

Performance Work Statement

Statement of Work Spraying of Herbicide at Prompton, Jadwin, Beltzville and Francis E. Walter Dams, PA

1.0 Introduction

1.1 Background. The US Army Corps of Engineers Philadelphia District has 5 multipurpose flood control projects located within the Delaware River Basin. While operating and maintaining these earth fill structures, it is critical to manage the spread of unwanted woody vegetation on the dam's critical areas. This contract will service 4 of the 5 projects including Beltzville Dam, Lehigh PA, Francis E. Walter Dam, White Haven PA, General Edgar Jadwin Dam, Honesdale PA, and Prompton Dam, Prompton PA.

1.2 Scope of Work. Every two years, the Northern Area Dams require a contracted herbicide spraying program to effectively control woody vegetation on the site's embankments, groins, abutments, and 15ft beyond all contact points. This helps ensure the integrity of the earth filled structure. This program also serves as a way to control invasive plant species and the spread of unwanted phragmites while aiding to reduce maintenance efforts at each project.

2.0 General Requirements

A herbicide spraying contract shall be provided at Beltzville Dam, Francis E. Walter Dam, General Edgar Jadwin Dam, and Prompton Dam (hereafter referred to as "dams") as described in the following sections.

2.1 General. The Contractor agrees to furnish services as described in Section 3, Performance Requirements. This contract will cover the period beginning 1 June 2023 through 15 July 2023.

2.2 Government-Furnished Materials. The Contractor is expected to provide all manpower, equipment, supplies, and materials required to deliver the herbicide spraying service.

2.3 Contractor Personnel, Disciplines, and Specialties. The Contractor must be certified by the State of Pennsylvania for application of proper pesticides within the State and must adhere to all rules and regulations relating to pesticides. A copy of the appropriate certifications shall be furnished to the Contracting Officer's Representative prior to commencement of work. The Contractor shall be provided with the appropriate form (Pesticide Application Record) to maintain herbicide records. This form shall be completed and furnished to the Government Representative upon completion of each site or day. The following Pesticide Application Record shall have the following information:

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- A. Name of applicator and Certification ID. No.
- B. Herbicide name and EPA Reg. No.
- C. EPA Registration number
- D. Weather conditions
- E. Amount of herbicide used, date and time applied
- F. Amount of acreage covered
- G. Locations applied to include zip code

SEE APPENDIX A

2.4 Location and Hours of Duty. The Contractor shall perform work only during normal Corps of Engineers duty hours (7:00 am. to 3:30 pm., Monday thru Friday, excluding national holidays) weather permitting. Exceptions to this condition must be approved in advance by the Contracting Officer's Representative. At least five (5) days' notice shall be given to the Government indicating when spraying is to be performed at each location.

3.0 Performance Requirements.

The Contractor shall furnish all labor, supervision, equipment and supplies to provide spraying of an estimated 11,200 gallons of herbicide solution. Spraying will be conducted on each of the project site's dam embankments, groins, abutments, and 15ft beyond contact points, and additional areas as specified below. Services shall be provided from 01 June 2023 to 15 July 2023. All work shall be in accordance with these specifications and as directed by the Contracting Officer's Representative.

3.1 Herbicide Requirements. Herbicides, Surfactant, Anti-Drift and Colorant used shall be as specified hereunder. NO SUBSTITUTIONS ARE PERMITTED TO THE PRODUCTS AND CHEMICALS LISTED BELOW.

3.1.1 Herbicide, Oust XP, Mfg. Bayer, EPA Reg No. 432-1552. Provides 10-12 months of residual control of grasses, broadleaf weeds and woody brush.

3.1.2 Herbicide, Escort XP, Mfg. Bayer, EPA Reg No. 432-1549. Targets woody brush and growth with no residual control.

3.1.3 Herbicide, 2,4-D LV4, Mfg. Winfield Solutions LLC, EPA Reg No. 1381-102. Increases the spectrum of control on broadleaf weeds and woody brush.

