances provided, fees and charges of all kind, charges and expenses of every kind whatsoever:

A. $1,000,000.00 (hereinafter called the "Primary Item", $2,500,000.00 of which is hereinafter called the "8.625% Portion of the Primary Item", and $950,000.00 of which is hereinafter called the "8.75% Portion of the Primary Item")

B. The sum of (1) an amount computed from September 15, 1966 at the rate of 8.625% per annum on the unclassified balance of the 8.625% Portion of the Primary Item and (2) an amount computed from September 15, 1966 at the rate of 8.75% per annum on the unclassified balance of the 8.75% Portion of the Primary Item computed as such one on the basis of the actual number of days in each year,

(1) the first such computation to be made on December 15, 1966 for the period commencing with and including September
10

13. 1881, up to and including December 1, 1872, on the amount of said accumulated balances on September 12, 1872, and
(2) subsequent payments to be made monthly on the
First day of each Accounting Month for the preceding Accounting Month, on the amount of said accumulated balances on
the first day of each preceding Accounting Month.

D. An amount equal to the aggregate of all amounts which
are paid or payable by any assignee (or his assignee or
assigns) of the trustee (in any state or political subdivision
thereof) to any creditor, including, but not limited to:
gathering, sales, gross receipts, expenses, business, profit or
other income and investments of any kind whatsoever, subject
and interest, recovery or demand with respect to any
claimed or alleged equity or attributable to the Central
Production Payment, the proceeds of the Production Payment,
the proceeds or any part thereof, sold or otherwise disposed
of as a whole or in part of the Central Production Payment, and
any indebtedness incurred in connection with the obligation or ownership of the Central Production Payment or any part thereof, which have neither
been taken from the proceeds of the Production Payment
nor paid by the amount of such assignee (or its assignee or
assigns) nor been paid by the assignee as required by Sub-
citation 12 of Section 8A, together with an amount equal to
interest thereon at the rate of 5% per annum from the date
of payment.

E. An amount equal to the aggregate of all reasonable
expenses (including all recording fees, documentary stamp
taxes, other transfer taxes and all fees and expenses of record
for any lessee, independent public accountant and other
independent appraiser) of any assignee (or its assignees or
assigns) of the trustee (in any state or political subdivision
thereof) to any creditor, including, but not limited to:
gathering, sales, gross receipts, expenses, business, profit or
other income and investments of any kind whatsoever, subject
and interest, recovery or demand with respect to any
claimed or alleged equity or attributable to the Central
Production Payment, the proceeds of the Production Payment,
the proceeds or any part thereof, sold or otherwise disposed
of as a whole or in part of the Central Production Payment, and
any indebtedness incurred in connection with the obligation or ownership of the Central Production Payment or any part thereof, which have neither
been taken from the proceeds of the Production Payment
nor paid by the amount of such assignee (or its assignee or
assigns) nor been paid by the assignee as required by Sub-
citation 12 of Section 8A, together with an amount equal to
interest thereon at the rate of 5% per annum from the date
of payment.
documents related thereto, the obtaining of any lease or the sale
of any mines secured thereby (including any assignment fees
payable in connection therewith), the receipt and disburse-
ment of money on account of any such lease or mine and the
extent (through litigation or otherwise), release or discharge of
any adverse claim or demand made by any person afflicting, in
any manner whatsoever, the Goods and Production Purpose or
the Production Payment Goal, which shall have been paid or li-
quidated by such assignees (or its successors or assigns), togeth-
er with any accounts payable in interest thereon at the rate of 5% per annum
from the date of payment; provided, however, that the aggregate
amount (exclusive of interest equal to interest) which all such
assignees (and their successors and assigns) shall be entitled to
receive an amount of all such expenses (other than expenses in
connection with the contract, release or discharge of any such adverse claim or demand) during the entire term of the Goods and
Production Payment shall not exceed $50,000,000, and

(2) An amount equal to all fees aggregating not in excess of
$500 per month which may be charged by or against on behalf of
creditors making any such lease or mine purchased, in defray the
interest, the assessment and bonding expenses of each assignee in
connection with the receipt and disbursement of money on
account of any such lease or mine.

or shall the assignees receive any other positive payment, the Greater shall be entitled to
receive and receive out of the Production Payment Goal the full
amount equal to the amount above referred to in Subsection A
and B of this Section. The other than all rents, charges and expenses
(other than those described and specified in Subsections C and D of
this Section) and not included in rents, charges and expenses
of the assignee and interest described and specified in Subsection C
and D of this Section.

All taxes imposed or assessed with respect to or attributable to the Production Payment Goal and
for which the Greater in Ohio may be debited from the proceeds of
Production Payment Goal shall be deducted out of the proceeds of Production Payment Goal received or realized by the Greater,
For all purposes of this Agreement the proceeds of Subject Coal actually received by the Grantee up to the close of business on December 3, 1908 shall be deemed to be proceeds of Production Payment Deal to the extent determined by the Grantee as provided below, and such proceeds shall be deemed to have been received and applied immediately after the opening of business on December 3, 1908. This limitation on the proceeds of Subject Coal actually received by the Grantee after the opening of business on the first day of each Accounting Month up to the close of business on the last day of such Accounting Month shall be deemed to be proceeds of Production Payment Deal to an extent determined by the Grantee as provided below and such proceeds shall be deemed to have been received and applied immediately after the opening of business on the first day of the next succeeding Accounting Month.

The term "Accounting Month" shall mean any period commencing with and including the 1st day of any calendar month and ending on and including the last day of the next succeeding calendar month; provided, however, that if either the 1st or the last day of any calendar month shall be a Saturday, Sunday or legal holiday under the laws of New York, the Accounting Month normally ending on such calendar month shall end on and include the first of the next two consecutive business days following the last day of such calendar month and the next succeeding Accounting Month shall commence with and include the second of the next two consecutive business days following the last day of such calendar month (without delaying the end of such Accounting Month). For all purposes hereof, proceeds of Production Payment Deal shall be deemed to have been "actually received" by the Grantee when such proceeds shall have been received by it in collected funds.

The Grantee shall deliver to the Purchaser the portion of the proceeds of Subject Coal actually received by it to be deemed to be proceeds of Production Payment Deal on the basis of (i) the provisions of Section 1.2.1 and (ii) the report of the Purchaser referred to in Section 1.2.1 which shall be called an "Application Report" and submitted with proceeds of Production Payment Deal or within five calendar days thereof by the Grantee. If, however, no Application Report is received by the Grantee on or before the first day of the next succeeding Accounting Month after the date of any date of application specified above (herein called a "Regular Application Date") the Grantee shall not have
received an Application Report for the telegraphic remittance (herein as referred to) covering proceeds of Production Payment Goal to be Served and applied on such Regular Application Rate. all proceeds of such Goal then in the possession of the Greater and not covered by an existing Application Report shall be deemed received and applied on such date as the proceeds of Production Payment Goal.

When such proceeds of Production Payment Goal shall have been so deemed to have been received and applied, any remaining proceeds of the said Goal or in the possession of the Greater specifically identified as such by an existing Application Report shall be forthwith turned over by the Greater to the Greater.

Proceeds of Production Payment Goal shall be deemed to have been applied on each Regular Application Rate as follows:

First, in the amount referred to in the foregoing Regulation 3 of this Section in whole up to (but not including) such date, and

Second, in the amount referred to in the foregoing Regulation 5 of this Section, to the extent then ascertainable, and

Third, in the amount referred to in the foregoing Regulation 3 of this Section, to the extent then ascertainable, and

Fourth, the remainder shall be applied,

(i) 100% to the reduction of the unliquidated balance of the 8 1/0% Portion of the Primary Sum until the Regulation thereof provided. However, if the 8 1/0% Portion of the Primary Sum shall have been completelyLiquidated or prior to March 28, 1974, thereafter such remainder shall be applied to the reduction of the unliquidated balance of the 8 1/0% Portion of the Primary Sum

(ii) after the liquidation of the 8 1/0% Portion of the Primary Sum, 50% to the reduction of the unliquidated balance of the 10 1/0% Portion of the Primary Sum provided, however, that in the event such proceeds so deemed applied on any such date shall be insufficient to cover the aggregate amount
referred to in the foregoing Clause B, such proceeds shall be deemed applied entirely, without preference or priority, to the 5 1/2% Portion of the Primary Sum or the 6 1/2% Portion of the Primary Sum over
the other, according to the respective amounts earned and accumulated under said Clause B in respect of each such Portion, and the
unliquidated balance of each such Portion shall be forthwith increased
by the amount of the retained deficiency; and provided, further, that
such increase shall not be payable from Subject Coal produced in any area where applicable law prohibits such payment.

When such full agreement as of the amounts referred to in the
foregoing Subsections A, E, C, and D of this Section (as increased
as in this Covenant provided) shall have been reached by the Guarantee
as aforesaid, the Gross Production Payment shall be fully discharged
provided, however, that the Gross Production Payment shall, in any
case, forthwith terminate whenever 22 years have elapsed after the
death of the survivor of the two (2) President of the United States of America,
who are living on the Effective Date. The Guarantee agrees that, upon
such discharge or termination, and upon receipt by it of satisfactory
Indemnification against loss by reason of the facts described in this
Section and of any realization of proceeds from the sale of the
Gross Production Coal as provided in Section 1B, it shall execute and
deliver, upon payment and at the expense of the Guarantor, such instru-
cements as may be necessary or appropriate to evidence the termination
of discharge of the Gross Production Payment.

Section 1A. Marketing and Selling of Coal. The Guarantor shall
use its diligent efforts to market the Gross Production Coal and, to
this end, shall negotiate and enter into all contracts for the sale of
Coal (whether Subject Coal or non-Subject Coal) in supplying Coal to
markets available both in wholesale and at wholesale and shall exercise utmost good faith to the Guarantor and shall not discriminate
against Subject Coal.

The Guarantor shall only perform all obligations hereunder, whether
or not the same or any other contracts in effect at any time, and any
contracts entered into by the Guarantor or any successor thereof,
which are in accordance with the provisions of this Section (said contracts and
agreements being hereinafter called the "Production Sales Contracts") in accordance with the terms thereof and shall take all appropriate measures to enforce the performance under such Production Sales Contract of the obligations in the Grandin or the other party thereto, provided, however, that nothing contained herein shall prevent the Grandin, in good faith, from changing or agreeing to change any provision of any such Production Sales Contract at any time or from time to time. The Production Payment Coals, as issued, shall be delivered by the Grandin to the purchaser thereof for the benefit of the Grandin, free and clear of all costs, charges and expenses, at such price or prices as is reasonably required for the marketing thereof, provided, however, that any proceeds from the resale of Production Payment Coals in excess of the three percent hereinafter referred to shall belong to the Grandin.

Subject to the rights of the Grandin set forth in the next preceding paragraph of this Section, the Grandin shall make the Production Payment Coals, on behalf and for the account of the Grandin, in payment for the Selling Price of the Grandin under the applicable Sales Contract of the Grandin to the purchaser of the Grandin and to any grantees or assignees thereof, on the same basis on which the Grandin markets its shares of the Grandin's best coal but never for less than the best prices obtainable under the circumstances when marketed, or in the case of sales pursuant to the provisions of the Sales Contract, the actual prices payable thereunder. The Grandin shall be entitled to purchase Production Payment Coals, or its affiliates, only at prices which are not less than the best prices obtainable under the circumstances from third persons who are not the affiliates (which shall not be less than the prices at which the Grandin charges such third persons for sales of the quantities of Grandin coal of the grade and quality under the same or similar conditions from the same mine or mining plant). If the Grandin shall use Production Payment Coals for any purpose other than as provided in Subsection 2 of Section 1B, it shall be entitled to have purchased the Production Payment Coals used in the event that the Grandin shall purchase any Production Payment Coals, it shall pay to the Grandin on or before the last day of the calendar month next succeeding the calendar month in which such Production Payment Coals are purchased, the purchase price therefor at any rates thereof deducted and paid for the account of the Grandin, as provided in Section 1B.
Before time to time, upon the giving of at least 90 days' prior notice in writing to the Grantee, the Grantor shall be entitled at its election to take in kind the Initial Production Payment Per Centages of the Subject Coal mined from part or all of one or more Subject Interests, subject to the rights of purchasers under any then-existing Purchase or Option Contracts; provided, however, that such election shall be 90 days prior to the date on which each Subject Interest is to be taken, each Mine or processing plant at which such taking will occur and the date of commencement of such taking (which shall be the first day of a calendar month), and each taking shall be for the period specified in such notice. The Grantor shall market such Coal on the market for the best prices obtainable under the circumstances when marketable or, in the case of sales pursuant to such Production Sales Contracts, at the market prices prevailing at the time of sale, and the proceeds from such sales shall be credited with the proceeds of any such sales to the extent such proceeds are deemed to be proceeds of Production Payment Coal as provided in Section 1.3 (taking into account the provisions of Section 1.1) in the same manner as if the Production Payment Coal had been marketed by the Grantee and the balance of the proceeds of any such sales shall be credited to the Grantee. In the event that the amount of Production Payment Coal to which the Grantee is entitled shall exceed the Initial Production Payment Per Centages of the Subject Coal as listed in this Paragraph, the Grantor shall promptly after the receipt of the proceeds attributable in book-keeping accounts, pay such proceeds to the Grantee and the Grantee shall be credited therewith. If the taking by the Grantor is prior to any additional expenses by reason of such taking, the Grantee shall continue to pay such additional expenses in the same manner and to the same extent as if there had been no such taking by the Grantee.

Section 1.4: Withholding and Retention of Proceeds of Production Payment Coal. If any of the proceeds from the sale of any of the Production Payment Coal shall be withheld by any person, the Grantee shall be entitled to receive in addition to the stated amount of the miles field upon any sale, any proceeds from the sale of any such Production Payment Coal and shall be credited therewith. In addition, the proceeds from the sale of such Production Payment Coal shall be paid to the Grantee within 30 days after the receipt thereof, together with any such additional expenses as are required by the Grantee.
Grants Production Payment specified in Section 12, the Grantee shall be entitled to any payments or restrictions, or each payment or restriction shall be made for the Grantee's account, or any payment or restriction so made by the Grantee shall be deemed to have been received and applied to the purposes of the Grantee as hereinafter stated. If any payment or restriction shall be made for the benefit of the Grantee, or for the benefit of any other person, the same shall be deemed to have been received and applied to the purposes of the Grantee, or for the benefit of any other person, unless and until any other person so entitled, shall have furnished to the Grantee a written statement of the amount of any payment or restriction, or any other person so entitled, shall have furnished to the Grantee a written statement of the amount of any payment or restriction, that the same shall be deemed to have been received and applied to the purposes of the Grantee, or for the benefit of any other person, unless and until any other person so entitled, shall have furnished to the Grantee a written statement of the amount of any payment or restriction.

ARTICLE SECOND

PRODUCTION OF PRODUCTIONS

Section 21. Payment in Grantee. In the event of any written notice to the contrary from both the Grantee and the Grantee shall be entitled to any payments or restrictions, or each payment or restriction shall be made for the Grantee's account, or any payment or restriction so made by the Grantee shall be deemed to have been received and applied to the purposes of the Grantee as hereinafter stated. If any payment or restriction shall be made for the benefit of the Grantee, or for the benefit of any other person, the same shall be deemed to have been received and applied to the purposes of the Grantee, or for the benefit of any other person, unless and until any other person so entitled, shall have furnished to the Grantee a written statement of the amount of any payment or restriction, or any other person so entitled, shall have furnished to the Grantee a written statement of the amount of any payment or restriction.

Section 22. Notice. No person purchasing or taking any production shall be required to take notice of, or keep informed as to, the discharges or terminations of the Grant Production Payment, or the notice receipt by each person of written notice from the Grantee as to, the discharge of such person of such discharges or terminations.
ARTICLE Third

Corrections or new Observations

The Oaths are hereby omitted as follows:

Section 8.2. Good Faith. In concerning all rights, ends and performing all obligations, granted or imposed by this Agreement, the Grantee shall exercise the greatest good faith in the Grantee and shall not discriminate against Production Payment Code.

Section 8.2. Operations of Subject Interests. As long as the General Production Payment shall remain in force and effect (but subject to the provisions of Section 8.3), the Grantee shall, at its own cost and expense and irrespective of who may be the operator of the Subject Interests, cause

A. the Subject Interests to be maintained, and the Developed Subject Interests to be operated, improved and utilized for the production of Coal, all in a good andworkable manner and in accordance with (1) standard mining practices (including, but not by way of limitation, security of all applicable indispensable and pumping operations and of those practices as may be required for surface and lateral support and the protection of surface areas), (2) all applicable contracts and other agreements and (3) all applicable local, state and federal laws, rules and regulations (except those which are being contested in good faith), in the end that each Mine as new or hereafter located on any Developed Subject Interest shall produce and continue to produce Subject Coal to the extent of its capacity and the probable market for such Coal;

B. to be carried out (without in any manner limiting the matters mentioned in the foregoing Subsection A) the development program contemplated in Appendices 1 and 3 to the Final Report subject, however, to any delays occasioned by force majeure;

C. all to be done that, according to generally accepted practices of prudent operators in the industry, may be appropriate to maintain and protect from diminution the quantity of Subject Coal recoverable from the Subject Interests and from each Mine located thereon.
(1) written notice to be given to the Grantee of every adverse claim or demand made by any person which may have a material adverse effect upon the Subject Interests or the Subject Contract or its proceeds thereof, or of any proceeding instituted with respect thereto, and all necessary and proper steps to be diligently taken at the expense of the Grantee to protest and defend the Subject Interests and the Subject Contract, and the proceeds thereof against any adverse claim or demand, including, but not limited to, the employment or use of counsel for the prosecution or defense of litigation and the contest, verdict, execution, refusal or discharge of any such claim or demand;

(2) all advance taxes (or taxes imposed in lieu thereof) and all assessments, including condemnation, gathering, sales and other transfers and assessments of any kind whatsoever (other than taxes or assessments levied by the grantee in the course of operation of any or all of the business or properties of the Grantee and other than franchise taxes on the grantee) imposed or assessed with respect to or measured by or charged against or attributable to the Subject Interests or the Royal Production Payment or the Subject Contract or against the Grantee by reason of its ownership of the Royal Production Payment or against any encumbrances of the Royal Production Payment by reason of his or her mortgage hereunder, to be rendered and paid as and when the same becomes delinquent or, as to any thereof which are being assessed in good faith, promptly after the final determination of such amount, together with any interest and precentum payable in connection therewith;

(3) the properties, interests and rights referred to in Section 1.1 to be delivered and, and kept free and clear, of all liens and incumbrances of title, and lines, charges and encumbrances of every character, whether in existence on the Effective Date or thereafter arising, other than (1) taxes and assessments paid, (2) defects or incumbrances of title as hereafter described, or (3) other liens, charges or encumbrances which do not interfere materially with the operation, value or use of any Subject Interest, or materially affect title thereto, (4) Production Sales Contracts,
(a) that being assented to in good faith by both during the
pursuance of such matter, and (b) these串联都 is in writing
by the Grantee.

