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## Header 1

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**Procurement Folder:** 547217

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**Procurement Type:** Central Purchase Order

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**Legal Name:** JACKSON ENVIRONMENTAL CONSULTING SERVICES LLC

**Published Date:** 2/20/19

**Alias/DBA:** JEREMY L JACKSON

**Close Date:** 2/25/19

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Total of Header Attachments: 1

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Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

**State of West Virginia  
 Solicitation Response**

**Proc Folder :** 547217  
**Solicitation Description :** Addendum 1 - Bat Survey- Camp Dawson  
**Proc Type :** Central Purchase Order

Date issued	Solicitation Closes	Solicitation Response	Version
	2019-02-25 13:30:00	SR 0603 ESR02251900000003883	1

<b>VENDOR</b>
VC0000002432 JACKSON ENVIRONMENTAL CONSULTING SERVICES LLC JEREMY L JACKSON

**Solicitation Number:** CRFQ 0603 ADJ1900000009

**Total Bid :** \$52,000.00      **Response Date:** 2019-02-25      **Response Time:** 13:06:27

**Comments:**

**FOR INFORMATION CONTACT THE BUYER**  
 Stephanie L Gale  
 (304) 558-8801  
 stephanie.l.gale@wv.gov

<b>Signature on File</b>	<b>FEIN #</b>	<b>DATE</b>
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Bat Survey-Camp Dawson Army Training Site				\$52,000.00

Comm Code	Manufacturer	Specification	Model #
77111507			

**Extended Description :** Critical Fauna Survey for the Indiana Bat and the Northern Long-Eared Bat per the attached specifications.



# Critical Fauna Survey & Endangered Species Plan for Indiana Bat and Northern Long-eared Bat on Camp Dawson Army Training Site Kingwood, West Virginia

## Prepared For:

West Virginia Army National Guard  
Department of Administration, Purchasing Division  
2019 Washington Street East Charleston, WV 25305-0130  
Attn: Stephanie Gale

## Prepared By:

Jackson Group  
3945 Simpson Lane  
Richmond, KY 40475  
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[www.jacksongroupco.com](http://www.jacksongroupco.com)

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## 1.0 INTRODUCTION

Jackson Group is pleased to submit the following proposal to Camp Dawson to conduct bat consultation services. Included in the proposed services are acoustic monitoring and mist netting surveys targeting the Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*; NLEB), as well as all other bats, in accordance with the 2018 United States Fish and Wildlife Service (USFWS) summer survey guidelines. Jackson Group has provided costs in accordance with the performance requirements stated in the State of West Virginia Request for Quotation CRFQ 0603 ADJ1900000009.

Jackson Group has been performing surveys for state and federally listed bat species for over 20 years. Jackson Group bat projects have included habitat surveys, roost emergence surveys, acoustic monitoring, mist net presence/absence surveys, radio telemetry tracking, informal and formal biological assessments and all forms of project coordination with USFWS for Endangered Species Act Section 7 compliance and state regulatory agencies. Jackson Group bat surveys have ranged in size and scope depending on the project needs and have included extensive efforts for military facilities, utility corridors, large mining sites, the oil and gas industry, and private development. Our biologists have the ability and experience to complete bat surveys throughout the full range of both the Indiana bat and NLEB.

## 2.0 KEY STAFF

Jackson Group has assembled a team of expert biologists and ecologists to conduct the proposed services. The team has extensive past experience working on large scale ecological investigations throughout the United States as well as broad knowledge and experience with services identified in the Scope of Work for this proposal.

**Table 1. Key Personnel for the Jackson Group Team.**

Key Personnel	Project Role	Qualifications
<i>Shane Roberts, Project Manager</i>	Project Management	Federally permitted bat biologist. Numerous large scale bat surveys, acoustic efforts, and Telemetry efforts and in depth USFWS coordination experience.
<i>Robert Oney, Project Ecologist</i>	Acoustic and Mist netting Technical Lead	Federally permitted bat biologist. Numerous large scale bat surveys, acoustic efforts, and Telemetry efforts.
<i>Devin Bingham, Bat Ecologist</i>	Acoustic and Mist netting Technical Lead	Numerous large scale bat surveys, WV permitted bat biologist.

## 3.0 DETAILED SCOPE OF WORK

Jackson Group proposes to perform consultation and bat surveys at three tracts of Camp Dawson in Preston County, West Virginia including the Briery Tract, the Pringle Tract, and the Volkstone Tract. Services will be completed from

May of 2019 to October of 2019 in accordance with the performance requirements stated in the State of West Virginia Request for Quotation CRFQ 0603 ADJ1900000009.

### 3.1 Coordination Efforts

#### 3.1.1 Kick-off Meeting and Weekly Updates

Within fifteen (15) days of contract award, the Jackson Group project manager will meet with the Camp Dawson Environmental personnel to coordinate the field schedule and develop an outline for the effort work plan. The meeting will be scheduled by Camp Dawson personnel and will occur prior to fieldwork initiation.

#### 3.1.2 Study Plan

Following the kick-off meeting with Camp Dawson Environmental personnel, Jackson Group will develop a summer survey work plan for the project. The work plan will include survey methodologies, data handling procedures, how results will be handled and reported, a breakdown of costs, a project schedule, the credentials of staff performing all efforts, and will be in an acceptable format to submit to the USFWS for site specific authorization of the project.

### 3.2 Field Survey Efforts

#### 3.2.1 Acoustic Presence/Absence Survey

Mary Gilmore of Jackson Group will lead the acoustic analysis services as the qualified biologist. Included in this task will be an estimated 100 detector nights at the Briery, Pringle and Volkstone Tracts of the facility. The estimated coverage is based on the USFWS survey effort requirements for presence/absence surveys of non-linear projects. The USFWS requires four (8) detector nights of survey per 123 acres of suitable summer habitat. According to the land analysis in 2013 Bat Survey Report, the 3 tracts contain 2,955.84 acres of forested land that can be considered suitable summer habitat (Briery 1150.10 acres, Pringle 1459.16 acres, and Volkstone 346.58 acres), therefore requiring 194 detector nights to adequately survey the site.

The acoustic survey will be accomplished by setting multiple AnaBat recorders in areas of the site identified to have high potential of bat transverse and that meet the conditions to allow for effective bat pass recording. The survey will be conducted throughout the early roosting season to indicate which species may be present on the site and to direct where mist netting effort will be most effective. Recorded calls will be analyzed using one or more USFWS approved bat call identification programs per site and night.

#### 3.2.2 Mist Net Survey

Mary Gilmore of Jackson Group will additionally lead the bat mist net survey efforts at the Camp Dawson Training Site. Mist net surveys will be conducted for an estimated twelve (12) nights from May 15th to August 15th. It is anticipated that the survey effort will be accomplished by setting multiple net sets at each site each night. Net sites will be determined in collaboration with the WVARNG Natural Resource Office according to acoustic results and previous year's captures. All guidelines in the USFWS 2016 Indiana Bat Summer Survey Guidelines will be followed. Standard measurements will be taken on all bats captured including sex, reproductive condition, and age. Survey locations, equipment, conditions, and results will be recorded on a standard mist netting dataform. Representative photographs of each net set and captured species will be taken and all net sites will be recorded with GPS.

#### 3.2.3 Field Survey Reporting

Jackson Group will compose a draft report detailing the findings of the field survey efforts. The report will detail the methods used to perform the survey, the survey locations, conditions, and timing of each sampling event, the





results of all survey efforts including detailed acoustic monitoring results and capture data, mapping of the sampling sites created in GIS, a discussion of the survey findings, and all other information required by the USFWS for report submission. Jackson Group will submit two (2) hard copies and one (1) electronic copy of the Draft Survey Report and maps to WVARNG Environmental personnel for review. Upon receiving written comments on the Draft Survey Report, Jackson Group will prepare a Final Survey Report and submit three (3) hard copies bound in a three ring binders and one (1) electronic copy to WVARNG personnel, including GIS data.

### Project Timeline

Deliverables	Date	Payment Schedule
Project Start Date	May 1 2019	
Weekly Progress Reports	Weekly upon request	
Completion of Surveys	By August 15, 2019	
Completion of Draft Survey Report	By September 15, 2019	50% of Funds
Completion of Final Survey Report	By October 15, 2019	100% of Funds

## 4.0 QUALIFICATIONS AND EXPERIENCE

### 4.1 Overall Company Description

Jackson Group has been providing technical services in the environmental field for over 15 years. Jackson Group's depth of staff and company focus are two key areas that set us apart from the competition. The staff brings a broad range of scientific, and project management expertise to the table. Together, Jackson Group employees create a network of highly specialized and skilled experts; each bringing a unique interpretation and perspective to problem solving.

Jackson Group's technical expertise and company size is ideal to address almost any problem within our skill set, while allowing the agility and flexibility to meet the changing demands of projects. The Jackson Group team is well-versed in the most current regulatory demands and latest technologies. These breakthroughs are incorporated into every project, enabling Jackson Group to exceed the client's expectations while adhering to a fixed budget and meeting aggressive schedules.

