

PROPOSAL  
for  
INVASIVE SPECIES CONTROL  
CAMP DAWSON  
WEST VIRGINIA ARMY NATIONAL GUARD (WVANG)



**AllStar Ecology LLC**  
Natural Resource Specialists



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WV PURCHASING  
DIVISION

Prepared for:

West Virginia Purchasing Division

WVANG Environmental Office

RFQ Number:

DEEK10016

4/19/2010



PROPOSAL FOR INVASIVE SPECIES CONTROL  
CAMP DAWSON  
WEST VIRGINIA ARMY NATIONAL GUARD  
PRESTON COUNTY, WV

2010

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*Contact information:*

**AllStar Ecology LLC.**  
**1580 McKinney Cave Road**  
**Reedsville, WV 26547**

**FEIN Number: 26-1557130**

**Project Manager: Ryan Ward**  
**Cell: 304-692-7477**  
**Tele: 866-213-2666**  
**Website: [www.allstarecology.com](http://www.allstarecology.com)**  
**Email: [ryan@allstarecology.com](mailto:ryan@allstarecology.com)**



PROPOSAL FOR INVASIVE SPECIES CONTROL  
CAMP DAWSON  
WEST VIRGINIA ARMY NATIONAL GUARD  
PRESTON COUNTY, WV

2010

## Section 1.0 - Completed Signed Quotation

**AllStar Ecology LLC.**  
**1580 McKinney Cave Road**  
**Reedsville, WV 26547**

**FEIN Number: 26-1557130**





State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

**Request for  
 Quotation**

RFQ NUMBER  
**DEFK10016**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**BUYER 32  
 304-558-2544**

VENDOR

**RFQ COPY  
 TYPE NAME/ADDRESS HERE**

*AllStar Ecology LLC  
 1580 McKinney Cave Rd  
 Reedsville, WV 26547*

SHIP TO

**DIV ENGINEERING & FACILITIES  
 CAMP DAWSON ARMY TRAINING SITE  
 240 ARMY ROAD**

**KINGWOOD, WV  
 26537-1077 304-329-4417**

DATE PRINTED <b>04/01/2010</b>	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
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BID OPENING DATE: **04/22/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		810-85	<i>\$105.00 / ACRE</i>	<i>\$ 40,740.00</i>
<p><b>HERBICIDE/PESTICIDE APPLICATION SERVICES</b></p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA ARMY NATIONAL GUARD'S ENVIRONMENTAL OFFICE, IS SOLICITING BIDS FROM QUALIFIED HERBICIDE/PESTICIDE APPLICATION CONTRACTORS TO AID THE AGENCY IN ITS INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN AT THE CAMP DAWSON ARMY TRAINING SITE IN KINGWOOD, WV, (PRESTON CO.), PER THE FOLLOWING SPECIFICATIONS, SCOPE OF WORK, AND BID REQUIREMENTS.</p> <p>THIS CONTRACT IS FOR THE APPLICATION OF HERBICIDES/PESTICIDES ONLY. ALL HERBICIDES AND SURFACANTS ARE TO BE PROVIDED BY THE WVARNG AND STORED AT CAMP DAWSON. SAID MATERIALS WILL BE MADE AVAILABLE TO THE CONTRACTOR ON AN AS NEEDED BASIS AND ANY UNUSED MATERIALS WILL REMAIN THE PROPERTY OF THE WVARNG.</p> <p>ALL WORK FOR THIS CONTRACT IS TO BE PERFORMED BETWEEN MAY 3, 2010, AND SEPTEMBER 27, 2010.</p> <p>INTERESTED CONTRACTORS MUST BE ABLE TO MEET THE LICENSING AND INSURANCE REQUIREMENTS NOTED HEREIN AT THE TIME OF BID. IT IS PREFERRED THAT VENDORS SUBMIT THE REQUIRED CERTIFICATIONS, LICENSES, AND PROOF OF INSURANCE CERTIFICATES WITH THEIR BIDS; HOWEVER, IF SAID CONTRACTOR REQUIREMENTS ARE NOT INCLUDED WITH THE BID, THEY MUST BE SUBMITTED UPON THE WRITTEN REQUEST OF THE AGENCY WITHIN THE STIPULATED TIME FRAME OR THE VENDOR'</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Gregory J. Short Jr.</i>	TELEPHONE <i>304-216-5690</i>	DATE <i>4/19/2010</i>
TITLE <i>Owner</i>	FEIN <i>26-1557130</i>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

