



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

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

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

 KINGWOOD, WV
 26537-1077 304-329-4417

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
04/01/2010				

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		
<p>HERBICIDE/PESTICIDE APPLICATION SERVICES</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	TELEPHONE	DATE
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GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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 Department of Administration
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 Charleston, WV 25305-0130

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KINGWOOD

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

KINGWOOD, WV
 26537-1077 304-329-4417

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BID MAY BE DISQUALIFIED AND NOT CONSIDERED FOR AWARD.

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.

NOTICE

A SIGNED BID MUST BE SUBMITTED TO:

DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 BUILDING 15
 2019 WASHINGTON STREET, EAST
 CHARLESTON, WV 25305-0130

THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:

SEALED BID

BUYER: 32
 RFQ. NO.: DEFK10016
 BID OPENING DATE: 04/22/2010
 BID OPENING TIME: 1:30 PM

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:

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CONTACT PERSON (PLEASE PRINT CLEARLY):						

***** THIS IS THE END OF RFQ DEFK10016 ***** TOTAL: _____						

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CONTRACTOR

SCOPE OF WORK

FOR
INVASIVE SPECIES CONTROL PLAN FOR VOLKSTONE,
CAMP DAWSON, PRINGLE, AND
BRIERY TRACTS

APPLICATION OF HERBICIDE
TO ERADICATE INVASIVE PLANTS

In Support of
THE INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN
At The
CAMP DAWSON ARMY TRAINING SITE
Preston County
Kingwood, West Virginia 26537

CONTRACT NUMBER DEFK100016

Prepared by:
Camp Dawson Army Training Site
Environmental Office
West Virginia Army National Guard
Camp Dawson, 1001 Army Road
Kingwood, West Virginia 26537

January 2010

1.0 INTRODUCTION

The Camp Dawson Environmental Office (CDEO) is responsible for managing the forest land and old fields at the West Virginia Army National Guard (WVARNG) Camp Dawson Army Training Site. The CDEO is responsible for the development and execution of all forest related activities including invasive species eradication. According to the Camp Dawson Forest Management Plan, and the Invasive Plant Inventory, Assessment and Management Plan, the Volkstone Tract and the Camp Dawson Tract forest stands contain an unacceptable amount of woody and herbaceous invasive plant species. An Invasive Species Eradication Plan (ISEP) was developed and treatment was started in 2004. The ISEP is updated and modified each year according to management goals. Camp Dawson Army Training Site consists of four noncontiguous tracts of land; Volkstone, Camp Dawson, Pringle, and Briery Tract. The Volkstone Tract is located 1 mile east of Kingwood, West Virginia, from route 7, turn south on route 72, the tract is parallel to route 72 (tract located mostly west and east of route 72) from route 7 to Morgan Run. The majority of the tract is forested. The Camp Dawson Tract is located 1.5 miles east of Kingwood, West Virginia, from route 7, turn south on Army Road, the tract is around the Camp Dawson facilities, with the area targeted for treatment in 2010 being on the hillside east of the Camp Dawson facilities. The Pringle Tract is located approximately 2.5 miles south of the Volkstone Tract on route 72 and is comprised of mostly reclaimed strip mine land. Briery Tract is located five miles southeast of Camp Dawson. Starting at the Cheat River Bridge, follow Route 7 East for ¼ mile, turn right and follow Beatty Church Road (CR 7/13) for 5.0 miles to Briery Tract.

2.0 PROJECT DESCRIPTION

The WVARNG is implementing a long-term eradication program aimed towards eradicating most invasive plant species on the Volkstone Tract, Camp Dawson Tract, Pringle Tract, and Briery Tract (new for 2010).

The list of invasive species is found in the ISEP attached to this Scope of Work.

The project goal is to eradicate most invasive plant species on the Volkstone Tract, Camp Dawson Tract, Pringle Tract, and Brier Tract by herbicide application. The

project will concentrate on the most dominant invasive exotic woody plants, which include tree-of-heaven, multiflora rose, autumn olive, Japanese barberry, oriental bittersweet, privet, burning bush, as well as certain herbaceous plants, including Japanese knotweed and Japanese stiltgrass. A list of the invasive exotic plants to be targeted and an estimate of their population is included in the attached ISEP. The herbicide types, method of application, and the appropriate time to apply herbicide are also outlined in the attached ISEP. In order to facilitate the control work, access trails will be open and cleared by Camp Dawson Environmental Office.

The project area contains 388 acres (more or less). The method of eradication will be the application of herbicide. The herbicide application work will begin May 3, 2010, and end on or before September 27, 2010. A more complete description of the project, including objectives, site description, and methods of application, herbicides, timeline, and other information is provided in the attached ISEP.

3.0 TASK DEFINITION

The contractor shall perform the following tasks.

TASK 1. Meet with Camp Dawson Environmental Office personnel once the contract has been awarded, to review strategy, methodology, and scheduling fieldwork activities on the Invasive Species Eradication Plan (ISEP) for all Camp Dawson Tracts.

TASK 2. Upon commencement of fieldwork, jointly with, the Camp Dawson Environmental Office, provide training on work techniques and precautions to any workers involved with the project.

TASK 3. Carry out herbicide treatments as described in the ISEP.

TASK 4. Contractor is to complete and provide to Camp Dawson Environmental Office a daily record of pesticide application, including products, amounts, approximate acres, weather conditions, and other pertinent information. The Contractor is also to enter this information into the Weed Information Management System (WIMS) database as outlined in the ISEP.

TASK 5. At the conclusion of fieldwork, the contractor will meet with the Camp Dawson Environmental Office for project debriefing.

4.0 WVARNG FURNISHED INFORMATION AND MATERIAL

The WVARNG will provide:

- a. Aerial photography maps with the boundary lines (all boundary lines and corners were updated and marked with blue paint and signage during 2003 for the Volkstone, Camp Dawson, and Briery Tracts). Maps will also be provided that show the location and types of access trails.