### 4.2 Demonstration of Past Experience

Jackson Group has been performing surveys for state and federally listed bat species for over 15 years. Jackson Group bat projects have included habitat surveys, roost emergence surveys, acoustic monitoring, mist net presence/absence surveys, radio telemetry tracking, informal and formal biological assessments and all forms of project coordination with the USFWS for Endangered Species Act Section 7 compliance and state regulatory agencies. Jackson Group bat surveys have ranged in size and scope depending on the project needs and have included extensive efforts for military facilities, utility corridors, large mining sites, the railroad industry, and private development. Our biologists have the ability and experience to complete bat surveys throughout the full range of both the Indiana bat and NLEB. Jackson Group has significant experience with large multidisciplinary projects for government and private industry.

## FIRM

Jackson Group

## EDUCATION

Arkansas State University

BS, Wildlife Ecology & Management,  
2000


MS, Biology, 2004

U.S. Army, 82nd Airborne 1993-1997

## CERTIFICATIONS

Wetland Delineation

## Permits

USFWS Permit   
T&E Bat Species

Mr. Jackson is the President/Ecologist of Jackson Group. He has more than 15 years of project management experience in ecological and environmental services. In his current capacity, Mr. Jackson's responsibilities include project oversight, proposal writing, client/agency consultation, and completing technical and regulatory reports, such as Biological Assessments and Biological Evaluations in support of Section 7 consultation under the Endangered Species Act, and NEPA (National Environmental Policy Act) documents.

### *Specialty and Skill Areas*

- Environmental Permitting Environmental Modeling Environmental Assessments (EA's) Habitat Suitability Indices (HSI) Terrestrial Ecology
- Aquatic Ecology
- Endangered Species, Specializing in Endangered Bat Species
- Stream/Wetlands Mitigation and Restoration Geographic Information Systems (GIS)
- Cave Surveys, Mapping, and Bio-monitoring Mammalian, Ornithological, Herpetological, and Botanical Surveying and Bio-monitoring

### *Professional Affiliations*

- The National Wildlife Society
- Kentucky Chapter of the National Wildlife Society
- American Society of Mammologists
- The Ecological Society of America Southeastern
- Bat Diversity Network
- Kentucky Bat Working Group
- Arkansas Bat Working Group
- Arkansas Academy of Science

### *Certifications*

- Certified Ecologist
- Certified Associate Wildlife Biologist
- Rogsens Level I—Applied Fluvial Geomorphology
- Basic Wildland Fire Certified
- Certified Waste Operations Response (40 Hours)

## SELECTED EXPERIENCE

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- ***Barge Waggoner Sumner & Cannon, Inc. SR-35. 2016.***  
Crew leader on a road construction project, performed a presence/probable absence survey for threatened and endangered bat species, with special emphasis on Indiana bats (*Myotis sodalis*) and Northern Long-eared bats (*Myotis septentrionalis*) in Greene County, Tennessee.
- ***EA Engineering. R.C. Bryd Locks and Dam. 2016.*** Project leader on an Indiana bat and Northern Long-eared bat habitat assessment and portal survey in Mason County, West Virginia and Gallia County, Ohio.
- ***EBI Consulting. Chapel Lane REVA. 2016.*** Crew leader on bat survey for a proposed cell phone tower, performed a presence/probable absence survey for threatened and endangered bat species, with special emphasis on Indiana bats (*Myotis sodalis*) and Northern Long-eared bats (*Myotis septentrionalis*) in Floyd County, Indiana.
- ***Ross Tarrant Architects. Martin County High School. 2016.*** Crew leader on bat survey for a proposed high school, performed a presence/probable absence survey for threatened and endangered bat species, with special emphasis on Indiana bats (*Myotis sodalis*) and Northern Long-eared bats (*Myotis septentrionalis*) in Martin County, Kentucky.
- ***RM Johnson Engineering, Inc. Lower Griffin Gate Sewer for LFUCG. 2016.*** Crew leader on bat survey for a sewer improvement project, performed a presence/probable absence survey for threatened and endangered bat species, with special emphasis on Indiana bats (*Myotis sodalis*) and Northern Long-eared bats (*Myotis septentrionalis*) in Fayette County, Kentucky.
- ***Morehead State University, MSU Stream Stabilization Site 1 Construction. 2016.*** Project Manager, designer, construction manager for the stream restoration and stabilization for Triplett Creek, Morehead, KY.
- ***Rowan County Public Schools, Phase I Site Assessment. 2016.*** Project Manager and Site Inspector for a Phase I Site Assessment.
- ***Kinder Morgan. Miller Coors Wetland Mitigation. 2011 – Present.*** Project team member assisting in the plan to provide a conceptual approach for the creation and monitoring of an off-site freshwater emergent wetland in response to the construction of a gas pipeline.
- ***Western EcoSystems Technology, Inc. Gratiot County Wind Farm Facility. 2015.*** Manager and crew leader in the inventory of bat species, establishing the presence or probable absence of the federally listed endangered Indiana bat (*Myotis sodalis*) and threatened Northern Long-eared bat (*Myotis septentrionalis*) within the 1,332 acres of forested habitat associated with the 69 turbine project area.
- ***TRC Solutions. ET Rover Pipeline. 2015.*** Project manager in the inventory of bat species, establishing the presence or probable absence of the federally listed endangered Indiana bat (*Myotis sodalis*) and threatened Northern Long-eared bat (*Myotis septentrionalis*) along the 710 mile pipeline right of way in Ohio.
- ***AECOM. Environmental Investigation: Town Creek Solar Project. 2015.*** Project manager in conducting a wetlands and habitat assessment for endangered species in relation to the construction of a proposed solar energy farm in Tipton County, Tennessee.
- ***Natural Resource Group. Bluegrass Pipeline Project. 2013.*** Project manager in the inventory of bat species, establishing the presence or probable absence of the federally listed endangered Indiana bat (*Myotis sodalis*) along the 525 mile pipeline right of way in Kentucky, Ohio and West Virginia.
- ***Rockies Express Pipeline. Wetland and Stream Monitoring. 2012.*** Project management monitoring over 200 wetland restoration sites and 300 stream restoration sites.
- ***Fort Drum Environmental Division, Fish and Wildlife Management Program. Fort Drum Bat Survey. 2012.*** Project manager performing an installation-wide survey of the approximate 43,000 ha Fort Drum Military Installation. Mist-net surveys and radio-tracking was used to document the spatial and temporal use and distribution of bats within the Fort Drum landscape.



#### FIRM

Jackson Group

#### EDUCATION

Eastern Kentucky University

BS, Wildlife Management

#### CERTIFICATIONS

Wetland Delineation

Society of Freshwater Science  
Taxonomic Certification Eastern  
Region Chironomidae (genus level)

Society of Freshwater Science  
Taxonomic Certification Eastern  
Region Ephemeroptera, Plecoptera,  
Trichoptera  
(genus level)

Society of Freshwater Science  
Taxonomic Certification Family Level  
(all Phyla)

Freshwater Mussels of West Virginia

#### Permits

USFWS Permit [REDACTED]  
T&E Bat Species

Mr. Oney has more than 13 years of experience in ecological and environmental services. In that time, he has conducted ecological field investigation on a variety of different projects from large and small transportation, private development, natural resource extraction, jurisdictional waters determination, Kentucky Pollution Discharge Elimination System, 404, 402, and 401 permitting, and stream/wetland restoration and enhancement projects.

In his current capacity, Mr. Oney's responsibilities include completing technical and regulatory reports, such as Biological Assessments and Biological Evaluations in support of Section 7 consultation under the Endangered Species Act, and NEPA (National Environmental Policy Act) documents.

Mr. Oney is proficient and experienced in the application of the following equipment and techniques as they relate to wetland determinations:

- USACE Wetland Delineation Manual (TR Y-87-1)
- Draft Interim Regional Supplement to the USACE Wetland Delineation Manual: Eastern Mountains/Piedmont and Midwest Regions
- Munsell soil color chart (hydric soil determinations)
- Hydrophytic plant and community identification
- USFWS publication National List of Plant Species that Occur in Wetlands
- Stereoscopic dissection microscope for plant identification
- Dichotomous floral keys
- National Wetland Inventory Mapping
- National Hydrography Dataset

Mr. Oney, a nationally certified wildlife biologist through the Wildlife Society, is knowledgeable and experienced in the application of the following equipment and techniques as they relate to the detection, capture, and handling of bat including federally protected species:

- Mist net set up and operation
- Harp traps set up and operation
- Transmitter application/Radio Telemetry
- Suitability assessments for both summer and winter bat habitat
- Acoustical monitoring and call analysis
- Hibernacula surveys
- White-nose Syndrome decontamination protocols