3.1.4 Surfactant, Cleancut, Mfg. Armorchem. Ensures thorough spray coverage.

3.1.5 Colorant, Bulls Eye Pattern Indicator, Mfg. Milliken Chemicals, Inc. Provide visual pattern to identify thorough spray coverage.

3.1.6 Anti-Drift agent. Aids in spray deposition

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3.2 Solution Mixture. Solution to be mixed per 100 gallons of water:

- A. Oust XP, 5 oz.
- B. Escort XP, 2 oz.
- C. 2, 4-D LV4, 1 gallon.
- D. Surfactant, 64 fl. oz.
- E. Bullseye Pattern Indicator, 10 fl. oz.
- E. Anti-Drift Agent, 1 gallon.

Please note, this list of products and solution mixture was generated and must be followed due to environmental safety concerns, working in and around a water supply reservoir, class A trout stream, other navigable waterways and reservoirs, and highly used recreational areas subject to public travel.

3.3 Rate of Spray. Apply the above solution at a minimum spray rate of 100 gallons per acre, to assure a thorough and uniform covering of the vegetation surface.

3.4 Areas of Coverage. The spraying of the herbicide solution mixture per the required spray rate noted above shall occur at the following projects (see attached maps in Appendix A for each site):

Project	Approximate Quantity (gal)	Approximate Area (acres)	Comments
Prompton Dam, Prompton, PA 18456	1300	13	Area to also include: a) 1 acre of Japanese Knotweed (invasive) and Phragmites (non-native) at base of dam and slightly upstream b) Rip rap bank nears Ops Building and drainages. c) Spillway drainage and fuse plug
General Edgar Jadwin Dam, Honesdale, PA 18431	1400	14	Area to also include: a) Woody vegetation below Overlook located off of Rt. 191, 2, 4-D only. Discuss with Head Dam Tender for clarification prior to beginning spray operations. b) Emergency Spillway spot spray of Phragmites and woody vegetation, minimal.
Beltzville Dam, Lehigh, PA 18235	4300	43	Area to also include: a) Emergency spillway cut, bottom tier only. b) Full coverage under emergency spillway bridge.

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Beltzville Dam (continued)			c) 1000 ft of road shoulders and ditches, 10 ft at specified areas. d) Visitor Center spillway banks, North and South e) Stilling Basin f) Concrete Drainage Ditch
Francis E. Walter Dam White Haven, PA 18661	4200	42	Area to also include: a) 200 ft x 200 ft outlet works. b) Spillway levee, 1100 ft x 40 ft c) 3600 ft of road shoulders, 15 ft on both sides. d) Guiderails throughout roadway 10,000ft x 4ft. e) 9 acres of Japanese Knotweed on Bear Creek Floodplain. f) Picnic area Parking lot 312 ft x 4 ft. g) Trail Parking lot 208 ft x 4 ft. h) Frisbee Golf Parking lot 631 ft x 4 ft. i) Spillway Parking lot 779 ft x 4 ft. j) Kayak Access 1139 ft x 4 ft. k) Outlet Access shoulders and weir 3 6008 ft x 4 ft. l) Toe Drain 335 ft x 20 ft.

4.0 Special Requirements

It is highly recommended that the Contractor inspect all areas to be sprayed. In general, the areas include both the upstream and downstream portions of the dam embankments in addition to the specified areas listed in the comments section under 3.4, Areas of Coverage, see above. Areas and terrain vary by location. To arrange for inspection prior to bidding, contact the following Dam Operators/Tenders:

Jared Quinn for Beltzville Dam, 610-377-0332

Brett Anderton for Francis E. Walter Dam, 570-443-9493

Joseph Vinton for Prompton Lake and General Edgar Jadwin Dam, 570-253-0198

4.1 Equipment. The Contractor is required to furnish a minimum of TWO spray rigs with a minimum of FOUR trained competent individuals on site DURING SPRAYING OPERATIONS. This requirement ensures the period of performance is met at all four locations. The spray rig tanks must be equipped with an anti-siphon device. Spray guns shall be required to accommodate a variety of different spraying techniques. (The gun shall be required to spray a wide swath pattern that is uniform across its width and achieve

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applying a spray solution at 100 gallons per acre or concentrate the spray pattern for spot treatment.) A minimum of 300 feet of spray hose is required and additional hose may be necessary.