The WVARNG will also provide assistance to the contractor in working with the Camp Dawson Facilities, Security, Engineering, Range Control, and Operations to gain access to any restricted parts of the Volkstone, Camp Dawson, Pringle and Briery Tract .

- b. Herbicides and surfactants will be provided by WVARNG and stored at Camp Dawson, and will be made available to the contractor as needed. Any unused materials remain the property of WVARNG.

5.0 MEETINGS AND REVIEWS

Prior to initiation of work the Camp Dawson Environmental Office personnel shall meet with the contractor to coordinate the eradication plan.

At the conclusion of fieldwork the contractor will meet with the Camp Dawson Environmental Office for project debriefing.

6.0 CONTRACTOR REQUIREMENTS

- 1. Upon submission of bid, vendor must comply with the following requirements and provide evidence to WVARNG:**
 - Contractor shall have 3 years prior experience in pesticide application for timber stand improvement or similar uses.
 - Contractor shall possess, or employ a person who possesses, certification as a West Virginia Commercial Certified Pesticide Applicator in Category 3 (Forest Pest Control) or Category 13C (Hardwood Tree Release) .
- 2. Prior to commencement of work, vendor must comply with the following requirements and provide evidence to WVARNG:**
 - Contractor shall be a West Virginia Licensed Vendor. Information on Vendor Registration can be obtained from WV Purchasing Division, Vendor Registration,

State Capitol Complex, 2019 Washington Street East, PO Box 50130,
Charleston, WV 25305-0130, phone 304-558-2306, and is available online at
www.state.wv.us/admin/purchase.

- Contractor shall provide a certificate of insurance (\$1,000,000.00-General Liability).
- Contractor shall register with the West Virginia Division of Purchasing. Information on registering in West Virginia can be obtained from the West Virginia Division of Purchasing, 2019 Washington Street East, PO Box 50130, Charleston, WV 25305-0130, phone 304-558-2311.
- Contractor shall be a West Virginia Licensed Pesticide Application Business, and possess, or employ a person who possesses, certification as a West Virginia Certified Pesticide Applicator in Category 3 (Forest Pest Control) or Category 13C (hardwood tree release). A West Virginia Certified Applicator, either contractor or person employed by contractor, is to perform or supervise all pesticide application activities, and is to be present on the work site or in contact with workers on site and be within a 1 hour response time of the site while pesticide mixing or application work is in progress. Any pesticide mixing or application not performed by a Certified Applicator is to be performed by a Registered Technician operating under the supervision of a Certified Applicator, or by an employee pending training as a Registered Technician working under the supervision of a Certified Applicator present at the time and place of application.
- Information on Pesticide Business and Certification can be obtained from WV Department of Agriculture, Pesticide Regulatory Programs, 1900 Kanawha Blvd.,

Charleston, WV 25305-0190, phone 304-558-2209, and is available online at www.kellysolutions.com/wv.

It is the contractor's responsibility to conduct all field activities in a manner that ensures the safety of the general public and field crewmembers and avoids damage to vehicles and property of the WVARNG.

7.0 PERIOD OF SERVICE

All work under this contract shall be conducted and completed during the period from May 3 to September 27, 2010.

8.0 POINTS OF CONTACT

Questions regarding this advertisement during the time of bid are to be addressed to the State Buyer in charge of this Request for Quotation. Absolutely no contact should be made between vendors and the agency at the time between public advertisement and the scheduled bid opening.

Purchasing Division contact for this RFQ:

**Chuck Bowman
Buyer Supervisor
Department of Administration
Purchasing Division
Acquisitions Unit
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305**

**304.558.2157 (phone)
304.558.4115 (fax)
Charles.a.bowmanjr@wv.gov**

9.0 PAYMENT INFORMATION AND DELIVERABLE SCHEDULE

There shall be two equal payments allowed under this scope of work. The first payment will be available for issue upon satisfactory completion of the follow-up treatments in the Volkstone and Pringle Tracts by June 2010 per the schedule in the ISEP. The second payment will be available upon satisfactory completion of the remainder of the herbicide application and fulfillment of any other responsibilities of the contractor. The contractor will request payment by submitting detailed invoices, *in quintuplicate*, to HQ WVARNG, ATTN: WVAR-F-EP, 1703 Coonskin Drive, Charleston, WV 25311-1085

DELIVERABLES	DATE	PAYMENT SCHEDULE
Project Start Date	May 3, 2010	
Daily Pesticide Application Records	Provided weekly or upon request	
Completion of follow-up treatments on the Volkstone and Pringle Tracts	No later than June 30, 2010	50%
Completion of all treatments as per ISEP	No later than September 20, 2010	
Completion of Project	No later than September 27, 2010	50%

- Upon completion of the project, all non-expended field supplies that were purchased with funds provided by Camp Dawson Army Training Site (CDATS) will become the sole property of the CDATS.

Prepared By: Camp Dawson Army Training Site Environmental Office

Invasive Species Eradication Plan

**Volkstone, Camp Dawson, Pringle, and Briery Tracts
Camp Dawson Army Training Site
West Virginia Army National Guard
1001 Army Road
Kingwood, WV 26537**

In

Preston County, WV

On

388 acres woodland/old field

Prepared By

**Camp Dawson Army Training Site
Environmental Office
1001 Army Road
Kingwood, WV 26537
304-791-4130**

January 2010

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GOAL

To reduce the proliferation and dominance of invasive plant species to allow the preservation and restoration of native forest vegetation of greater ecological and economic value.

Objective

Through herbicide application, greatly reduce or eliminate invasive plant species from the Volkstone, Camp Dawson, Pringle, and Briery Tracts.

Background

This plan is to provide information on specific control activities recommended for control of invasive species on the Volkstone, Camp Dawson, Pringle, and Briery Tracts in 2010.