## *Selected Project Experience*

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### **Kentucky**

- Aquatic and Terrestrial Ecological Assessment for the Floyds Fork Greenways Project, Jefferson County, KY.
- Bioassessment Monitoring Report for the Springfield Bypass (US 150) Unnamed Tributary of Mill Creek Relocation Project, Washington County, KY.
- Jurisdictional Waters Determination and Listed Species Evaluation for the Glenview Park Development Project, Jefferson County, KY.
- Jurisdictional Waters Determination for the Hardin County Industrial Foundation Proposed Industrial Park, Hardin County, KY.
- Long-term Monitoring of the Freshwater Mussel Communities at Four Sites in the Tennessee River in Association with the Navigation Lock Addition at Kentucky Lock and Dam, Trigg and Christian Counties, KY.
- Freshwater mussel habitat assessment for a barge fleeting facility on the Ohio River near Maysville, Mason County, KY.
- Aquatic and Terrestrial Baseline Report, Industrial Park Access Road, Clay County, KY.
- Aquatic and Terrestrial Baseline Report for KY 90, Barren County, KY.
- Aquatic and Terrestrial Baseline Report for US 31E, Nelson, Spencer, and Bullitt Counties, KY.
- Aquatic and Terrestrial Baseline Report for US 460 Excess Material Sites, Pike County, KY.
- Aquatic and Terrestrial Baseline Report for KY 974, Clark County, KY.
- Aquatic and Terrestrial Baseline Report for KY 3368, Clark County, KY.
- Stream Mitigation Report, Tackett Branch Excess Material Site, Minnie to Harold Connector Section 2, Floyd County, KY.
- Stream Mitigation Report, US 460 Sections 3, 4, and 5, Pike County, KY.
- Aquatic and Terrestrial Baseline Report for KY 192 to KY 80 Frontage Road, Laurel County, KY.
- Stream Mitigation and Monitoring Report, KY 11 Fleming County, KY.
- Aquatic and Terrestrial Baseline Report for US 127 Jamestown Bypass to KY 90, Clinton and Russell Counties, KY.
- Lowe's Home Center, Inc., Phase I Site Assessments, and Stream/Wetland Mitigation Monitoring.
- Mist Net Survey for the Federally Endangered Indiana bat at Fort Campbell Kentucky and Tennessee.
- Biodiversity Initiative: Terrestrial Beetle Survey at Fort Campbell Kentucky and Tennessee.
- Biological Assessment for the Federally Endangered Indiana Bat (*Myotis sodalis*) US 460 Excess Material Sites, Pike County, KY.
- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout Kentucky.
- Mist Net Surveys for federally protected bats species on over 20 different natural resource extraction permits throughout eastern and western Kentucky.
- Benthic macroinvertebrate and fish baseline assessments and annual monitoring on over 100 different natural resource extraction permits throughout eastern and western Kentucky.

### **Tennessee**

- Ecological Assessment, Shelby Farms Kirby Parkway, Shelby County, TN.



- I-69 Independent Utility Segment # 8 Crossover Study, Tennessee.
- Ecological Assessment, Aspen Street Bridge Replacement over Big Creek, Campbell County, TN.
- Ecological Assessment, Beech Road, Bridge Replacements over Bryan's Fork and Morgan Creek in Standing Stone State Park Overton County, TN.
- Ecological Assessment, Central Avenue Bridge Replacement over South Fork of Harris Creek Obion County, TN.
- Ecological Assessment, Jack Pond Road Bridge Replacement over Unnamed Tributary to Baxter Bottom Tipton County, TN.
- Ecological Assessment, Campground Road Bridge Replacement over Unnamed tributary to Hurricane Creek Tipton County, TN.
- Ecological Assessment, Kentwood Avenue Bridge Replacement over Unnamed tributary to Hatchel Creek Tipton County, TN.
- Ecological Assessment, Riverside Drive Bridge Replacement over Knoxville and Holston Railroad Knox County, TN.
- Ecological Assessment, SR-115 Greenway Bridge Replacement over the Tennessee River Knox County, TN.
- Ecological Assessment, SR-158 (Church Avenue) Bridge Replacement Knox County, TN.
- Ecological Assessment, SR-168 (John Sevier HWY) Intersection Improvements at Martin Mill Pike Knox County, TN.
- Ecological Assessment, Weisgarber Road Bridge Replacement over Fourth Creek Knox County, TN.
- Ecological Assessment, Slatestone Road Bridge Replacement over Slatestone Creek Anderson County, TN.
- Ecological Assessment, SR-250 Bridge Replacement over Turnipseed Creek Cheatham County, TN.
- Ecological Assessment, White Road Bridge Replacement over Turnbull Creek, Dickson County, TN.
- Ecological Assessment, SR-194 Bridge Replacements over Loosahatchie River and Little Laurel Drainage Canal Fayette County, TN.
- Ecological Assessment, SR-194 Bridge and Overflow Replacements over Shaw's Creek and Unnamed Tributary to Shaw's Creek Fayette County, TN.
- Ecological Assessment, Longtown Road Bridge Replacement over Little Cypress Creek Fayette County, TN.
- Knoxville Parkway (I-475), Mist-Netting and Portal Surveys, Knox County, TN.
- Mist Net Survey for the Federally Threatened and Endangered bat species for the Holston Army Ammunition Plant Hawkins County, TN.
- Small mammal inventory for the Holston Army Ammunition Plant Hawkins County, TN.

#### **Indiana**

- Jurisdictional Waters Determination for the Proposed 2,420 Acre Seven Hill Surface Mine, Warrick County, Indiana.

#### **Georgia**

- Baseline Bat Survey for the Tennessee Army National Guard Volunteer Training Center (TNANG), Catoosa, Georgia.

#### **Pennsylvania**

- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed UGI Natural Gas Pipeline in Tioga and Lycoming Counties, Pennsylvania.



- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Natural Gas Pipeline Project in Greene, York, Adams, and Franklin Counties, Pennsylvania.
- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline in Pennsylvania.
- Mist Net Survey for the Federally Endangered Indiana Bat for the Pennsylvania Pipeline Project.

#### **Ohio**

- Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout Ohio.
- Indiana bat survey for Wind Farm Project. Champaign County, Ohio.

#### **West Virginia**

- Freshwater Mussel Survey Report for the City of Ripley Proposed Emergency Slip Repair Project Along Mill Creek, Jackson County, West Virginia.
- Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout West Virginia.
- Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout West Virginia.

#### **Missouri**

- Summer Mist Net Survey for the Federally Threatened and Endangered Bat Species at Specialty Granules Inc. Iron County, Missouri.

## FIRM

Jackson Group

## EDUCATION

Eastern Kentucky University

Master of Science, Biology (Emphasis on Wetland Plants)


Bachelor of Science, Wildlife Management

## CERTIFICATIONS

Wetland Delineation

USACE Wetland Rapanos and Mitigation Rule Training

## Permits

USFWS Permit   
T&E Bat Species

Mr. Roberts is a Director/Senior Project Scientist with more than 14 years of project management experience in ecological and environmental services. In his current capacity, Mr. Roberts' responsibilities include project oversight, proposal writing, client/agency consultation, and completing technical and regulatory reports, such as Biological Assessments and Biological Evaluations in support of Section 7 consultation under the Endangered Species Act, and NEPA (National Environmental Policy Act) documents.

### *Specialty and Skill Areas*

- Federal and state listed threatened and endangered species surveys, with special emphasis on bat species
- Acoustic Monitoring and Analysis
- Summer & winter bat habitat assessments
- Hibernacula surveys
- Ecological surveys including ornithological, herpetological & fisheries
- Physiochemical water quality sampling
- Wetland determination/delineations
- Geographic Information Systems (GIS)
- Urban ecology
- Habitat Suitability Indices (HSI)
- Large Scale Project Management

### *Professional Affiliations*

- The National Wildlife Society
- Kentucky Chapter of The National Wildlife Society
- Southeastern Bat Diversity Network
- Kentucky Bat Working Group
- Southern Gas Association
- Midwest Bat Working Group



## *Selected Project Experience*

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### **Georgia**

- Baseline Bat Survey for the Tennessee Army National Guard Volunteer Training Center (TNANG), Catoosa, Georgia.
- Threatened and Endangered Species review for the proposed Transco Lawrenceville No. 3 Meter Station Project, Gwinnett County, Georgia.

### **Illinois**

- Indiana bat survey for Wind Farm Project.

### **Indiana**

- Indiana bat survey for Corradino. North Vernon, Indiana.
- Indiana bat survey for the proposed Henderson- Dogtown Natural Gas Pipeline in Indiana and Kentucky.
- Riparian and Wetland Restoration and Monitoring for the Icon Properties Mitigation Site, Clark County.
- Riparian and Wetland Restoration and Monitoring for the Chambord Subdivision Mitigation Site, Washington County.

### **Kentucky**

- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout Kentucky.
- Marathon Pipeline Integrated Vegetation Management Plan-Pilot Study, Martin County, Indiana and Bullitt County.
- Marathon Pipeline Integrated Vegetation Management Plan-Pilot Study, Martin County, Indiana and Bullitt County.
- Wetland Determination for Landmark Mining Company (DRME# 836-0412), Floyd County.
- Stream and Wetland Restoration Project for Cove Springs Park, Franklin County.
- Stream and Wetland Mitigation Planting for the Poplar Woods Subdivision Mitigation Site, Oldham County.
- Jurisdictional Waters Determination and Listed Species Evaluation for the Glenview Park Development Project, Jefferson County.
- Aquatic and Terrestrial Ecological Assessment for the Floyds Fork Greenways Project, Jefferson County.
- Jurisdictional Waters Determination for the Cove Spring Stream Restoration Project, Franklin County.
- Jurisdictional Waters Determination for the Johnson Property, Scott County.
- Jurisdictional Waters Determination for the Hardin County Industrial Foundation Proposed Industrial Park, Hardin County.
- Jurisdictional Waters Determination for Lake Forest Development Phase 4, Georgetown.