Notwithstanding any provision of the Grantee in this Section 6A
in the contrary, the Grantee, with respect to those Subject Interests
which are operated by operators other than the Grantee, shall not be
obligated to perform undertakings performed by such operators and
which are beyond the control of the Grantee; provided, however, that
the Grantee will promptly take all such action legally available to it
to enforce or assure the performance of any such undertakings by
such operators.

Section 6A, Sale and Lease of Subject Interests and Right-of-Ways
of Grantee. As long as the Gross Production Payments shall remain
in force and effect, the Grantee shall not, without the consent of the
Grantee, sell or lease any Subject Interest (or portion thereof) or
shall draw any Mine, except as set forth below:

A. No less than the unadjusted balance of the Primary Fines
as of the date of such sale or lease to any date specified in
the limitation in Section 6A shall be equal to or less than the
amount specified opposite each date, the Grantee, without such
consent, may sell or lease:

(1) less than the Gross Production Payments, Subject Interests
(excluding leases) constituting not more than $9,000,000
of earned Subject Coal in each purchase or lease in
such calendar year in the ordinary course of business of the
Grantee, and

(2) Subject Interests (excluding leases) constituting
more than $9,000,000 of earned Subject Coal to each
independent purchaser or lessee in a single calendar year in
the ordinary course of business of the Grantee if the sale
or lease is a standard royalty interest which continues as a
Subject Interest.

As used in Sections A and B of this Section 6A, the words "pur-
chase" or "lease" shall be deemed to include all Affiliates of a
purchaser or lessee.
B. So long as the adjusted balance of the Primary Bonus as of the date of business or any date specified in the schedule in Section 1.1 shall be greater than the amount specified against such date, the Grantee, without such consent, may sell or lease:

(1) Free of the Capital Production Payments, Subject Interests (or portions thereof), excluding all more than 10,000 tons of named Subject Coal in each purchase of leases in a single calendar year in the ordinary course of business of the Grantee, provided:

(2) Subject Interests (or portions thereof), including not more than 10,000 tons of named Subject Coal in each independent purchase or lease in a single calendar year in the ordinary course of business of the Grantee if the sale or transfer is made by the Grantee for such sale or lease is a related party interest which continues as a Subject Interest.

G. Purchasers and lessees of Subject Interests (or portions thereof) retaining named Subject Coal and so leased by the Grantee pursuant to Subsection A and B of this Section 1.1 shall be fully protected in relying on a representation by the Grantee that such coal or lessee are made in the ordinary course of business of the Grantee and that the adjusted balances of the Primary Bonus as of the date of business or prior to any date specified in the schedule in Section 1.1 is equal to or less than the amount specified against such date; provided, however, that the Grantee shall be relieved of its liability to the Grantee for damages or other equitable remedies as a result of any breach of the provisions of said Subsections A and B. Further, nothing in said Subsections A and B shall permit the Grantee, without the prior written consent of the Grantee (1) to sell any payments out of production or other non-royalty interests or mine created part of the Subject Interests, or (2) to sell or lease interests in the Subject Interests (or portions thereof) (either by the Grantee in substitution for sales to such customers of named Subject Coal, any determinations, as to the applicability of said Subsections A or said Subsection B shall be made on the date existing on the date of such sale or lease permitted, however, that if a sale or lease permitted by said subsections.
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outside of being mixed in Paying Quantities. For all purposes of this Guarantee, a Mine shall be deemed to be capable of
being treated in "Paying Quantities" until both (1) a condition
not of temporary nature shall exist whereby the monthly Gross
Income from the sale of Subject Coal produced from each Mine (exclusive of Gross Income attributable to Production Pay-
ment Duty) as being assessed the monthly Gross Income to be taken into
account in computing Royalties, Revenue with respect to such
Subject Coal and which would not be increased should production
of Subject Coal from such Mine be discontinued and (2) in the
light of conditions existing at the time of the determination and
which are not of a temporary nature, the Guarantee has reasonably
determined that the aggregate future Gross Income from the
sale of Subject Coal to be produced from such Mine (exclusive
of Gross Income attributable to Production Payment Duty) will
be less than the aggregate future costs to be taken into account
in computing Royalties, Revenue with respect to such Subject
Coal and which would not be increased should production
of Subject Coal from such Mine be discontinued. Whenever the
Guarantor has determined that any Mine is incapable of
being treated in Paying Quantities, the Guarantor shall promptly
defend an action to ascertain the Guarantor's liability in
accordance with the facts and conditions which form the basis
for such determination.

6. The Guarantor shall have the right, without such notice,
to suspend temporarily any Mine based on any Developed
Subject Interest (or portion thereof) during the continuance of
any of the following conditions:

(a) so long as the unsecured balance of the Priority
Sum of the debt of the Company on or prior to any date
specified in the indenture in Section 7.1 shall be equal to or
less than the amount specified opposite each date,
(b) so long as the production of Subject Coal from such
Mine shall be less than the approximate amount of the
income which, absent such shutdown, would have been
produced from the Mine temporarily shut down,
(c) so long as a condition of a temporary nature shall
exist whereby the monthly Gross Income from the sale of

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Subject Coal to be produced from such Mine (including costs, losses attributable to Production Paymark Coal) will be less than the royalty rates to be taken into account in computing Net Mine Revenue with respect to such Stripped Coal and which would not be less, when should production of Subject Coal from such Mine be discontinued, or

(4) so long as, and in the event that, from a mine shall prevent the production of Subject Coal from such Mine.

During the period that any such Mine shall be temporarily shut down, the Grantee shall maintain such Mine and all machinery, equipment, buildings and facilities necessary or useful in connection with the operation of such Mine in accordance with prudent practices in the Industry under similar circumstances. For the purpose of this Concession, the term "concessions" shall mean acts of God, acts of the public enemy, intrusions, riots, strikes, boycotts, wars, rebellions, epidemics, quarrels, combinations, breakdown of or damage to machinery, equipment, buildings or facilities, freight embargoes, transportation failures, power failures, arrest or seizure of tools or military personnel, and other similar causes beyond the control of the Grantee which wholly or partially prevent the mining of Subject Coal, or the mining, transporting or delivering of Subject Coal by the carrier thereof. Provided, however, that the Grantee shall use all reasonable efforts to minimize the effect of such "concessions" as possible with all reasonable dispatch.

Section 3. Costs as Against Developed Subject Interests. - In the event that any default or irregularity of title, or any loss, damage or annoyance, whether arising on the Effective Date or thereafter, shall have interfered with or shall interfere with the production of Coal attributable to any Developed Subject Interests referred to in Appendix II to the War Report, or attributable to any existing Developed Subject Interests, any material part of the production of Coal from which has expired the production of Coal from a Developed Subject Interest referred to in said Appendix II, the Grantee shall operate and mine the affected Developed Subject Interest in such manner as to overcome all purposes the effect of such interferences, including such effect upon the royalty which
Coal would, but for such interference, be produced from each Developed Subject Interest and the quantity of Coal to be mined therefrom. If the Grantee shall be unable by the exercise of all reasonable efforts to overcome the effect of such interference upon the affected Developed Subject Interest, then the Grantee shall complete each New Mine and/or Mine Expansion so as may be necessary to overcome the effect of such interference, giving due regard to the acts at which Coal would have been mined from the affected Developed Subject Interest and the quantity, quality and value of the Coal to be mined therefrom, in discharging the obligations under this Section 6 & to construct and/or expand the New Mine and/or Mine Expansion, the Grantee shall be entitled to credit against the Coal equivalent to such interference and/or the cost of Coal which may be produced after the date of such interference from New Mine and/or Mine Expansion (whether or not completed prior to or after the date of such interference) located on Developed Subject Interests which are not expansions, in the event provided above, the Developed Subject Interests referred to in Appendix II to the Work Report. If any New Mine or Mine Expansion shall be required by the provisions of this Section 6, the arrangement provisions of such section F of Section 6 shall not apply to that portion of the Subject Coal produced from such New Mine or Mine Expansion, which is required to overcome the effect of such interference.

Prior to the occurrence of any interference referred to above (in promptness thereof if the Grantee shall be aware of such interference prior to the occurrence thereof), the Grantee shall forward the Grantee with a written notice specifying in reasonable detail the facts relating to such interference, the Developed Subject Interest affected thereby, the Grantee’s analysis of the effect thereof and any proposed actions to be taken to overcome such effect. From time to time after the occurrence of any such interference the Grantee may request, and the Grantee shall furnish, such notice or written notice forth to reasonable detail any action taken or being taken to overcome the effect of such interference, including any New Mine or Mine Expansion required or expected to be completed or a result thereof, the extent to which such action has been successful in overcoming such effect, and an estimate of the remaining duration and extent of such interference. In the event that any interference referred to above shall reasonably appear to have a material effect on the production of Coal attributable to any Developed Subject Interest referred to above, the Grantee shall
be entitled to request an investigation and report by an independent engineer of its claims with respect to the effect of such interference and the adequacy of any action proposed or taken by the Grantee to overcome the effect of such interference.

Section 22. Reports to Grantee. So long as the Council Produces Payment shall remain in force and effect, the Grantee will at its own expense furnish to the Grantee, in such number of copies as the Grantee may reasonably request, the following:

A. Within 30 days after the close of each fiscal year of the Grantee, a report prepared by or for the Grantee and in Form and scope satisfactory to the Grantee consisting (1) the quantity of Subject Coal recoverable from the Developed Subject Interests, (2) the quantity of Subject Coal recoverable from the Undeveloped Subject Interests, (3) the quantity of Subject Coal recoverable from the Undeveloped Subject Interests, (4) the projected data upon which the Council Production Payment will be calculated, (5) the results taken down the Effective Date in compliance or attempted compliance with Subsection B of Section 8.2, (6) the amount of any Repeals Cassus previously reported in an effect anticipation which remain outstanding in respect of any New Mine or Mine Established as of the close of such fiscal year, as well as the Grantee's estimate of the date on which such amount in respect of any New Mine will have been fully repaid by it and (6) the Grantee's estimate of Subject Coal to be produced during the next fiscal year of the Grantee in which each report is dated.

B. Upon receipt of the Grantee, but not more than three months after the year of occurrence, all such information and reports as are necessary to complete the forms, statements, schedules and other papers required by, and to meet the requirements and satisfy the conditions of, the Committee on Valuation of Specificity of the National Association of Insurance Commissioners, or any governmental authorities having regulatory functions affecting health, insurance companies or mutual funds.

C. Within 30 days after the end of each quarter of the period (based upon the fiscal year of the Grantee), a report showing for each quarter of the period with respect to each area of the Developed Subject Interests, the amount of Subject Coal produced during such quarterly period, the
quantities of Subject Coal from which such Gross Income was derived, the taxes deducted from or paid out of such Gross Income, the proceeds of Production Payment Cost recovered by the Greater out of such Gross Income, the aggregate Net Mine Revenues attributable to all Developed Subject Interests during such quarter-year period (including a reasonable allocation of the costs taken into account in computing such aggregate Net Mine Revenues), the losses immediately after the foregoing period, any Net Mine or Mine Revenues from which production of Coal has ceased during such quarter-year period and such other information prepared by or for the Greater in the ordinary course of the business as the Greater may reasonably request also within 90 days after the close of each calendar year of the fraction of the information required by this Section C prepared on a fiscal year basis.

b. Within 90 days after the end of each calendar month, but only after receipt of a written request (which may vary in any case from another) stating such request is for the exclusive use of the recipient to the extent provided in the last sentence of this Section B, a report showing with respect to each Developed Subject Interest and each Utilized Interest which is a royalty interest for each calendar month, the Subject Coal produced during such month, the Gross Receipts attributable thereto, all items of the character referred to in Section 2.1 imposed or assessed with respect to or against the Coal Production Payable by the Producing Payee Payee, the proceeds of Production Payment Cost recoverable by the Greater, and, if such Subject Interest is a Developed Subject Interest, the Net Mine Revenues attributable thereto (including a reasonable determination of the costs taken into account in computing such Net Mine Revenues).

c. On or before March 31st in each year, a report showing in reasonable detail with respect to each such interest and division of the Greater, the net realizable value of Subject Interests entered into by the Greater during the preceding calendar year in accordance with the provisions of Section 3.1.
P. Within 60 days after the close of each fiscal year of the Grantee, a certificate from the independent public accountant of the Grantee is to be filed with the Minister stating that the Grantee has been audited and the accounts relating to the subject interests have been examined and have been kept in accordance with generally accepted accounting principles and that the Grantee has completed its annual accounts of Production Payment Coal reserves by the Grantee for each fiscal year are accurate and in accordance with the provisions of this Conveyance.

Any information required or exempted made in accordance with the provisions of this Section 8.4 or Section 2.6 below which would not be available to the public through reports made by the Grantee or Contractor to its shareholders or reports filed by the Grantee or Contractor with governmental agencies, departments or agencies and available for public inspection shall be for the confidential use of the Grantee, the mortgagees or trustees named in any mortgage or deed of trust covering all or any part of the Coal Production Payment and the holders of such mortgagee or holders of any obligations secured by such mortgagee or deed of trust or any prospective holders of such mortgagee or holders of any obligations secured by such mortgagee or deed of trust in their respective capacities as such, subject, however, to the requirements of any regulatory authorities having jurisdiction over the Grantee, such mortgagees or trustees or such holders or prospective holders.

Section 8.5. Loans to Subject Interests. The Grantee will permit any one or more representatives designated by the Grantee at any reasonable time (1) to make such inspections of the Subject Interests and the Assigned Appurtenances as such representatives shall deem proper and (2) to examine, audit and make extracts from all books and records of the Grantee concerning the Subject Interests, the operation and development thereof, and the making of Coal therefrom.

ARTICLE FOURTH

Borrowers

The Grantee hereby conveys as follows:

Section 4.1. Borrowers. Should the Grantee fail to perform or observe any of the agreements, covenants or agreements provided in this Conveyance to be performed or observed
by the Grantee and such failure remains unremedied for more than 30 days after written demand for performance or observance is made of the Grantee by the Grantor, or should any obligation of the Grantee or of Continental Oil Company, a Delaware corporation (hereinafter called "Continental"), for the payment of invested money or the deferred purchase price of property not be paid at maturity, whether by mandatory or otherwise, or should Continental at any time cease to own 100% of each share of the issued and outstanding capital stock of the Grantee, or should the Grantee or Continental become insolvent or make an assignment for the benefit of creditors or be adjudicated a bankrupt or admit in writing its inability to pay its debts generally as the same become due, or should any proceedings be instituted by the Grantee or Continental under any state or federal law for relief of debtors or for the appointment of a receiver, trustee, or Liquidator of the Grantee or Continental or of any of the Subject Interests, or should a voluntary petition in bankruptcy or for receivership be filed or for an adjudication of the Grantee or Continental as an insolvent or a bankrupt be filed, or should a receiver, trustee, or other officer appointed by any court or any sheriff, constable, marshal or similar governmental officer under order of legal authority seize any substantial portion of the Subject Interests or of the Subject Debt and hold possession thereof for a period of 30 days, then, as long as any such event (hereinafter called "Financial Event") shall have occurred and be continuing, the Grantor, in addition to all other remedies available to it at law or in equity,

A. shall thereupon and thereafter have the succeeding right, privileges and options (but shall be under no duty):

1) to affect performance or observance, on behalf and at the expense of the Grantee, of such covenants, agreements or undertakings as have not been performed or observed by the Grantee, in which event the Grantor may advance funds and recover and pay bills for expenses for such purpose, and/or

2) to pay any of the costs, expenses, fees, taxes, assessments, governmental charges, liabilities, rentals, royalties and other amounts which the Grantee has agreed to pay under any of the provisions of this Agreement and which have become delinquent,
and may, in either case, at the option of the Grantee, be reimbursed out of the proceeds of the Subject Coal allocable to the Grantee’s interest therein, together with interest on the unreimbursed amounts at the rate of 6% per annum from the date of such advancement or payment, and any purchaser of such Subject Coal shall be subrogated to all rights and remedies of the Grantee under this Agreement. The Grantee shall have the exclusive right to sell, assign, or otherwise dispose of the Subject Coal without the prior consent of the Grantor, and the Grantor shall not interfere with the Grantee’s right to sell or dispose of the Subject Coal in any manner permitted by law.

The Grantee shall have the exclusive right to operate, develop, and exploit the Subject Property as the Grantee shall see fit, including, but not limited to, the mining, processing, and marketing of the Subject Coal. The Grantor shall not interfere with the Grantee’s right to operate the Subject Property in any manner permitted by law.

The Grantor shall not, at any time during the term of this Agreement, do or permit to be done any act which shall interfere with the Grantee’s rights or rights of the Grantee under this Agreement.

The Grantor shall, upon the request of the Grantee, execute and deliver all such instruments as the Grantee may reasonably require to evidence and perfect the Grantor’s interest in the Subject Coal.

The Grantee shall keep the Grantor reasonably informed of the status of the operations on the Subject Property and the progress of the development and exploitation of the Subject Coal.

The Grantor shall, upon the request of the Grantee, execute and deliver all such instruments as the Grantee may reasonably require to evidence and perfect the Grantor’s interest in the Subject Coal.

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Section 4.1, etc., etc., of Subject Interest. Except as permitted by Sections 5.1, the Grantee shall not, without the consent in writing of the Grantee, while the Present Production Payment shall remain in force and effect, make any surrender, assignment, exchange, sale, conveyance, assignment, lease or sublease, whole or in part, of any of the Subject Interest.

Section 5.1. Sale of Present Production Payment. Nothing herein contained shall in any way limit or affect the right of the Grantee to sell, convey, assign, mortgage or pledge the Present Production Payment, in whole or in part.