- 4.2 Applicable Directives. The Contractor shall apply the herbicides to all locations as specified above and shall be held responsible for any off-site damage caused from spraying operations, such as over spraying, leaching, and public safety. The Contractor is prohibited from using Government property to clean equipment or dispose of any waste.
- 4.3 Safety. The Contractor shall comply with all applicable Federal, State, and Local safety regulations, including US Army Corps of Engineers Occupational Safety and Health Requirements Manual, EM 385-1-1. For public use areas being treated, the Contractor is required to post removable signs stating "Herbicide Application in Progress" or something comparable while spraying operations are ongoing. This notice is to protect the general public and pets from unwanted and unknown exposure. The signs shall remain posted for 24 hours after any chemicals are applied.
- 4.4 Security. The Contractor will be required to spray in areas that are both restricted and open to public access. For restricted areas, a Government representative will escort and give access to the Contractor to perform the work. A visitor log is maintained at each dam project office and will require the Contractor to sign in and out each day. The Contractor will not require a Common Access Card to perform this work.
- 4.5 Mixing Location. The Contractor shall coordinate the location of a designated area for mixing and preparing herbicides with proper personnel.
- 4.6 Emergency Action Plan. The Contractor is required to have a spill containment system constructed of impervious materials or an alternate as required. The Contractor is advised to dial 911 if any threats to the environment or public safety occur, notify dam personnel immediately and take appropriate action. Information on decontamination or emergency and non-emergency type spills may be obtained by contacting CHEMTREC toll free at 1-800-424-9300.
- 4.7 Limited Access. The majority of areas to be treated are accessible by a high-volume spray rig with the exception of an 800 feet span in Beltzville's emergency spillway. This will require hand spraying (backpack) or use of an ATV/UTV. Also, depending on weather conditions, the 9-acre Bear Creek Flood Plain at F.E. Walter Dam may be difficult to access. Other arraignments may be needed. (Again, it is highly recommended Contractors visit all sites prior to bidding.)

5.0 Measure and Payment

Herbicide Treatment will be paid for at the contract unit price per gallon in accordance with treatment specifications, upon satisfied completion by the Authorized Representative of the Contracting Officer. If areas are missed and satisfied completion is not warranted after the

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Contractor leaves the project site after initial inspection, the Contractor will be required to return at no additional cost to the Government to ensure a satisfactory end product is achieved. Payment will be based on a spray rate of 100 gallons per acre solution. THE CONTRACTOR CANNOT ELECT TO SPRAY A MORE DILUTED SOLUTION THAN SPECIFIED ABOVE. Such payment shall be compensation for all labor, materials, equipment and incidentals necessary to perform the work.

Upon satisfaction of the contract, the Contractor shall submit an invoice(s) for payment to:

Original invoice forwarded to:

Authorized Representative of the Contracting Officer
Joshua E. Dinko
U.S. Army Corps of Engineers
Northern Area Office
2145 Pohopoco Drive
Lehigh, PA 18235

The invoice should be submitted within five (5) calendar days after notification of acceptance of work. The invoices must provide, Contractor's name and address, Contract/Purchase Order No., date prepared and itemized costing per unit. Questions regarding the preparation and forwarding of invoices may be directed to Joshua Dinko at the Northern Area Office at (610) 377-0332.

