

**(7) CITY/COUNTY PLANNING DEPARTMENT AFFIDAVIT (to be completed by local planning official) \***

I have reviewed the project outlined in this application and have determined that:

- This project is not regulated by the comprehensive plan and land use regulations.
- This project is consistent with the comprehensive plan and land use regulations.
- This project will be consistent with the comprehensive plan and land use regulations when the following local approval(s) are obtained.
  - Conditional Use Approval       Development Permit       Other \_\_\_\_\_
- This project is not consistent with the comprehensive plan. Consistency requires a
  - Plan Amendment       Zone Change       Other \_\_\_\_\_

An application  has  has not been filed for local approvals checked above.

Local planning official name (print)	Signature	Title	City / County	Date
Comments:				

**(8) COASTAL ZONE CERTIFICATION \***

If the proposed activity described in your permit application is within the Oregon coastal zone, the following certification is required before your application can be processed. A public notice will be issued with the certification statement, which will be forwarded to the Oregon Department of Land Conservation and Development for its concurrence or objection. For additional information on the Oregon Coastal Zone Management Program, contact the department at 635 Capitol Street NE, Suite 150, Salem, Oregon 97301 or call 503-373-0050.

**CERTIFICATION STATEMENT**

I certify that, to the best of my knowledge and belief, the proposed activity described in this application complies with the approved Oregon Coastal Zone Management Program and will be completed in a manner consistent with the program.

Print /Type Name	Title
Applicant Signature	Date

**(9) SIGNATURE FOR JOINT APPLICATION**

Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and, to the best of my knowledge and belief, this information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities. I understand that the granting of other permits by local, county, state or federal agencies does not release me from the requirement of obtaining the permits requested before commencing the project. *I understand that payment of the required state processing fee does not guarantee permit issuance. The fee for the state application must accompany the application for completeness. Amount enclosed \$150.00 (applicant is private nonprofit group).\**

Jeffrey R. Sherman	President - McKenzie Community T/F
Print /Type Name	Title
Jeffrey R. Sherman	10-8-06
Applicant Signature	Date

I certify that I may act as the duly authorized agent of the applicant.

Nancy Holzhauser	consultant
Print /Type Name	Title
Nancy Holzhauser	10-8-06
Authorized Agent Signature	Date

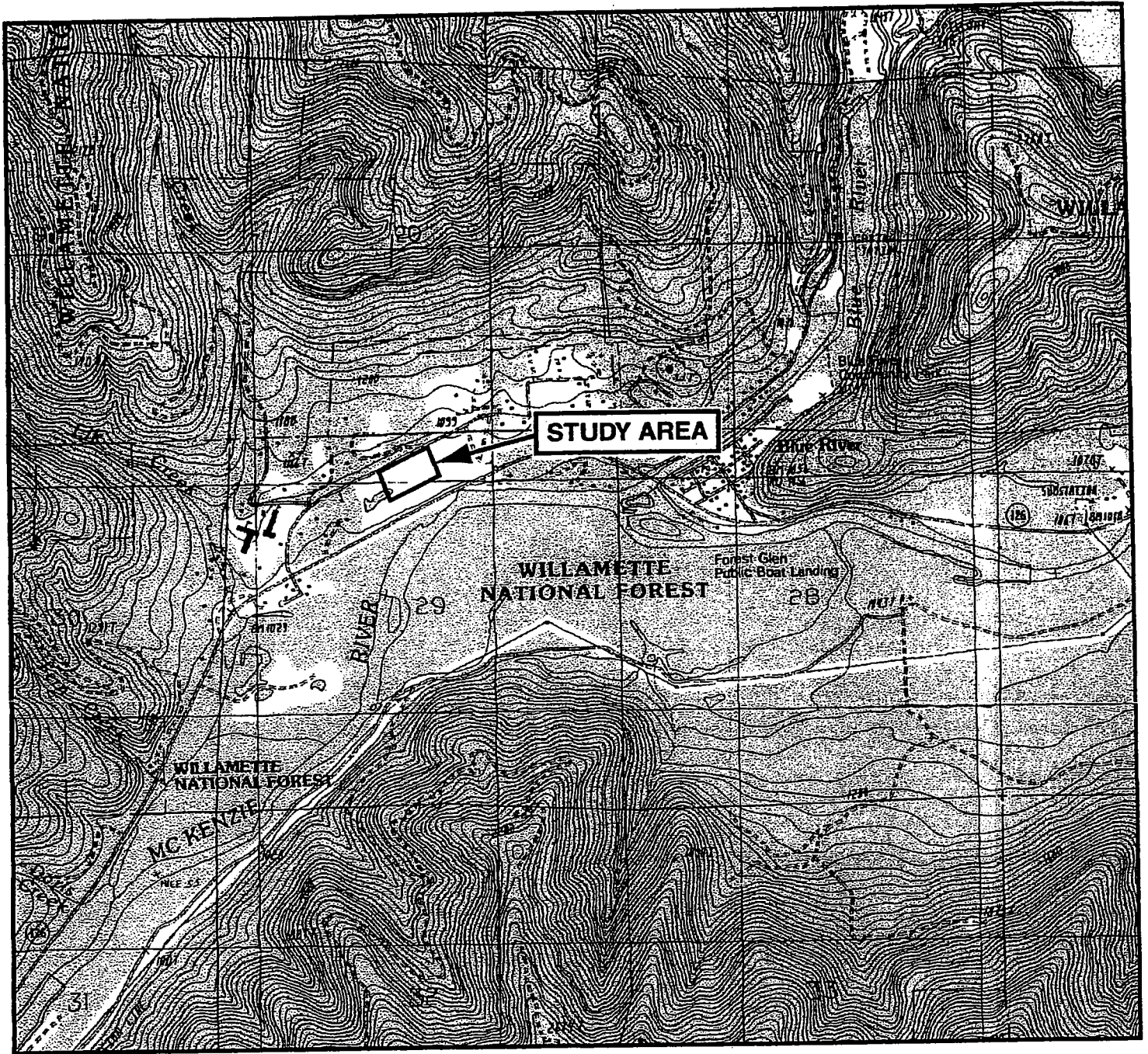
*I certify that the applicant has my permission to conduct the project on my property.\**