**Request for  
 Quotation**

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**DEFK10016**

PAGE  
**2**

ADDRESS: CORRESPONDENCE TO ATTENTION OF  
**BUYER 32  
 304-558-2544**

PROPERTY

RFQ COPY  
 TYPE NAME/ADDRESS HERE

*Allstar Ecology LLC  
 1580 McKinney Cave Rd  
 Reedsville, WV 26547*

SHIP TO

**DIV ENGINEERING & FACILITIES  
 CAMP DAWSON ARMY TRAINING SITE  
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04/01/2010				

BID OPENING DATE: **04/22/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p><b>BID MAY BE DISQUALIFIED AND NOT CONSIDERED FOR AWARD.</b></p> <p><b>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</b></p> <p><b>NOTICE</b></p> <p><b>A SIGNED BID MUST BE SUBMITTED TO:</b></p> <p><b>DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            BUILDING 15            2019 WASHINGTON STREET, EAST            CHARLESTON, WV 25305-0130</b></p> <p><b>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</b></p> <p><b>SEALED BID</b></p> <p><b>BUYER: 32</b></p> <p><b>RFQ. NO.: DEFK10016</b></p> <p><b>BID OPENING DATE: 04/22/2010</b></p> <p><b>BID OPENING TIME: 1:30 PM</b></p> <p><b>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 866-213-2666</b></p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Gregory S. Short</i>	TELEPHONE 304-216-5690	DATE 4/19/2010
TITLE Owner	FAX 26-1557130	ADDRESS CHANGES TO BE NOTED ABOVE

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BID OPENING DATE: **04/22/2010**      BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
CONTACT PERSON (PLEASE PRINT CLEARLY): <i>Ryan L. Ward</i>						
***** THIS IS THE END OF RFQ DEFK10016 ***** TOTAL:						<i>40,740.00</i>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Bryan J. Short</i>	TELEPHONE <i>304-216-5690</i>	DATE <i>04/19/2010</i>
TITLE <i>Owner</i>	FAX <i>26-1557130</i>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



**WEST VIRGINIA DEPARTMENT OF AGRICULTURE**  
**Pesticide Regulatory Programs**  
**Licensing Section**  
 1900 Kanawha Blvd., East  
 Charleston, WV 25305-0190

For Office Use Only	
Batch Number	149- _____
License Number	_____
Insurance Certificate	_____

**Application for License Pesticide Application Business License**

1.	Company Name (Please print) <i>AllStar Ecology, LLC</i>			
2.	Mailing Address for license: <i>1580 McKinney Cave Rd.</i>			
	City: <i>Reedsville</i>	State: <i>WV</i>	Zip Code: <i>26547</i>	County: <i>Preston</i>
	Company Phone: <i>866-213-2666</i>	Fax: <i>866-213-2666</i>	E-mail address: <i>ryan @ allstarecology.com</i>	
3.	WV State Tax Number: <i>2187-3981</i> We will return without your number. Call 304-558-3333 to apply for number.			
4.	Name of Qualifying Individual for company: <i>Ryan Ward</i> Must have passed the LPAB exam.			
	Physical Address of Company: <i>1580 McKinney Cave Rd.</i>			
	City: <i>Reedsville</i>	State: <i>WV</i>	Zip Code: <i>26547</i>	
5.	In compliance with the Code of West Virginia, Chapter 19, Article 16A, I (We) hereby apply for certification in the category(ies) checked below.			
	Signature: <i>Ryan Ward</i>		Date: <i>1/12/10</i>	
	<input type="checkbox"/> 1 Agricultural Plant Pest Control <input type="checkbox"/> 2 Agricultural Animal Pest Control <input type="checkbox"/> 3 Forest Pest Control <input checked="" type="checkbox"/> 4A Ornamental & Turf Outdoors <input type="checkbox"/> 4B Ornamental Pest Control Indoors <input type="checkbox"/> 5 Seed Treatment <input checked="" type="checkbox"/> 6 Aquatic Pest Control <input checked="" type="checkbox"/> 7 Right-of-Way/Industrial Weed <input type="checkbox"/> 8A General Pest Control <input type="checkbox"/> 8B Structural Pest Control <input type="checkbox"/> 8C Fumigation <input type="checkbox"/> 8D Wood Treatment <input type="checkbox"/> 8E Urban Integrated Pest Management	<input type="checkbox"/> 9 Public Health <input type="checkbox"/> 10 Regulatory <input type="checkbox"/> 11 Demonstration & Research <input type="checkbox"/> 12 Pesticide Storage & Distribution <input type="checkbox"/> 13A Predator Control <input type="checkbox"/> 13B Sewer Root Control <input checked="" type="checkbox"/> 13C Hardwood Tree Release <input checked="" type="checkbox"/> 13D Mosquito Control <input type="checkbox"/> 13E Black Fly Control <input type="checkbox"/> 14 Aerial		

**FEE:** An annual fee of \$60.00 is required for each Licensed Pesticide Application Business License issued. Each branch office must submit a separate application.