### **Maryland**

- Mist Net Survey for the Federally Endangered Indiana Bat and threatened northern long-eared bat for the Proposed Terrapin Hills Wind Project Garrett County, Maryland.

### **Missouri**

- *Project Manager* -Mist Net Survey for the Federally Endangered Indiana Bat and threatened northern long-eared bat for Specialty Granules Inc. Iron County, Missouri.

### **North Dakota**

- Raptor nest survey and avian monitoring for the Proposed Rover Keystone Pipeline Project.

## Ohio

- *Project Manager* - Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout Ohio.
- *Project Manager* -Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout Ohio.
- *Project Manager* -Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout Ohio.
- Indiana bat survey for Wind Farm Project. Hardin County, Ohio.
- Raptor Nest Survey for REX Pipeline. Zanesville, Ohio.
- Indiana bat survey for Wind Farm Project. Champaign County, Ohio.
- Indiana Bat Survey for Proposed Relocation Natural Gas Pipelines in Ohio.
- Indiana Bat Survey for the Rockies Express Pipeline across central Ohio.
- Raptor Nest Survey for the Rockies Express Pipeline across central Ohio.
- *Project Manager* -Wetland Determination for the Proposed PA Pipeline Project.
- *Project Manager* -Stream assessment and evaluation for the proposed PA Pipeline Project.

## Pennsylvania

- *Project Manager* -Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout PA.
- *Project Manager* -Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout PA.
- *Project Manager* -Wetland Determination for the Proposed Bluegrass Pipeline, Mercer County.
- Wetland Determination for the Proposed PA Pipeline Project.
- *Project Manager* -Stream assessment and evaluation for the proposed PA Pipeline Project.

## Tennessee

- *Project Manager* -Mist Net Survey for the Federally Threatened and Endangered bat species for the Holston Army Ammunition Plant Hawkins County, Tennessee.
- *Project Manager* -Small mammal inventory for the Holston Army Ammunition Plant Hawkins County, Tennessee.

## West Virginia

- *Project Manager* -Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout West Virginia.
- *Project Manager* -Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout West Virginia.
- *Project Manager* -Habitat analysis for the Federally Endangered Indiana Bat for the Pennsylvania Pipeline Project.
- *Project Manager* -Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout West Virginia.
- *Project Manager* -Wetland Determination for the Proposed PA Pipeline Project.
- *Project Manager* -Stream assessment and evaluation for the proposed PA Pipeline Project.



Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Request for Quotation  
 34 — Service - Prof

Proc Folder: 547217

Doc Description: Bat Survey- Camp Dawson

Proc Type: Central Purchase Order

Date Issued	Sollcitation Closes	Solicitation No	Version
2019-02-08	2019-02-25 13:30:00	CRFQ 0603 ADJ1900000009	1

**BID RECEIVING LOCATION**  
 BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**  
 Vendor Name, Address and Telephone Number:

**FOR INFORMATION CONTACT THE BUYER**  
 Stephanie L. Gale  
 (304) 558-8801  
 stephanie.l.gale@wv.gov

Signature X FEIN # DATE

All offers subject to all terms and conditions contained in this solicitation

**Request for Quotation**  
 (fauna survey for the Indiana Bat and the Northern Long-Eared Bat)

The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Army National Guard's Environmental Office to establish a one-time contract providing all professional and technical personnel, labor, facilities, equipment, materials, transportation and supplies needed to perform a critical fauna survey for the Indiana Bat and the Northern Long-Eared Bat at the Camp Dawson Army Training site near Kingwood, in Preston County, WV. per the specifications and Terms and Conditions as attached hereto.

DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR  CHARLESTON WV25311  US		FACILITY MAINTENANCE MANAGER CAMP DAWSON ARMY TRAINING SITE 240 ARMY RD  KINGWOOD WV 26537-1077  US	
---	--	---	--

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Bat Survey-Camp Dawson Army Training Site				

Comm Code	Manufacturer	Specification	Model #
77111507			

**Extended Description :**  
 Critical Fauna Survey for the Indiana Bat and the Northern Long-Eared Bat per the attached specifications.

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Shane Roberts, Vice President

(Name, Title)

(Printed Name and Title)

3945 Simpson Lane Richmond KY 40475

(Address)

859-623-0499

(Phone Number) / (Fax Number)

sroberts@jacksongroupco.com

(email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Jackson Group

(Company)



Shane Roberts Vice President

(Authorized Signature) (Representative Name, Title)

Shane Roberts, Vice President

(Printed Name and Title of Authorized Representative)

~~2-22-2019~~ 2-25-2019

(Date)

859-623-0499

(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM  
SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- |   |  |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Jackson Group  
 Company

[Signature]  
 Authorized Signature

2-25-19  
 Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

REQUEST FOR QUOTATION  
Bat Survey Camp Dawson Army Training Site

---

**10. VENDOR DEFAULT:**

10.1. The following shall be considered a vendor default under this Contract.

10.1.1. Failure to perform Contract Services in accordance with the requirements contained herein.

10.1.2. Failure to comply with other specifications and requirements contained herein.

10.1.3. Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.

10.1.4. Failure to remedy deficient performance upon request.

10.2. The following remedies shall be available to Agency upon default.

10.2.1. Immediate cancellation of the Contract.

10.2.2. Immediate cancellation of one or more release orders issued under this Contract.

10.2.3. Any other remedies available in law or equity.

**11. MISCELLANEOUS:**

11.1. **Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Shane Roberts

Telephone Number: 859-623-0499

Fax Number: \_\_\_\_\_

Email Address: sroberts@jacksongroupco.com

**EXHIBIT A**  
**Pricing Page**

ALL LABOR, MATERIALS, EQUIPMENT, AND SUPPLIES NECESSARY TO CONDUCT CRITICAL FAUNA  
SURVEY FOR THE INDIANA BAT AND NORTHERN LONG-EARED BAT, ON CAMP DAWSON ARMY  
TRAINING SITE AT KINGWOOD, WV

The undersigned, hereafter called the Bidder, being familiar with and understanding the bidding documents; and being familiar with the required qualifications and the mandatory requirements of the Project with regards to the deliverables and associated timelines, hereby proposes to furnish labor, material, equipment, supplies, and transportation to perform the work as described in the bidding documents

BIDDERS COMPANY NAME: Jackson Group

VENDOR ADDRESS: 3945 Simpson Lane  
Richmond, KY 40475

TELEPHONE: 859-623-0499

FAX NUMBER: \_\_\_\_\_

E-MAIL ADDRESS: sroberts@jacksongroupco.com

TOTAL BID AMOUNT:

Fifty two thousand \_\_\_\_\_  
(\$ 52,000.00) \_\_\_\_\_ )

(Contract bid to be written in words and numbers.)

Failure to use this bid form may result in bid disqualification.

SIGNATURE:  DATE: 2-25-19

NAME: Shane Roberts  
(Please Print)

TITLE: Vice President



# West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: Jackson Group Address: 3945 Simpson Lane  
Richmond, KY 40475

Name of Authorized Agent: \_\_\_\_\_ Address: \_\_\_\_\_

Contract Number: \_\_\_\_\_ Contract Description: \_\_\_\_\_

Governmental agency awarding contract: \_\_\_\_\_

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: [Handwritten Signature] Date Signed: 25 Feb 2019

### Notary Verification

State of Kentucky, County of Madison:

I, Brenna Richardson Prater, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 25 day of February, 2019.

Brenna Richardson Prater  
Notary Public's Signature

### To be completed by State Agency:

Date Received by State Agency: \_\_\_\_\_

Date submitted to Ethics Commission: \_\_\_\_\_

Governmental agency submitting Disclosure: \_\_\_\_\_

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**CONSTRUCTION CONTRACTS:** Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

**ALL CONTRACTS:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

**"Debt"** means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"Related party"** means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: Jackson Environmental Consulting Services, LLC

Authorized Signature: [Signature] Date: 26 Feb 2019

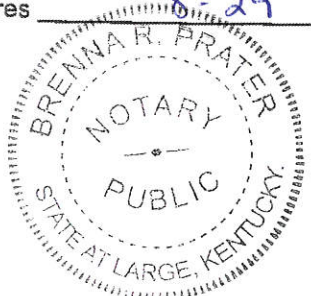
State of Kentucky

County of Madison, to-wit:

Taken, subscribed, and sworn to before me this 25 day of February, 2019.

My Commission expires 8-29, 2019.