Jeffrey R. Sherman	President - McKenzie Comm. T/F
Print /Type Name	Title
Jeffrey R. Sherman	10-8-06
Property Owner Signature <sup>3</sup>	Date

[http://oregon.gov/DSL/PERMITS/docs/joint\\_permit\\_app\\_v2.1\\_Formfill.doc](http://oregon.gov/DSL/PERMITS/docs/joint_permit_app_v2.1_Formfill.doc)

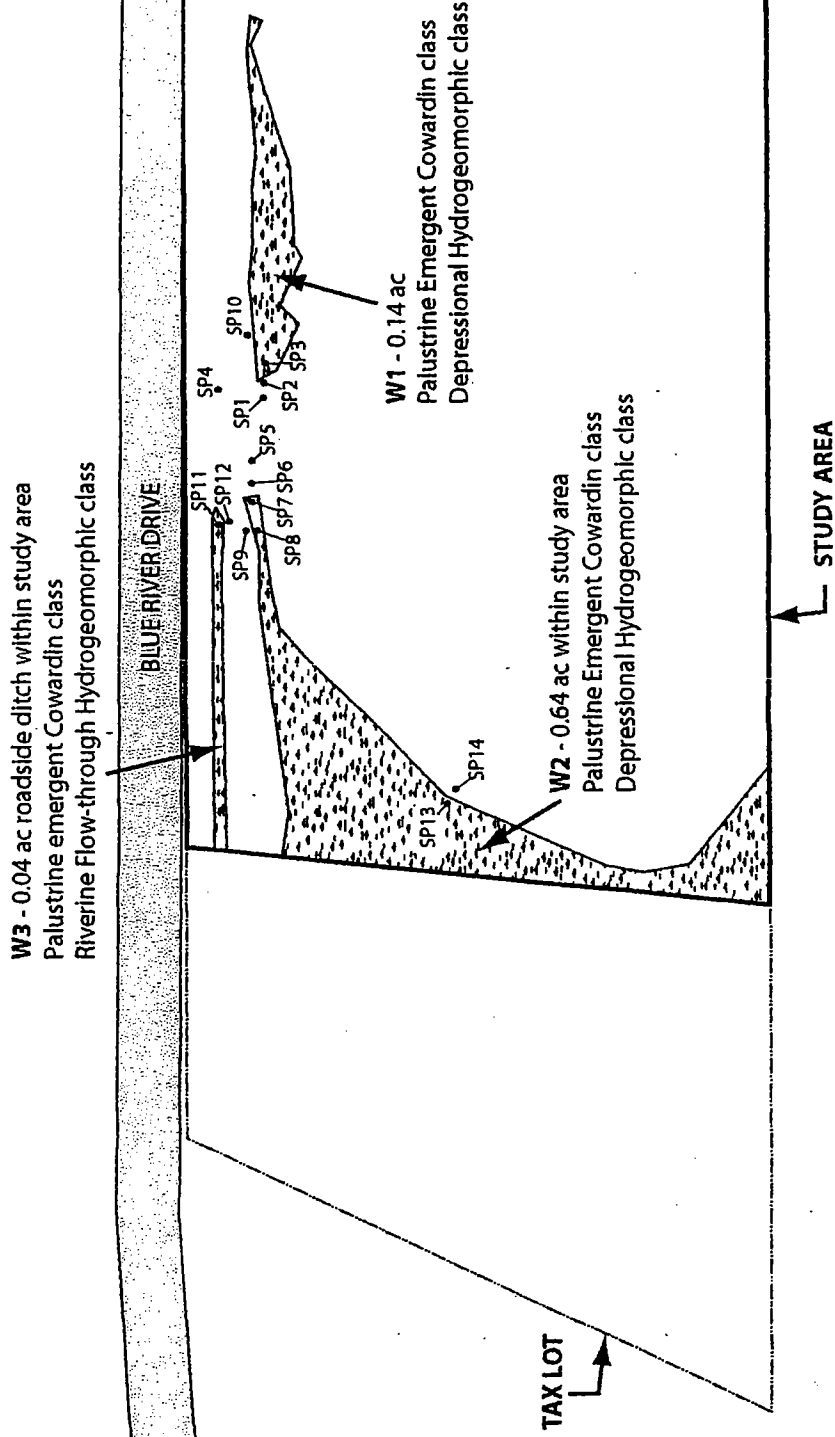
<sup>3</sup> If the project is on a state-owned waterway, you must contact the Land Management Division of the Department of State Lands for approval to proceed with this application. See [www.oregonstatelands.us](http://www.oregonstatelands.us) for a list of state-owned waterways.

\* Italicized areas are not required by the Corps for a complete application, but may be necessary prior to final permit decision by the Corps.