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APPENDIX A

Pesticide Application Record

NAME OF APPLICATOR CERT ID NO:

DATE:

PROJECT SITE:

HERBICIDES & PRODUCTS USED with EPA REG NO:

QUANTITY APPLIED:

WEATHER CONDITIONS:

AREAS TREATED: (USE ATTACHED MAPS FOR REFERENCE)

NOTES OR OBSERVATIONS:

Beltzville Dam



Google

© 2013 Google

Imagery Date: 5/19/2012

1992

40°51'10.65" N 75°38'23.80" W elev 648 ft

Eye alt 5314 ft

©2010

Beltzville Dam



Google
© 2010

Eye alt 3564 ft

© 2013 Google

40°51'28.37" N 75°38'36.15" W elev 651 ft

718 ft

Imagery Date: 5/19/2012 1992

Beltzville Dam



©2010 Google

Eye alt 5888 ft

© 2013 Google

40°51'31.99" N 75°38'39.08" W elev 664 ft

1201 ft

Imagery Date: 5/19/2012 1992



Beltzville Dam



N

Google
©2010

Imagery Date: 5/19/2012

1992

40°50'52.30" N 75°38'26.59" W elev 504 ft

Eye alt 1566 ft

Beltzville Dam



Google
©2010

40°50'54.77" N 75°38'32.80" W elev 571 ft

Imagery Date: 5/19/2012 1992

Eye alt 2473 ft

440 ft

Beltzville Dam

Visitor Center Emergency Spillway Bank

Legend



600 ft

Google earth

© 2016 Google



Beltzville Dam

Visitor Center Opposite Bank

Legend



400 ft

Google Earth



Beltzville Dam
Right Side Spillway Bridge
Top-Tier Only



Beltzville Dam
Left Bank Outlet





Beltzville Dam

Drainage Ditch

Google Earth



300 ft

Francis E Walter Dam Embankment



Note: Water levels will be higher when you spray. All spraying must be done 15 feet past the groin (where embankment makes contact with ground surface).



Map

Traffic

Francis E Walter Dam New Road Section (Page 1 of 2)

Start

Note: New road shoulders need to be sprayed to at least centerline of drainage ditches. Contract states 15 feet on both sides, use judgement here, some areas are larger than 15 feet, some much smaller, pretty much a wash. This includes New road photo's Section 1 and Section 2.

St Fish and Game Commission Rd

Walter Dam Rd

Walter Dam Rd

St Fish and Game Commission Rd





**Francis E Walter Dam
New Road Section**



**Francis E Walter Dam
Outlet Area**



**Francis E Walter Dam
Embankment**

Note: Training dike top of road
needs to be sprayed along with
dike and 5 feet beyond contact
with grade.