AFFIX SEAL HERE



NOTARY PUBLIC Brenna Richardson Prater

## Header 1

List View

**General Information** | Contact | Default Values | Discount | Document Information

**Procurement Folder:** 547217

**SO Doc Code:** CRFQ

**Procurement Type:** Central Purchase Order

**SO Dept:** 0603

**Vendor ID:** VC0000002432

**SO Doc ID:** ADJ1900000009

**Legal Name:** JACKSON ENVIRONMENTAL CONSULTING SERVICES LLC

**Published Date:** 2/20/19

**Alias/DBA:** JEREMY L JACKSON

**Close Date:** 2/25/19

**Total Bid:** \$52,000.00

**Close Time:** 13:30

**Response Date:** 02/25/2019

**Status:** Closed

**Response Time:** 13:06

**Solicitation Description:** Addendum 1 - Bat Survey- Camp Dawson

Total of Header Attachments: 1

Apply Default Values to Commodity Lines

View Procurement Folder



Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

**State of West Virginia  
 Solicitation Response**

**Proc Folder :** 547217  
**Solicitation Description :** Addendum 1 - Bat Survey- Camp Dawson  
**Proc Type :** Central Purchase Order

Date issued	Solicitation Closes	Solicitation Response	Version
	2019-02-25 13:30:00	SR 0603 ESR02251900000003883	1

<b>VENDOR</b>
VC0000002432 JACKSON ENVIRONMENTAL CONSULTING SERVICES LLC JEREMY L JACKSON

**Solicitation Number:** CRFQ 0603 ADJ1900000009

**Total Bid :** \$52,000.00      **Response Date:** 2019-02-25      **Response Time:** 13:06:27

**Comments:**

**FOR INFORMATION CONTACT THE BUYER**  
 Stephanie L Gale  
 (304) 558-8801  
 stephanie.l.gale@wv.gov

<b>Signature on File</b>	<b>FEIN #</b>	<b>DATE</b>
--------------------------	---------------	-------------

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Bat Survey-Camp Dawson Army Training Site				\$52,000.00

Comm Code	Manufacturer	Specification	Model #
77111507			

**Extended Description :** Critical Fauna Survey for the Indiana Bat and the Northern Long-Eared Bat per the attached specifications.



## Critical Fauna Survey & Endangered Species Plan for Indiana Bat and Northern Long-eared Bat on Camp Dawson Army Training Site Kingwood, West Virginia

### **Prepared For:**

West Virginia Army National Guard  
Department of Administration, Purchasing Division  
2019 Washington Street East Charleston, WV 25305-0130  
Attn: Stephanie Gale

### **Prepared By:**

Jackson Group  
3945 Simpson Lane  
Richmond, KY 40475  
859.623.0499  
[www.jacksongroupco.com](http://www.jacksongroupco.com)

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2.0 KEY STAFF..... 3

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## 1.0 INTRODUCTION

Jackson Group is pleased to submit the following proposal to Camp Dawson to conduct bat consultation services. Included in the proposed services are acoustic monitoring and mist netting surveys targeting the Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*; NLEB), as well as all other bats, in accordance with the 2018 United States Fish and Wildlife Service (USFWS) summer survey guidelines. Jackson Group has provided costs in accordance with the performance requirements stated in the State of West Virginia Request for Quotation CRFQ 0603 ADJ1900000009.

Jackson Group has been performing surveys for state and federally listed bat species for over 20 years. Jackson Group bat projects have included habitat surveys, roost emergence surveys, acoustic monitoring, mist net presence/absence surveys, radio telemetry tracking, informal and formal biological assessments and all forms of project coordination with USFWS for Endangered Species Act Section 7 compliance and state regulatory agencies. Jackson Group bat surveys have ranged in size and scope depending on the project needs and have included extensive efforts for military facilities, utility corridors, large mining sites, the oil and gas industry, and private development. Our biologists have the ability and experience to complete bat surveys throughout the full range of both the Indiana bat and NLEB.

## 2.0 KEY STAFF

Jackson Group has assembled a team of expert biologists and ecologists to conduct the proposed services. The team has extensive past experience working on large scale ecological investigations throughout the United States as well as broad knowledge and experience with services identified in the Scope of Work for this proposal.

**Table 1. Key Personnel for the Jackson Group Team.**

Key Personnel	Project Role	Qualifications
<i>Shane Roberts, Project Manager</i>	Project Management	Federally permitted bat biologist. Numerous large scale bat surveys, acoustic efforts, and Telemetry efforts and in depth USFWS coordination experience.
<i>Robert Oney, Project Ecologist</i>	Acoustic and Mist netting Technical Lead	Federally permitted bat biologist. Numerous large scale bat surveys, acoustic efforts, and Telemetry efforts.
<i>Devin Bingham, Bat Ecologist</i>	Acoustic and Mist netting Technical Lead	Numerous large scale bat surveys, WV permitted bat biologist.

## 3.0 DETAILED SCOPE OF WORK

Jackson Group proposes to perform consultation and bat surveys at three tracts of Camp Dawson in Preston County, West Virginia including the Briery Tract, the Pringle Tract, and the Volkstone Tract. Services will be completed from



May of 2019 to October of 2019 in accordance with the performance requirements stated in the State of West Virginia Request for Quotation CRFQ 0603 ADJ1900000009.

### 3.1 Coordination Efforts

#### 3.1.1 Kick-off Meeting and Weekly Updates

Within fifteen (15) days of contract award, the Jackson Group project manager will meet with the Camp Dawson Environmental personnel to coordinate the field schedule and develop an outline for the effort work plan. The meeting will be scheduled by Camp Dawson personnel and will occur prior to fieldwork initiation.

#### 3.1.2 Study Plan

Following the kick-off meeting with Camp Dawson Environmental personnel, Jackson Group will develop a summer survey work plan for the project. The work plan will include survey methodologies, data handling procedures, how results will be handled and reported, a breakdown of costs, a project schedule, the credentials of staff performing all efforts, and will be in an acceptable format to submit to the USFWS for site specific authorization of the project.

### 3.2 Field Survey Efforts

#### 3.2.1 Acoustic Presence/Absence Survey

Mary Gilmore of Jackson Group will lead the acoustic analysis services as the qualified biologist. Included in this task will be an estimated 100 detector nights at the Briery, Pringle and Volkstone Tracts of the facility. The estimated coverage is based on the USFWS survey effort requirements for presence/absence surveys of non-linear projects. The USFWS requires four (8) detector nights of survey per 123 acres of suitable summer habitat. According to the land analysis in 2013 Bat Survey Report, the 3 tracts contain 2,955.84 acres of forested land that can be considered suitable summer habitat (Briery 1150.10 acres, Pringle 1459.16 acres, and Volkstone 346.58 acres), therefore requiring 194 detector nights to adequately survey the site.

The acoustic survey will be accomplished by setting multiple AnaBat recorders in areas of the site identified to have high potential of bat transverse and that meet the conditions to allow for effective bat pass recording. The survey will be conducted throughout the early roosting season to indicate which species may be present on the site and to direct where mist netting effort will be most effective. Recorded calls will be analyzed using one or more USFWS approved bat call identification programs per site and night.

#### 3.2.2 Mist Net Survey

Mary Gilmore of Jackson Group will additionally lead the bat mist net survey efforts at the Camp Dawson Training Site. Mist net surveys will be conducted for an estimated twelve (12) nights from May 15th to August 15th. It is anticipated that the survey effort will be accomplished by setting multiple net sets at each site each night. Net sites will be determined in collaboration with the WVARNG Natural Resource Office according to acoustic results and previous year's captures. All guidelines in the USFWS 2016 Indiana Bat Summer Survey Guidelines will be followed. Standard measurements will be taken on all bats captured including sex, reproductive condition, and age. Survey locations, equipment, conditions, and results will be recorded on a standard mist netting dataform. Representative photographs of each net set and captured species will be taken and all net sites will be recorded with GPS.

#### 3.2.3 Field Survey Reporting

Jackson Group will compose a draft report detailing the findings of the field survey efforts. The report will detail the methods used to perform the survey, the survey locations, conditions, and timing of each sampling event, the



results of all survey efforts including detailed acoustic monitoring results and capture data, mapping of the sampling sites created in GIS, a discussion of the survey findings, and all other information required by the USFWS for report submission. Jackson Group will submit two (2) hard copies and one (1) electronic copy of the Draft Survey Report and maps to WVARNG Environmental personnel for review. Upon receiving written comments on the Draft Survey Report, Jackson Group will prepare a Final Survey Report and submit three (3) hard copies bound in a three ring binders and one (1) electronic copy to WVARNG personnel, including GIS data.

### Project Timeline

Deliverables	Date	Payment Schedule
Project Start Date	May 1 2019	
Weekly Progress Reports	Weekly upon request	
Completion of Surveys	By August 15, 2019	
Completion of Draft Survey Report	By September 15, 2019	50% of Funds
Completion of Final Survey Report	By October 15, 2019	100% of Funds

## 4.0 QUALIFICATIONS AND EXPERIENCE

### 4.1 Overall Company Description

Jackson Group has been providing technical services in the environmental field for over 15 years. Jackson Group's depth of staff and company focus are two key areas that set us apart from the competition. The staff brings a broad range of scientific, and project management expertise to the table. Together, Jackson Group employees create a network of highly specialized and skilled experts; each bringing a unique interpretation and perspective to problem solving.

Jackson Group's technical expertise and company size is ideal to address almost any problem within our skill set, while allowing the agility and flexibility to meet the changing demands of projects. The Jackson Group team is well-versed in the most current regulatory demands and latest technologies. These breakthroughs are incorporated into every project, enabling Jackson Group to exceed the client's expectations while adhering to a fixed budget and meeting aggressive schedules.