**FIGURE 1: Site Location Map**  
Source: Blue River USGS Quad  
Scale: 2.6" = 1 mile

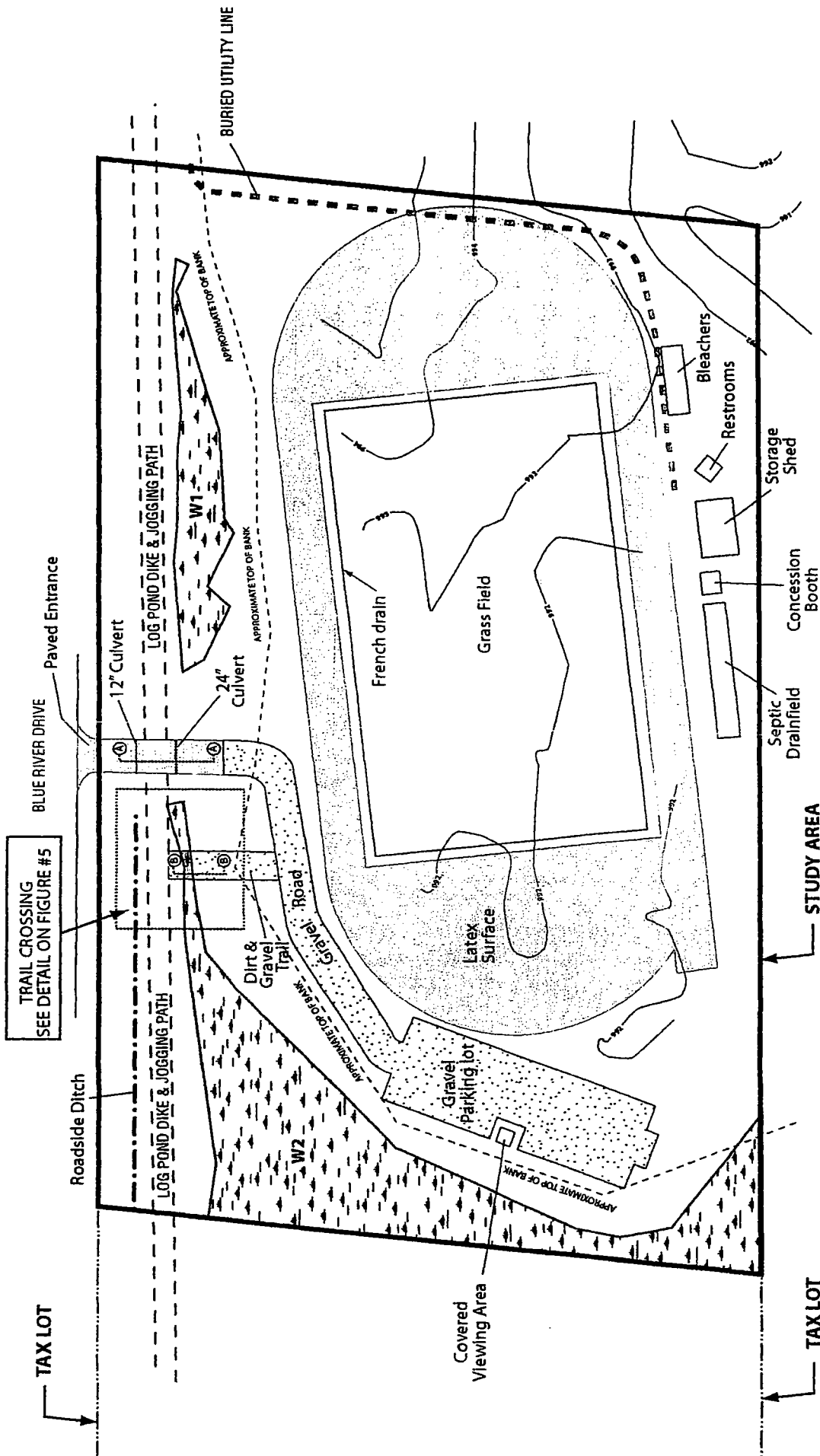




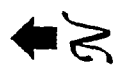
**FIGURE 3: Wetland Delineation Map**

Wetland boundaries and sample points mapped using handheld GPS unit, estimated accuracy  $\pm 10$  feet.