PE Water Dam

Google earth

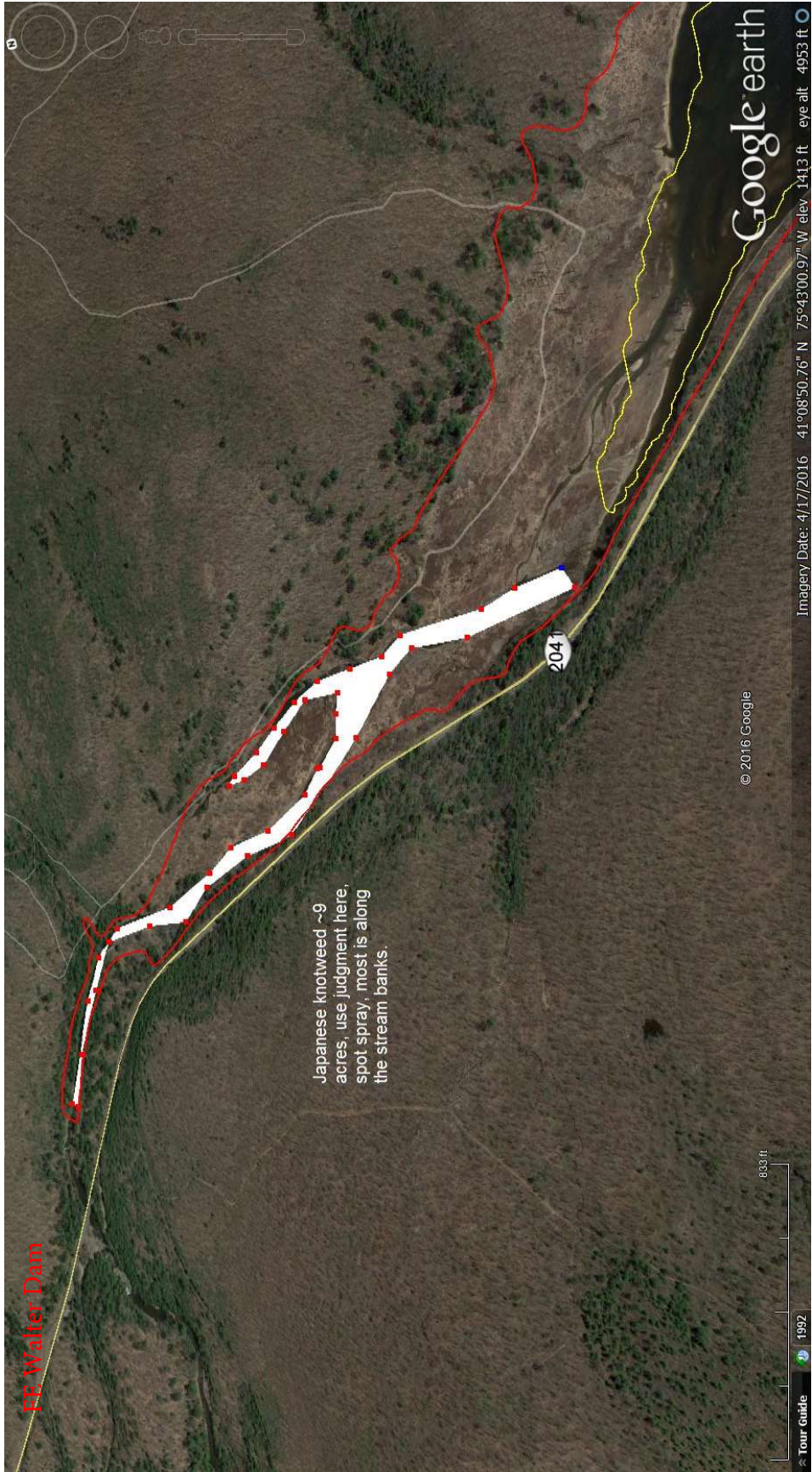
Imagery Date: 4/17/2016 41°06'21.22" N 75°42'36.41" W elev 1587 ft eye alt 2100 ft

© 2016 Google

116 ft

1992

Tour Guide



FE Walter Dam

Japanese knotweed ~9 acres, use judgment here, spot spray, most is along the stream banks.

Google earth

Imagery Date: 4/17/2016 41°08'50.76" N 75°43'00.97" W elev 1413 ft eye alt 4953 ft