In 2004 a major effort was undertaken in portions of the Volkstone Tract to control, by herbicide injection and basal bark treatment, the tree-of-heaven (*Ailanthus altissima*) that had become established on the tract. Follow-up treatments were applied in subsequent years to complete the eradication of tree-of-heaven and control other invasive species in these same stands and additional areas on the Volkstone and Camp Dawson Tracts. The Pringle Tract was first treated in 2009, and Briery Tract will be treated for the first time in 2010.

Invasive species generally display several or all of the following characteristics:

- Rapid growth and establishment
- Produce prolific numbers of seed
- Reproduce aggressively by vegetative reproduction
- Long flowering and fruiting period
- Tolerate a wide range of environmental conditions, especially disturbed soils

Strategy

1. Control of certain invasive plants in Dawson Stand D2a, and follow up on previously treated Dawson Stand D2b. (185 acres)
2. Control of certain invasive plants in areas previously treated, including portions of Volkstone Stands: V 2, 5, 6a, 8, 11, 12 (V6a initial treatment for 2010). (145 acres)
3. Follow-up treatment of invasive plants within 50 ft on each side of the primary gravel road network on the Pringle tract. (50 acres)
4. Control of certain invasive species on Briery Tract field edges. (8 acres)

The Target Species

The invasive exotic plants that are targeted for control in 2010, in order of frequency:

Multiflora Rose, *Rosa multiflora*

Japanese Knotweed, *Polygonum cuspidatum*

Autumn Olive, *Elaeagnus umbellata*

Japanese Stilt grass, *Microstegium vimineum*

Tree-of-Heaven, *Ailanthus altissima*

Oriental bittersweet, *Celastrus orbiculatus*

Bush honeysuckle, *Lonicera morrowii*

Japanese Barberry, *Berberis thunbergii*

Winged Burning Bush, *Euonymus alata*

European Privet, *Ligustrum vulgare*

Wintercreeper Euonymus, *Euonymus fortunei*

Japanese Spirea, *Spirea japonica*

Japanese Honeysuckle, *Lonicera japonica*

English Ivy, *Hedera helix*

Mile-a-Minute, *Polygonum perfoliatum*

Giant Knotweed *Fallopia sachalinensis*

A complete list of invasive exotic plants known to be present that are not targeted for control (but may be treated at the discretion of the Contractor), is included in Appendix B.

Terrain

The portion of the Volkstone Tract that is on the uphill side of Rt. 72, and Dawson Tract Stand 2, is steep and rocky and is crossed by several small stream valleys. The slope ranges from nearly level in some sections to over 100% slope (45 degrees) in other areas. The parts of the Volkstone and Camp Dawson tracts near the Cheat River are generally less steep, but include short sections of steep slopes in gullies, road banks and riverbanks. Some areas have numerous small boulders on the surface, and some areas have a good deal of multiflora rose or blackberry in the understory, making walking difficult. Pringle Tract treatment areas follow the road system on the property. The majority of the terrain is moderately sloped. The Briery Tract field edges are moderately sloped (less than 15 percent slope).

Access

Many old logging and mining roads have been opened up for access to the Volkstone Tract. There is vehicular access along the entire Volkstone tract along Rt. 72 at the bottom of the hill. The former railroad right-of-way is open and passable by motor vehicles. Most areas to be treated on the Dawson Tract are accessible by roads or trails. Access to the Dawson Tract is limited due to the perimeter fence. Contact Post Engineering (304-791-4478) and/or Camp Dawson Environmental Office (304-791-4130) on questions for access. Main access to the Pringle Tract (treatment area is along the roads) is via the South Pringle Road from WV Route 72 (see map Appendix E). Main access to Briery Tract is 5.0 miles southeast of Camp Dawson; follow Beatty Church Road (CR 7/13) (southeast for 5.0 miles, from State route 7.

Live Firing Range

There is an active firing range adjacent to stands D2a and D2b. Prior to working in these stands the contractor should notify the Camp Dawson Environmental Office (304-791-4130) and/or Camp Dawson Range Control (304-791-4386/4425). When the range is hot or active, a red range flag is flown at the ranges and at the Access Control Point (guard station).

Work Site Coordination

Contractor will contact the Camp Dawson Environmental Office weekly to avoid military training conflicts and to gain access to the Army Training Site.

Location and Extent of Target Species on the Volkstone, Camp Dawson, Pringle, and Briery Tracts

The area covered under this plan for 2010 is about 388 acres in size. Two new areas are to be treated this year—Volkstone Tract Stand V6a (10 acres) and Briery Tract (8 acres). Previously treated areas that are to be re-treated include V5, V8, V11, and V12 of the Volkstone Stands (65 total acres). Volkstone Stand V2 (40 acres) will start to receive Timber Stand Improvement (TSI) techniques such as grapevine removal and crop tree release. TSI work will follow the guidelines of the United States Forest Service (USFS) manual. The majority of trees eliminated from the stand will be treated with herbicide by basal bark application. Dawson Tract Stands include D2a and D2b (185 acres). Pringle Tract will receive a follow up treatment (50 acres). Briery Tract will receive an initial treatment of field edges (8 acres).

Further information on these species is included in Appendix B.

In the previously-treated Stands some plants were missed and there is some new growth from seed of the target plant species, there is expected to be some re-growth of the Japanese Knotweed and a small but unknown amount of tree-of-heaven re-growth from basal sprouts and root suckers, and some multiflora rose and autumn olive re-sprouting from the base. There is no good way to measure or estimate this new growth or re-growth at this time. It is felt that the previous treatments were very effective, and the amount of new growth or regrowth to be treated is much less than before.