Section 6.2. Rights of Mortgages or Trusts. If the Grantee shall at any time create a mortgage or deed of trust covering all or any part of the Present Production Payment as security for any obligation, the mortgagee, the trustees or the assigns thereof named, or the holders of the obligations secured thereby, shall be entitled to the extent such mortgagee or deed of trust permits, to exercise all of the rights, remedies, powers and privileges herein contained by or under the Grantee and to give or withhold all notices required to be given by the Grantee hereunder by the Grantee.
ARTICLE SEVENTEENTH

RECORDATION

Section 7.1. Notice. Any notice, request, demand, report or other instrument which may be required or permitted to be given to any party hereto or other person shall be given to any party hereto or other person at or to the address of such party or person or at such address as the party or person may designate by written notice to such party or person.

Section 7.2. Further Assurance. To be authorized by express agreement by the Debtor and the Beneficiary with respect to any of the instruments, agreements, and other obligations, to each of such other persons as may otherwise be necessary to cause each such party or person to execute or acknowledge or assent or agree to any of the foregoing rights, titles, interests, powers, and privileges described and hereby granted, hereinafter described, assigned, transferred, sold, or otherwise conveyed, or reserved and retained, or intended to be.

Section 7.3. Cessation of Debtor's Assignment. It is understood and agreed that with respect to each, mineral, mining or other leases which, to the extent to which are included in the Subject Interests, from the United States of America or from one or more states or agencies thereof, or from Indian tribes, lands or grants or on lands granted to Indians in perpetuity, separate assignments in approved forms may be executed by the Debtor in the United States, in relation to the subject matters in the United States, and shall be delivered and acknowledged in such manner as may be necessary or advisable to effectuate and carry into effect the terms herein contained and the rights, powers, and privileges set forth herein, subject to and in accordance with the United States and any other laws and regulations.
and purposes as though the same were set forth at length in such such
Assignment. The interests conveyed by such separate assignments are
the same as, and set in addition to, the interests herein conveyed.

Section 1.6. Failure of Title, etc. No transfer by the Grantor to
the Grantee of any part of the Subject Interests and no failure of title
in, or abandonment of, any part of the Subject Interests shall have
the effect of reducing the Production Payment Percentage referred
to in Section 1.1 as to the Subject Interests so constituted after said
transfer, failure of title or abandonment, or of reducing the amount
of the Gross Production Payment or of creating any offset or other
reduction in the Gross Production Payment; and the Gross
Production Payment shall continue in full force and effect as to all other
Subject Interests.

Section 1.7. Possession and Assignment. All the covenants, war-
ranties and agreements of the Grantee and the Grantee contained in this
Part I shall be deemed to be covenants running with the land. All of the
provisions of this Part I shall inure to the benefit of and be binding upon
the respective successors and assigns (including, without limitation,
the Production Payment Grantee) of the Grantee and the Grantee.
All references herein to either the Grantee or the Grantee shall include
their respective successors and assigns (including, without limitation,
the Production Payment Grantee), except that the term “Grantee” as used in Section 1.1 (to and including Subsection C thereof), in
Subsections 1.4, 1.5 and 1.6 and in Exhibits A shall not include the Pro-
duction Payment Grantee referred to in Part II of this Agreement or any successors and assigns of such Production Payment Grantee
and the term “Grantee” as used in this Agreement shall not include
any successors and assigns of any mortgagee or assigns for security pur-
pose of the Grantee appointed by such mortgagee or assigns with
the consent of the Grantee.

Section 1.8. Assumption. The Grantee hereby expressly as-
sumes for the benefit of the Grantee the performances and observance
of all covenants and conditions under contracts, as well as all obligations
which may arise by operation of law, imposed on the grantor of the Subject
Interests, except such as may only be performed or observed by the
Grantee.
PART II

Conveyance of Production Payments

ARTICLE EIGHT

Conveyance of Production Payments

Section 3.1. Conveyance. The Production Payment Grantor, for valuable consideration paid by the Production Payment Grantee, the receipt and sufficiency of which are hereby acknowledged, by these presents does, effective as of the Effective Date, grant, bargain, sell, convey, assign, transfer, set over and deliver unto the Production Payment Grantee, for covenants and assigns, the Grand Production Payment, to be the entirety of the Production Payment Grantor by this Part II in grant, bargain, sell, convey, assign, transfer, set over and deliver unto the Production Payment Grantee all rights, titles, interests, estates, remedies, powers and privileges of the Production Payment Grantor in the Subject Interests and in the Grand Production Payment adopted, reserved and retained as provided in Part I of this Conveyance.

To have and to hold the Grand Production Payment, together with said rights, titles, interests, estates, remedies, powers and privileges, unto the Production Payment Grantee, its successors and assigns, forever.

Section 3.2. Covenants and Warranties of Production Payment

Grantee. The Production Payment Grantee covenants and warrants that:

A. the Production Payment Grantee has the legal right and authority to grant, bargain, sell, convey, assign, transfer, set over and deliver the Grand Production Payment;

B. the entire Grand Production Payment is unimpaired and the Production Payment Grantee has not received any money thereof or substantially thereof;

C. the Production Payment Grantee has not received any notice of default or claimed default of any kind whatsoever with respect to or affecting Subject Interests which, individually or in the aggregate, are of material importance in relation to the Subject Interests as a whole.
D. All taxes and assessments of any kind whatsoever levied upon or assessed against or measured by the production of ore occurring or attributable to the Consol Production Pay up have been duly paid or provided for.

E. There are no title or premises pending on, or to the knowledge of the production Payment Grantee, threatened against or affecting the production Payment Grantee of any of the Subject Interests before entry of by or before any proceeding, whether voluntary or involuntary, except as heretofore specified in writing by the production Payment Grantee to the production Payment Grantee.

F. The production Payment Grantee has duly complied with all laws, regulations and rulings of any nature governmental, municipal or other regulatory agency, state or federal, materially affecting any of the Subject Interests.

Section 9. Warranties of Title. The production Payment Grantee warrants that, immediately prior to the surrender of this conveyance, the production Payment Grantee has good and marketable title, free and clear of liens, charges and encumbrances, to the Consol Production Payment Grantee as it relates to or is evidenced by (1) the premises, interests and rights referred to in Section 8, except (2) defects of description of title or interest, charges or encumbrances which in any manner to be inferior materially with the operation, value or use of such property, interests and rights, or materially affect its closing, (3) production Sales Contracts, and (4) defects of description of title or interest, charges or encumbrances described in the conveyance by the production Payment Grantee. Subject to items (1) through (4) above, the production Payment Grantee hereby binds itself to warrant and forever defend to the production Payment Grantee the Consol Production Payment and, to the extent that the Consol Production Payment relates thereupon and against thereupon, all such properties, interests and rights, against every person whatsoever lawfully deriving or to claim the same in any part thereof. The conveyances in this Part II is made with full subscriptions and releases of the production Payment Grantee in and in all respects and respects whatsoever given or made by others in respect of the Consol Production Payment or such property, interests and rights or the Subject Interests, as any part of itself.
Section 84. Further Assurances. So long as authorized by applicable law to do, the Production Payment Grantee will receive and deliver to the Production Payment Grantor all such other deeds, assignments, instruments, notices, releases, acceptances and documents, and will do all such other acts and things, as may be necessary more
fully to assure to the Production Payment Grantor, its successors and
assigns, all of the rights, titles, interests, estates, hypothecation, power and
privileges herein and hereby granted, bargained, sold, conveyed, as-
signed, transferred, set over and delivered, or intended to be.

Section 85. Production Payment Grantor Not Liable. The Pro-
duction Payment Grantor shall not be personally liable for the dis-
charges of the Cobalt Production Payment and the Production Pay-
ment Grantor shall look exclusively to the Production Payment Coal,
and the proceeds thereof, for the discharges of the Cobalt Production
Payment.

Section 86. Assignability of Production Payment by Production
Payment Grantor. Nothing herein contained shall in any way limit or
restrict the right of the Production Payment Grantor to sell, con-
vey, transfer, mortgage or pledge the Cobalt Production Payment, in whole
or in part.

Section 87. Statements and Assignments. All the covenants, war-
ranties and agreements of the Production Payment Grantor contained
in this Part II shall be deemed to be covenants running with the land.
All reference herein to the Production Payment Grantor or the Pro-
duction Payment Grantor shall include their respective successors
and assigns.

In WYOMING WYOMING, the parties hereto have agreed to the instru-
ment of conveyance, consisting of Part 3 and Part 7, to be duly as-
serted by the date specified in the acknowledgment signed hereto, in
referred to as the "Conveyance Instrument", one of which with all the provisions contained in Exhibit A to be delivered to the holder of Convention Coal Com-
pany, a Delaware corporation, one of which with all said property descriptions to be recorded in Montgomery County, Ohio, one of
which with all said property descriptions to be recorded in Holmes County, Ohio, one of which with all said property descriptions to be recorded in Charles County, Pennsylvania and one of which with all said property descriptions to be recorded in Marion County, West Virginia, each of which is an original and all of which are inte-
and, except that, to facilitate recording, there are omitted from certain counterparts those property descriptions in Exhibit A which contain descriptions of property located in meshing jurisdictions other than the jurisdiction in which the particular counterparty is to be recorded. Each of the counterparts hereof is executed at the same time and for all purposes is deemed to be an original, and all such counterparts shall together constitute but one and the same instrument of Conveyance, consisting of Part I and Part II.

Conveyance Coal Company
(A Pennsylvania corporation)

By

W. M. Smith, Vice President

The address of Conveyance Coal Company, a Delaware corporation, is:
Hopkins Building 450 Seventh Avenue Pittsburgh, Pennsylvania 15219

Vol. 157 No. 99
In the County Court of New Castle, Delaware.

The undersigned, U.S. McCormick, a Justice of the Peace, solemnly swear that on the 15th day of September, 1868, he doth solemnly swear to the following facts:

There appeared before me several of the following persons, each of whom being personally known to me, being personally sworn to the truth of the annexed instrument:

H. W. Brown, a Vice President, and J. H. Vance, an Assistant Secretary, of Consolidation Coal Company (Pennsylvania);

K. H. Morrison, a Vice President, and C. M. Ouse, an Assistant Secretary, of Consolidation Coal Company (Delaware);

W. W. Halter, Jr., a Vice President, and A. B. Mower, an Assistant Secretary, of William Oat Corporation (Delaware).

On this day personally came before me each such person, the undersigned, the corporation acting through its agents, each corporation being personally sworn to the truth of the annexed instrument, and each agent acknowledging the said instrument to be true and correct, and each agent acknowledging that the said instrument is his own act and deed, and the act and deed of said corporation, that the signature of each agent is in his own proper handwriting, and that the said instrument is the corporation act of the said corporation, and that the act of making and delivering said instrument was duly authorized by resolution of the Directors of the said corporation.

Each such person sworn to me to be the designated officer of the corporation set opposite his name, and personally sworn to me to be the same person whose name is subscribed to the foregoing instru-
mech, appeared before me this day in person, and acknowledged that he signed the said instrument of writing as such officer of said corporation, and caused the corporate seal of said corporation to be affixed thereto, pursuant to the authority given by the Board of Directors of said corporation, as its free and voluntary act and at the free and voluntary act of said corporation, for the use and purpose thereof set forth.

Before me personally appeared each of the above persons, to me personally known, whom I duly swore, according to law, to acknowledge that he is such officer of the corporation set opposite his name, which corporation executed the foregoing instrument and I having first made known to such the contents thereof, each did acknowledge that said instrument to be the free and consent of said corporation for the purpose thereof set forth and is the act and deed of each thereof.

Before me on this day appeared each each person, to me personally known, whom I duly swore, did say that he is the designated officer of the corporation set opposite his name, and that the said instrument is the corporate seal of said corporation and that said instrument was signed and sealed by behalf of said corporation by authority of the Board of Directors, and each such person acknowledge said instrument to be the free act and deed of said corporation.

On this day before me personally appeared each such person, to me personally known to be the designated officer of the corporation set opposite his name as is described in and that executed the within instrument, and acknowledged to me that such corporation executed the same.

Before me personally appeared each such person known to me to be the designated officer of the corporation set out above for the name and seal corporation executed the foregoing instrument, and each signed the same and acknowledged to me that he did sign said instrument in the name and on behalf of said corporation as such officer, and that the same is the free act and deed of such officer and the free and
corporate act and seal of said corporation, and that the same was duly authorized by the Board of Directors, and that the seal affixed to said instrument is the corporate seal of said corporation.

On the day personally came before me each such person, the designated officer of the corporation in the presence of each person, being a party to the foregoing instrument, each such person打印 personally known to me to be such officer, and each acknowledged that the said instrument was his act and deed and the act and deed of said corporation; that the signatures of such officers is in his or her own proper handwriting; that the said instrument is the corporate seal of said corporation, and that the act of sealing and executing said instrument was duly executed by resolution of the Directors of the said corporation.

On this day, before me appeared each such person, to me personally known, each of whom, being a duly sworn, did swear that he is the designated officer of the corporation and executes his name and that the said instrument is the corporate seal of said corporation, and that said instrument was signed, and sealed in behalf of said corporation, by authority of its Board of Directors and such acknowledged seal is deposited in the treasury and seal of said corporation.

On this date personally appeared before me each such person, who, being a duly sworn, did swear that he is the designated officer of the corporation and executes his name, and that said instrument was signed in behalf of said corporation by authority of its Board of Directors, and each such person acknowledged to me that said corporation executed the same.

Each of the above persons, which names at the designated officer of the corporation as opposite his name is signed to the foregoing writing dated as of September 13, 1966, has acknowledged the same before me to be the seal and deed of said corporation.

Each such person who signed the writing above, dated as of September 13, 1966, for the corporation as opposite his name, has this day in my presence before me acknowledged the said writing to be the seal and deed of said corporation.
In Witness Whereof, I have hereunto set my hand and official seal, in the City of Wilmington, County of New Castle, State of Delaware, this 6th day of September, 1900.

[Signature]

[Seal]

RECORDING OFFICER

[Stamp]

[Notary Public]

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RECORD OF TRANSFER

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EXHIBIT A

ATTACHED TO AND FORMING A PART OF THE AGREEMENT OF CONVEYANCE DATED AS OF SEPTEMBER 15, 1988, between the Contractee and the Contractor, for the Conveyance of certain pioneers and the conveyance to the Contractor of certain property interests therein.

This Exhibit A contains the description of the subject interests which are referred to in Section 1.1 of this Agreement as being described or referred to in Exhibit A, Terms previously defined in this Agreement not otherwise defined in this Exhibit A, and used in this Exhibit A as previously defined. This Exhibit A is divided into Articles for each of the states in which such subject interests exist, namely, Illinois, Kentucky, New Mexico, North Dakota, Ohio, Pennsylvania, Tennessee, Utah, Virginia and West Virginia. Each Article is further divided into one or more Exhibits, one for each county in which such subject interests (or portions thereof) are located. Where a particular description includes properties, interests or rights in two or more counties, such description is not split in each county or county thereof, except that descriptions 92, 93 and 94 omit complete descriptions of properties, interests or rights in two counties.

The forms of, and degree of detail in, the descriptions contained herein may vary from Exhibit to Exhibit and from Subject to Subject. Such variations have been adopted for the convenience of the parties and to comply with local law and usage and no presumption shall arise as to the result of any such variance. Each Exhibit contains a reference to the format of the description thereof. Where descriptions of Subject Interests not by reference to the deed, lease or other instruments pertaining to which the Grantor or the Pledgor (hereinafter referred to as the "grantor") obtained it or their title or other rights, there are included the names of the parties to such deed, lease or other instruments and the date of such instrument and, in certain cases, the type of instrument or other information. In the case of certain leases or other instruments from the United States, a schedule,
pursuant to a Plan of Reorganization dated July 23, 1935—
Cana. Coal Co. (Del.) merged into Pitt Coal Co. on November
23, 1945 and the name of the surviving corporation was changed
to Pitt. Can. Coal Co.;
3. Pittsburgh Coal Company, a Pennsylvania corporation
("Pitt. Coal Co.");
4. Pittsburgh Coal Company of Pennsylvania, a Pennsyl-
vanian corporation ("Pitt. Coal Co. of Pa.");
5. The Monongahela River Consolidated Coal & Coke
Company, a Pennsylvania corporation ("The Monongahela
River Consolidated Coal & Coke Company");
6. Pennsylvania Mining Company, a Pennsylvania corpo-
ration ("Pa. Mining Co.");
7. Christopher Coal Company, a West Virginia corporation;
8. The Purglode Coal Mining Company, an Ohio corpora-
tion;
9. Texas-Emsal Coal Company, a Delaware corporation;
10. Texas-Emsal Division of Consolidation Coal Company
(a division of the Grantor and not a separate corporation);
11. Brentford Mining Corporation, an Illinois corporation;
12. Universal Coal Washing Company, an Illinois corpo-
ration;
13. Posekertzes Fuel Company, Division of Consolidation
Coal Company (a division of the Grantor and not a separate
corporation);
14. Northern Reserve Coal Co., a West Virginia corpora-
tion;
15. Southern Reserve Coal Co., a West Virginia corpora-
tion; and
It is the express intention and purpose of the parties hereto that this Conveyance and Exhibit A shall be deemed to cover and include, in addition to the individual properties, interests and rights specifically described or referred to herein, all of the Grantor's right, title and interest in and to all Coal and Coal estate and, all mining rights, privileges and immunities granted or acquired with or related to such estates, all fee, leasehold, mining, royalty, overriding royalty, production payments, net profit, riparian and other properties, interests and rights pertaining or relating to Coal, and all rights to use damage or cause obstruction to the surface (whether created by grant, waiver, release, escheated or otherwise), as well as all fees, leaseholds, easements, servitudes, riparian rights and other interests in real property and related to Coal, which are owned, leased or otherwise held by the Grantor and are situated in the counties referred to in this Exhibit A, even though a description or reference to said properties or interests be omitted from the Exhibit A, or such properties or interests be incorrectly described herein, and all of the properties and interests covered by this paragraph shall be properties and interests "described or referred to in Exhibit A" within the meaning of Section 11.1 of the Conveyance; provided, however, that those shall be excluded from the operation of this paragraph all of the properties, interests and rights, situated in the counties set forth in the list below and specifically described by governmental survey, by metes and bounds or by reference to instruments of title into the Grantor or a Predecessor in Interest to the certain deed entitled "Non-Mining Deed", dated as of September 15, 1969 (the "Non-Mining Deed"), from Consolidation Coal Company, a Pennsylvania corporation, to Consolidation Coal Company, a Delaware corporation, counterparty of which are being filed for record immediately after the filing of this Conveyance in the following counties also included in the Exhibit A:

**SPARS OF INCLUSION**

Bond County
Pulaski County
Jackson County
Montgomery County
Perry County
Randolph County
Where an instrument of title into the Grantee or a Predecessor is described or referred to under a county in this Exhibit A and is also described or referred to in Annex A to the Non-Mining Deed under a county which is not included in this Exhibit A, the reference to such instrument in this Exhibit A is not intended to cover property, interests or rights located in the county listed in said Annex A but not included in this Exhibit A.