© 2016 Google

833 ft

Tour Guide 1992







FE Walter Dam

Spray toe drain

Google earth

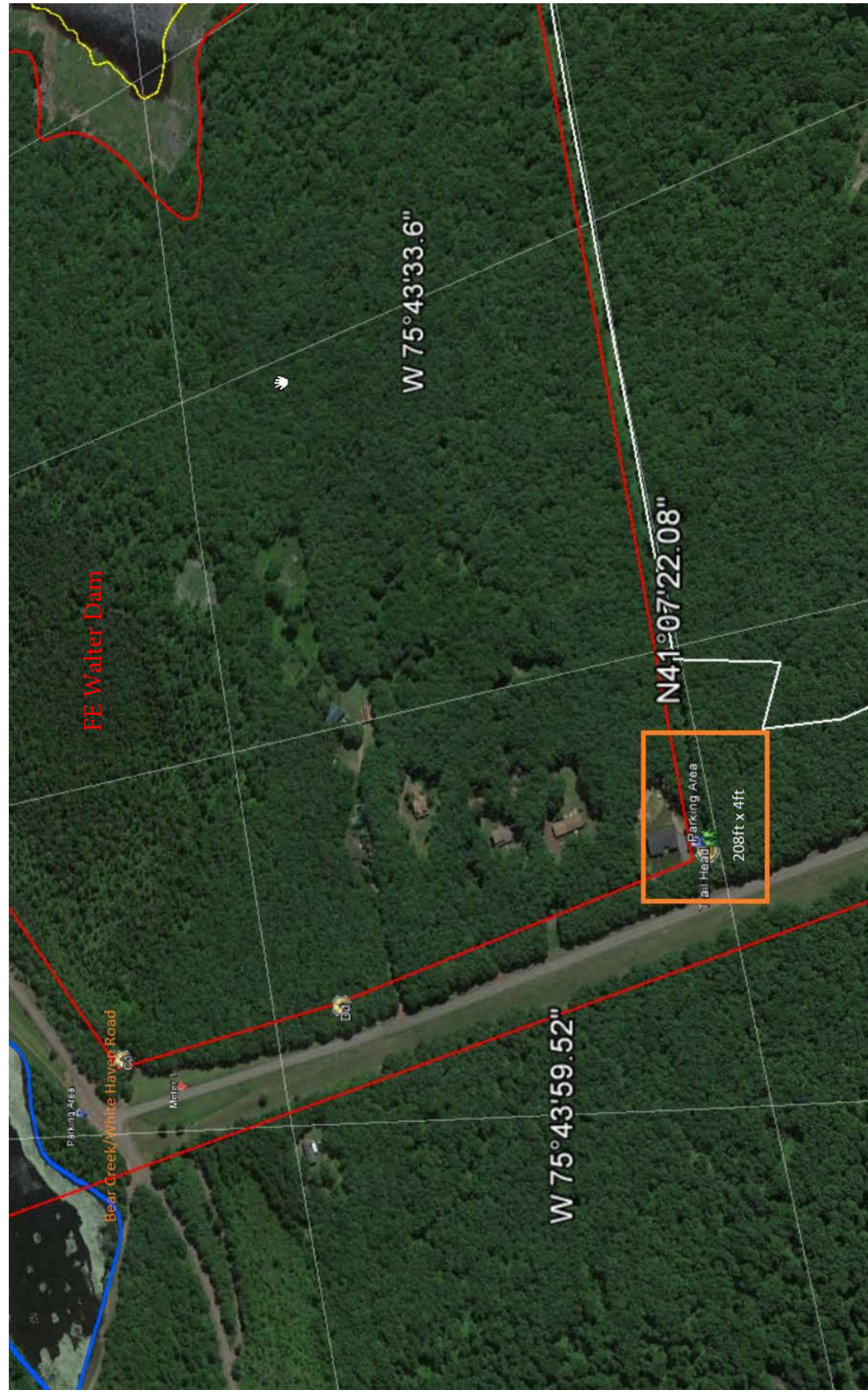
© 2016 Google

Imagery Date: 4/17/2016 · 41°06'37.44" N · 75°43'20.81" W elev 1267 ft · eye alt 1616 ft