Location and Extent of Target Species on Pringle Tract Gravel Road Network

The dominant target species on this tract include; giant knotweed, autumn olive, and multiflora rose. The target area to be treated is South Pringle Road from Route 72 to the intersection with North Pringle Road. The initial treatment for this area was applied in 2009. All target species within 50 ft. of each side of the road are to receive a **follow-up treatment for 2010**. Total treatment area is approximately 50 acres along the 5 miles of road. Refer to map Pringle Tract Gravel Road Network map in Appendix E.

Control Recommendations

Research and experience have shown the impracticality of manual or mechanical cutting. Ailanthus re-sprouts and root suckers extensively and with great vigor. The target shrub and vine species would also re-sprout after cutting. The only practical control in the circumstances found here is the judicious use of chemical herbicides. All herbicide applications should be made according to label requirements under the supervision of a certified pesticide applicator (either contractor or contractor's employee).

The herbicide products to be used in 2010 are, in approximate order of area treated:

Garlon 3A – triclopyr (amine)
 Escort XP – metsulfuron methyl
 Accord Concentrate – glyphosate
 Pathfinder II – triclopyr (ester)
 Vantage – sethoxydim
 Habitat - imazapyr

Garlon 3A mixed with Escort XP will be the herbicide solution applied for general purposes on most of the new treatment area. This combination has been shown to be particularly effective on tree-of-heaven, multiflora rose, autumn olive, oriental bittersweet, and Japanese barberry, and is somewhat effective on Japanese knotweed and most other woody plants. Accord or Accord-Habitat mix will be used in some areas for Japanese knotweed and for treatment of other species in the same Stands that are being treated for knotweed. Vantage will be used for control of Japanese stiltgrass. Since Escort may not be used where it is likely to enter the water, Japanese knotweed growing directly on the stream banks or riverbank should be treated with either Accord Concentrate or Habitat. Pathfinder II is a pre-mixed product that is used for basal bark treatment of taller trees and shrubs.

These products are intended to move through the plant, including the root system, to kill the plant and control root suckering. Escort, Accord, Vantage, Habitat and Pathfinder II have a “Caution” signal word, an indication of very low toxicity. Garlon 3A has a “Danger” signal word, indicating higher toxicity, and Garlon is an eye irritant that can cause irreversible damage, so PPE, including protective eyewear and gloves is especially important. Detailed information is provided in the product label and material safety data sheet (MSDS). A high-quality non-ionic surfactant such as ChemSurf 90, Clean Cut, or Methylated Seed Oil should be added to the spray mix to improve dispersion, adhesion and penetration. Accurate measurement and very thorough mixing will be needed due to the tiny but potent amounts of Escort XP used, and the need to get and keep the Escort XP in suspension.

Post-treatment effects of foliage deformation and necrosis should be visible within four days of application for the Garlon mixtures, within ten days of application for the Accord mixtures, and within 20 days of application for Vantage or Habitat mixtures.

Conventional Volume “Spray to Wet” Foliar

The method of invasive exotic plant control to be used on the most accessible and heavily infested parts of the tract is a high-volume foliar spray. The volume rate used here should be approximately 50 gallons of solution per sprayed acre, but will vary considerably depending on target plant height and density. The foliage of all target plants up to 12 feet in height should be thoroughly wet, but not to the point of runoff. The application may be made using vehicle-mounted sprayer, ATV-mounted sprayer, or backpack sprayer. This method has the advantage of being able to quickly treat taller stems and larger areas that are dominated by undesirable plants. The foliar treatment must be made when the foliage is dry, and should not be applied when significant rainfall is expected within two hours.

The rate of herbicide application in this method should be on a "spray to wet" basis. The foliage and twigs of the target plants should be thoroughly wet, but not dripping off. The primary spray solution should be made up of 1 ounce (by weight) of Escort XP herbicide, 1.5 gallons of Garlon 3A herbicide, and 2 quarts of Clean Cut surfactant in enough water to make 100 gallons. Re-stated in another manner the primary mix is 1 oz. (by weight) of Escort XP per 100 gallons, 1.5% Garlon 3A, and 0.5% Clean Cut. A dye such as Hi-Light or Bullseye may be added. For stiltgrass control use Vantage at 1.5%. For treatment of knotweed areas the first or second year, use Accord Concentrate at 1%. For treatment of previously treated areas the mix used will be 1% Accord Concentrate and 0.5% Habitat.

Basal Bark Application

The third, and much less extensive, method of controlling tall tree-of-heaven, autumn olive, privet, multiflora rose, and climbing oriental bittersweet vines, to be used on this property will be basal bark application of herbicide onto the individual stems of the target plants. This method would be used on any plants that are too tall to be foliar treated.

The application should be done using a backpack sprayer and a narrow-angle even flat fan nozzle such as a 40.02E nozzle or an adjustable cone nozzle such as a Y3 tip. On shrubs and vines the spray treatment should be 12-24 inches in height from the ground line, depending on stem size, and on tree-of-heaven the treatment should be at a height of the diameter plus 10, expressed in inches.

The product to be used for basal bark treatment is Pathfinder II herbicide, a pre-mixed ready-to-use combination of triclopyr (ester) and an oil carrier.

The basal bark application may be made regardless of weather conditions or expected rainfall as long as the bark is not wet at the time of treatment. The basal bark treatment should be applied during the time period of May 1 to September 1.

Materials, Tools, and Equipment

Herbicide, surfactant, and dye will be purchased by WVARNG, stored in a secure location at the nearby Camp Dawson site, and made available to the contractor as needed. Any unused products will remain the property of WVARNG. Empty containers would be returned to the Camp Dawson pesticide storage site.

Project Management

The contractor is to cooperate and coordinate activities with Camp Dawson Environmental Office (CDEO), and provide information as needed.