**WEST VIRGINIA DEPARTMENT OF AGRICULTURE**  
**Pesticide Regulatory Programs**  
**Licensing Section**  
**1900 Kanawha Blvd., East**  
**Charleston, WV 25305-0190**

For Office Use Only	
Batch Number	147- _____
License Number	_____

**Application for License as a Commercial Applicator or Certified Public Applicator**

1.	Name (Please print) <u>Ryan, L. Ward</u>	Social Security #: <u>464-61-2881</u>																										
2.	Mailing Address for license: <u>Rt. 2 Box 228</u>																											
	City: <u>Rivesville</u>	State: <u>WV</u> Zip Code: <u>26580</u> County: <u>Marion</u>																										
	Home Phone: <u>304-278-5890</u>	Cell: <u>304-692-7477</u> E-mail address: <u>ryan@allstar-ecology.com</u>																										
3.	Name of Company Employed by: <u>All Star Ecology, LLC</u>	Company LPAB or RPAB#: _____																										
4.	Company address: <u>1580 McKinney Cave Rd</u>																											
	City: <u>Reedsville</u> State: <u>WV</u> Zip Code: <u>26547</u>																											
5.	Company phone number: <u>866-213-2666</u>	Fax number: <u>866-213-2666</u>																										
In compliance with the Code of West Virginia, Chapter 19, Article 16A, I hereby apply for the above license in the category(ies) checked below.																												
Signature <u>Ryan L Ward</u>		Date <u>1/12/10</u>																										
6.	Check one: <input checked="" type="checkbox"/> Commercial Applicator	<input type="checkbox"/> Certified Public Applicator (government employee)																										
<table border="0"> <tr> <td><input type="checkbox"/> 1 Agricultural Plant Pest Control</td> <td><input type="checkbox"/> 9 Public Health</td> </tr> <tr> <td><input type="checkbox"/> 2 Agricultural Animal Pest Control</td> <td><input type="checkbox"/> 10 Regulatory</td> </tr> <tr> <td><input type="checkbox"/> 3 Forest Pest Control</td> <td><input type="checkbox"/> 11 Demonstration &amp; Research</td> </tr> <tr> <td><input checked="" type="checkbox"/> 4A Ornamental &amp; Turf Outdoors</td> <td><input type="checkbox"/> 12 Pesticide Storage &amp; Distribution</td> </tr> <tr> <td><input type="checkbox"/> 4B Ornamental Pest Control Indoors</td> <td><input type="checkbox"/> 13A Predator Control</td> </tr> <tr> <td><input type="checkbox"/> 5 Seed Treatment</td> <td><input type="checkbox"/> 13B Sewer Root Control</td> </tr> <tr> <td><input checked="" type="checkbox"/> 6 Aquatic Pest Control</td> <td><input checked="" type="checkbox"/> 13C Hardwood-Tree Release</td> </tr> <tr> <td><input checked="" type="checkbox"/> 7 Right-of-Way/Industrial Weed</td> <td><input checked="" type="checkbox"/> 13D Mosquito Control</td> </tr> <tr> <td><input type="checkbox"/> 8A General Pest Control</td> <td><input type="checkbox"/> 13E Black Fly Control</td> </tr> <tr> <td><input type="checkbox"/> 8B Structural Pest Control</td> <td><input type="checkbox"/> 14 Aerial</td> </tr> <tr> <td><input type="checkbox"/> 8C Fumigation</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 8D Wood Treatment</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 8E Urban Integrated Pest Management</td> <td></td> </tr> </table>			<input type="checkbox"/> 1 Agricultural Plant Pest Control	<input type="checkbox"/> 9 Public Health	<input type="checkbox"/> 2 Agricultural Animal Pest Control	<input type="checkbox"/> 10 Regulatory	<input type="checkbox"/> 3 Forest Pest Control	<input type="checkbox"/> 11 Demonstration & Research	<input checked="" type="checkbox"/> 4A Ornamental & Turf Outdoors	<input type="checkbox"/> 12 Pesticide Storage & Distribution	<input type="checkbox"/> 4B Ornamental Pest Control Indoors	<input type="checkbox"/> 13A Predator Control	<input type="checkbox"/> 5 Seed Treatment	<input type="checkbox"/> 13B Sewer Root Control	<input checked="" type="checkbox"/> 6 Aquatic Pest Control	<input checked="" type="checkbox"/> 13C Hardwood-Tree Release	<input checked="" type="checkbox"/> 7 Right-of-Way/Industrial Weed	<input checked="" type="checkbox"/> 13D Mosquito Control	<input type="checkbox"/> 8A General Pest Control	<input type="checkbox"/> 13E Black Fly Control	<input type="checkbox"/> 8B Structural Pest Control	<input type="checkbox"/> 14 Aerial	<input type="checkbox"/> 8C Fumigation		<input type="checkbox"/> 8D Wood Treatment		<input type="checkbox"/> 8E Urban Integrated Pest Management	
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**FEE:** An annual fee of \$10.00 is required for each Commercial Applicator's License issued. No fee is required for the Certified Public Applicator License.