Any restrictions in the specific descriptions contained in this Exhibit A that certain of the Subject Interests are subject to specific agreements or other instruments shall not operate to subject any such interest to any such agreement or other instrument except to the extent that such agreement or other instrument is presently existing and is otherwise valid with respect to such interest; nor shall any reference to any such agreement be deemed to constitute a recognition.
6

by the parties hereto that any such agreement or other instrument is
valid except to the extent that such agreement or other instrument is
presently in form and effect.

The Subject Interests are conveyed subject to the following:

(1) All valid and presently existing easements or rights
of way, either of record or apparent on the ground, including
roads, railroads; pipelines; power transmission, telephone, tele-
graph, cable and other transmission systems or rights of way;
oil and gas leases; walls and easement of right to drill for oil,
gas and water; and

(2) All prior valid conveyances by the Grantor, or any
Piedimention, to third persons of portions of the Subject Inter-
ests described or referred to in this Exhibit A, or of any rights,
titles or interests therein, as well as all prior valid leases agree-
ments, support agreements and other encumbrances made, or
granted by the Grantor or any Piedimention in favor of third
persons, but only to the extent that any of the aforesaid shall
have been duly recorded prior to the Effective Date or are spe-
cifically described or referred to in this Exhibit A.

Counterparts of this Conveyance having annexed thereto all Divi-
sions and Subdivisions of this Exhibit A contain a table of bundless to
such Division and Subdivision. Such table has been omitted from the
counterparts of this Conveyance containing less than all Subdivision,
which counterparts have been prepared to facilitate recording as
provided on pages 62 and 63 of the text of this Conveyance.
The mailing address of the Granger Consolidation Coal Company, a Delaware corporation, is Consolidation Coal Company, Celina, Ohio.

The property descriptions in this Subdivision 504 are in reference to the instruments of title into which the prior recorded instruments by which the Grantor granted title to the Granger Consolidation Coal Company ("Pitt. Cons. Coal Co." or "Pitt." as a Grantee) are recorded in the records of the City of Celina. A record of such change of name was filed with the Secretary of State of Ohio on May 18, 1972, and was recorded on July 12, 1972 in Volume 15, Page 118 of the Special Records in the Recorder's Office in Hardin County, Ohio. This Subdivision 504 is divided into seven groups as follows:


Subdivision 504:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
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<tbody>
<tr>
<td>1. John DeCotes and Myrtle DeCotes</td>
<td>Pitt. Cons. Coal Co.</td>
</tr>
<tr>
<td>2. Joseph H. Jordan</td>
<td>Pitt. Cons. Coal Co.</td>
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<tr>
<td>Item No.</td>
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</tr>
<tr>
<td>4</td>
<td>Steve Goodwin</td>
</tr>
<tr>
<td>5</td>
<td>Floyd Shupert &amp; Mary Lyke Reardon</td>
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<tr>
<td>No.</td>
<td>Grantor 1</td>
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<tr>
<td>21</td>
<td>Mary M. Smith &amp; John W. Smith</td>
</tr>
<tr>
<td>22</td>
<td>Adam D. Dunlap &amp; Edith E. Dunlap</td>
</tr>
<tr>
<td>23</td>
<td>(Their items no. individually left blank)</td>
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<tr>
<td>24</td>
<td>Michael Gallagher</td>
</tr>
<tr>
<td>25</td>
<td>Michael Gallagher</td>
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<tr>
<td>26</td>
<td>Charles Comer &amp; Louis K. Compher</td>
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<tr>
<td>28</td>
<td>Louis E. Colburn</td>
</tr>
<tr>
<td>29</td>
<td>William M. Colburn, et al.</td>
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<td>Floyd G. Dunlap</td>
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<td>31</td>
<td>Mary Dunlap Colburn</td>
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<td>32</td>
<td>H. Sidney Dunlap &amp; Esther Dunlap</td>
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<td>33</td>
<td>Lee W. Dickerson, et al.</td>
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<tr>
<td>34</td>
<td>Finley Jones &amp; Halsey Lee Ames</td>
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<td>35</td>
<td>Harry C. Beck &amp; Sybil Brad</td>
</tr>
<tr>
<td>36</td>
<td>Frank L. McCormick</td>
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<td>37</td>
<td>The Pittsburgh, Cincinnati, Chicago &amp; St. Louis Railroad Company</td>
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<td>38</td>
<td>The Pittsburgh, Cincinnati, Chicago &amp; St. Louis Railroad Company</td>
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<tr>
<td>39</td>
<td>C. C. Dudley &amp; Rose L. Dudley</td>
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<td>Michael Johnson</td>
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<td>43</td>
<td>William A. Ross</td>
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<td>44</td>
<td>Hanna Lands Company &amp; The M. A. Hanna Company</td>
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<td>Hanna Lands Company &amp; The M. A. Hanna Company</td>
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<td>65</td>
<td>B. F., Thompson, et al</td>
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<tr>
<td>66</td>
<td>[This Item No. Intentionally left blank]</td>
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<tr>
<td>68</td>
<td>Hance Leach Company &amp; The M. A. Haase Company</td>
</tr>
<tr>
<td>69</td>
<td>George T. Fordy &amp; Florence M. Fordy</td>
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<tr>
<td>70</td>
<td>Hance Leach Company &amp; The M. A. Haase Company</td>
</tr>
<tr>
<td>71</td>
<td>The Fowleson Mining Company</td>
</tr>
</tbody>
</table>

Exempting from the above Item No. 71. Parcel 3 and Parcel 4 of Parcel A.

72      | Noffs, B., Christy | Pat. Cont. Coal Co. | 2-4-49             | 129   | 225  | 328-125    |
73      | Susan V. Anderson | Pat. Cont. Coal Co. | 2-4-49             | 129   | 225  | 328-125    |
74      | Florence C. Dusay & Mary W. Dusay | Pat. Cont. Coal Co. | 2-4-49             | 129   | 225  | 328-125    |
75      | Willis C. Anderson, et al | Pat. Cont. Coal Co. | 2-4-49             | 129   | 225  | 328-125    |
76      | Willis C. Anderson, Guardian of William C. Anderson | Pat. Cont. Coal Co. | 2-4-49             | 129   | 225  | 328-125    |
77      | Theodore Dicke, et al | Pat. Cont. Coal Co. | 2-4-49             | 129   | 225  | 328-125    |
78      | Hance Leach Company & The M. A. Haase Company | Pat. Cont. Coal Co. | 2-4-49             | 129   | 225  | 328-125    |
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<th>Item No.</th>
<th>Grantor(s)</th>
<th>Grantee(s)</th>
<th>Date of Instrument</th>
<th>Vol</th>
<th>Page</th>
<th>Type of Instrument</th>
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</thead>
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<tr>
<td>70.</td>
<td>Robert A. &amp; Isabel Russell</td>
<td>Pit. Const. Co.</td>
<td>5-30-48</td>
<td>114</td>
<td>207</td>
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<td>80.</td>
<td>John P. McQuary &amp; Edith McQuary</td>
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<td>124</td>
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<td>81.</td>
<td>George W. &amp; Ada McDuffy</td>
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<td>125</td>
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<td>J. E. &amp; J. E. Seely &amp; Mary E. Seely</td>
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<td>Walter anderian</td>
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<td>127</td>
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<td>John H. Thompson, et al.</td>
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<td>James Thompson, Guardian of</td>
<td>Pit. Const. Co.</td>
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<td>160</td>
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<td>86.</td>
<td>Edith Fox</td>
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<td>87.</td>
<td>Roy E. Adams &amp; Ada Adams</td>
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<td>6-4-48</td>
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<td>88.</td>
<td>Mary Woon</td>
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<td>6-4-48</td>
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<td>89.</td>
<td>Const. Const. Co.</td>
<td>Pit. Const. Co.</td>
<td>6-4-48</td>
<td>164</td>
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<td>90.</td>
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<td>134</td>
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<td>91.</td>
<td>Wilfred C. &amp; Ada Mountain</td>
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<td>Deed No.</td>
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<td>Grantee</td>
<td>Date of Instrument</td>
<td>Vol</td>
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<td>Mary Wendt</td>
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<td>Paul A. Vergn, Jr., et al.</td>
<td>Pitt. Cons. Coal Co.</td>
<td>11-23-49</td>
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**Exemptions:**
- Excluding the above Item No. 278 Part I, Parcels 25, 27 through 30, inclusive; 34 and 35; Part III, Parcel 2; Parcel 1 of Parcel 2, Tract 1 of Parcel 69 and Parcel 70; Part IV, Parcel 85.
- Excluding from the above Item No. 279 Parcel 3, Tract 1; Items 1, 5 and 9; Parcel 3, Tract 10.

**Additional Items:**
- Excluding from the above Item No. 280 Parcel 3, Tract 1; Items 1, 5 and 9; Parcel 3, Tract 10.
- Excluding from the above Item No. 281 Parcel 3, Tract 1; Items 1, 5 and 9; Parcel 3, Tract 10.
- Excluding from the above Item No. 282 Parcel 3, Tract 1; Items 1, 5 and 9; Parcel 3, Tract 10.
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(2) Loans and agreements to Pitt. Coon. Coal Co. and Coon. Coal Co. (Penn.).

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*This Land is the Center for the wholly-owned subsidiary Ohio Reserve Coal Co. It has been conveyed to the County Board of Directors of Harrison County, dated prior to the issuance of this Conveyance as well secured and secured the property described in the deed, referred to at Item No. 305 of this Declaration 8/6 and in a thesis property owned by Ohio Reserve Coal Co., which is located in Harrison County.*
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The premises conveyed by the above instrument were described in said instrument as follows:

Situated in the State of Ohio, County of Harrison, Township of Short Creek, bounded and described as follows:

Being part of the Northeast Quarter of Section No. 14, Township No. Q, Range No. 4: Begin at a point in County Road No. 15, said point of beginning being South 2° 50' West 1700.16 feet from the northeast corner of Section No. 14; running thence South 37° 19' 40" West 488.27 feet to a point in the creek; thence North 67° 09' 10" West 294.86 feet to a point in the creek; thence North 6° 59' 10" East 155.06 feet to a point in the creek; thence North 13° 00' 59" East 137.54 feet to a point in the creek; thence North 33° 43' 50" East 154.97 feet to a point near County Road No. 15; thence along said road South 25° 15' 00" West 293.50 feet to a point in said road; thence South 40° 19' 00" East 310.20 feet to the place of beginning, containing 3.063 Acres, more or less.

Excluding and Reserving therefrom unto the Grantee, its successors and assigns, the following rights, privileges and immunities as set forth in the above referred to deed:

It being mutually understood and agreed by and between the Grantor and the Grantee, that the Grantor is conducting, and may hereafter conduct, coal mining operations in the immediate vicinity of the hereinafore described premises; and the Grantee, as a part of the consideration for the within conveyance, does hereby release, release, and forever discharge the said Grantor, its successors and assigns, from any and all claims for damage which may have arisen, or which may hereafter arise, as a result of the conduct of coal mining operations on premises within the general vicinity of the hereinafore described premises.

Said heretofore described premises are also subject to all legal highways, exceptions, reservations, covenants, rights, easements and restrictions of record on or relating to the same.

(Being a part of the same premises as were conveyed by Hanna Lands Company to Pittsburgh Consolidation Coal Company by deed dated June 26, 1948, which deed is recorded in Vol. 337 A, B, Page 1 et seq., Deed...
Records of Harrison County, Ohio, and being designated therein as part of Pt. I, Parcel No. 22, Tract 1, I Parcel No. II, Tract 1, and Pt. I, Parcel No. 3, Tract 3.)

To Have and to Hold said premises unto the said Grantee for so long as it shall continue to use and occupy premises for 4-H Park Recreational Purposes Only.

And the said Grantee, by the acceptance of this grant that whenever it shall come to use and occupy hereinafore described premises for the purposes hereinafore set forth, then and in that event, all right, title, interest and estate of the Grantor in and to the hereinafore described premises shall cease and determine, without notice by Grantor, its successors and assigns, and shall revert to the Grantor herein, Consolidation Coal Company, its successors and assigns.

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The premises conveyed by the above instrument were described in said instrument as follows:

All the Lower Freeport seam coal, which is the same seam of coal presently being mined in the Neoma No Mine of the Youngstown and Ohio Coal Company, that underlies the following described lands situated in Carthage Township, Harrison County, Ohio:

Begun at the Northeast corner of Section 16, Township 9, Range 4; thence at the most Northeast corner of a tract of land under which the Lower Freeport seam coal was conveyed to the Grantor herein by John and Anna Robson, deed dated December 7, 1964, and recorded in Volume PAGE of Harrison County Book of Deeds; thence bearing South 40° 41' 00.52" West, 177.05 feet distant from a stake at the Northeast corner of said Section 16; thence with the North line of said land under which the Lower Freeport seam coal was conveyed to the Grantor herein by John and Anna Robson, and line of land now, or formerly, belonging to C. J. Wheeler, South 46° 49' East, 509.68 feet to a point on a Line of Exchange established between coal lode belonging to the Grantee and Grantor herein by two deeds, one from The M. A. House Company to the Grantor.
herein dated October 31, 1899, and recorded in Volume 141, Page 459 of Harrison County, Ohio, Record of Deeds; and the other from the Grantee herein to the M. A. Hanna Company, dated October 31, 1899, and recorded in Volume 141, Page 481, of Harrison County, Ohio, Record of Deeds, thence with the said Line of Exchange, and also with the line of other coal belonging to the Grantee herein, South 17° 30' West, 465.13 feet to a point on the Southwesterly line of said land under which the Lower Freeport seam of coal was conveyed to the Grantee herein by John and Anna Kobs, and line of lands now, or formerly, belonging to Carl J. Wheeler, thence leaving the said Line of Exchange, and with the Southwesterly line of said land under which the Lower Freeport seam coal was conveyed to the Grantee herein, by John and Anna Kobs and also with the line of lands now, or formerly, belonging to Carl J. Wheeler, thence leaving the said Line of Exchange, and with the Southwesterly line of said land under which the Lower Freeport seam coal was conveyed to the Grantee herein, by John and Anna Kobs and also with the line of lands now, or formerly, belonging to Carl J. Wheeler, North 38° 22' West, 592.68 feet to the place of beginning. CONTAINING 1,265 acres, more or less.

This conveyance is made subject to a small parcel of land 100 feet wide and 1018 feet long that may in part overlap the coal hereby conveyed, and which was conveyed by Stuart B. Shewell, et al., to the W. & L. E. R. R. Company by deed dated September 13, 1899, and recorded in Volume 38, Page 497 of Harrison County, Ohio, Record of Deeds, and which instrument, by which the railroad company acquired title to said strip, states "But it is hereby distinctly agreed that said Grantees hereby convey only such title to said land and rights therein to said railroad company as it would acquire by proceedings instituted in the ordinary way in Probate Court for the appropriation therein under the statutes of the State of Ohio."

The Grantees herein, by acceptance of this deed, agree to have conveyed all said Lower Freeport seam coal conveyed hereby that lies within Fifty (50) feet of the said Line of Exchange.

Together with the right to dig, and use or enter said above-described land at such points and in such manner and at such times, as the Grantee herein, its successors and assigns, may desire for the purpose of digging, mining, ventilating, draining, removing and carrying away all, or any portion, hereafter described, without being required to leave any coal in place, or otherwise, to provide for the support of the overlying strata, or surface, or anything therein, thereon or thereunder; and without being liable for any damage to the overlying strata, or surface, or anything therein, thereon or thereunder by reason of the mining and removing of all, or any portion of said coal, or of coal adjacent thereto; and with the right to dig, move, ventilate, drain, remove and carry away through the said above-described coal any adjoining or other coal of the same seam, now owned, or that may hereafter be acquired by the Grantee herein, its successors and assigns; and also the right to construct and
maintain ways or passages through said above-described coal for the transportation, transmission, or conduction of any and all supplies, electrical power lines, waste materials, employees and other persons and things which the Grantee herein, its successors and assigns, may desire to employ in digging, mining, draining, ventilating, removing and carrying away said above-described coal, or any adjoining, or other coal, now owned, or that may hereafter be acquired by the Grantee herein, its successors and assigns.

The right to drill for oil and/or gas through the coal above described without conflicting with the rights of said Grantee herein, its successors and assigns, as above granted, using, however, all necessary safety devices known to the business and provided by the mining laws of the State of Ohio, is hereby reserved, but before drilling of any oil and/or gas well is started, a permit from the Department of Mines, State of Ohio, shall be acquired, and payment shall be made by the Grantee, or their heirs and assigns, to the Grantee herein, its successors and assigns, for each coal that is left unused at the time that oil and/or gas well is started, such payment to be paid at the rate of 50 cents per ton.

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County: Trumbull, Ohio.

Ur. 157 and 149.
(8) Leases and agreements from Pitt. Cons. Coal Co. and Cons. Coal Co. (Penna.) affecting properties described in this Subdivision 5.04.

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</table>

(7) Encumbrances affecting certain of the properties described in this Subdivision 3.04.

(1) Certain written and oral agreements by Cons. Coal Co. (Pens.) with third parties made in the ordinary course of business, in accordance with custom and usage as practiced in the Coal industry for exchange of Coal and mining rights and privileges pertaining to the same, substantially on a ten for ten basis, which agreements in the aggregate do not involve in excess of 200,000 tons of Coal or 100 acres of surface lands;

(ii) Options and commitments of Cons. Coal Co. (Pens.) for the sale or reconveyance of lands to its immediate predecessors-in-title upon completion of mining and reclamation of such lands;

(iii) A contract for pasture of cattle, dated February 8, 1963, between Cons. Coal Co. (Pens.) and Odell's Farm;

(iv) Option Agreement from Cons. Coal Co. (Pens.) to Tennessee Oil Company dated January 17, 1960, which Option has been exercised by letter of June 6, 1960 from Tennessee Oil Company; and

(v) Commitments of Cons. Coal Co. (Pens.) to public and private bodies for conveyances of surface lands with or without reversionary rights, which commitments will not exceed the aggregate 250 Acres and which will not interfere with the mining and removing of any remaining coal.
APPENDIX H

EBS CERTIFICATION
Earth Tech, Inc., has conducted this Environmental Baseline Survey on behalf of the Air Force. Earth Tech, Inc., has reviewed all appropriate records made available, and conducted visual site inspections of the selected facilities following an analysis of information during the record search. The information contained within the survey report is based on records made available and, to the best of Earth Tech, Inc.'s knowledge, is correct and current as of October 2008.