Work Procedure and Scheduling for 2010

Work to be Performed – by Stand

Follow-up and initial treatments to include all invasive species. Maps are included in Appendices D-G

Volkstone Tract

V2 – Crop Tree Release and Grapevine Removal, May-June

V5 – Follow-up treatment, May-June (Garlon 3A + Escort), Knotweed, July/August (Habitat + Accord) and spray Stiltgrass along river, July/August (Vantage)

V6a – Initial treatment, July-August (Garlon 3A + Escort) and Tree-of-Heaven, July/August (Pathfinder II)

V8 – Follow-up treatment, July-August (Garlon 3A + Escort)

V11 – Knotweed, June -September (Habitat + Accord) and Stiltgrass, July/August (Vantage)

V12 – Follow-up for Knotweed, August (Accord) and Stiltgrass, July/August (Vantage)

Camp Dawson Tract

D2a – Stiltgrass, July-August (Vantage) and Mile-a-Minute, July-August (Accord)

D2b – Follow-up treatment, July-August (Garlon 3A + Escort) and Stiltgrass, July-August (Vantage)

Pringle Tract

PT-R, Pringle Tract gravel road network (five miles) 50ft on both sides of the road, 50 acres total. Basal Bark treatment of woody invasive plants, May (Pathfinder II), Giant Knotweed, June-July (Accord 1%) and follow-up treatment of all remaining invasive plants, June-July (Garlon 3a + Escort)

Briery Tract

Calvert Fields: **C1,C2,C3** – Treat all invasive species around field edges, July-September (Garlon 3A + Escort)

Bomar LZ: **B1** – Treat all invasive species around field edges, July-September (Garlon 3A + Escort)

West Bivouac Site: **WBS** – Treat all invasive species and common greenbrier (*smilax spp.*) July-September

Work to be Performed – Schedule for 2010

1. May—V2 grapevine removal and crop tree release
2. May—Pringle Tract basal bark treatment
3. June/July—Pringle Tract follow up treatment
4. June/September—V11
5. July/August—V5, V6a, V8, V11, V12 follow up knotweed and stilt grass
6. July/August—Camp Dawson D2a, D2b
7. July/September—Briery Tract

Field Data Requirements

Contractor is to complete and provide to Camp Dawson Environmental Office a daily record of pesticide application, including products, amounts, approximate acres, weather conditions, and other pertinent information. The Contractor is also to enter this information into the Weed Information Management System (WIMS) database.

This database is available for free from The Nature Conservancy (TNC) website - <http://www.imapinvasives.org/GIST/WIMS/index.html> - and should be downloaded by the contractor for data entry. It is recommended that data be entered into the WIMS database on a daily basis.

The contractor will provide completed WIMS data to Camp Dawson Environmental Office (CDEO) on a weekly basis so it can be entered into the WVARNG WIMS database. Camp Dawson Environmental Office will provide equipment and training if needed.

Worker Safety

All practical measures should be taken to provide for the safety of those engaged in the work on this project. Potential hazards include scratches, falls, sprains, insect bites, snakebites, chemical exposure, cuts, heat exhaustion and dehydration.

Workers must be trained in safe pesticide handling and work procedures. Workers should wear shoes or boots with good traction, long pants and long-sleeved shirts. Protective eyeglasses, non-latex rubber gloves and other personal protective equipment (PPE) will be required for mixing and spray application. Drinking and washing water and first-aid supplies must be readily available. The supervisor and other key persons must be aware of emergency procedures, emergency medical response and transport, hospital location, etc. Any significant personal injury accidents should be reported to the Project Manager, as well as other agencies as required.

Environment and Human Health

The products recommended in this plan have been approved by the U.S. Environmental Protection Agency, and are determined to be safe for the environment, public health and the health of the applicators when used as directed. All application is to be made in full accordance with the product label, by trained persons under the direct supervision of a certified pesticide applicator. No trash is to be left on site, but must be packed out and disposed of properly. Any chemical spills or other incidents are to be reported to the Project Manager, as well as other agencies as required.

Appendix A Daily Pesticide Application Record

Business Name: _____

Certified Pesticide Applicator: _____ WV Cert. #: _____

Applied By (Applicator or Crew Leader): _____

Date: _____ Day of Week (circle) – Mon, Tues, Wed, Thurs, Fri, Sat, Sun

Location - Camp Dawson Army Training Site, just South of Rt. 7, Kingwood WV.
Owner – WV Army National Guard, Camp Dawson, 240 Army Road, Kingwood, WV 26537.

Section or Stand Number or Identifier: _____

Pests Treated – Multiflora Rose, Japanese Knotweed, Autumn Olive, Tree-of-Heaven, and other invasive exotic plants.

Method of Application – (circle one or both) Foliar Spray, Basal Bark Spray

Herbicides Used (check all that apply):

- Garlon 3A (EPA Reg. # 62719-37) 1.5%.
- Escort XP (EPA Reg. # 352-439) 1 oz. /100 gal.
- Accord Concentrate (EPA Reg. # 62719-324) 1%
- Habitat (EPA Reg. #24-426) 0.5%
- Vantage (EPA Reg. # 7969-88-51036) 1.5%
- Pathfinder II (EPA Reg. # 62719-176) pre-mixed, ready to use (13.6% triclopyr)
- Other: _____

Amount of Spray Volume Used: _____

Amount of Herbicide Product Used:

Product _____	Amount _____	Product _____	Amount _____
Product _____	Amount _____	Product _____	Amount _____
Product _____	Amount _____	Product _____	Amount _____

Approximate Acres Treated: _____

Time Started: _____

Time Ended: _____

Weather

<u>Time</u>	<u>Temp F</u>	<u>Wind Speed</u>	<u>Direction</u>	<u>Atmospheric (circle)</u>
_____	_____	_____	_____	Sun, PtlyCldy, Cldy, Rain
_____	_____	_____	_____	Sun, PtlyCldy, Cldy, Rain
_____	_____	_____	_____	Sun, PtlyCldy, Cldy, Rain

Comments: _____

Completed By: _____

Appendix B

Invasive Alien Plants on Volkstone and Camp Dawson Tracts

Species in Bold font are of high or moderate priority, and will be targeted in 2010.