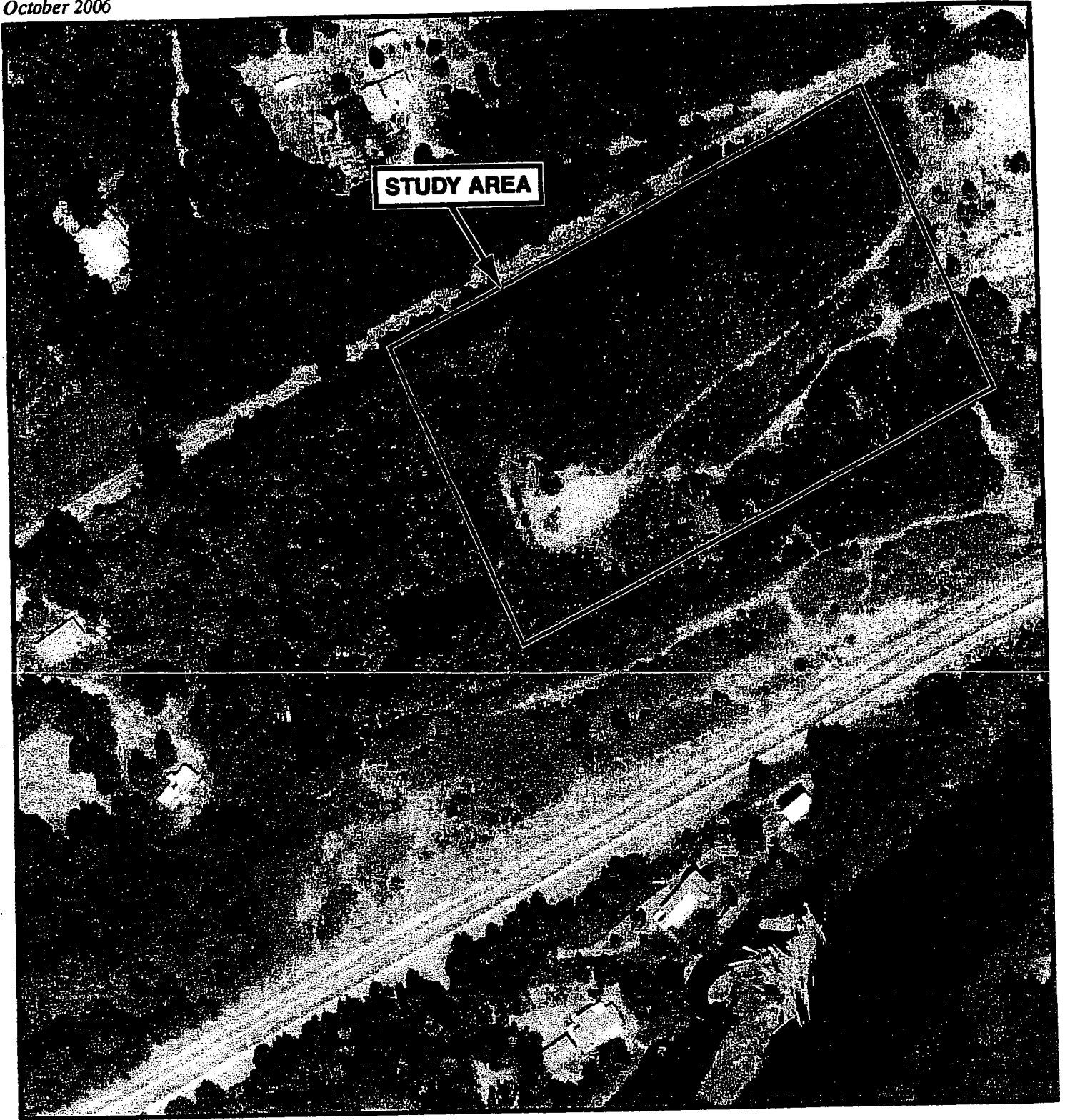
Scale: 1" = 150'



**FIGURE 4: Proposed Site Plan**  
 Scale: 1" = 100'



- Wetlands
  - Wetland impact = 0.005 ac PEM Cowardin class & Depressional HGM class.
- Partial topographical survey has been done on the site - Date of survey 2004



N

**FIGURE 6: 2002 Aerial Photo**

Scale undetermined

**EROSION AND SEDIMENTATION CONTROL NOTES-  
McKenzie Community Track and Field Project**

The erosion and sediment control described following are the minimum requirements for anticipated site conditions. During the construction period, these measures shall be upgraded as needed for unexpected storm events and to ensure that sediment and sediment-laden water does not leave the site. The implementation of this Construction Site Management Plan (CSMP) and the construction, maintenance, replacement, and upgrading of the erosion and sediment control measures is the responsibility of the contractor until all construction is completed and accepted and vegetation / landscaping is established.

The erosion and sediment control measures must be constructed in conjunction with all clearing and grading activities, in such a manner as to insure that sediment and sediment laden water does not enter roadways or violate applicable water standards. When designing and implementing measures, the permit holder and or the contractor shall consider the seasonal variation of rainfall, temperature, and other climatic factors relative to the timing of land disturbance activities.

The erosion and sediment control measures on active sites shall be inspected and maintained daily and within the 24 hours after any storm event of greater than 0.5 inches of rain per 24 hour period. Measures shall be inspected by permit holder and/or the contractor after each rainfall and at least daily during prolonged rainfall. Any required repairs or adjustments shall be made immediately. The erosion and sediment control measures on inactive sites shall be inspected a minimum of once every two (2) weeks or within 48 hours following a storm event. All stockpiled soil shall be either covered if not used within 48 hours or seeded with a native seed mix if not planned for use for more than 2 months.

All exposed soils, including unused stockpiled soils, will be seeded with a native erosion control seed mix at the rate of 12 #/acre as follows: 5 lb/ac *Elymus glaucus*, 3 lb/ac *Bromus carinatus*, 2 lb/ac *Deschampsia cespitosa*, 2 lb/ac *Festuca idahoensis*.

No hazardous substances, such as paints, thinners, fuels and other chemicals shall be released onto the site, adjacent properties, or into water features, or related natural resources. No discharge shall occur into onsite natural resources including wetlands, of construction related contaminants resulting from activities such as, but not limited to, cleaning or washing of equipment, tools, or vehicles.