Carl Rykaczewski, REA No 07598
Earth Tech, Inc.

I certify that the property conditions stated in this report are based upon a review of available records, visual inspections, and analysis, as noted, and are true and correct to the best of my knowledge and belief.

GORDON H. ELWELL, JR., Colonel, USAFR
Commander, 911th Airlift Wing

March 2009

Environmental Assessment and Baseline Survey
To Establish New Drop Zone in Cadiz, OH
AIRCRAFT EMISSIONS CALCULATIONS FOR PROPOSED ACTION AIRCRAFT OPERATIONS

Aircraft emissions from aircraft operations that would occur under the Proposed Action were calculated using the methodology and emission factors in United States Air Force IERA Air Emissions Inventory Guidance Document for Mobile Sources at Air Force Installations (O’Brien, Robert J. and Mark Wade, 2002. Karta Technologies, Inc., revised December 2003).

Aircraft: C-130 H
Engine: T56-A-15, 4 per aircraft

Criteria Pollutant Emission Factors (excluding SOx)

<table>
<thead>
<tr>
<th>Aircraft Engine</th>
<th>Power Setting</th>
<th>Fuel Flowrate (lb/hr)</th>
<th>NOx</th>
<th>CO</th>
<th>VOC</th>
<th>PM10</th>
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<tr>
<td>T56-A-15</td>
<td>Ground Idle</td>
<td>900</td>
<td>7.49</td>
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<td>Normal RTD</td>
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<td>9.69</td>
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<td>In Mil</td>
<td>2,456</td>
<td>11.42</td>
<td>1.77</td>
<td>0.28</td>
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Emission Factor for SOx

Emission Factor = 20 * average sulfur content of fuel (percent by weight)/1000 lb fuel.

Based on an average sulfur content of JP-8 in Pennsylvania of 0.023, the emission factor for SOx is 0.46 lb/1000 lb.

Emission Calculations

Annual emissions (in lbs) for each pollutant were calculated using the following formula:

$$E_{pol} = \frac{(AT \times 60)}{NF} \times \frac{FFR}{1000} \times EF \times NE$$
Where,

\[ E_{pol} = \text{Emissions of a particular pollutant generated from a specific aircraft’s annual flights within the air space (lb/yr)} \]
\[ AT = \text{Average time per flight (by the applicable aircraft) within the air space (min/flight)} \]
\[ 60 = \text{Factor for converting minutes into hours (min/hour)} \]
\[ NF = \text{Number of flights (within the air space) conducted by the applicable aircraft during the year (flights/yr)} \]
\[ FFR = \text{Fuel Flow Rate per engine (lb/hr)} \]
\[ 1000 = \text{Factor for converting “lb/hr” to “1000 lb/hr”} \]
\[ EF = \text{Emission Factor (lb/1000 lb)} \]
\[ NE = \text{Number of engines on the aircraft} \]

For this EA annual aircraft emissions were calculated for C-130H aircraft activity in the vicinity of the proposed Cadiz Drop Zone, including approach, overflight, and departure of the drop zone. Aircraft activity before approach to and departure from the drop zone area is assumed to be part of the existing low-level flight activity occurring in the area; therefore, emissions for this activity were not calculated as part of the proposed action. The emissions presented in the following table were calculated using 6 minutes flight time within the drop zone area for AT, a maximum of 2,160 flights per year for NF, and the “normal RTD” for FFR.

### Total Annual Drop Zone Emissions

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<th></th>
<th>CO</th>
<th>VOC</th>
<th>NO&lt;sub&gt;x&lt;/sub&gt;</th>
<th>SO&lt;sub&gt;x&lt;/sub&gt;</th>
<th>PM&lt;sub&gt;10&lt;/sub&gt;</th>
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<td>lb/yr</td>
<td>3,107.81</td>
<td>791.08</td>
<td>18251.31</td>
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<td>1.55</td>
<td>0.40</td>
<td>9.13</td>
<td>0.43</td>
<td>1.37</td>
</tr>
</tbody>
</table>
Matthew Malle  
AECOM Environmental/Earth Tech  
Biologist  
1461 East Cooley Drive  
Suite 100  
Colton, CA 92324

Ohio Department of Natural Resources  
Division of Natural Areas and Preserves  
Ohio Natural Heritage Program  
2045 Morse Rd., Bldg. F-1  
Columbus, Ohio 43229

Subject: Data Request Form--Proposed Cadiz Drop Zone Cadiz, OH

Ohio Department of Natural Resources:

AECOM Environmental/Earth Tech has been hired to prepare a combined environmental assessment (EA) and environmental baseline survey (EBS) to support the proposed acquisition of property located near Cadiz, Ohio, for use as a drop zone for airdrop training by the 911th Airlift Wing (911 AW) of the Air Force Reserves (AFR).

The 911 AW is located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has several serious limitations that restrict the 911 AW’s airdrop training. The proposed Cadiz Drop Zone meets these requirements.

The Proposed Action is the establishment of a drop zone for use by the 911 AW. The proposed drop zone is an approximately 430-acre site located approximately 3.3 miles southwest of the town of Cadiz in Harrison County, Ohio. The site is on a reclaimed strip mine owned by CONSOL Energy that is currently being leased for cattle grazing. No significant modification of the site, such as grading access roads, clearing vegetation, or constructing facilities, would be required to establish the drop zone. It is expected that cattle grazing would continue to control the height of vegetation on the site, thereby eliminating the need for routine vegetation control.

The proposed drop zone consists of a rectangular drop zone and a circular drop zone superimposed on each other. The rectangular drop zone is approximately 1,500 yards (4,500 feet) long and 1,000 yards (3,000 feet) wide with a centerline oriented along a northwest-southeast axis. The circular drop zone has a 750-yard (2,250-foot) radius and is centered on the long axis of the rectangular drop zone, but offset approximately 250 yards (750 feet) to the southeast of the center of the rectangular drop zone.
The site consists primarily of fairly level, open grassland. Some areas towards the edges of the proposed lease boundary have steeper slopes and small areas of woodlands, but drop zone activities are not proposed for these areas. Drop zone activities would generally be restricted to the center of the proposed lease area boundary. AFR experience indicates that most dropped items land within 300 yards of targets which would be located along the centerline of the drop zone.

Air drops would be conducted as part of aircraft training flights that are currently a routine activity. A typical drop training event would entail use of two C130 aircraft. Flights to the drop zone would originate and terminate at Pittsburgh IAP ARS. Drop zone activities would be conducted 2-3 times per week. Most activities would consist of dropping training bundles consisting of 15-lb sandbags with 68-inch diameter parachutes. Heavier dropped material, referred to as “actual loads” would be dropped only 2-3 time per month.

According to the U.S. Fish and Wildlife Service, the only federally listed species recorded for Harrison County is the federally endangered Indiana bat (Myotis sodalis). Specific information required for our Environmental Assessment is a comprehensive list of federally listed species with the potential to occur on or adjacent to the proposed Project Site. Specifically, we would like to obtain information about regionally significant Indiana bat hibernacula (within 10 miles of Project Site) and capture records (within 5 miles of Project Site) to include within the EA biological assessment.

Please let me know if you have any addition concerns or if you require additional information.

Best Regards,

Matthew Malle
Biologist

909-554-5041 Office
Matthew.Malle@AECOM.com
November 19, 2008

Matthew Malle
AECOM Environmental/Earth Tech
1461 E. Cooley Dr., Suite 100
Colton, CA 92324

Dear Mr. Malle:

After reviewing our Natural Heritage maps and files, I find the Division of Natural Areas and Preserves has no records of rare or endangered species near the AECOM Environmental/Earth Tech Proposed Cadiz Drop Zone project #106627. The site is located in Secs. 13, 14, 19, and 20, Cadiz Twp., Harrison Co., Flushing Quadrangle. We have no records of Indiana Bats within 5 miles of the project and no records of Indiana Bat Hibernacula with 10 miles of the project.

There are no existing or proposed state nature preserves at the project site. We are also unaware of any unique ecological sites, geologic features, breeding or non-breeding animal concentrations, state parks, state forests, scenic rivers, or wildlife areas within the project area.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although we inventory all types of plant communities, we only maintain records on the highest quality areas.

Please contact me at (614) 265-6409 if I can be of further assistance.

Sincerely,

Butch Grieszmer, Data Specialist
Resource Services Group

ohiodnr.com
Dr. Mary Knapp  
U.S. Fish and Wildlife Service  
6950 Americana Parkway  
Suite H  
Reynoldsburg, OH 43068-4127

Subject: Request for Information on Federally Listed Endangered, Threatened and Candidate Species and Notification of an Environmental Assessment for the Proposed Cadiz Drop Zone Project.

References:
(a) Endangered Species Act of 1973, Section 7(c)(1)  
(b) National Environmental Policy Act

Dear Dr. Mary Knapp:

In accordance with references above, we are preparing to issue an Environmental Assessment (EA) to support the proposed lease of property located near Cadiz, Ohio, for use as a drop zone for airdrop training by the 911th Airlift Wing (911 AW) of the Air Force Reserves (AFR). We request you confirm that the threatened, endangered species and proposed candidates list is current and complete. Please identify any possible adverse impacts affecting species or critical habitat. Attached to this document is a brief description of the proposed action including a discussion of threatened and endangered species and figures showing the project location and boundary.

We appreciate your assistance with our efforts to identify important biological resources early in the EA development. Upon completion, a copy of the EA will be forwarded to your office for review.

If you have any questions or comments, please contact me at (909) 554-5052.

Very truly yours,

Earth Tech Inc.,

Carl Rykaczewski  
Senior Environmental Professional

Attachments:
1. Environmental Assessment Information  
2. Ohio DNR Letter  
3. Figure 1  
4. Figure 2  
5. Figure 3
Proposed Action

The 911 AW is located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has several serious limitations that restrict the 911 AW’s airdrop training. The proposed Cadiz Drop Zone meets these requirements.

The Proposed Action is the establishment of a drop zone for use by the 911 AW. The proposed drop zone is an approximately 430-acre site located approximately 3.3 miles southwest of the town of Cadiz in Harrison County, Ohio (lat/long: 40.226695, -81.044254). The site is on a reclaimed strip mine owned by CONSOL Energy that is currently being leased for cattle grazing. No significant modification of the site, such as grading access roads, clearing vegetation, or constructing facilities, would be required to establish the drop zone. It is expected that cattle grazing would continue to control the height of vegetation on the site, thereby eliminating the need for routine vegetation control.

The proposed drop zone consists of a rectangular drop zone and a circular drop zone superimposed on each other. The rectangular drop zone is approximately 1,500 yards (4,500 feet) long and 1,000 yards (3,000 feet) wide with a centerline oriented along a northwest-southeast axis. The circular drop zone has a 750-yard (2,250-foot) radius and is centered on the long axis of the rectangular drop zone, but offset approximately 250 yards (750 feet) to the southeast of the center of the rectangular drop zone.

The site consists primarily of fairly level, open grassland. Some areas towards the edges of the proposed lease boundary have steeper slopes and small areas of woodlands, but drop zone activities are not proposed for these areas. Drop zone activities would generally be restricted to the center of the proposed lease area boundary. AFR experience indicates that most dropped items land within 300 yards of targets which would be located along the centerline of the drop zone.

Air drops would be conducted as part of aircraft training flights that are currently a routine activity. A typical drop training event would entail use of two C130 aircraft. Flights to the drop zone would originate and terminate at Pittsburgh IAP ARS. Drop zone activities would be conducted 2-3 times per week. Most activities would consist of dropping training bundles consisting of 15-lb sandbags with 68-inch diameter parachutes. Heavier dropped material, referred to as “actual loads” would be dropped only 2-3 times per month.
Alternatives to the Proposed Action

No Action Alternative

Under the No-Action Alternative, the AFR would not lease the property from CONSOL Energy to establish the new Cadiz Drop Zone. Airdrop training would continue at the Starvaggi Drop Zone. There would be no change in existing conditions. Because of limitations on use of the Starvaggi Drop Zone, continued reliance on this site as its only drop zone training site would limit the 911 AW’s training capability and combat readiness and is not consistent with the purpose and need for the proposed action.

Biological Resources

The property is located within the Monongahela Transition Zone of the Western Alleghany Plateau Ecoregion. Potential natural vegetation in this ecoregion consists of mixed mesophytic and mixed oak forest (U.S EPA, 2008). The following discussion of biological resources on and adjacent to the property is based on observations made during the visual reconnaissance survey (VRS) conducted on 14 October 2008.

The majority of the property is on a reclaimed strip mine. The mined area has been graded and revegetated and is currently a grassland used for cattle grazing. The vegetation consists primarily of grasses and legumes (e.g., clover, vetch) with some other forbs, including Aster sp., Queen Anne’s lace (Daucus carota), chicory (Cichorium intybus), goldenrod (Solidago canadensis), and teasel (Dipsacus fullonum). A few small single cottonwood (Populus deltoides) and black locust (Robinia pseudoacacia) trees are present in the grassland area. Two small wooded areas, located at the western and southern edges of the property occupy areas that were probably not mined. Tree species identified in the woodland include sycamore (Platanus occidentalis), black locust, sugar maple (Acer saccharum), silver maple (Acer saccharinum), cottonwood, ash (Fraxinus sp.), and black walnut (Juglans nigra). Common under story plants in the woodland include poison ivy (Toxicodendron radicans), brambles (Rubus sp.), and bush honeysuckle (Lonicera sp). Two areas of cattails (Typha sp.) and willows (Salix sp.) are adjacent to the southern woodland area.

Wildlife species observed were white-tail deer (Odocoileus virginianus) and several bird species (mallard (Anas platyrhynchos), northern harrier (Circus cyaneus), black vulture (Coragyps atratus), turkey vulture (Cathartes aura), American kestrel (Falco sparverius), American crow (Corvus brachyrhynchos), northern flicker (Colaptes auratus), and yellow-rumped warbler (Dendroica coronata)). Cattle were observed only in adjacent areas, but signs of cattle grazing, including droppings and heavy trampling in wet areas, were evident on the property.

Sensitive Habitats

Two ponds are present in the northern portion of the property. These appear to be artificial water bodies created during site reclamation. Two areas of cattails (wetland
obligate species) are present on the property. Near the center of the property a small area (less than ¼ acre) appeared as a dried puddle during the VRS. Although this dry puddle is generally barren and has been heavily trampled by cattle, a few clumps of rushes (wetland obligate species) grow in this area.

A small stream flows along the edges of the woodland area located on the southern portion of the property.

There are no direct impacts expected to the aquatic habitats present on-site. To the extent possible, the aquatic sites within the proposed impact areas will be avoided; however, it is possible the dropped materials would need to be occasionally retrieved from these sites. During the VRS of the drop zone, it was noted that the aquatic sites present were heavily trampled by and used as water source for the grazing cattle. The occasional retrieval of dropped materials could cause temporary increased sedimentation with the water column, ultimately affecting the water quality; however, the water quality would be expected to return to pre-exercise conditions shortly after the drop-zone operations have ceased. No significant adverse impacts to the aquatic habitats within the impact area are expected.

There are no impacts anticipated to the small stream located within the woodland area within the southern portion of the drop zone.

Protected Species

According to the U.S. Fish and Wildlife Service, the only federally listed species recorded for Harrison County and having the potential to occur within the drop zone area is the federally endangered Indiana bat (*Myotis sodalis*) (U.S. Fish and Wildlife Service, 2008).

The Ohio DNR was contacted as part of this analysis and asked to provide feedback of the likelihood for the Indiana bat to occur on or adjacent to the proposed project area. The Ohio DNR reviewed Natural Heritage maps and files for the regional area and concluded that no records of Indiana bat have been recorded within 5 miles of the property and no Indiana bat hibernacula have been recorded within 10 miles of the property.
November 19, 2008

Matthew Malle  
AECOM Environmental/Earth Tech  
1461 E. Cooley Dr., Suite 100  
Colton, CA 92324

Dear Mr. Malle:

After reviewing our Natural Heritage maps and files, I find the Division of Natural Areas and Preserves has no records of rare or endangered species near the AECOM Environmental/Earth Tech Proposed Cadiz Drop Zone project #106627. The site is located in Secs. 13, 14, 19, and 20, Cadiz Twp., Harrison Co., Flushing Quadrangle. We have no records of Indiana Bats within 5 miles of the project and no records of Indiana Bat Hibernacula with 10 miles of the project.

There are no existing or proposed state nature preserves at the project site. We are also unaware of any unique ecological sites, geologic features, breeding or non-breeding animal concentrations, state parks, state forests, scenic rivers, or wildlife areas within the project area.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although we inventory all types of plant communities, we only maintain records on the highest quality areas.

Please contact me at (614) 265-6409 if I can be of further assistance.

Sincerely,

Butch Grieszmer, Data Specialist  
Resource Services Group

[Signature]

ohiodnr.com
Expected Impact Area
(300-yd radius from targets)

Drop Zone Boundaries

Proposed Cadiz Drop Zone

Figure 2
Northeast end of Drop Zone, aspect northwest toward pond

Center of Drop Zone; close up of potential wetland area. Heavily trampled by cattle grazing.
West end of Drop Zone, aspect north western pond area.

West end of Drop Zone, aspect southwest toward wooded area.

Figure 3
Southern portion of Drop Zone, aspect north from fringe of wooded area.
Southern Portion of Drop Zone; view west into woodland area.
January 15, 2009

Carl Rykaczewski
Earth Tech
1461 Cooley Drive, Suite 100
Colton, CA 92324

Re: AFR Cadiz Drop Zone, Harrison County, OH

Dear Mr. Rykaczewski:

This is in response to your December 2, 2008 letter requesting information we may have regarding the occurrence or possible occurrence of Federally-listed threatened or endangered species within the vicinity of the proposed project located on an approximate 430 acre site located approximately 3.3 miles southwest of Cadiz in Harrison County, Ohio. We understand that the purpose of the proposed project is to lease the property for use as a drop zone for airdrop training by the Air Force Reserves. According to your letter, the study area is on a reclaimed strip mine that is currently being leased for cattle grazing. We understand that two ponds and several potential wetlands as well as a stream are located within the proposed site but that no direct impacts to aquatic resources are proposed.