THE LICENSES EXPIRE ON DECEMBER 31st OF EACH CALENDAR YEAR. If the license is NOT renewed by the first day of April of any year, the licensee shall be required to take another certification examination.

\*Licensed Pesticide Application Business  
 Regulated Pesticide Application Business

Revised April 2009





## Section 2.0 – Technical Proposal





## Section 2.1 - Past Experience

AllStar Ecology LLC (ASE) is an experienced company providing environmental consulting and contracting for public and private clients. The ASE team includes experienced field biologists and workers with specialties in botany, wildlife ecology, streams, and wetlands.

Our staff has performed similar invasive species control activities on federally managed lands, as well as privately-owned tracts and other land holdings. The following project descriptions show the type of work completed by ASE and the resumes in Section 2.2 illustrate the capabilities of our project team.

### Wades Run Stream Assessment and Mitigation Planning



— Monongalia County, West Virginia

Dates Assessed: March 2008-April 2009

ASE assisted in assessment of streams using the EPA Rapid Bioassessment Protocols and conducted benthic sampling and identification for stream baseline data for coal mining activities. ASE collected geomorphic stream data and assisted engineers with the development of a concept mitigation plan that involved the reconstruction of a stream post-mining using natural stream design principles.

### Canaan Valley PSD Wetland Delineation and Mitigation Planning



— Tucker County, West Virginia

Dates Assessed: April 2009-ongoing

ASE located wetlands and streams within the areas proposed for future sanitary sewer lines and two wastewater treatment plants. Wetlands were identified, flagged and located with a Trimble Geo XH GPS unit. Report was generated as a formal Jurisdictional Determination Request with the Corps of Engineers. ASE developed a mitigation plan for wetland impacts, and will be conducting the monitoring of the mitigation project.



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### **Kanawha Stream Bank Development**

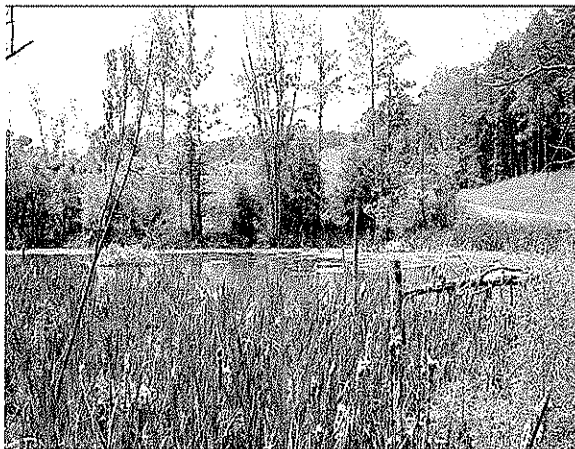


**Dates Assessed:** April 2009-ongoing

ASE performed assessment and mapping services for the feasibility of a stream mitigation bank serving the Kanawha River watershed. Services including mapping the locations of streams, fences, roads, food plots, and other manmade features with a Trimble Geo XH GPS unit. Streams were assessed based on possible mitigation activities and the potential improvement of ecological function. A draft prospectus is being prepared for submittal to regulatory agencies.

— *Pocahontas County, West Virginia*

### **Fraizer's Bottom Mitigation Monitoring**



**Dates Assessed:** June 2009

ASE performed a variety of services to assess the condition of a constructed wetland system (approx. 14 acres). Extensive vegetation surveys were conducted to compile a species list of vegetation as well as document invasive species. A wetland delineation was conducted to determine the exact size of the created wetlands for comparison with the clients mitigation liability. Wildlife was surveyed by sight and call (birds and frogs). Monitoring photographs were taken to document the site conditions. All wetlands, vegetation transects, and monitoring points were mapped with a Trimble Geo XH GPS unit.