All adjacent properties, water features, and related natural resources are to be kept free of deposits or discharges of soil, sediment or construction-related material from the construction site. In addition, wetland areas shall be

surrounded with appropriate fencing as noted on CSMP prior to construction and shall not be disturbed unless the proper permits are obtained.

A supply of materials necessary to meet the outcomes and implement the construction site management plan or other best management erosion practices under all weather conditions shall be maintained at all times on the construction site.

The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field by the contract manager prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the contractor for the duration of construction. All wetland areas shall be flagged by the wetlands consultant or contract manager prior to construction and shall not be disturbed unless the proper permits are obtained. The flagging shall be maintained by the contractor for the duration of construction.

Approval of the system does not guarantee that it will meet the outcomes or be acceptable to use in all situations. Modifications to the system will be required if the outcomes can not be met. At no time will sediment laden water be allowed to leave the construction site.

Sediment laden water will not be allowed to enter onsite wetlands.

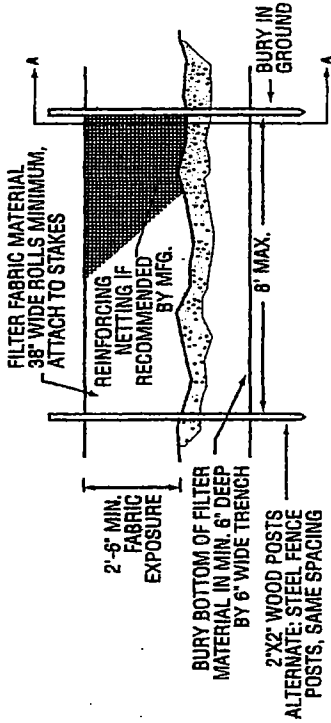
All erosion and sediment control measures shall be protected from damage at all times. Any measure that is damaged or destroyed shall be repaired or replaced immediately.

Equipment will be inspected for leaks prior to each day's use, with repair of leaks taking place before its use.

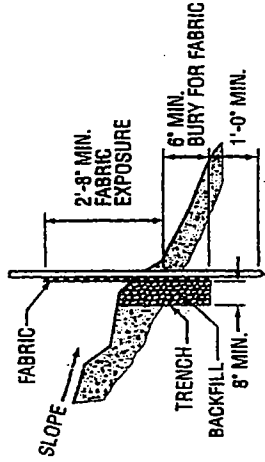
Any contaminated soil will be removed and disposed of properly.



- NOTES:**
1. Installation shall follow the manufacturer's recommendations.
  2. Posts shall be installed so that a min. of 3'-0" extends above the ground with a min. 2'-0" embedment.
  3. Filter fabric fabric shall be purchased in a continuous roll to avoid joints.
  4. Splice joints at support posts only, with a min. 6" overlap.



**ELEVATION**

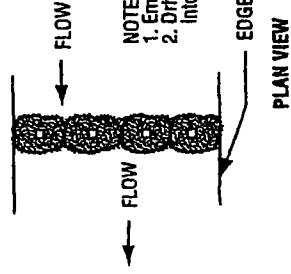
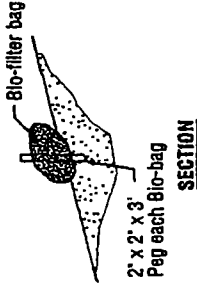


**SECTION A-A**

**TYPICAL SEDIMENT FENCE DETAIL**

NOT TO SCALE

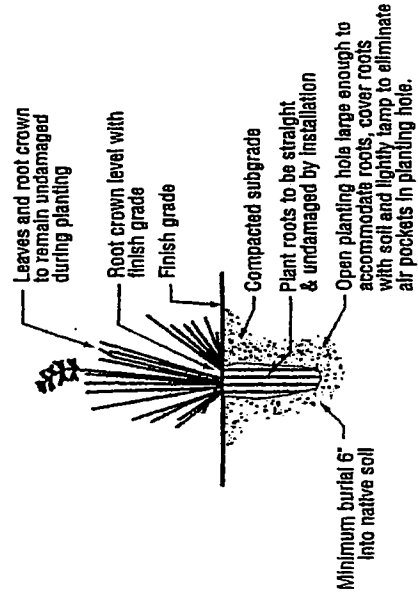
Bio-filter bags to be buried together snugly in lines across the enhanced channel