There are no Federal wildlife refuges, wilderness areas, or Critical Habitat within the vicinity of this site.

The U.S. Fish and Wildlife Service recommends that proposed activities minimize water quality impacts and impacts to quality fish and wildlife habitat, such as forests, streams, and wetlands. Riparian zone habitat should be preserved wherever possible. Vegetated areas along stream and river banks stabilize the banks, provide fish and wildlife habitat, filter pollutants and excess nutrients from the water, store excess water during storm events, and minimize sedimentation. We recommend that the proposed action use best construction techniques to minimize erosion. Prevention of non-native, invasive plant establishment is critical in maintaining quality habitats. All disturbed areas should be mulched and re-vegetated with native plants. We recommend planting disturbed areas with native riparian species, for example willows, dogwoods, and cottonwoods. For maximum benefits on water quality and bank stabilization, riparian areas should not be mowed. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions.

MIGRATORY BIRD COMMENTS: The project lies within the range of the bald eagle (Haliaeetus leucocephalus), a species protected under the Bald and Golden Eagle Protection Act
and the Migratory Bird Treaty Act. Due to the project type, location, and onsite habitat, this species would not be expected within the project area, and no impact to this species is expected. Relative to this species, this precludes the need for further action on this project as required by the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act.

ENDANGERED SPECIES COMMENTS: The proposed project lies within the range of the Indiana bat (Myotis sodalis), a Federally-listed endangered species. Since first listed as endangered in 1967, their population has declined by nearly 60%. Several factors have contributed to the decline of the Indiana bat, including the loss and degradation of suitable hibernacula, human disturbance during hibernation, pesticides, and the loss and degradation of forested habitat, particularly stands of large, mature trees. Fragmentation of forest habitat may also contribute to declines. During winter, Indiana bats hibernate in caves and abandoned mines. Summer habitat requirements for the species are not well defined but the following are considered important:

1. dead or live trees and snags with peeling or exfoliating bark, split tree trunk and/or branches, or cavities, which may be used as maternity roost areas;
2. live trees (such as shagbark hickory and oaks) which have exfoliating bark;
3. stream corridors, riparian areas, and upland woodlots which provide forage sites.

Should the proposed site contain trees or associated habitats exhibiting any of the characteristics listed above, we recommend that the habitat and surrounding trees be saved wherever possible. According to your letter, the proposed project area is grassland that is currently being grazed with some wooded areas on the edges of the site that is not proposed to be impacted. Due to the past activities within the area and current on-site habitat, no impacts are expected for this species.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the Endangered Species Act of 1973 (ESA), as amended, and are consistent with the intent of the National Environmental Policy Act of 1969 and the U. S. Fish and Wildlife Service's Mitigation Policy. This letter provides technical assistance only and does not serve as a completed ESA section 7 consultation document.

If you have questions, or if we may be of further assistance in this matter, please contact Melanie Cota at extension 15 in this office or by email at Melanie_Cota@fws.gov or visit our website at http://www.fws.gov/midwest/Reynoldsburg/.

Sincerely,

Mary Knapp, Ph.D.
Field Supervisor

cc: ODNR, DOW, SCEA Unit, Columbus, OH
Mr. Mark J. Epstein  
Department Head  
Ohio Historic Preservation Office  
Resource Protection and Review  
567 East Hudson Street  
Columbus, OH 43211-1030

December 24, 2008

Dear Mr. Epstein,

Subject: Cadiz Drop Zone Section 106 Project Summary Form

On behalf of the Air Force Reserves (AFR), AECOM is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz. The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with federal laws, we are initiating correspondence and consultation efforts with your office regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has limitations that restrict the 911 AW’s airdrop training. The proposed Cadiz Drop zone offers the following improvements over the Starvaggi Drop Zone:

- A relatively level area without steep slopes, rugged terrain, and large trees
- A large area to establish a rectangular drop zone 1,000 yards by 1,500 yards in size
- Can be surveyed as a circular drop zone to support aircraft run-ins from more than a single direction
- It is not located in airspace where drop altitudes and airspeeds for airdrop operations are limited.

Because the airdrop training limitations currently imposed by use of the Starvaggi Drop Zone would not be present at the Cadiz Drop Zone, the Proposed Action would greatly increase the 911 AW’s training capability and combat readiness.

The area proposed to be leased by the AFR is a reclaimed strip mine owned by CONSOL Energy. Although no comprehensive archaeological survey has been performed across the entire Cadiz Drop
Zone, land alterations associated with mining operations have obscured or removed all remnants of the original ground surface. The likelihood of finding prehistoric cultural resources is negligible. A record search conducted by your office noted one cultural resource survey had been conducted within a mile radius of the APE. This survey covered a small portion of the Cadiz Drop Zone, less than ten percent of the APE, but a significant portion of the parcel that was not affected by the strip mine operation and reclamation. As a result of this survey, a single cultural resource, the Barricklow Farm was recorded. No prehistoric resources were encountered.

Enclosed you will find a completed Resource Protection and Review – Section 106 Review – Project Summary Form. We believe the project will have No Adverse Effect [36CFR 800.4(d)(1)] on historic properties. Thank you for your cooperation with our efforts to address any possible cultural resource that may be impacted. We look forward to your response. Please contact Christopher Doolittle if you need additional information (christopher.doolittle@aecom.com; 909-554-5045).

Sincerely,

[Signature]

Christopher Doolittle
Cultural Resources Manager
AECOM

Enc: Cadiz Drop Zone Project Summary Form
January 22, 2009

Christopher Doolittle
AECOM
1461 E. Cooley Drive, Suite 100
Colton, California 92324

Dear Mr. Doolittle:

Re: Cadiz Drop Zone, Cadiz Township, Harrison County, Ohio

This is in response to your correspondence, received on January 5, 2009, regarding the new drop zone for the 911th Airlift Wing in Cadiz Township, Harrison County, Ohio. My comments are made pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended, and the associated regulations at 36 CFR Part 800. Based on the information submitted, it is my opinion that the proposed undertaking will not affect properties listed in or eligible for listing in the National Register of Historic Places. No further coordination is required unless the project changes or archaeological remains are discovered during the course of the project. In such a situation, this office should be contacted as per 36 CFR 800.13.

If you have any questions, please contact me at (614) 298-2000, or by email at nyoung@ohiohistory.org.

Sincerely,

Nathan J. Young, Project Reviews Manager
Resource Protection and Review
Mr. John P. Froman  
Chief, Peoria Tribe of Oklahoma  
PO Box 1527  
118 S. Eight Tribe Trail  
Miami, OK  74355

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:
   (a) American Indian Religious Freedom Act of 1978  
   (b) Native American Graves Protection and Repatriation Act of 1990  
   (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Froman:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has limitations that restrict the 911 AW’s airdrop training. The proposed Cadiz Drop Zone offers the following improvements over the Starvaggi Drop Zone:

− A relatively level area without steep slopes, rugged terrain, and large trees
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− Can be surveyed as a circular drop zone to support aircraft run-ins from more than a single direction
− It is not located in airspace where drop altitudes and airspeeds for airdrop operations are limited.

Because the airdrop training limitations currently imposed by use of the Starvaggi Drop Zone would not be present at the Cadiz Drop Zone, the Proposed Action would greatly increase the 911 AW’s training capability and combat readiness.

The area proposed to be leased by the AFR is a reclaimed strip mine owned by CONSOL Energy. Although no comprehensive archaeological survey has been performed across the entire Cadiz Drop Zone, land alterations associated with mining operations have obscured or removed all remnants of the original ground
surface. The likelihood of finding prehistoric cultural resources is negligible. A record search conducted by the Ohio Historic Preservation Office noted one cultural resource survey had been conducted within a mile radius of the project area. This survey covered a small portion of the Cadiz Drop Zone, less than 10 percent of the APE, but a significant portion of the parcel that was not affected by the strip mine operation and reclamation. As a result of this survey, a single cultural resource, the Barricklow Farm was recorded. No prehistoric resources were encountered.

At this stage, the AFR invites you to participate in consultation for the leasing of the Cadiz Drop Zone. To ensure that any areas of sacred or spiritual significance to Native American groups are considered, we would appreciate your help in identifying or sharing any interests or concerns regarding religious or cultural resources within the lands of the Cadiz Drop Zone. Our goal is to protect areas important to Native Americans who have lived in the area of the Cadiz Drop Zone in the past, or have interest in it for the future.

Thank you for your cooperation with our efforts to address any possible Native American concerns that may be impacted. We look forward to your response. Please contact me at 909.554.5052 if you need additional information.

Sincerely,

Earth Tech Inc.,

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
January 22, 2009

Earth Tech  
Attn: Carl Rykaczewski  
Senior Environmental Professional  
1461 E Cooley Drive, Suite 100  
Colton, CA 92324

RE: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

Thank you for notice of the referenced project. The Peoria Tribe of Indians of Oklahoma is currently unaware of any documentation directly linking Indian Religious Sites to the proposed construction. In the event any items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) are discovered during construction, the Peoria Tribe request notification and further consultation.

The Peoria Tribe has no objection to the proposed construction. However, if human skeletal remains and/or any objects falling under NAGPRA are uncovered during construction should stop immediately, and the appropriate persons, including state and tribal NAGPRA representatives contacted.

John P. Froman  
Chief

xc: Bud Ellis, Repatriation/NAGPRA Committee Chairman
Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:
(a) American Indian Religious Freedom Act of 1978
(b) Native American Graves Protection and Repatriation Act of 1990
(c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Grant:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has limitations that restrict the 911 AW’s airdrop training. The proposed Cadiz Drop Zone offers the following improvements over the Starvaggi Drop Zone:

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- It is not located in airspace where drop altitudes and airspeeds for airdrop operations are limited.

Because the airdrop training limitations currently imposed by use of the Starvaggi Drop Zone would not be present at the Cadiz Drop Zone, the Proposed Action would greatly increase the 911 AW’s training capability and combat readiness.

The area proposed to be leased by the AFR is a reclaimed strip mine owned by CONSOL Energy. Although no comprehensive archaeological survey has been performed across the entire Cadiz Drop Zone, land alterations associated with mining operations have obscured or removed all remnants of the original ground
surface. The likelihood of finding prehistoric cultural resources is negligible. A record search conducted by the Ohio Historic Preservation Office noted one cultural resource survey had been conducted within a mile radius of the project area. This survey covered a small portion of the Cadiz Drop Zone, less than 10 percent of the APE, but a significant portion of the parcel that was not affected by the strip mine operation and reclamation. As a result of this survey, a single cultural resource, the Barricklow Farm was recorded. No prehistoric resources were encountered.

At this stage, the AFR invites you to participate in consultation for the leasing of the Cadiz Drop Zone. To ensure that any areas of sacred or spiritual significance to Native American groups are considered, we would appreciate your help in identifying or sharing any interests or concerns regarding religious or cultural resources within the lands of the Cadiz Drop Zone. Our goal is to protect areas important to Native Americans who have lived in the area of the Cadiz Drop Zone in the past, or have interest in it for the future.

Thank you for your cooperation with our efforts to address any possible Native American concerns that may be impacted. We look forward to your response. Please contact me at 909.554.5052 if you need additional information.

Sincerely,

Earth Tech Inc.,

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
January 6, 2009

Mr. Robert Guenthardt  
Chairman, Little River Band of Ottawa Indians of Michigan  
375 River Street  
Manistee, Michigan 49660-2729

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:  
(a) American Indian Religious Freedom Act of 1978  
(b) Native American Graves Protection and Repatriation Act of 1990  
(c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Guenthardt:

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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
January 6, 2009

Mr. Clint Halftown
Chief, Cayuga Nation
PO Box 11
Versailles, NY 14168

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:
(a) American Indian Religious Freedom Act of 1978
(b) Native American Graves Protection and Repatriation Act of 1990
(c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Halftown:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

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Thank you for your cooperation with our efforts to address any possible Native American concerns that may be impacted. We look forward to your response. Please contact me at 909.554.5052 if you need additional information.

Sincerely,

Earth Tech Inc.,

[Signature]

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
Mr. Darwin Hill  
Tonawanda Band of Seneca Indians of New York  
7027 Meadville Road  
Basom, New York 14013

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:  
(a) American Indian Religious Freedom Act of 1978  
(b) Native American Graves Protection and Repatriation Act of 1990  
(c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

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Sincerely,

Earth Tech Inc.,

[Signature]

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
Ms. Clara P. Holt  
NAGPRA Officer, Eastern Band of Cherokee Indians of North Carolina  
P.O. Box 455  
Cherokee, North Carolina 28719

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:
(a) American Indian Religious Freedom Act of 1978  
(b) Native American Graves Protection and Repatriation Act of 1990  
(c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

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Sincerely,

**Earth Tech Inc.,**

[Signature]

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
Mr. John Miller  
Pokagon Band of Potawatomi Indians  
PO Box 180  
901 Spruce Street  
Dowagiac, Michigan 49047

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:
   (a) American Indian Religious Freedom Act of 1978
   (b) Native American Graves Protection and Repatriation Act of 1990
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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
Ms. Kathleen Mitchell  
THPO, Seneca Nation of Indians  
PO Box 231  
Salamanca, New York 14779

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:
(a) American Indian Religious Freedom Act of 1978  
(b) Native American Graves Protection and Repatriation Act of 1990  
(c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
January 6, 2009

Ms. Julie Olds
THPO, Miami Tribe of Oklahoma
P.O. Box 1326
202 South Eight Tribes Trail
Miami, Oklahoma 74355

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:
(a) American Indian Religious Freedom Act of 1978
(b) Native American Graves Protection and Repatriation Act of 1990
(c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Ms. Olds:

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Sincerely,

Earth Tech Inc.,

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
January 15, 2009

Earth Tech
1461 E. Cooley Drive, Suite 100
Colton, California 92324

RE: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

To Whom It May Concern:

Aya, kikwesitoole. My name is Joshua Sutterfield and I am the Tribal Historic Preservation Officer for the Federally Recognized Miami Tribe of Oklahoma. In this capacity I am the Miami Nation’s point of contact for all NAGPRA and Section 106 issues.

In reference to the above mentioned construction/project’s, the Miami Nation is not currently aware of existing documentation directly linking specific Miami religious, cultural, or historic sites to the above referenced construction/project site(s). However, as this site(s) is/are within the aboriginal homelands of the Miami Nation, should any Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) be discovered during this or any construction project the Miami Nation requests immediate consultation with the appropriate State Historical Society or related entity.

The Miami Nation offers no objection to the proposed construction/project at this time. Again, should human remains and/or objects be uncovered please contact me at 918-542-1445, or by mail at the address listed above, to initiate consultation.

Sincerely

Joshua Sutterfield
Tribal Historic Preservation Officer
Miami Nation
Mr. Philip G. Peters  
Chief, Saginaw Chippewa Indian Tribe of Michigan  
Isabella Reservation  
7070 East Broadway Road  
Mount Pleasant, Michigan 48858

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:
(a) American Indian Religious Freedom Act of 1978  
(b) Native American Graves Protection and Repatriation Act of 1990  
(c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Mr. Peters:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has limitations that restrict the 911 AW’s airdrop training. The proposed Cadiz Drop Zone offers the following improvements over the Starvaggi Drop Zone:

− A relatively level area without steep slopes, rugged terrain, and large trees
− A large area to establish a rectangular drop zone 1,000 yards by 1,500 yards in size
− Can be surveyed as a circular drop zone to support aircraft run-ins from more than a single direction
− It is not located in airspace where drop altitudes and airspeeds for airdrop operations are limited.

Because the airdrop training limitations currently imposed by use of the Starvaggi Drop Zone would not be present at the Cadiz Drop Zone, the Proposed Action would greatly increase the 911 AW’s training capability and combat readiness.

The area proposed to be leased by the AFR is a reclaimed strip mine owned by CONSOL Energy. Although no comprehensive archaeological survey has been performed across the entire Cadiz Drop Zone, land alterations associated with mining operations have obscured or removed all remnants of the original ground
surface. The likelihood of finding prehistoric cultural resources is negligible. A record search conducted by the Ohio Historic Preservation Office noted one cultural resource survey had been conducted within a mile radius of the project area. This survey covered a small portion of the Cadiz Drop Zone, less than 10 percent of the APE, but a significant portion of the parcel that was not affected by the strip mine operation and reclamation. As a result of this survey, a single cultural resource, the Barricklow Farm was recorded. No prehistoric resources were encountered.

At this stage, the AFR invites you to participate in consultation for the leasing of the Cadiz Drop Zone. To ensure that any areas of sacred or spiritual significance to Native American groups are considered, we would appreciate your help in identifying or sharing any interests or concerns regarding religious or cultural resources within the lands of the Cadiz Drop Zone. Our goal is to protect areas important to Native Americans who have lived in the area of the Cadiz Drop Zone in the past, or have interest in it for the future.

Thank you for your cooperation with our efforts to address any possible Native American concerns that may be impacted. We look forward to your response. Please contact me at 909.554.5052 if you need additional information.

Sincerely,

Earth Tech Inc.,

[Signature]

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
January 6, 2009

Ms. Laura Spurr
Huron Potawatomi Nation
2221 1½ Mile Road
Fulton, Michigan 49052

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:
   (a) American Indian Religious Freedom Act of 1978
   (b) Native American Graves Protection and Repatriation Act of 1990
   (c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Ms. Spurr:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has limitations that restrict the 911 AW’s airdrop training. The proposed Cadiz Drop Zone offers the following improvements over the Starvaggi Drop Zone:

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the Ohio Historic Preservation Office noted one cultural resource survey had been conducted within a mile radius of the project area. This survey covered a small portion of the Cadiz Drop Zone, less than 10 percent of the APE, but a significant portion of the parcel that was not affected by the strip mine operation and reclamation. As a result of this survey, a single cultural resource, the Barricklow Farm was recorded. No prehistoric resources were encountered.