<u>Species Name</u>	<u>Common Name</u>	<u>Also Known As</u>	<u>Type of Plant</u>	<u>Occurrence Rating on Site</u>	<u>Priority Rating</u>
Ailanthus altissima	Tree-of-Heaven	Ailanthus	tree	Low	high
Allaria petiolata	Garlic Mustard	Poor Man's Mustard	annual broadleaf	High	low
Artemisia vulgaris	Mugwort	Felon Herb	perennial broadleaf	Moderate	low
Berberis thunbergii	Japanese Barberry	Thunberg's Barberry	shrub	Low	high
Carduus acanthoides	Plumeless Thistle	Spiny Plumeless Thistle	biennial broadleaf	Low	low
Carduus nutans	Musk Thistle	Nodding Thistle	biennial broadleaf	Low	low
Celastrus orbiculatus	Oriental Bittersweet	Asiatic Bittersweet	perennial vine	Low	high
Centaurea maculosa	Spotted Knapweed	(C. biebersteinii?)	annual broadleaf	Low	low
Cirsium arvense	Canada Thistle	Creeping Thistle	perennial broadleaf	Low	low
Cirsium vulgare	Bull Thistle	Roadside Thistle	biennial broadleaf	Low	low
Commelina communis	Asiatic Dayflower	Yazhicao or Duckfoot herb	annual broadleaf	Low	low
Elaeagnus umbellata	Autumn Olive	Japanese Silverberry	shrub	Moderate	high
Euonymus alata	Winged Burning Bush	Winged Euonymus	shrub	Low	high
Euonymus fortunei	Winter Creeper Euonymus	Creeping/Climbing Euonymus	perennial vine	Low	high
Glechoma hederacea	Ground Ivy	Gill-over-the ground	perennial vine	High	low
Hedera helix	English Ivy	Common Ivy	perennial vine	Low	high
Hemerocallis fulva	Daylily	Common Daylily	perennial broadleaf	Low	low
Ligustrum spp.	Privet	European Privet	shrub	Moderate	high
Lonicera japonica	Japanese Honeysuckle	Winter Enduring Vine	perennial vine	Low	high
Lonicera spp.	Bush Honeysuckles	L. maackii, morrowii, tartarica	shrub	Low	high
Microstegium vimineum	Japanese Stiltgrass	Nepalese Browntop	annual grass	Low	high
Perilla frutescens	Beefsteak Plant	Perilla, Chiso	annual broadleaf	Low	low
Phalaris arundinacea	Reed Canary Grass	Ribbon Grass	perennial grass	Low	low
Polygonum cuspidatum	Japanese Knotweed	Mexican bamboo, Fallopiia jap.	perennial broadleaf	Moderate	high
Rosa multiflora	Multiflora Rose	Rambler Rose	shrub	High	high
Rubus phoenicolasius	Wineberry	Japanese wineberry	shrub	Low	low
Spirea japonica	Japanese Spirea	Alien Invader	shrub	Low	high
Urtica dioica	Stinging Nettle	Do Not Touch Plant	Perennial broadleaf	Low	low
Vinca minor	Periwinkle	Common Periwinkle	perennial vine	Low	low

Volkstone Stands Treatment Acreage for 2010

<i>Stand ID</i>	<i>Acres-1</i>	<i>Hectares-1</i>
V2	40	16
V5	23	9
V6a	10	4
V8	16	6
V11	51	21
V12	5	2
Total	145	58

Camp Dawson Stands Treatment Acreage for 2010

<i>Stand ID</i>	<i>Acres-1</i>	<i>Hectares-1</i>
D2a	66	27
D2b	119	48
Total	185	75