— *Putnam County, West Virginia*



### Goose Creek Retail Offsite Mitigation Stream Construction



Dates Assessed: March 2009

ASE personnel provided oversight and assistance in the installation of restoration structures and practices including rock cross vanes and tree installation for riparian buffer creation along 1,347 linear feet of stream channel for the offsite stream mitigation of the Goose Creek Retail Development. The goals of the activities were to improve water quality, geomorphic stability, and fish/wildlife habitat.

—Fauquier County, Virginia

### Potomac Mitigation Bank Development



Dates Assessed: April 2009-ongoing

ASE performed assessment and mapping services for the feasibility of a stream mitigation bank serving the Potomac River watershed. Streams were assessed based on possible mitigation activities and the potential improvement of ecological function. A prospectus was prepared and plan is under development for the construction of the bank including the creation of approximately 17 acres of wetlands and the restoration/enhancement of approximately 4,000 linear feet of stream channel.

— Hampshire County, West Virginia



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## Tygart Valley Mitigation Bank Invasive Species Treatment



— Randolph County, West Virginia

Contracted for July, 2010

AllStar Ecology, LLC will provide Canaan Valley Institute a pre-construction herbicide treatment of *Rosa multiflora* and *Phalaris arundinacea*. Treatment will be in the form of a foliar application of an aquatic approved herbicide with glyphosate as an active ingredient. Timing will occur during July and will target the species when foliar applications are most effective. All herbicide applications will be performed by a Certified Pesticide Applicator or Registered Technician with the approval for Aquatic Pest Control (Category 6).



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## Section 2.2 - References

### For previous job performance of AllStar Ecology, LLC:

***Carol Phillips***

Environmental Scientist  
Triad Engineering  
219 Hartman Run Road  
Morgantown, WV 26505  
(304) 296-2562

***Joe Ivers***

Foggy Bottom, LLC  
6799-A Kennedy Road  
Warrenton, VA 20817  
(540) 349-1522

***Sheirl Fletcher***

President  
Fletcher Environmental Services  
P.O. Box 384  
Dellslow, WV 26531  
(304) 288-0490



## Section 2.3 - Qualifications of Key Personnel: Resumes

ASE is committing our most experienced field biologists and workers to this project. Ryan Ward will serve as the Project Manager and will be the primary contact with the Camp Dawson Environmental Office technical staff. He will be executing the field work with Greg Short, an experienced ecologist whom has extensive experience with Camp Dawson's Invasive Species Eradication Project. Our team will provide the West Virginia Army National Guard with the necessary skills to perform the invasive species eradication plan, while meeting the schedule specified in the solicitation. ASE is a relatively new company that has primarily focused on environmental consulting tasks, but we are expanding services into environmental contracting. While the company may lack some experience in projects similar to the required tasks for this contract, key personnel have extensive experience at past places of employment and work. Resumes for key individuals are enclosed.

ASE scientist, Ryan Ward, has served as a project manager with a private consulting and contracting firm in Virginia, overseeing and assisting in the management of vegetation for mitigation and restoration projects. Mr. Ward has also served as a forestry technician with the USDA Forest Service where he obtained extensive experience with cut stump application of herbicide. Mr. Ward is a Certified Arborist in the International Society of Arborists and maintains a state certified nursery in West Virginia for the production of bioengineering materials. On his farm and nursery, Mr. Ward has successfully maintained a vegetation management program since 2007 to control multiple invasive species targeted for the eradication plan of Camp Dawson. Mr. Ward has successfully completed the licensed pesticide application business exam (LPAB), General Standards Examination (GS), Ornamental and Turf Outdoors (4A), Aquatic Pest Control (Category 6), Right-of-way/Industrial Right of way (Category 7), Hardwood Tree Release (Category 13C), and Mosquito Control (Category 13D).

ASE botanist, Greg Short, has served as the West Virginia botanist/ecologist for the US Forest Service Forest Inventory and Analysis Program (FIA) for the 2007 and 2009 field seasons. Mr. Short has also been a team member of the WV Natural Heritage Program assisting with various floristic inventory projects throughout WV including the Camp Dawson Floristic Inventory. He is a recognized botanist for the state of WV and PA to conduct surveys for state and federally threatened and endangered species. While working for the West Virginia Division of Natural Resources (WVDNR) Mr. Short served as an invasive species technician and a biological technician for the Camp Dawson Environmental Office. He was involved with the documentation and eradication program of non-native invasive species within the West Virginia Army National Guard property of Camp Dawson located in Kingwood, WV. The program required the operation of heavy equipment for clearing and grubbing of invasive species and also required knowledge of the various methods and techniques used for herbicide applications within Camp Dawson's training areas. Mr. Short has extensive knowledge of the landscape and road network throughout Camp Dawson's training sites including Volkstone, Camp Dawson, Pringle, and Briery Tracts.