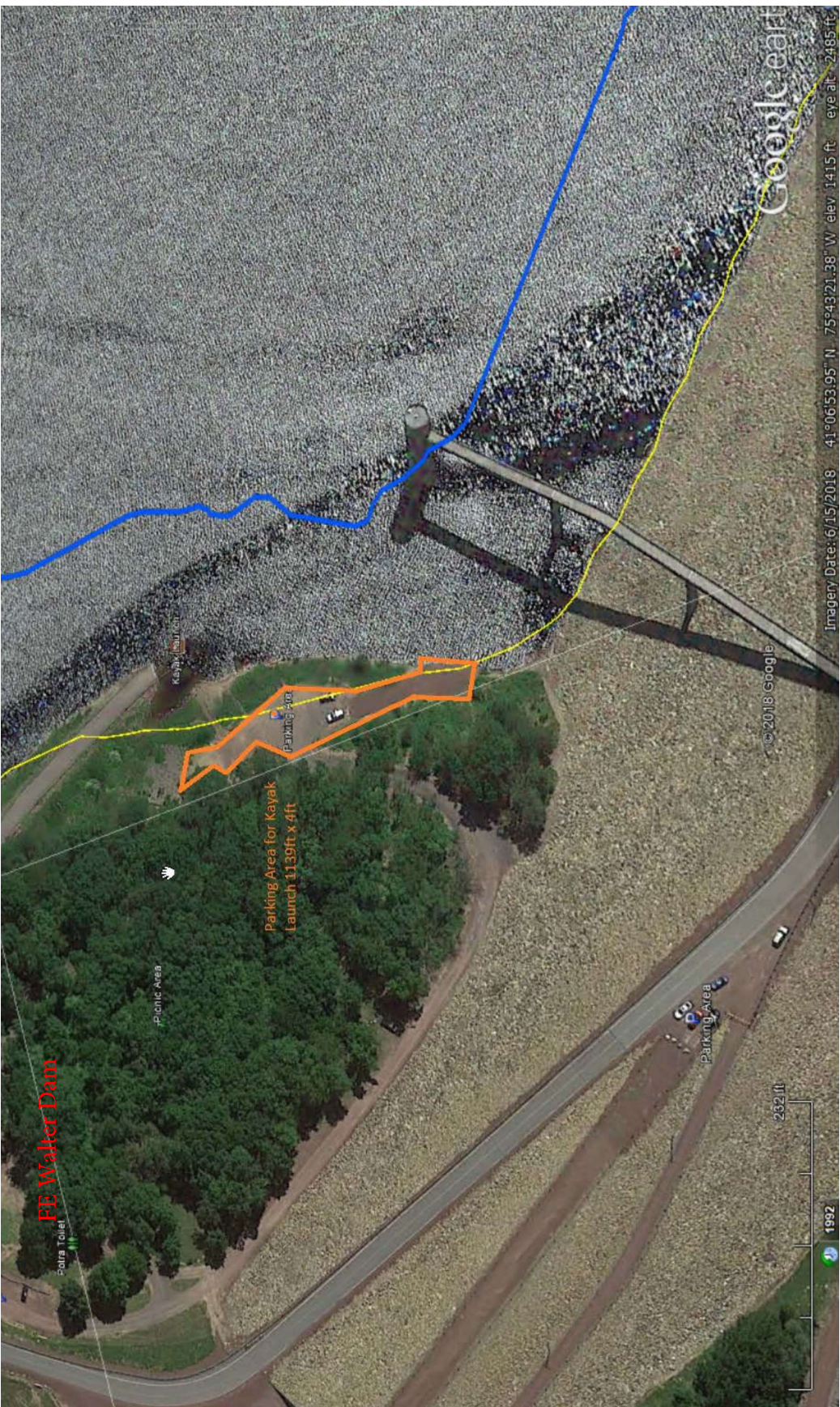
1992

Tour Guide

114 ft



Trail Parking Lot, FE Walter Dam, Nr Bear Creek White Haven Rd, 208ft x 4ft



Parking Area for Kayak Launch FE Walter Dam 1139ft x 4ft

Prompton Dam

Embankment, Grains and Contact Points.

Legend

Untitled Path

Google earth

© 2018 Google



400 ft



Prompton Dam

Rip rap bank behind Ops facility and drainages.

Legend

Untitled Path



300 ft


Google earth


© 2018 Google

Prompton Dam

Spillway and fuse plug.

Legend

 Feature 1

 US Army Corps of Engineers

Google Earth

US Army Corps of Engineers

Google Earth

500 ft



Jadwin Dam

Embankment, Groins, Contact Points, Stilling Basin, Emergency Spillway, Overlook.

Legend



Untitled Path

Google earth

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400 ft