Pringle Tract Gravel Road Network Area for 2010

<i>Stand ID</i>	<i>Acres-1</i>	<i>Hectares-1</i>
PT-R	50	20
Total	50	20

Briery Tract Treatment Units Acreage for 2010

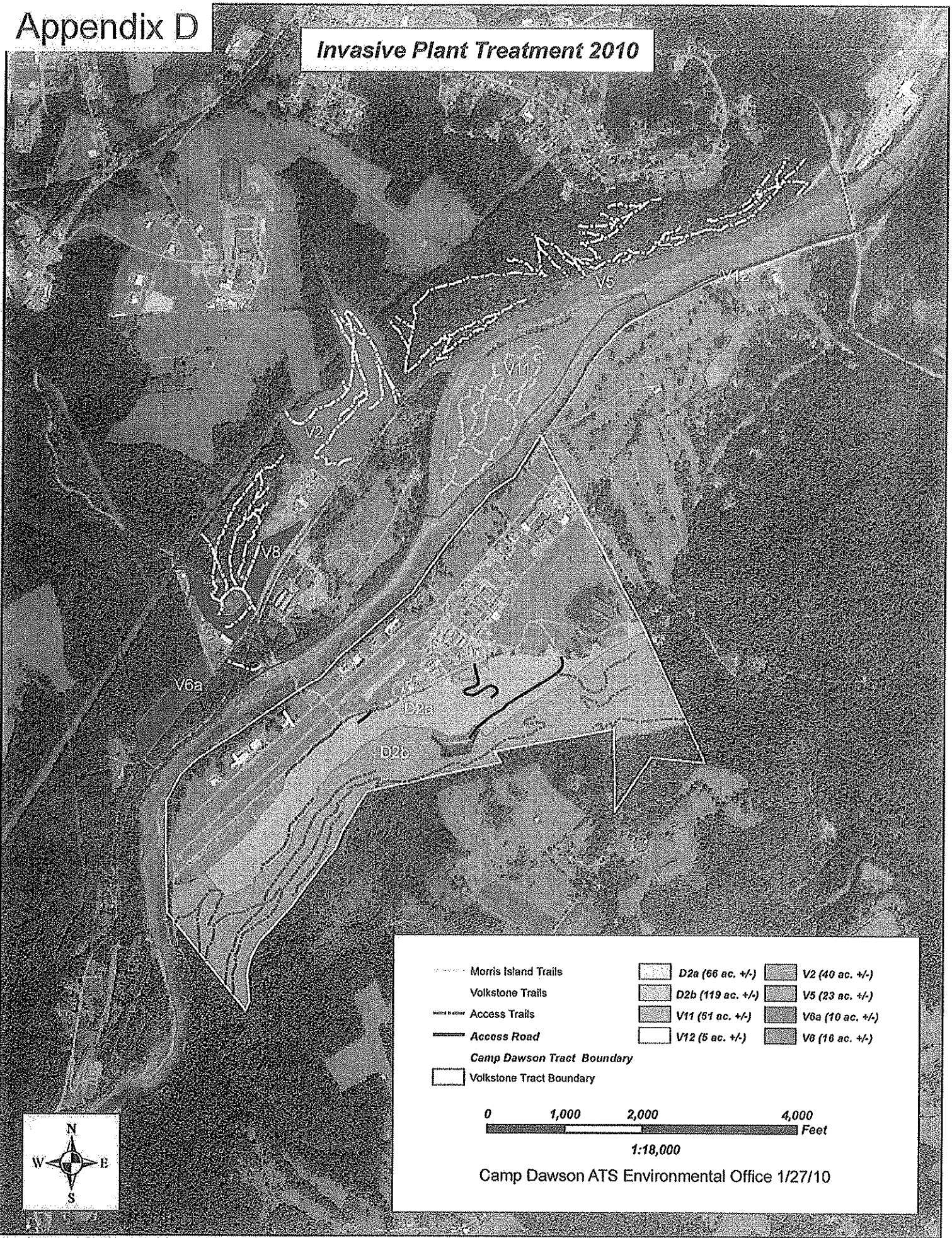
<i>Stand ID</i>	<i>Acres-1</i>	<i>Hectares-1</i>
C1	1.0	0.4
C2	0.8	0.33
C3	1.7	0.7
Bomar LZ	4.0	1.6
W. Bivouac S.	0.5	0.2
Total	8.0	3.23

1-acre=0.4047 hectare

Total Treatment Acreage for 2010, 388 acres.

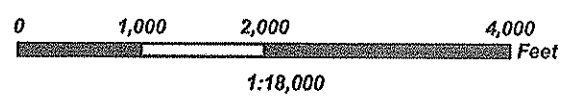
Appendix D

Invasive Plant Treatment 2010



Morris Island Trails	D2a (66 ac. +/-)	V2 (40 ac. +/-)
Volkstone Trails	D2b (119 ac. +/-)	V5 (23 ac. +/-)
Access Trails	V11 (51 ac. +/-)	V6a (10 ac. +/-)
Access Road	V12 (5 ac. +/-)	V8 (16 ac. +/-)