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**Ryan L. Ward, M.S.**  
— **Environmental Scientist**



Ryan Ward, one of our environmental scientists, has worked throughout the United States on various projects with an emphasis on wildlife research. As a native of Texas, Mr. Ward has studied in environments in Texas, New Mexico, Arizona, and Oklahoma. Mr. Ward came to the Eastern United States to pursue his graduate degree focusing on salamanders and stream habitats in West Virginia. He has extensive regulatory experience throughout the Mid-Atlantic region, especially in West Virginia and Virginia, along with spatial analysis experience using ArcGIS and is trained in natural stream channel design techniques.

**Education:**

M.S. Wildlife and Fisheries Resources 2005  
West Virginia University, Division of Forestry, Morgantown, WV

**Thesis:**

The effects of roads and culverts on stream and stream-side salamander communities in eastern West Virginia.

B.S. Wildlife and Fisheries Management (Minor: Biology) 2003  
Texas Tech University, College of Agriculture and Natural Resources, Lubbock, TX

**Experience:**

**Environmental Scientist/Owner**  
**AllStar Ecology, LLC**

**March 2009 to current**

Responsibilities include stream and wetland consulting including stream and wetland delineations, assessments, compensatory mitigation, natural stream design, wildlife management, pond management, construction supervision, and GIS/GPS mapping.

**Owner/Operator**

**April 2007 to current**

**Spring Peeper Farm & Nursery**

Operation of a West Virginia certified nursery for the propagation of native plants for the use in stream and wetland restoration activities.

**Environmental Scientist/President**

**January 2007 to current**

**Mountain State Aquatic Resources, LLC**

Responsibilities include the operation of an environmental consulting company specializing in streams and wetlands including wetland delineations, stream assessments, and compensatory mitigation.





**Ryan L Ward Resume-Continued**

**Environmental Scientist** **October 2005 to February 2009**  
**Virginia Waters and Wetlands Inc., Warrenton, Virginia.**

Responsibilities included wetland delineations, wetland permitting, mitigation planning, developing stream restoration plans using natural stream design principles, construction/mitigation monitoring, storm water pollution prevention plan (SWPPP) preparation and inspections, and GIS mapping.

**Research Assistant** **May 2003 to August 2005**  
**West Virginia University, Morgantown, West Virginia**

Responsibilities included conducting research on the effects of road culverts on stream and streamside salamander populations in the upper Cheat River basin and possible environmental mitigation opportunities for West Virginia Division of Highways. Research included identifying impacts to streams from road culverts and assessing water quality, habitat, and geomorphic stability of sites and mitigation possibilities. Additional tasks involved salamander and fish sampling, surveying culverts and obtaining stream longitudinal profiles, use of geographical information systems (GIS), data entry and statistical analysis, writing technical reports, and writing scientific articles.

**Research Technician** **January 2002 to May 2003**  
**Texas Cooperative Fish and Wildlife Research Unit, Lubbock, Texas**

Work was conducted in the Southern High Plains area of the Texas panhandle. Duties included full day monitoring of black-tailed prairie dog (*Cynomys ludovicianus*) towns and small mammal and herp trapping with Sherman and pitfall traps. Additional duties included work with ArcView (GIS), global positioning systems (GPS), and vegetation identification and measuring.

**Forestry Technician GS-462-4** **May 2001 to August 2001**  
**USDA Forest Service, Carlsbad, New Mexico**

Duties included working with and leading a crew for fire suppression, fuels management, endangered species surveying, removal of exotic species, and equipment maintenance. Work was performed on federal lands under the control of the USDA Forest Service and the US Bureau of Land Management.

**Research Technician** **May 2000 to August 2000**  
**Texas Tech University, Lubbock Texas**

Duties included working with another technician and graduate student conducting research using radio telemetry on Rio Grande turkeys (*Meleagris gallopavo intermedia*) from hand held and vehicular mounted antennas. Additional duties included GPS work, vegetation identification and measuring, and data entry. Work was conducted in the Texas and Oklahoma panhandle on private, state, and federal lands.