### 4.2 Demonstration of Past Experience

Jackson Group has been performing surveys for state and federally listed bat species for over 15 years. Jackson Group bat projects have included habitat surveys, roost emergence surveys, acoustic monitoring, mist net presence/absence surveys, radio telemetry tracking, informal and formal biological assessments and all forms of project coordination with the USFWS for Endangered Species Act Section 7 compliance and state regulatory agencies. Jackson Group bat surveys have ranged in size and scope depending on the project needs and have included extensive efforts for military facilities, utility corridors, large mining sites, the railroad industry, and private development. Our biologists have the ability and experience to complete bat surveys throughout the full range of both the Indiana bat and NLEB. Jackson Group has significant experience with large multidisciplinary projects for government and private industry.

**FIRM**

Jackson Group

**EDUCATION**

Arkansas State University

BS, Wildlife Ecology & Management,  
2000

MS, Biology, 2004

U.S. Army, 82nd Airborne 1993-1997

**CERTIFICATIONS**

Wetland Delineation

**Permits**

USFWS Permit TE-102292-11  
T&E Bat Species

Mr. Jackson is the President/Ecologist of Jackson Group. He has more than 15 years of project management experience in ecological and environmental services. In his current capacity, Mr. Jackson's responsibilities include project oversight, proposal writing, client/agency consultation, and completing technical and regulatory reports, such as Biological Assessments and Biological Evaluations in support of Section 7 consultation under the Endangered Species Act, and NEPA (National Environmental Policy Act) documents.

***Specialty and Skill Areas***

- Environmental Permitting Environmental Modeling Environmental Assessments (EA's) Habitat Suitability Indices (HSI) Terrestrial Ecology
- Aquatic Ecology
- Endangered Species, Specializing in Endangered Bat Species
- Stream/Wetlands Mitigation and Restoration Geographic Information Systems (GIS)
- Cave Surveys, Mapping, and Bio-monitoring Mammalian, Ornithological, Herpetological, and Botanical Surveying and Bio-monitoring

***Professional Affiliations***

- The National Wildlife Society
- Kentucky Chapter of the National Wildlife Society
- American Society of Mammologists
- The Ecological Society of America Southeastern
- Bat Diversity Network
- Kentucky Bat Working Group
- Arkansas Bat Working Group
- Arkansas Academy of Science

***Certifications***

- Certified Ecologist
- Certified Associate Wildlife Biologist
- Rogsens Level I–Applied Fluvial Geomorphology
- Basic Wildland Fire Certified
- Certified Waste Operations Response (40 Hours)

## SELECTED EXPERIENCE

---

- **Barge Waggoner Sumner & Cannon, Inc. SR-35. 2016.** Crew leader on a road construction project, performed a presence/probable absence survey for threatened and endangered bat species, with special emphasis on Indiana bats (*Myotis sodalis*) and Northern Long-eared bats (*Myotis septentrionalis*) in Greene County, Tennessee.
- **EA Engineering. R.C. Bryd Locks and Dam. 2016.** Project leader on an Indiana bat and Northern Long-eared bat habitat assessment and portal survey in Mason County, West Virginia and Gallia County, Ohio.
- **EBI Consulting. Chapel Lane REVA. 2016.** Crew leader on bat survey for a proposed cell phone tower, performed a presence/probable absence survey for threatened and endangered bat species, with special emphasis on Indiana bats (*Myotis sodalis*) and Northern Long-eared bats (*Myotis septentrionalis*) in Floyd County, Indiana.
- **Ross Tarrant Architects. Martin County High School. 2016.** Crew leader on bat survey for a proposed high school, performed a presence/probable absence survey for threatened and endangered bat species, with special emphasis on Indiana bats (*Myotis sodalis*) and Northern Long-eared bats (*Myotis septentrionalis*) in Martin County, Kentucky.
- **RM Johnson Engineering, Inc. Lower Griffin Gate Sewer for LFUCG. 2016.** Crew leader on bat survey for a sewer improvement project, performed a presence/probable absence survey for threatened and endangered bat species, with special emphasis on Indiana bats (*Myotis sodalis*) and Northern Long-eared bats (*Myotis septentrionalis*) in Fayette County, Kentucky.
- **Morehead State University, MSU Stream Stabilization Site 1 Construction. 2016.** Project Manager, designer, construction manager for the stream restoration and stabilization for Triplett Creek, Morehead, KY.
- **Rowan County Public Schools, Phase I Site Assessment. 2016.** Project Manager and Site Inspector for a Phase I Site Assessment.
- **Kinder Morgan. Miller Coors Wetland Mitigation. 2011 – Present.** Project team member assisting in the plan to provide a conceptual approach for the creation and monitoring of an off-site freshwater emergent wetland in response to the construction of a gas pipeline.
- **Western EcoSystems Technology, Inc. Gratiot County Wind Farm Facility. 2015.** Manager and crew leader in the inventory of bat species, establishing the presence or probable absence of the federally listed endangered Indiana bat (*Myotis sodalis*) and threatened Northern Long-eared bat (*Myotis septentrionalis*) within the 1,332 acres of forested habitat associated with the 69 turbine project area.
- **TRC Solutions. ET Rover Pipeline. 2015.** Project manager in the inventory of bat species, establishing the presence or probable absence of the federally listed endangered Indiana bat (*Myotis sodalis*) and threatened Northern Long-eared bat (*Myotis septentrionalis*) along the 710 mile pipeline right of way in Ohio.
- **AECOM. Environmental Investigation: Town Creek Solar Project. 2015.** Project manager in conducting a wetlands and habitat assessment for endangered species in relation to the construction of a proposed solar energy farm in Tipton County, Tennessee.
- **Natural Resource Group. Bluegrass Pipeline Project. 2013.** Project manager in the inventory of bat species, establishing the presence or probable absence of the federally listed endangered Indiana bat (*Myotis sodalis*) along the 525 mile pipeline right of way in Kentucky, Ohio and West Virginia.
- **Rockies Express Pipeline. Wetland and Stream Monitoring. 2012.** Project management monitoring over 200 wetland restoration sites and 300 stream restoration sites.
- **Fort Drum Environmental Division, Fish and Wildlife Management Program. Fort Drum Bat Survey. 2012.** Project manager performing an installation-wide survey of the approximate 43,000 ha Fort Drum Military Installation. Mist-net surveys and radio-tracking was used to document the spatial and temporal use and distribution of bats within the Fort Drum landscape.



#### **FIRM**

Jackson Group

#### **EDUCATION**

Eastern Kentucky University

BS, Wildlife Management

#### **CERTIFICATIONS**

Wetland Delineation

Society of Freshwater Science  
Taxonomic Certification Eastern  
Region Chironomidae (genus level)

Society of Freshwater Science  
Taxonomic Certification Eastern  
Region Ephemeroptera, Plecoptera,  
Trichoptera  
(genus level)

Society of Freshwater Science  
Taxonomic Certification Family Level  
(all Phyla)

Freshwater Mussels of West Virginia

#### **Permits**

USFWS Permit TE-65002A-1  
T&E Bat Species

Mr. Oney has more than 13 years of experience in ecological and environmental services. In that time, he has conducted ecological field investigation on a variety of different projects from large and small transportation, private development, natural resource extraction, jurisdictional waters determination, Kentucky Pollution Discharge Elimination System, 404, 402, and 401 permitting, and stream/wetland restoration and enhancement projects.

In his current capacity, Mr. Oney's responsibilities include completing technical and regulatory reports, such as Biological Assessments and Biological Evaluations in support of Section 7 consultation under the Endangered Species Act, and NEPA (National Environmental Policy Act) documents.

Mr. Oney is proficient and experienced in the application of the following equipment and techniques as they relate to wetland determinations:

- USACE Wetland Delineation Manual (TR Y-87-1)
- Draft Interim Regional Supplement to the USACE Wetland Delineation Manual: Eastern Mountains/Piedmont and Midwest Regions
- Munsell soil color chart (hydric soil determinations)
- Hydrophytic plant and community identification
- USFWS publication National List of Plant Species that Occur in Wetlands
- Stereoscopic dissection microscope for plant identification
- Dichotomous floral keys
- National Wetland Inventory Mapping
- National Hydrography Dataset

Mr. Oney, a nationally certified wildlife biologist through the Wildlife Society, is knowledgeable and experienced in the application of the following equipment and techniques as they relate to the detection, capture, and handling of bat including federally protected species:

- Mist net set up and operation
- Harp traps set up and operation
- Transmitter application/Radio Telemetry
- Suitability assessments for both summer and winter bat habitat
- Acoustical monitoring and call analysis
- Hibernacula surveys
- White-nose Syndrome decontamination protocols