Camp Dawson Tract Boundary
 Volkstone Tract Boundary

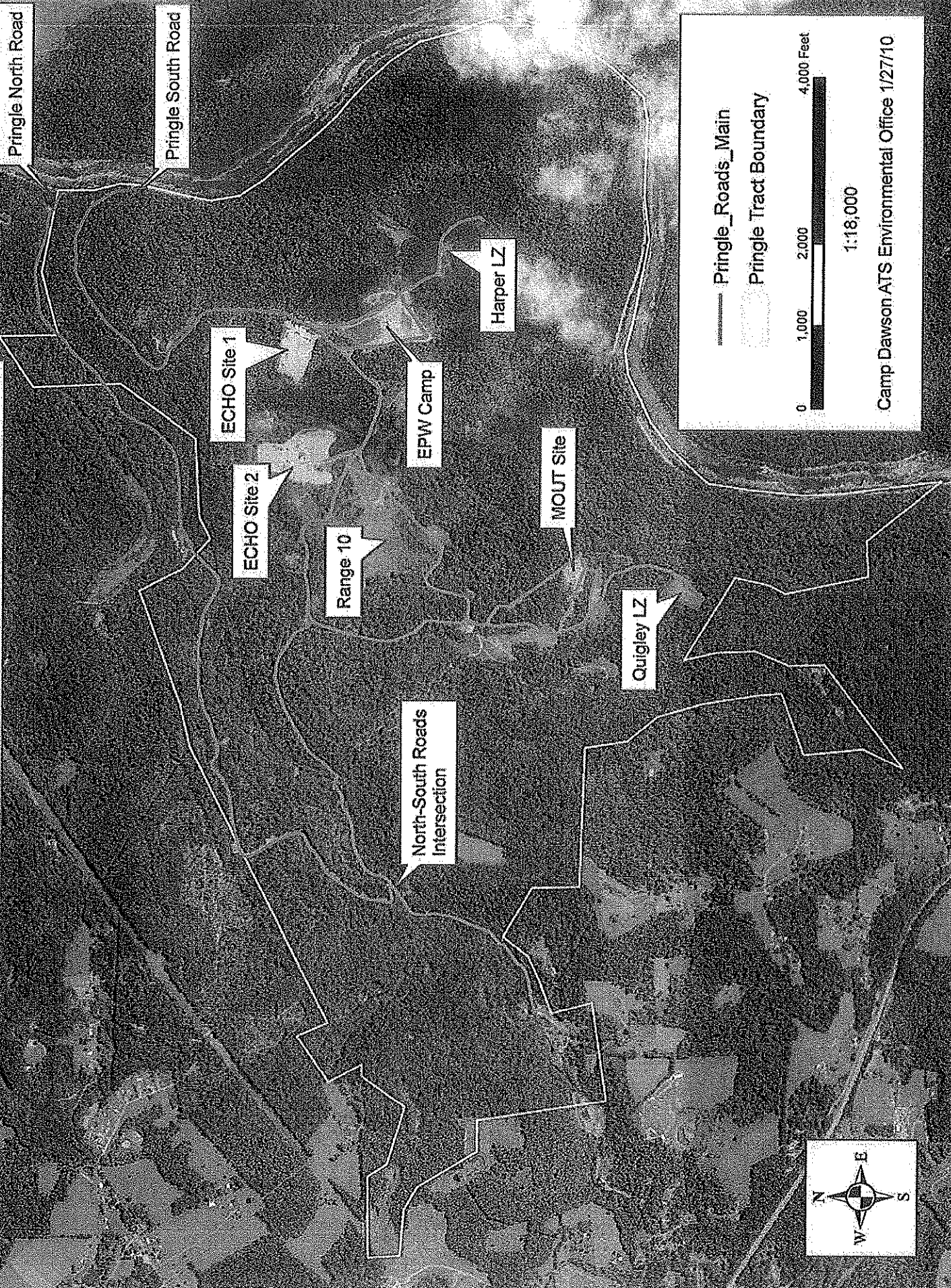


Camp Dawson ATS Environmental Office 1/27/10



Appendix E

Pringle Tract Gravel Road Network 2010



Appendix F

2010 Pringle Tract Treatment Units



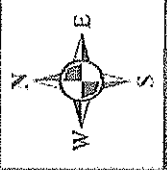
PR-1 PR-2 PR-3 PR-4 PR-5 PR-6

Pringle Tract Boundary

0 1,000 2,000 4,000 Feet

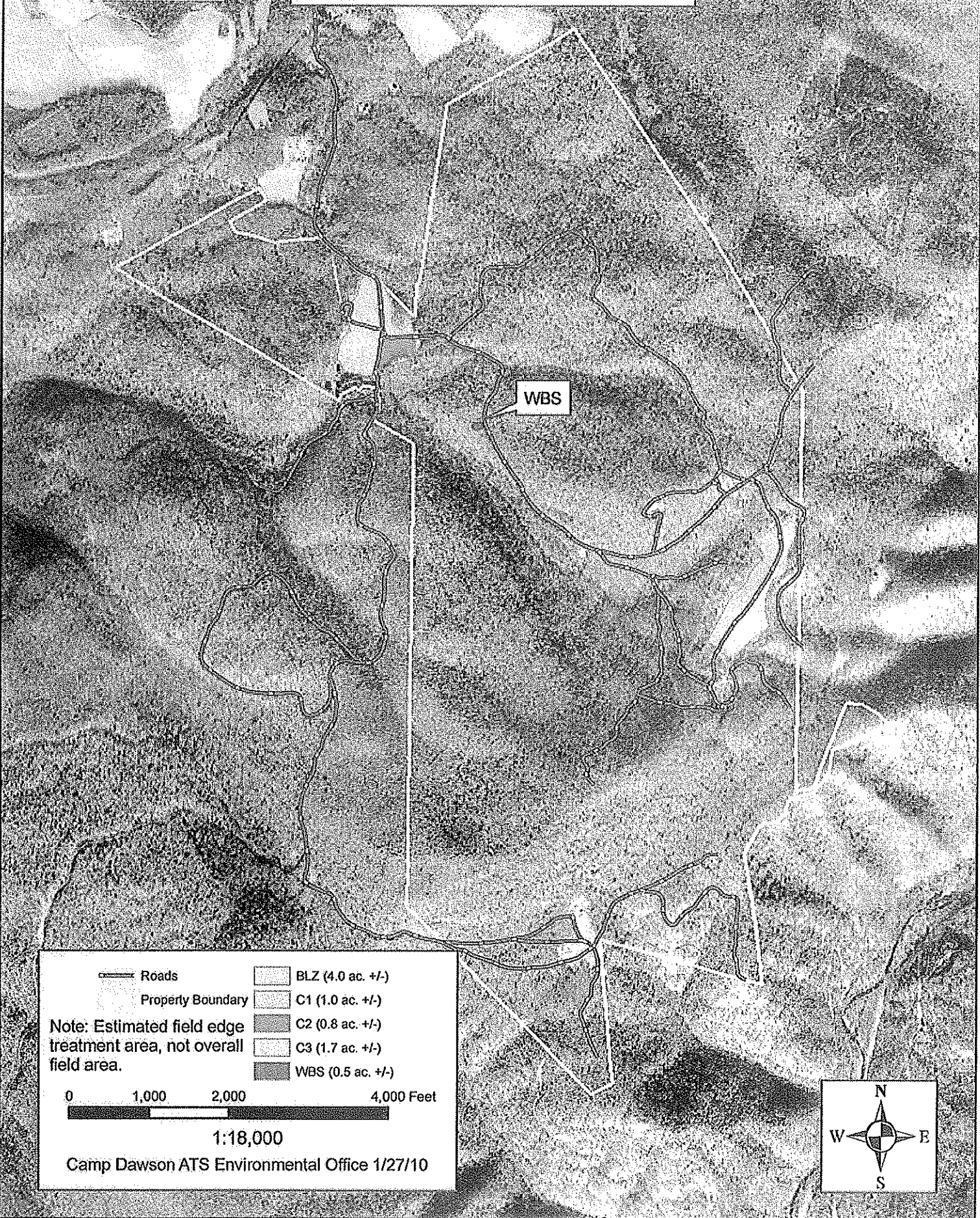
1:18,000

Camp Dawson ATS Environmental Office 1/27/10



Appendix G

Briery Tract Treatment Units 2010



Note: Estimated field edge treatment area, not overall field area.

0 1,000 2,000 4,000 Feet

1:18,000

Camp Dawson ATS Environmental Office 1/27/10



STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: _____

Authorized Signature: _____ Date: _____

State of _____

County of _____, to-wit:

Taken, subscribed, and sworn to before me this ____ day of _____, 20__.

My Commission expires _____, 20__.

AFFIX SEAL HERE

NOTARY PUBLIC _____