**Professional Development:**

West Virginia University Natural Stream Design Short Courses

- Introduction to Stream Functions and Processes—Course 1
- Methods for Stream Assessment and Analysis—Course 2

North Carolina State Stream Restoration Program

- Level III: Advanced Stream Restoration Design Principles

Virginia Responsible Land Disturber (RLD) Certification

WVDEP—Construction Storm Water 101 Workshop

ISA Certified Arborist (MA-4989A)

U.S. Forest Service/Roane-Jackson Technical Center—Wetland Construction Workshop

Wetland Training Institute, Inc—Basic Wetland Delineation Course



**PROPOSAL FOR INVASIVE SPECIES CONTROL  
CAMP DAWSON  
WEST VIRGINIA ARMY NATIONAL GUARD  
PRESTON COUNTY, WV**

**2010**

**Gregory L. Short Jr., A.S.  
—Botanist**



Greg Short, our Botanist, has worked throughout the eastern United States conducting vegetation surveys and threatened & endangered species surveys. Mr. Short has conducted floristic inventories in Ohio, Pennsylvania, Virginia, and West Virginia. Mr. Short has been affiliated with various state and federal agencies conducting threatened & endangered species surveys for plants and mammals throughout Pennsylvania and West Virginia. Mr. Short is also a certified wetland delineator and has experience conducting invasive species surveys. All of Mr. Short's projects include technical report writing skills, extensive GIS & GPS mapping for the location of the species/habitat encountered, and include mitigation/conservation recommendations.

**Education:**

A.S. Natural Resources and Wildlife 2005  
Garrett College of Maryland, McHenry, MD

**Experience:**

**Environmental Scientist/Owner  
AllStar Ecology, LLC**

**March 2009 to current**

Responsibilities include floristic inventories, plant taxonomy, and invasive species identification and eradication strategies. Other tasks include; wetland delineations, land and wildlife management plans, and integrated pest management applications.

**Ecologist/Botanist**

**June 2009 to September 2009**

**USDA Forest Service Research Station, Dunbar, West Virginia**

Lead botanist throughout the state of West Virginia. Skills and abilities including; knowledge of the principles, concepts, and practices of botany, ability to perform data processing, tracking, and editing using word processing and spreadsheet programs, and ability to identify regional vascular plant species – including trees, shrubs, graminoids, ferns, and fern allies – using regional and local comprehensive identification keys. Responsibilities also including, cover estimates for all tree, shrubs, graminoids, ferns, and fern allies occurring on the plots located throughout West Virginia. Botanical skills utilized such as, collecting, labeling, pressing, and identifying unknown specimens. Collecting data with hand held Allegro data collectors with a GPS link for plot locations.

**Environmental Resource Specialist III**

**October 2007 to June 2009**

Principle duties include inventories of Plant Species of Special Concern and wetland delineations. Plant Species of Special Concern are conducted to document the presence of state/federal listed plant species of special concern occurring within projected sites. The surveys attempt to confirm the presence/absence of species of special concern that had been documented in or around the project area in previous years as well as to discover the presence of species of special concern that had not been previously documented. Wetland Delineations are performed to identify "Waters of the United States" within projects that are subject to regulations under the Federal Clean Water Act, U.S. Rivers and Harbors Act of 1899. The procedures described in the United



### **Gregory L Short Jr. Resume-Continued**

States Army Corps of Engineers Wetland Delineation Manual (1987) are used to delineate the wetlands. A written technical report is created to support all documentation for these project types.

Other duties include Hydrologic Flow Assessments and Groundwater Monitoring Surveys. Hydrological Flow Assessments are conducted to determine flow loss of undermined streams in Greene and Washington Counties, PA. Flow monitoring stations were established at designated areas within the study area using topographic mapping and Trimble GeoXT GPS navigation. Flow measurements are acquired using a Marsh-McBirney Model T2000 Responsible for collecting Flow Meter readings and digital photographs at over 200 monitoring stations within survey area. Flow-monitoring stations are monitored on a daily, weekly, and monthly basis. Field mapping and visual observations of geologic outcrops and mining-related anomalies are conducted throughout the length of the monitored streams on a daily basis. Field data is entered and organized into a client accessible web-based GIS data system on a daily basis. Groundwater Monitoring duties and responsibilities consist of the collection of weekly, monthly, and semi-monthly groundwater samples from monitoring wells and piezometers within the mining impact area. Fieldwork includes static water level measurements, calculating water volumes within the wells, collecting aqueous samples for lab analysis, performing field-testing for pH, temperature and specific conductivity, and completing chain-of custody documentation.