At this stage, the AFR invites you to participate in consultation for the leasing of the Cadiz Drop Zone. To ensure that any areas of sacred or spiritual significance to Native American groups are considered, we would appreciate your help in identifying or sharing any interests or concerns regarding religious or cultural resources within the lands of the Cadiz Drop Zone. Our goal is to protect areas important to Native Americans who have lived in the area of the Cadiz Drop Zone in the past, or have interest in it for the future.

Thank you for your cooperation with our efforts to address any possible Native American concerns that may be impacted. We look forward to your response. Please contact me at 909.554.5052 if you need additional information.

Sincerely,

Earth Tech Inc.,

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
Ms. Phyllis Wahahrockah-Tasi  
NAGPRA Director, Delaware Nation  
P.O. Box 825  
Anadarko, Oklahoma 73005

Subject: Consultation on Native American Interests Regarding Traditional and Historic Resources at Cadiz Drop Zone, Harrison County, Ohio

References:
(a) American Indian Religious Freedom Act of 1978  
(b) Native American Graves Protection and Repatriation Act of 1990  
(c) Section 106 of the National Historic Preservation Act (36 CFR Part 800), as amended

Dear Ms. Wahahrockah-Tasi:

On behalf of the Air Force Reserves (AFR), AECOM Technical Services is preparing an Environmental Assessment and Environmental Baseline Survey for the proposed lease of a 430-acre parcel located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz (Figure 1). The parcel will be used as a drop zone by the 911th Airlift Wing (911 AW) located at Pittsburgh International Airport (IAP) Air Reserve Station (ARS), Coraopolis, Pennsylvania. As part of this effort, and in compliance with the above references, we are initiating correspondence and consultation efforts to affiliated tribal groups regarding the proposed lease of the Cadiz Drop Zone. The entire 430-acre parcel is considered the Area of Potential Effect (APE).

The 911 AW conducts airdrop training as part of its combat crew training. The unit currently has a drop zone, the Starvaggi Drop Zone, located near Burgettstown, Pennsylvania. However, this site has limitations that restrict the 911 AW’s airdrop training. The proposed Cadiz Drop Zone offers the following improvements over the Starvaggi Drop Zone:

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Because the airdrop training limitations currently imposed by use of the Starvaggi Drop Zone would not be present at the Cadiz Drop Zone, the Proposed Action would greatly increase the 911 AW’s training capability and combat readiness.

The area proposed to be leased by the AFR is a reclaimed strip mine owned by CONSOL Energy. Although no comprehensive archaeological survey has been performed across the entire Cadiz Drop Zone, land alterations associated with mining operations have obscured or removed all remnants of the original ground surface. The likelihood of finding prehistoric cultural resources is negligible. A record search conducted by
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At this stage, the AFR invites you to participate in consultation for the leasing of the Cadiz Drop Zone. To ensure that any areas of sacred or spiritual significance to Native American groups are considered, we would appreciate your help in identifying or sharing any interests or concerns regarding religious or cultural resources within the lands of the Cadiz Drop Zone. Our goal is to protect areas important to Native Americans who have lived in the area of the Cadiz Drop Zone in the past, or have interest in it for the future.

Thank you for your cooperation with our efforts to address any possible Native American concerns that may be impacted. We look forward to your response. Please contact me at 909.554.5052 if you need additional information.

Sincerely,

Earth Tech Inc.,

[Signature]

Carl Rykaczewski
Senior Environmental Professional

Attachment:
1. Figure 1
APPENDIX K

INTERAGENCY AND INTERGOVERNMENTAL COORDINATION FOR ENVIRONMENTAL PLANNING AND PUBLIC COMMENTS AND RESPONSES
Interagency and Intergovernmental Coordination for Environmental Planning and Public Comments and Responses

The draft environmental assessment (EA)/environmental baseline survey (EBS) was circulated to the agencies listed below for 30-day review beginning on February 2, 2009. A notice of availability informing the public where a copy of the Draft EA/EBS was available for review and who to contact for further information or to submit comments was published in the Harrison News Herald for the week beginning Monday, February 2, 2009. A copy of this notice is provided in this appendix. This appendix also provides the Air Force Reserve’s responses to comments received to the Draft EA/EBS followed by copies of the comments.

Distribution List for the Draft Cadiz Drop Zone EA/EBS
February 2009

Elected Officials

State of Ohio Officials

State Legislature

The Honorable Allan R Sayre
Ohio State Representative, District 96
77 S. High St
10th Floor
Columbus, OH 43215-6111

The Honorable Jason H. Wilson
Senate Building
Room #052, Ground Floor
Columbus, Ohio 43215

Local Officials

Ken Zitko
Mayor
44375 Cherrywood Dr.
Cadiz, Ohio 43907

Harrison County Board of Commissioners
William Host
President, Commissioner
100 West Market Street
County Courthouse
Cadiz, OH 43907-1132
Federal Agencies

U.S. Department of the Interior
Office of Environmental Policy and Compliance
Philadelphia Region Custom House, Room 244
200 Chestnut Street
Philadelphia, PA 19106

Federal Aviation Administration
Detroit Airports District Office, DET -ADO-600
11677 South Wayne Road, Suite 107
Romulus, MI 48174

U.S. Fish & Wildlife Service
Ohio Ecological Services Field Office
4625 Morse Road
Columbus, Ohio 43230

U.S. Environmental Protection Agency, Region 5
NEPA Expert
Attn: Mr. Ken Westlake
77 W. Jackson Blvd.
Chicago, IL 60604

Department of Defense

U.S. Army Corps of Engineers
Office of Environmental Policy (CECW-AR-E)
7701 Telegraph Road
Alexandria, VA 22315-3861

State Agencies

Ohio Department of Natural Resources
Division of Natural Areas & Preserves
Natural Heritage Program
2045 Morse Rd., Bldg. F-1
Columbus, OH 43229-6693

Ohio Department of Natural Resources
Division of Wildlife
Neil Lynskey
912 Portage Lakes Drive
Akron, Ohio 44319
Ohio Environmental Protection Agency  
Southeast District Office  
2195 Front Street  
Logan, Ohio 43138

Ohio Historical Society  
Ohio Historic Preservation Office  
567 East Hudson Street  
Columbus, Ohio 43211-1030

**Local Agencies**

Harrison County Airport Authority  
43000 Airport Road  
Cadiz, OH 43907-9605

**Libraries**

Puskarich Public Library  
200 Market St  
Cadiz, OH 43907
NOTICE OF AVAILABILITY
DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT
Establish New Cadiz Drop Zone in Cadiz, Ohio

The Air Force Reserves have prepared a combined Draft Environmental Assessment (EA), Baseline Survey (EBS), and Finding of No Significant Impact (FONSI), dated January 2009 in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality regulations implementing NEPA. The Draft EA/EBS has been prepared to support the proposed lease of property located near Cadiz for use as a drop zone for training by the 911th Airlift Wing (AW) of the Air Force Reserves. The 911 AW is located at Pittsburgh International Airport Air Reserve Station, Coraopolis, PA.

The following alternatives have been addressed in the EA:
- The Proposed Action entails the 911 AW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.3 miles southwest of the town of Cadiz. The property would be used for airdrop training activities including dropping sandbags and heavier materials from C-130 aircraft and occasional use for paratrooper drops.
- The No-Action Alternative would involve the Air Force Reserves not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

The Draft EA/EBS and FONSI are available for review at the following location:

Puskarich Public Library
200 Market Street
Cadiz, OH 43907

Public comment on the Draft EA/EBS and FONSI must be received by March 3, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.rykaczewski@aecom.com.

Mr. Carl R. Rykaczewski
AECOM
1461 E. Cooley Drive, Suite 100
Colton, CA 92324

Your comments on this Draft EA/EBS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period or to fulfill requests for copies of the final EA/EBS. Personal home addresses and telephone numbers will not be published in the Final EA/EBS.
## Responses to Comments

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Agency</th>
<th>Comment</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Mary Knapp, PhD</td>
<td>U.S. Fish and Wildlife Service</td>
<td>Due to declining budgets, smaller staffs, and competing priorities, we are unable to respond to all requests for technical assistance at this time. Without a thorough review of the project, it would be impossible to accurately assess the potential effects. (Note: The USFWS previously provided a response to a request for information in which they indicated no impacts to bald eagles or Indiana bats are expected from this project. The response is provided in Appendix J.)</td>
<td>Comment noted.</td>
</tr>
<tr>
<td>2.</td>
<td>Kenneth Westlake</td>
<td>U.S. Environmental Protection Agency, Region V</td>
<td>The document was given a cursory review, and we determined that there were no significant concerns meriting comment.</td>
<td>Comment noted.</td>
</tr>
<tr>
<td>3.</td>
<td>Katherine S. Delaney</td>
<td>Federal Aviation Administration</td>
<td>We have no comments provided that the Air Force Reserves coordinates Drop Zone activities with the FAA, Flight Service Stations and issues the appropriate NOTAMs.</td>
<td>Comment noted.</td>
</tr>
<tr>
<td>4.</td>
<td>Craig Butler</td>
<td>Ohio Environmental Protection Agency, Southeast District Office</td>
<td>Ohio EPA, Southeast District Office reviewed the information provided and our current records to determine if there are outstanding environmental compliance issues with the 430 acre parcel identified. No issues were identified.</td>
<td>Comment noted.</td>
</tr>
<tr>
<td>5a.</td>
<td>Brian Mitch</td>
<td>Ohio Department of Natural Resources, Division of Natural Areas and Preserves</td>
<td>The ODNR, Division of Natural Areas and Preserves, Natural Heritage Database contains no records of rare species or unique natural features within the proposed project area and there are no state nature preserves, state parks, wildlife areas, or scenic rivers in the vicinity of the sites. Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area.</td>
<td>Comment noted.</td>
</tr>
<tr>
<td>5b.</td>
<td>Brian Mitch</td>
<td>Ohio Department of Natural Resources, Division of Wildlife</td>
<td>The project is within the range of the Indiana bat (<em>Myotis sodalis</em>), a state and federally endangered species. Since no tree removal is necessary to complete this project, the DOW believes the project is not likely to impact this species.</td>
<td>This comment is consistent with the findings of the EA/EBS. No revision to the document has been made.</td>
</tr>
<tr>
<td>5c.</td>
<td>Brian Mitch</td>
<td>Ohio Department of Natural Resources, Division of Wildlife</td>
<td>The project is within the range of the bald eagle (<em>Haliaeetus leucocephalus</em>), a state threatened species. The location of bald eagle activity frequently changes. Therefore, closer to the actual date of construction, the applicant must obtain an updated status of bald eagle activity in the area. To obtain any changes in status, contact Andrea Tibbels or Dave Sherman at the Ohio Department of Natural Resources, Division of Wildlife, Crane Creek Wildlife Research Station, for current information on the presence of bald eagles in the area. Andrea can be reached at (419) 898-0960 extension 25 and Dave at extension 24. If a nest is located within ½ mile of the project site, coordination with the DOW is required.</td>
<td>The AFR will contact the Ohio Department of Natural Resources, Division of Wildlife, Crane Creek Wildlife Research Station, for current information on the presence of bald eagles in the area prior to initiation of activities at the proposed Cadiz Drop Zone. The document has been revised to include this provision. Note: Subsequent comment from ODNR DOW supersedes this comment (see 5e).</td>
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</tr>
<tr>
<td>5d.</td>
<td>Brian Mitch</td>
<td>Ohio Department of Natural Resources, Division of Wildlife</td>
<td>The project is within the range of the black bear (<em>Ursus americanus</em>), a state endangered species, and the bobcat (<em>Lynx rufus</em>), a state endangered species. Due to the mobility of these species, the project is not likely to have an impact on these species.</td>
<td>The document has been revised to incorporate this information.</td>
</tr>
<tr>
<td>5e.</td>
<td>Brian Mitch</td>
<td>Ohio Department of Natural Resources, Division of Wildlife</td>
<td>Since there are no plans for construction for this project, the DOW believes the project is not likely to impact the bald eagle (<em>Haliaeetus leucocephalus</em>), a threatened and endangered species. Therefore, there is no need for the Air Force Reserves to contact the DOW “closer to the date of actual construction” and there is no need for the Air Force Reserves to contact the DOW prior to beginning air drop activities.</td>
<td>Comment noted.</td>
</tr>
<tr>
<td></td>
<td>Scott Sedgmer</td>
<td>Private Citizen</td>
<td>No Action. This would disrupt our quiet community. Farm animals would be affected also.</td>
<td>The Cadiz, Ohio, area is located within LATN A where low-altitude flights of C-130 aircraft currently are conducted. In the LATN, C-130 aircraft fly as low as 500 feet AGL which is the same minimum altitude that the same type of aircraft would be flown during the proposed drop zone activities. Aircraft operations at the drop zone would be more concentrated than the currently dispersed low-altitude aircraft operations that occur in the area. However, as discussed in Section 4.3.1, the predicted noise levels in the vicinity of the proposed drop zone would be less than DNL 45dBA. Noise levels below DNL 65dBA are considered by the FAA to be compatible with all land uses, including residential and agricultural. As stated in Section 3.4, the DNL descriptor has been recognized by HUD, U.S. EPA, FAA, and DOD as one of the most appropriate metrics for estimating degree of nuisance or annoyance that increased noise levels would cause. In addition, activities proposed for the Cadiz Drop Zone are the same as are currently conducted at the Starvaggi Drop Zone near Burgettstown, Pennsylvania. The AFR has received no noise complaints from current drop zone activities conducted at the Starvaggi Drop Zone.</td>
</tr>
<tr>
<td>7-15.</td>
<td>Darin Rose Dick and Bobbie Dickerson Mark Fulton Ronald Wilson Maryann Lee Jeanette Hale Teresa Shaw Jan and Arnold Helmick Rich and Lucy Helmick</td>
<td>Private Citizens</td>
<td>No Action (Note: all 9 comments are identical)</td>
<td>The AFR has noted these comments expressing a preference for the No-Action Alternative. No revision to or clarification of the analysis in the EA/EBS is required in response to this comment.</td>
</tr>
</tbody>
</table>
Carl Rykaczewski
AECOM
1461 E. Cooley Drive, Suite 100
Colton, CA 92324

Re: Draft EA/EBS and FONSI to Establish New Drop Zone in Cadiz, OH

Dear Mr. Rykaczewski:

We have received your recent correspondence requesting information about the subject proposal. Due to declining budgets, smaller staffs, and competing priorities, we are unable to respond to all requests for technical assistance at this time. Without a thorough review of the project, it would be impossible to accurately assess the potential effects.

As an alternative, we encourage you to visit the Service’s Region 3 Section 7 Technical Assistance website at http://www.fws.gov/midwest/endangered/section7/s7process. There you will find guidance to assist you in fulfilling the requirements for consultation under Section 7 of the Endangered Species Act, including a step-by-step explanation of the section 7 process, species distribution lists, species life history information and conservation measures, and examples of typical letters.

If you have additional questions or require further assistance with your project proposal, please contact me at the following number (614) 416-8993 x12. I would be happy to discuss the project in further detail with you and provide additional assistance if necessary. In addition, you can find more information on natural resources in Ohio by visiting our homepage at: http://www.fws.gov/midwest/Reynoldsburg.

Sincerely,

Mary Knapp, Ph.D.
Field Supervisor
Date: February 4, 2009

Carl Rykaczewski
AECOM
1461 East Cooley Drive, Suite 100
Colton, California 92324

RE: Draft Environmental Assessment/Baseline Survey to Establish New Drop Zone in Cadiz, Ohio

Dear Mr. Rykaczewski:

The NEPA Implementation Section has received the document listed above. Under the National Environmental Policy Act (NEPA), the Council on Environmental Quality regulations, and Section 309 of the Clean Air Act, U.S. EPA reviews and comments on major federal actions. Typically, these reviews focus on Environmental Impact Statements, but we also have the discretion to review and comment on other environmental documents prepared under NEPA if interest and resources permit.

We did not undertake a detailed review of the document you sent to this office, and will not be generating comments because of the reason selected below.

- The document was not prepared under NEPA.
- The document was given a cursory review, but other workload priorities precluded us from detailed review and comment.
- The document was given a cursory review, and we determined that there were no significant concerns meriting comment.

We opted to wait for the next level of documentation on this project before deciding whether or not to comment.

We reserve the right to reconsider undertaking a review at future planning stages, or if significant new data on the project is made available by the sponsoring agency or other interested parties. If you have any questions, please call Kathy Kowal, of my staff, at 312-353-5206 or e-mail her at kowal.kathleen@epa.gov. Thank you for providing information on the project.

Sincerely,

Kenneth A. Westlake, Supervisor
NEPA Implementation
Office of Enforcement and Compliance Assurance
Carl:

The FAA has reviewed the Draft Environmental Assessment/Baseline Survey (EA/EBS) and Draft Finding of No Significant Impact (FONSI) to Establish New Drop Zone in Cadiz, Ohio.

We have no comments provided that the Air Force Reserves coordinates Drop Zone activities with the FAA, Flight Service Stations and issues the appropriate NOTAMs.

If you have any questions, please contact me.

Katherine S. Delaney  
Community Planner  
Detroit Airports District Office  
Phone: (734) 229-2958
February 25, 2009

Carl Rykaczewski, Delivery Order Manager
AECOM
1461 E. Cooley Drive Suite 100
Colton, CA 92324

Dear Mr. Rykaczewski:

This letter is in response to your January 29, 2009 letter requesting input from Ohio EPA on the Draft Environmental Assessment/Baseline Survey (EA/EBS) and Draft Finding of No Significant Impact (FONSI) to establish a new drop zone in Cadiz, Ohio.

Ohio EPA, Southeast District Office reviewed the information provided and our current records to determine if there are outstanding environmental compliance issues with the 430 acre parcel identified. No issues were identified.

Thank you for the opportunity to comment. If you have any additional questions, or need additional information, please contact me at (740) 385-8501.

Sincerely,

Craig Butler, Chief
CB/pah
ODNR COMMENTS TO Carl Rykaczewski, AECOM, 1461 East Cooley Drive, Suite 100, Colton, California 92324

Location: The project is located in Harrison County, Ohio, approximately 3.3 miles southwest of the town of Cadiz.

Project: The project involves the Air Force Reserve (AFR) leasing a 430-acre parcel which will be used as a drop zone by the 911th Airlift Wing Located at Pittsburgh International Airport Air Reserve Station in Corapolis, Pennsylvania.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR’s experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Rare and Endangered Species: The ODNR, Division of Natural Areas and Preserves, Natural Heritage Database contains no records of rare species or unique natural features within the proposed project area and there are no state nature preserves, state parks, wildlife areas, or scenic rivers in the vicinity of the sites.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area.