## *Selected Project Experience*

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### **Kentucky**

- Aquatic and Terrestrial Ecological Assessment for the Floyds Fork Greenways Project, Jefferson County, KY.
- Bioassessment Monitoring Report for the Springfield Bypass (US 150) Unnamed Tributary of Mill Creek Relocation Project, Washington County, KY.
- Jurisdictional Waters Determination and Listed Species Evaluation for the Glenview Park Development Project, Jefferson County, KY.
- Jurisdictional Waters Determination for the Hardin County Industrial Foundation Proposed Industrial Park, Hardin County, KY.
- Long-term Monitoring of the Freshwater Mussel Communities at Four Sites in the Tennessee River in Association with the Navigation Lock Addition at Kentucky Lock and Dam, Trigg and Christian Counties, KY.
- Freshwater mussel habitat assessment for a barge fleeting facility on the Ohio River near Maysville, Mason County, KY.
- Aquatic and Terrestrial Baseline Report, Industrial Park Access Road, Clay County, KY.
- Aquatic and Terrestrial Baseline Report for KY 90, Barren County, KY.
- Aquatic and Terrestrial Baseline Report for US 31E, Nelson, Spencer, and Bullitt Counties, KY.
- Aquatic and Terrestrial Baseline Report for US 460 Excess Material Sites, Pike County, KY.
- Aquatic and Terrestrial Baseline Report for KY 974, Clark County, KY.
- Aquatic and Terrestrial Baseline Report for KY 3368, Clark County, KY.
- Stream Mitigation Report, Tackett Branch Excess Material Site, Minnie to Harold Connector Section 2, Floyd County, KY.
- Stream Mitigation Report, US 460 Sections 3, 4, and 5, Pike County, KY.
- Aquatic and Terrestrial Baseline Report for KY 192 to KY 80 Frontage Road, Laurel County, KY.
- Stream Mitigation and Monitoring Report, KY 11 Fleming County, KY.
- Aquatic and Terrestrial Baseline Report for US 127 Jamestown Bypass to KY 90, Clinton and Russell Counties, KY.
- Lowe's Home Center, Inc., Phase I Site Assessments, and Stream/Wetland Mitigation Monitoring.
- Mist Net Survey for the Federally Endangered Indiana bat at Fort Campbell Kentucky and Tennessee.
- Biodiversity Initiative: Terrestrial Beetle Survey at Fort Campbell Kentucky and Tennessee.
- Biological Assessment for the Federally Endangered Indiana Bat (*Myotis sodalis*) US 460 Excess Material Sites, Pike County, KY.
- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout Kentucky.
- Mist Net Surveys for federally protected bats species on over 20 different natural resource extraction permits throughout eastern and western Kentucky.
- Benthic macroinvertebrate and fish baseline assessments and annual monitoring on over 100 different natural resource extraction permits throughout eastern and western Kentucky.

### **Tennessee**

- Ecological Assessment, Shelby Farms Kirby Parkway, Shelby County, TN.



- I-69 Independent Utility Segment # 8 Crossover Study, Tennessee.
- Ecological Assessment, Aspen Street Bridge Replacement over Big Creek, Campbell County, TN.
- Ecological Assessment, Beech Road, Bridge Replacements over Bryan's Fork and Morgan Creek in Standing Stone State Park Overton County, TN.
- Ecological Assessment, Central Avenue Bridge Replacement over South Fork of Harris Creek Obion County, TN.
- Ecological Assessment, Jack Pond Road Bridge Replacement over Unnamed Tributary to Baxter Bottom Tipton County, TN.
- Ecological Assessment, Campground Road Bridge Replacement over Unnamed tributary to Hurricane Creek Tipton County, TN.
- Ecological Assessment, Kentwood Avenue Bridge Replacement over Unnamed tributary to Hatchel Creek Tipton County, TN.
- Ecological Assessment, Riverside Drive Bridge Replacement over Knoxville and Holston Railroad Knox County, TN.
- Ecological Assessment, SR-115 Greenway Bridge Replacement over the Tennessee River Knox County, TN.
- Ecological Assessment, SR-158 (Church Avenue) Bridge Replacement Knox County, TN.
- Ecological Assessment, SR-168 (John Sevier HWY) Intersection Improvements at Martin Mill Pike Knox County, TN.
- Ecological Assessment, Weisgarber Road Bridge Replacement over Fourth Creek Knox County, TN.
- Ecological Assessment, Slatestone Road Bridge Replacement over Slatestone Creek Anderson County, TN.
- Ecological Assessment, SR-250 Bridge Replacement over Turnipseed Creek Cheatham County, TN.
- Ecological Assessment, White Road Bridge Replacement over Turnbull Creek, Dickson County, TN.
- Ecological Assessment, SR-194 Bridge Replacements over Loosahatchie River and Little Laurel Drainage Canal Fayette County, TN.
- Ecological Assessment, SR-194 Bridge and Overflow Replacements over Shaw's Creek and Unnamed Tributary to Shaw's Creek Fayette County, TN.
- Ecological Assessment, Longtown Road Bridge Replacement over Little Cypress Creek Fayette County, TN.
  
- Knoxville Parkway (I-475), Mist-Netting and Portal Surveys, Knox County, TN.
- Mist Net Survey for the Federally Threatened and Endangered bat species for the Holston Army Ammunition Plant Hawkins County, TN.
- Small mammal inventory for the Holston Army Ammunition Plant Hawkins County, TN.

#### **Indiana**

- Jurisdictional Waters Determination for the Proposed 2,420 Acre Seven Hill Surface Mine, Warrick County, Indiana.

#### **Georgia**

- Baseline Bat Survey for the Tennessee Army National Guard Volunteer Training Center (TNANG), Catoosa, Georgia.

#### **Pennsylvania**

- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed UGI Natural Gas Pipeline in Tioga and Lycoming Counties, Pennsylvania.



- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Natural Gas Pipeline Project in Greene, York, Adams, and Franklin Counties, Pennsylvania.
- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline in Pennsylvania.
- Mist Net Survey for the Federally Endangered Indiana Bat for the Pennsylvania Pipeline Project.

#### **Ohio**

- Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout Ohio.
- Indiana bat survey for Wind Farm Project. Champaign County, Ohio.

#### **West Virginia**

- Freshwater Mussel Survey Report for the City of Ripley Proposed Emergency Slip Repair Project Along Mill Creek, Jackson County, West Virginia.
- Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout West Virginia.
- Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout West Virginia.

#### **Missouri**

- Summer Mist Net Survey for the Federally Threatened and Endangered Bat Species at Specialty Granules Inc. Iron County, Missouri.



## FIRM

Jackson Group

## EDUCATION

Eastern Kentucky University

Master of Science, Biology (Emphasis on Wetland Plants)

Bachelor of Science, Wildlife Management

## CERTIFICATIONS

Wetland Delineation

USACE Wetland Rapanos and Mitigation Rule Training

## Permits

USFWS Permit TE-65346A-1  
T&E Bat Species

Mr. Roberts is a Director/Senior Project Scientist with more than 14 years of project management experience in ecological and environmental services. In his current capacity, Mr. Roberts' responsibilities include project oversight, proposal writing, client/agency consultation, and completing technical and regulatory reports, such as Biological Assessments and Biological Evaluations in support of Section 7 consultation under the Endangered Species Act, and NEPA (National Environmental Policy Act) documents.

### *Specialty and Skill Areas*

- Federal and state listed threatened and endangered species surveys, with special emphasis on bat species
- Acoustic Monitoring and Analysis
- Summer & winter bat habitat assessments
- Hibernacula surveys
- Ecological surveys including ornithological, herpetological & fisheries
- Physiochemical water quality sampling
- Wetland determination/delineations
- Geographic Information Systems (GIS)
- Urban ecology
- Habitat Suitability Indices (HSI)
- Large Scale Project Management

### *Professional Affiliations*

- The National Wildlife Society
- Kentucky Chapter of The National Wildlife Society
- Southeastern Bat Diversity Network
- Kentucky Bat Working Group
- Southern Gas Association
- Midwest Bat Working Group

## *Selected Project Experience*

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### **Georgia**

- Baseline Bat Survey for the Tennessee Army National Guard Volunteer Training Center (TNANG), Catoosa, Georgia.
- Threatened and Endangered Species review for the proposed Transco Lawrenceville No. 3 Meter Station Project, Gwinnett County, Georgia.

### **Illinois**

- Indiana bat survey for Wind Farm Project.

### **Indiana**

- Indiana bat survey for Corradino. North Vernon, Indiana.
- Indiana bat survey for the proposed Henderson- Dogtown Natural Gas Pipeline in Indiana and Kentucky.
- Riparian and Wetland Restoration and Monitoring for the Icon Properties Mitigation Site, Clark County.
- Riparian and Wetland Restoration and Monitoring for the Chambord Subdivision Mitigation Site, Washington County.

### **Kentucky**

- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout Kentucky.
- Marathon Pipeline Integrated Vegetation Management Plan-Pilot Study, Martin County, Indiana and Bullitt County.
- Marathon Pipeline Integrated Vegetation Management Plan-Pilot Study, Martin County, Indiana and Bullitt County.
- Wetland Determination for Landmark Mining Company (DRME# 836-0412), Floyd County.
- Stream and Wetland Restoration Project for Cove Springs Park, Franklin County.
- Stream and Wetland Mitigation Planting for the Poplar Woods Subdivision Mitigation Site, Oldham County.
- Jurisdictional Waters Determination and Listed Species Evaluation for the Glenview Park Development Project, Jefferson County.
- Aquatic and Terrestrial Ecological Assessment for the Floyds Fork Greenways Project, Jefferson County.
- Jurisdictional Waters Determination for the Cove Spring Stream Restoration Project, Franklin County.
- Jurisdictional Waters Determination for the Johnson Property, Scott County.
- Jurisdictional Waters Determination for the Hardin County Industrial Foundation Proposed Industrial Park, Hardin County.
- Jurisdictional Waters Determination for Lake Forest Development Phase 4, Georgetown.