#### **Ecologist/Botanist**

**June 2007 to September 2007**

##### **USDA Forest Service Research Station, White Sulpher Springs, West Virginia**

Lead botanist throughout the state of West Virginia. Skills and abilities included knowledge of the principles, concepts, and practices of botany; ability to perform data processing, tracking, and editing using word processing and spreadsheet programs; and ability to identify regional vascular plant species – including trees, shrubs, graminoids, ferns, and fern allies – using regional and local comprehensive identification keys. Responsibilities also included, cover estimates for all tree, shrubs, graminoids, ferns, and fern allies occurring on the plots located throughout West Virginia. Utilizing skills such as collecting, labeling, pressing, and identifying unknown specimens occurred on a day-to-day basis. All data was collected with hand held Allegro data collectors with a GPS link for plot locations.

#### **Field Botanist/Biological Technician**

**June 2006 to October 2006**

##### **USDA Forest Service Research Station, Morgantown, West Virginia**

Duties included gathering understory data on herbs, shrubs, vines and trees throughout districts of National Forest in West Virginia and Ohio, with additional study locations in Moshannon State Forests in Pennsylvania, and Coopers Rock State Forest in West Virginia. Ecological surveys were conducted to measure cover, frequency, and density of understory vegetation. Complete species list of the study areas were compiled using a walkthrough method. Herbarium skills such as collecting, pressing, identifying, mounting/labeling plant specimens, and entering data were used frequently.

Other duties included conducting botanical surveys for Threatened & Endangered Species and Non-Native Invasive Species TES/NNIS throughout Monongahela National Forest. A complete species list of the study areas was compiled using a timed-meandering method. Areas of specific habitat for TES species were predicted by using aerial photography signatures and NRCS soil maps. Adequate survey coverage was performed throughout the entire survey area with high focus in areas with suspected habitat for TES/NNIS populations. Populations of TES/NNIS were tracked and mapped throughout the project.



**Gregory L Short Jr. Resume-Continued**

**Ecology Project Assistant**

**June 2005 to June 2006**

**West Virginia Natural Heritage Program WVDNR, Elkins, West Virginia**

Duties included surveying populations of rare plants and animals tracked by WV Natural Heritage Program when encountered within the project areas or within suspected areas of habitat. Various plant species were monitored along with the northern flying squirrel (*Glaucomys sabrinus*), Virginia big-eared bat (*Plecotus townsendii virginianus*), and the Indiana bat (*Myotis sodalis*). Location coordinates were collected along with habitat and population descriptions. Data collected was then entered into the West Virginia Natural Heritage BIOTICS database. Other duties included conducting the floristic inventory of the National Bluestone Scenic River and helping gain research information for the West Virginia High Elevation Wetland Community Classification Project. Data was collected as part of a 2-person crew. Standard methods include collecting location coordinates with a GPS, identifying and estimating cover of all vascular plant species, digging soil pits, collecting soil samples and specimens of unknown plant species (including nonvascular plants), measuring environmental variables, and describing environmental conditions and landscape context.

**Invasive Species Technician**

**May 2004 to August 2004**

**West Virginia Division of Natural Resources, Kingwood, West Virginia**

Duties included Identifying invasive flora species throughout the WVANG properties. After evaluation of invasive species, mechanical/chemical applications were applied to eradicate problem species. Herbicide was applied through various techniques including the hack and squirt method, backpack sprayers, ATV mounted sprayers, and farm tractor attachments. Other duties included integrating land management and wildlife habitat management to create sustainable training grounds for the West Virginia Army National Guard (WVANG).

**Biological Science Technician**

**May 2003 to August 2003**

**West Virginia Division of Natural Resources, Kingwood, West Virginia**

Duties included quality land management initiatives focusing mainly on integrating warm season grass planting with wildlife management. Preparation of planting grounds included clearing of all trees, shrubs, rocks, and any other debris found within the project areas. After clearing land various herbicide applications were applied to prevent cold season grass and noxious weed growth. After evaluation of herbicide application(s) the fields were planted with conservation efforts for Best Management Practices (BMP) to prevent soil erosion and hydro-alteration due to man. BMP's were conducted by mulching, contour planting, sand planting warm season grasses with a no-till drill. Other duties included operating and maintaining heavy machinery, 4-wheel drives, and ATV's on a daily basis. Operating ATV's for Canada goose control within the National Guard Base, where the Canada goose is considered a nuisance animal. Using integrated measurements to prevent goose occurrence such as loud speakers set-up with goose distress calls, trained Australian Sheppard to herd geese, and multiple harassment techniques.

**Professional Development:**

USDA Forest Service Northern Research Station, Completion of vegetation specialist certification

Richard Chinn's 40 Hour Wetland Delineation Certification

PADI Advanced Scuba Diver Certification

Pennsylvania Threatened & Endangered (T&E) Species Collection Permit

Recognized botanist to conduct T&E Species by the US Fish & Wildlife, West Virginia DNR, and Pennsylvania DCNR