Fish and Wildlife: The ODNR, Division of Wildlife (DOW) has the following comments.

The project is within the range of the Indiana bat (Myotis sodalis), a state and federally endangered species. Since no tree removal is necessary to complete this project, the DOW believes the project is not likely to impact this species.

The project is within the range of the bald eagle (Haliaeetus leucocephalus), a state threatened species. The location of bald eagle activity frequently changes. Therefore, closer to the actual date of construction, the applicant must obtain an updated status of bald eagle activity in the area. To obtain any changes in status, contact Andrea Tibbels or Dave Sherman at the Ohio Department of Natural Resources, Division of Wildlife, Crane Creek Wildlife Research Station, for current information on the presence of bald eagles in the area. Andrea can be reached at (419) 898-0960 extension 25 and Dave at extension 24. If a nest is located within ½ mile of the project site, coordination with the DOW is required.
The project is within the range of the black bear (*Ursus americanus*), a state endangered species, and the bobcat (*Lynx rufus*), a state endangered species. Due to the mobility of these species, the project is not likely to have an impact on these species.

ODNR appreciates the opportunity to provide these comments. Please contact Brian Mitch at (614) 265-6378 if you have questions about these comments or need additional information.

Brian Mitch, Environmental Review Manager
Ohio Department of Natural Resources
Environmental Services Section
2045 Morse Road, Building D-3
Columbus, Ohio 43229-6693
Office: (614) 265-6378
FAX: (614) 267-4764
brian.mitch@dnr.state.oh.us
From: Mitch, Brian [mailto:Brian.Mitch@dnr.state.oh.us]
Sent: Wednesday, March 18, 2009 9:42 AM
To: Sniezek, Frank Civ USAF AFRC 911 MSG/CEVE
Cc: Matis, Joseph B Civ USAF AFRC 911 MSG/CEV
Subject: RE: ODNR Response to Environmental Assessment/Baseline Survey to Establish New Drop Zone in Cadiz, Ohio

Frank,

After reviewing the additional information provided for this project, the Ohio Department of Natural Resources, Division of Wildlife (DOW) has the following comments:

Since there are no plans for construction for this project, the DOW believes the project is not likely to impact the bald eagle (Haliaeetus leucocephalus), a threatened and endangered species. Therefore, there is no need for the Air Force Reserves to contact the DOW "closer to the date of actual construction" and there is no need for the Air Force Reserves to contact the DOW prior to beginning air drop activities.

Brian Mitch, Environmental Review Manager Ohio Department of Natural Resources Environmental Services Section
2045 Morse Rd., Building D-3
Columbus, OH 43229-6693
Office: (614) 265-6378
Fax: (614) 267-4764
brian.mitch@dnr.state.oh.us
NOTICE OF AVAILABILITY

DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT

Establishment of New Cadiz Drop Zone in Cadiz, Ohio

The Air Force Reserve has prepared a combined Draft Environmental Assessment (DEA), Resource Survey (RS), and Finding of No Significant Impact (FONSI), dated January 2003, in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality regulations implementing NEPA. The Draft EA/RS has been prepared to support the proposed lease of property located near Cadiz for use as a Drop zone for training by the 911th Aircraft Wing (AW) of the Air Force Reserve Station, Cadiz, PA. The following alternatives have been addressed in the EA:

- The Proposed Action entails the 911 AW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.3 miles southwest of the town of Cadiz. The property would be used for aerial training activities including dropping sandbags and heavier materials from C-130 aircraft and occasional use for paratrooper drops.
- The No-Action Alternative would involve the Air Force Reserve not leasing property near Cadiz and continuing to use an existing drop zone near Burgawtown, PA.

The Draft EA/RS and FONSI are available for review at the following locations:

- Pickerington Public Library
  220 Market Street
  Cadiz, OH: 43907

Public comment on the Draft EA/RS and FONSI must be received by March 9, 2003. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.rykaczewski@ae.com.

Mr. Carl Rykaczewski
AECOM
1061 E. Cooley Drive, Suite 100
Columbus, OH, 43234

Your comments on this Draft EA/RS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period of to fulfill requests for copies of the final EA/RS. Personal home addresses and telephone numbers will not be published in the Final EA/RS.

No Action

Scott Sedgmer
Cadiz, OH

This would disrupt our quiet community. Farm animals would be affected, also.
NOTICE OF AVAILABILITY

DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT

The Air Force Research Laboratory issued a combined Draft Environmental Assessment (EA), Draftsman Survey (EBS), and Finding of No Significant Impact (FONSI), dated January 2009 in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality regulations implementing NEPA. The Draft EA/EBS has been prepared to support the proposed lease of property located near Cadiz, Ohio as a drop zone for training by the 911th

April Wing (AW) of the Air Force Reserves. The 911 AW is located at Pittsburgh International Airport Air Reserve Station, Coraopolis, PA.

The following alternatives have been addressed in the EA:

- The Proposed Action outside the 911 AW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.5 miles southwest of the town of Cadiz. This property would be used for aerial training activities involving dropping sandbags and heavier material from C-130 aircraft and occasional use for paratrooper drops.
- The No-Action Alternative would involve the Air Force Reserves not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

The Draft EA/EBS and FONSI are available for review at the following location:

Pilatarch Public Library
200 Market Street
Cadiz, OH 43907

Public comments on the Draft EA/EBS and FONSI must be received by March 3, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.rykaczewski@aecom.com.

Mr. Carl Rykaczewski
AECOM
1461 E. Cooley Drive, Suite 100
Canton, CA, 92324

Your comments on this Draft EA/EBS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period or to fulfill requests for copies of the final EA/EBS. Personal home addresses and telephone numbers will not be published in the Final EA/EBS.

NO ACTION

Darin Rose

cadiz, OH
NOTICE OF AVAILABILITY
DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT
Establish New Cadiz Drop Zone in Cadiz, Ohio

The Air Force Reserve has prepared a combined Draft Environmental Assessment (EA), Draft Environmental Impact Statement (EIS), and Finding of No Significant Impact (FONSI), dated January 2008, in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality Regulations Implementing NEPA. The Draft EA/EIS has been prepared to support the proposed lease of property located near Cadiz, Ohio, for use as a drop zone for training by the 911th Airlift Wing (AW) of the Air Force Reserve. The 911th AW is located at Pittsburgh International Airport, Air Reserve Station, Coraopolis, PA.

The following alternatives have been addressed in the EA:
- The proposed action involves the 911th AW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.3 miles southwest of the city of Cadiz. The property would be used for parachute training activities including dropping sandbags and heavier materials from C-130 aircraft and occasional use for paratrooper drops.
- The No-Action Alternative would involve the Air Force Reserve not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

This Draft EA/EIS and FONSI are available for review at the following locations:
- Franklin Public Library
  200 Market Street
  Cadiz, OH 43907

Public comment on the Draft EA/EIS and FONSI must be received by March 3, 2008. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.r.rykaczewski@aecom.com.

Carl R. Rykaczewski
AECOM
1481 E. Cooley Drive, Suite 100
Cotton, CA 92234

Your comments on this Draft EA/EIS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period or to fulfill requests for copies of the final EA/EIS. Personal home addresses and telephone numbers will not be published in the final EA/EIS.

Dick & Bobbie Dickerson
Cadiz, OH
NOTICE OF AVAILABILITY

DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDINGS OF NO SIGNIFICANT IMPACT
Established New Drop Zone in Cadiz, Ohio

The Air Force Reserve has prepared a combined Draft Environmental Assessment (EA), Proposed Survey (EPS), and Findings of No Significant Impact (FONSI), dated January 2009 in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality regulations implementing NEPA. The Draft EA/ EPS has been prepared to support the proposed lease of property located near Cadiz for use as a drop zone for training by the 911th Airlift Wing (AW) of the Air Force Reserve. The 911 AW is located at Pittsburgh International Airport Air Reserve Station, Coraopolis, PA.

The following issues have been addressed in the EA:
- The proposed action entails the 911 AW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.3 miles southeast of the town of Cadiz. The property would be used for drop training activities including dropping sandbags and heavier munitions from C-130 aircraft and occasional use for paratrooper drops.
- The No-Action Alternative would involve the Air Force Reserve not leasing property near Cadiz and continuing to use an existing drop zone near Sugarcreek Township, PA.

The Draft EA/ EPS and FONSI are available for review at the following locations:
- Pittsburgh Public Library
  200 Market Street
  Pittsburgh, PA 15222
- Cadiz Public Library
  350 Market Street
  Cadiz, OH 43907

Public comment on the Draft EA/ EPS and FONSI must be received by March 3, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.rykaczewski@ae.com.

Mr. Carl Rykaczewski
AEOM
1491 E. Cooley Drive, Suite 100
Canton, CA 92324

Your comments on the Draft EA/ EPS and FONSI are requested. Any personal information provided will be used only to identify your desire to receive a statement during the public comment period or to fulfill requests for copies of the final EA/ EPS. Personal home addresses and telephone numbers will not be published in the Final EA/ EPS.

[Handwritten signature] Mark Fulton
[Handwritten location] Cadiz, Ohio
NOTICE OF AVAILABILITY
DRAFT ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT
Esteban New Casual Drop Zone in Cadiz, Ohio

The Air Force Reserve has prepared a combined Draft Environmental Assessment (EA), Draft Environmental Impact Statement (EIS), and Finding of No Significant Impact (FONSI), dated January 2009 in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality Regulations Implementing NEPA. The Draft EA/EIS has been prepared to support the proposed lease of property located near Cadiz for use as a drop zone for training by the 911th Air Refueling Wing (AW) of the Air Force Reserve. The 911 AW is located at Pittsburgh International Airport Air Reserve Station, Coraopolis, PA.

The following alternatives have been addressed in the EA:
- The Proposed Action involves the 911 AW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.3 miles southeast of the town of Cadiz. The property would be used for airborne training activities including dropping sandbags and heavier materials from C-130 aircraft and occasional use for paratrooper drops.
- The No Action Alternative would involve the Air Force Reserve not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

The Draft EA/EIS and FONSI are available for review at the following location:
Esteban Public Library
202 Market Street
Cadiz, OH 43907

Public comment on the Draft EA/EIS and FONSI must be received by March 3, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.rykaczewski@aecom.com.

Mr. Carl Rykaczewski
AECOM
1461 E. Cooley Drive, Suite 100
Coral, CA 92324

Your comments on the Draft EA/EIS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period or to fulfill requests for copies of the Final EA/EIS. Personal home addresses and telephone numbers will not be published in the Final EA/EIS.

No Action

Ronald Wilson
CMDD 21 O.H.
NOTICE OF AVAILABILITY

DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDINGS OF NO SIGNIFICANT IMPACT

The Air Force Reserve has prepared a combined Draft Environmental Assessment (EA), Baseline Survey (BSS), and Finding of No Significant Impact (FONSI), dated January 2009, in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality regulations implementing NEPA. The Draft EA/BSS has been prepared to support the proposed lease of property located near Cadiz for use as a drop zone for training by the 911th Airlift Wing (AW) of the Air Force Reserve. The 911 AW is located at Pittsburgh International Airport Air Reserve Station, Canonsburg, PA.

The following alternatives have been addressed in the EA:

- The Proposed Action entails the 911 AW leasing approximately 430 acres of private owned property on a reforested strip mine located 3.3 miles southwest of the town of Cadiz. The property would be used for drop training activities including dropping sandbags and heavier materials from C-130 aircraft and occasional use for paratrooper drops.
- The No-Action Alternative would involve the Air Force Reserve not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

The Draft EA/BSS and FONSI are available for review at the following location:

Pawrath Public Library
200 Market Street
Cadiz, OH 43907

Public comment on the Draft EA/BSS and FONSI must be received by March 3, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.rykaczewski@ae.com.

Carl R. Rykaczewski
AECOM
1461 E. Cooley Drive, Suite 100
Colma, CA, 94014

Your comments on this Draft EA/BSS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period or to fulfill requests for copies of the final EA/BSS. Personal home addresses and telephone numbers will not be published in the Final EA/BSS.

- No action

Maryann Lee
Cadiz, OH
NOTICE OF AVAILABILITY
DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT
Establish New Cadiz Drop Zone in Cadiz, Ohio.

The U.S. Army Corps of Engineers have prepared a combined Draft Environmental Assessment (EA), Draft Environmental Impact Statement (EIS), and Finding of No Significant Impact (FONSI) under January 2008 in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality regulations implementing NEPA. The Draft EA/EIS has been prepared to support the proposed lease of property located near Cadiz for use as a drop zone for training by the 911th Air Wing (AW) of the Air Force Reserves. The 911 AW is located at Pittsburgh International Airport Air Reserve Station, Coraopolis, PA.

The following issues have been addressed in the EA:

- The Proposed Action involves the 911 AW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.3 miles southwest of the town of Cadiz. The property would be used for parachute training activities including dropping sandbags and heavier materials from C-130 aircraft and occasional use for parachute drops.
- The No-Action Alternative would involve the Air Force Reserves not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

The Draft EA/EIS and FONSI are available for review at the following locations:

Puekani Public Library
200 Market Street
Cadiz, OH 43907

Public comment on the Draft EA/EIS and FONSI must be received by March 2, 2008. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to cary.rykaczewski@aecom.com.

Mr. Cary Rykaczewski
AECOM
1481 E. Cooley Drive, Suite 100
Columbus, GA 31904

Your comments on the Draft EA/EIS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period or to fulfill requests for copies of the final EA/EIS. Personal home addresses and telephone numbers will not be published in the Final EA/EIS.
NOTICE OF AVAILABILITY

DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT

Establish New Cadiz Drop Zone in Cadiz, Ohio

The Air Force Reserve have prepared a combined Draft Environmental Assessment (DEA), Environmental Impact Statement (EIS), and Finding of No Significant Impact (FONSI), dated January 2009 in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality Regulations implementing NEPA. The Draft EA/EIS has been prepared to support the proposed lease of property located near Cadiz for use as a drop zone for training by the 911th Air Mobility Wing (AMW) of the Air Force Reserve. The 911th AMW is located at Pittsburgh International Airport/Air Reserve Station, Coraopolis, PA. The following circumstances have been addressed in the EA:

- The Proposed Action involves the 911th AMW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.3 miles southwest of the town of Cadiz. The property would be used for aerial training activities including dropping sandbags and heavier materials from C-130 aircraft and occasional use for parachute drops.
- The No-Action Alternative would involve the Air Force Reserve not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

The Draft EA/EIS and FONSI are available for review at the following locations:
- Pickerington Public Library
  200 Market Street
  Cadiz, OH 43907

Public comment on the Draft EA/EIS and FONSI must be received by March 3, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.ryzkaczewski@aecom.com.

Mr. Carl Ryzkaczewski
AECOM
1481 E. Cooley Drive, Suite 100
Coffey, CA 92324

Your comments on the Draft EA/EIS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period or to fulfill requests for copies of the final EA/EIS. Personal home addresses and telephone numbers will not be published in the Final EA/EIS.

- No Action

Teresa Shaw
NOTICE OF AVAILABILITY
DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT
Establishment of Cadiz Drop Zone in Cadiz, Ohio

The Air Force Reserve has prepared a combined Draft Environmental Assessment (EA), Boundary Survey (BBS), and Finding of No Significant Impact (FONSI), dated January 2009, in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality regulations implementing NEPA. The Draft EA/BBS has been prepared to support the proposed lease of property located near Cadiz for use as a drop zone for training by the 911th Air Force Reserve. The 911th AW is located at Pittsburgh International Airport Air Reserve Station, Consolows, PA. The following alternatives have been addressed in the EA:

- The Proposed Action entails the 911th AW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.3 miles south-southeast of the town of Cadiz. The property would be used for drop training activities including dropping sandbags and heavy materials from C-130 aircraft and occasional use for paratrooper drops.

- The No-Action Alternative would involve the Air Force Reserve not leasing property near Cadiz and continuing to use an existing drop zone near Burgettstown, PA.

The Draft EA/BBS and FONSI are available for review at the following locations:

- Puskarich Public Library
  209 Market Street
  Cadiz, OH 43907

Public comment on the Draft EA/BBS and FONSI must be received by March 3, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to: ryan.rykaczewski@asecom.com.

Mr. Ryan Rykaczewski
AECOM
1461 E. Cooley Drive, Suite 100
Cottontail, CA 92324

Your comments on the Draft EA/BBS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period or to fulfill requests for copies of the final EA/BBS. Personal home addresses and telephone numbers will not be published in the final EA/BBS.

Cadiz, OH

No Action

Jan M. Arnold

Helmick
NOTICE OF AVAILABILITY

DRAFT ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT

Elaboron New Drop Zone in Cadiz, Ohio

The Air National Guard has prepared a combined Draft Environmental Assessment (EIA), Draft Environmental Impact Statement (EIS), and Finding of No Significant Impact (FONSI). This action is in accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality regulations implementing NEPA. The Draft EA/ EIS has been prepared to support the proposed lease of property located near Cadiz for use as a drop zone for training by the 911th Air National Guard Wing (ANGW) of the Air Force Reserves. The 911th ANGW is located at Pittsburgh International Airport/Air Reserve Station, Coraopolis, PA.

The following alternatives have been addressed in the EA:

- The Proposed Action involves the 911th ANGW leasing approximately 430 acres of privately owned property on a reclaimed strip mine located 3.5 miles southwest of the town of Cadiz. The property would be used for air drop training activities including dropping sandbags and heavier materials from C-130 aircraft and occasional use for parachute drops.
- The No-Action Alternative would involve the Air Force Reserves not leasing property near Cadiz and continuing to use an existing drop zone near Burgate (Moline, PA).

The Draft EA/EIS and FONSI are available for review at the following location:

Putnam Public Library
200 Market Street
Cadiz, OH 43907

Public comment on the Draft EA/EIS and FONSI must be received by March 5, 2009. Written comments and inquiries may be forwarded by mail to the address below or by e-mail to carl.rykaczewski@ae.com.

Mr. Carl R. Rykaczewski
AECOM
481 E. Cooley Drive, Suite 100
Caton, CA 92324

Your comments on this Draft EA/EIS and FONSI are requested. Any personal information provided will be used only to identify your desire to make a statement during the public comment period of to fulfill requests for copies of the final EA/EIS. Personal home addresses and telephone numbers will not be published in the Final EA/EIS.

Cadiz, OH