### **Maryland**

- Mist Net Survey for the Federally Endangered Indiana Bat and threatened northern long-eared bat for the Proposed Terrapin Hills Wind Project Garrett County, Maryland.

### **Missouri**

- *Project Manager* -Mist Net Survey for the Federally Endangered Indiana Bat and threatened northern long-eared bat for Specialty Granules Inc. Iron County, Missouri.

### **North Dakota**

- Raptor nest survey and avian monitoring for the Proposed Rover Keystone Pipeline Project.

## Ohio

- *Project Manager* - Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout Ohio.
- *Project Manager* -Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout Ohio.
- *Project Manager* -Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout Ohio.
- Indiana bat survey for Wind Farm Project. Hardin County, Ohio.
- Raptor Nest Survey for REX Pipeline. Zanesville, Ohio.
- Indiana bat survey for Wind Farm Project. Champaign County, Ohio.
- Indiana Bat Survey for Proposed Relocation Natural Gas Pipelines in Ohio.
- Indiana Bat Survey for the Rockies Express Pipeline across central Ohio.
- Raptor Nest Survey for the Rockies Express Pipeline across central Ohio.
- *Project Manager* -Wetland Determination for the Proposed PA Pipeline Project.
- *Project Manager* -Stream assessment and evaluation for the proposed PA Pipeline Project.

## Pennsylvania

- *Project Manager* -Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout PA.
- *Project Manager* -Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout PA.
- *Project Manager* -Wetland Determination for the Proposed Bluegrass Pipeline, Mercer County.
- Wetland Determination for the Proposed PA Pipeline Project.
- *Project Manager* -Stream assessment and evaluation for the proposed PA Pipeline Project.

## Tennessee

- *Project Manager* -Mist Net Survey for the Federally Threatened and Endangered bat species for the Holston Army Ammunition Plant Hawkins County, Tennessee.
- *Project Manager* -Small mammal inventory for the Holston Army Ammunition Plant Hawkins County, Tennessee.

## West Virginia

- *Project Manager* -Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout West Virginia.
- *Project Manager* -Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout West Virginia.
- *Project Manager* -Habitat analysis for the Federally Endangered Indiana Bat for the Pennsylvania Pipeline Project.
- *Project Manager* -Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout West Virginia.
- *Project Manager* -Wetland Determination for the Proposed PA Pipeline Project.
- *Project Manager* -Stream assessment and evaluation for the proposed PA Pipeline Project.



Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Request for Quotation  
 34 — Service - Prof

Proc Folder: 547217

Doc Description: Bat Survey- Camp Dawson

Proc Type: Central Purchase Order

Date Issued	Sollcitation Closes	Solicitation No	Version
2019-02-08	2019-02-25 13:30:00	CRFQ 0603 ADJ1900000009	1

**BID RECEIVING LOCATION**  
 BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**  
 Vendor Name, Address and Telephone Number:

**FOR INFORMATION CONTACT THE BUYER**  
 Stephanie L. Gale  
 (304) 558-8801  
 stephanie.l.gale@wv.gov

Signature X FEIN # DATE

All offers subject to all terms and conditions contained in this solicitation

**Request for Quotation**  
 (fauna survey for the Indiana Bat and the Northern Long-Eared Bat)

The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Army National Guard's Environmental Office to establish a one-time contract providing all professional and technical personnel, labor, facilities, equipment, materials, transportation and supplies needed to perform a critical fauna survey for the Indiana Bat and the Northern Long-Eared Bat at the Camp Dawson Army Training site near Kingwood, in Preston County, WV. per the specifications and Terms and Conditions as attached hereto.

DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR  CHARLESTON WV25311  US		FACILITY MAINTENANCE MANAGER CAMP DAWSON ARMY TRAINING SITE 240 ARMY RD  KINGWOOD WV 26537-1077  US	
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Bat Survey-Camp Dawson Army Training Site				

Comm Code	Manufacturer	Specification	Model #
77111507			

**Extended Description :**  
 Critical Fauna Survey for the Indiana Bat and the Northern Long-Eared Bat per the attached specifications.

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Shane Roberts, Vice President

(Name, Title)

(Printed Name and Title)

3945 Simpson Lane Richmond KY 40475

(Address)

859-623-0499

(Phone Number) / (Fax Number)

sroberts@jacksongroupco.com

(email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Jackson Group

(Company)



Shane Roberts Vice President

(Authorized Signature) (Representative Name, Title)

Shane Roberts, Vice President

(Printed Name and Title of Authorized Representative)

~~2-22-2019~~ 2-25-2019

(Date)

859-623-0499

(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM  
SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

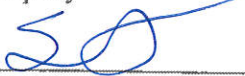
(Check the box next to each addendum received)

- Addendum No. 1
- Addendum No. 2
- Addendum No. 3
- Addendum No. 4
- Addendum No. 5

- Addendum No. 6
- Addendum No. 7
- Addendum No. 8
- Addendum No. 9
- Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Jackson Group  
Company

  
Authorized Signature

2-25-19  
Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

REQUEST FOR QUOTATION  
Bat Survey Camp Dawson Army Training Site

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**10. VENDOR DEFAULT:**

10.1. The following shall be considered a vendor default under this Contract.

10.1.1. Failure to perform Contract Services in accordance with the requirements contained herein.

10.1.2. Failure to comply with other specifications and requirements contained herein.

10.1.3. Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.

10.1.4. Failure to remedy deficient performance upon request.

10.2. The following remedies shall be available to Agency upon default.

10.2.1. Immediate cancellation of the Contract.

10.2.2. Immediate cancellation of one or more release orders issued under this Contract.

10.2.3. Any other remedies available in law or equity.

**11. MISCELLANEOUS:**

11.1. **Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Shane Roberts

Telephone Number: 859-623-0499

Fax Number: \_\_\_\_\_

Email Address: sroberts@jacksongroupco.com



**EXHIBIT A**  
**Pricing Page**

ALL LABOR, MATERIALS, EQUIPMENT, AND SUPPLIES NECESSARY TO CONDUCT CRITICAL FAUNA  
SURVEY FOR THE INDIANA BAT AND NORTHERN LONG-EARED BAT, ON CAMP DAWSON ARMY  
TRAINING SITE AT KINGWOOD, WV

The undersigned, hereafter called the Bidder, being familiar with and understanding the bidding documents; and being familiar with the required qualifications and the mandatory requirements of the Project with regards to the deliverables and associated timelines, hereby proposes to furnish labor, material, equipment, supplies, and transportation to perform the work as described in the bidding documents

BIDDERS COMPANY NAME: Jackson Group

VENDOR ADDRESS: 3945 Simpson Lane  
Richmond, KY 40475

TELEPHONE: 859-623-0499

FAX NUMBER: \_\_\_\_\_

E-MAIL ADDRESS: sroberts@jacksongroupco.com

TOTAL BID AMOUNT:

Fifty two thousand \_\_\_\_\_  
(\$ 52,000.00) \_\_\_\_\_ )

(Contract bid to be written in words and numbers.)

Failure to use this bid form may result in bid disqualification.

SIGNATURE: SR DATE: 2-25-19

NAME: Shane Roberts  
(Please Print)

TITLE: Vice President

# West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: Jackson Group Address: 3945 Simpson Lane  
Richmond, KY 40475

Name of Authorized Agent: \_\_\_\_\_ Address: \_\_\_\_\_

Contract Number: \_\_\_\_\_ Contract Description: \_\_\_\_\_

Governmental agency awarding contract: \_\_\_\_\_

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: [Handwritten Signature] Date Signed: 25 Feb 2019

### Notary Verification

State of Kentucky, County of Madison:

I, Brenna Richardson Prater, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 25 day of February, 2019.

Brenna Richardson Prater  
Notary Public's Signature

### To be completed by State Agency:

Date Received by State Agency: \_\_\_\_\_

Date submitted to Ethics Commission: \_\_\_\_\_

Governmental agency submitting Disclosure: \_\_\_\_\_

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**CONSTRUCTION CONTRACTS:** Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

**ALL CONTRACTS:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

**"Debt"** means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"Related party"** means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: Jackson Environmental Consulting Services, LLC

Authorized Signature: [Signature] Date: 26 Feb 2019

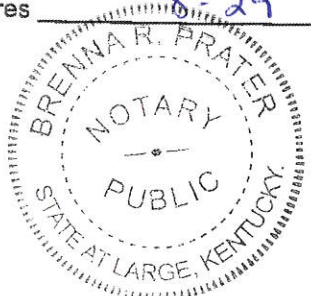
State of Kentucky

County of Madison, to-wit:

Taken, subscribed, and sworn to before me this 25 day of February, 2019.

My Commission expires 8-29, 2019.

AFFIX SEAL HERE



NOTARY PUBLIC Brenna Richardson Prater