- NOTES:**
1. Embed bags 4 to 6 inches.
  2. Drive stakes minimum 12" into ground surface

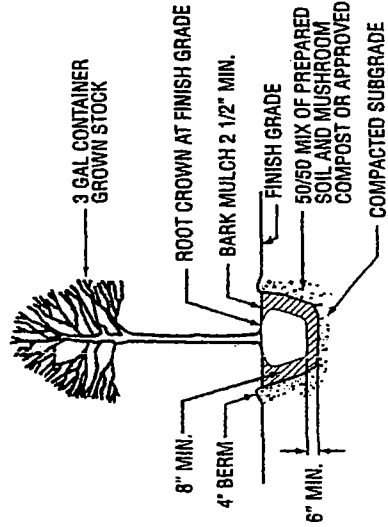
**BIO-FILTER BAG**

NOT TO SCALE



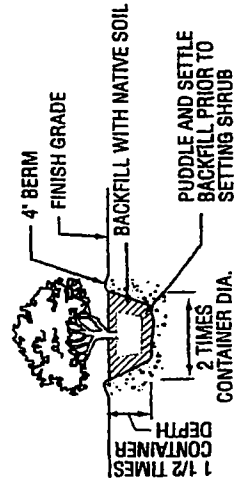
**8 CU IN STYRO-BLOC PLUG**

NOT TO SCALE



**TREE PLANTING DETAIL**

NOT TO SCALE



**SHRUB PLANTING DETAIL**

NOT TO SCALE

**Erosion Control and Planting Detail**

**RESTORATION PLAN**  
**for the McKenzie Community Track and Field Project**  
**Blue River, Lane County, Oregon**

*Prepared by*  
Environmental Solutions LLC  
55646 Drury Drive  
Blue River, Oregon  
(541) 822-1090



**1.0 GENERAL INFORMATION**

**1.1 Applicant Information**

McKenzie Community Track and Field Committee  
ATTN: Jeff Sherman  
54800 East King Road  
Blue River, OR 97413  
Phone No.: (541) 822-3451

**1.2 Purpose**

The purpose of this Restoration Plan is to provide a seeding prescription to restore bare areas resulting from the construction of a track and field facility (refer to Joint Removal-Fill Permit Application for detailed information).

**2.0 RESTORATION PLAN**

The project area is on relatively level fill in a partially filled and drained abandoned log pond. The on-site wetlands are associated with the unfilled portions of the log pond that border the north and west boundaries of the project area, and are 6-10 feet lower than the facility construction site. The only proposed wetland impact is associated with a trail crossing which will consist of fill and a culvert to connect the perimeter dike to the project site. The banks of that trail crossing will be seeded with a native seed mix of upland and wetland grasses typical of the local habitat (see list below). Seeding will occur within 2 weeks of completion of the trail crossing as well as other construction activities. Seed can be applied by broadcast or hydroseeding, however if seed is to be broadcast, the application rate shall be twice the rate indicated below. This same seed mix can be applied to all other areas made bare during construction, including the graded areas around the track and gravel parking area. The optimum seeding period is mid-October through November and late March through April. The native seed mix listed below shall be applied.

The following native seed mix shall be applied at a rate of 8 lbs/ac (hydroseed) or 16 lb/ac (broadcast):

- Blue wildrye (*Elymus glaucus*) @ 3 lb/ac (hydroseed) or 6 lb/ac (broadcast)
- Spike bentgrass (*Agrostis exarata*) @ 1 lb/ac (hydroseed) or 2 lb/ac (broadcast)
- California brome (*Bromus carinatus*) @ 1 lb/ac (hydroseed) or 2 lb/ac (broadcast)
- Large leafed lupine (*Lupinus polyphyllus*) or Streambank lupine (*Lupinus rivularis*) @ 1 lb/ac (hydroseed) or 2 lb/ac (broadcast)
- Tufted hairgrass (*Deschampsia cespitosa*) @ 2 lb/ac (hydroseed) or 4 lb/ac (broadcast)

### **3.0 MAINTENANCE AND CONTINGENCY MEASURES**

Bare areas will be reseeded with the native seed mix.

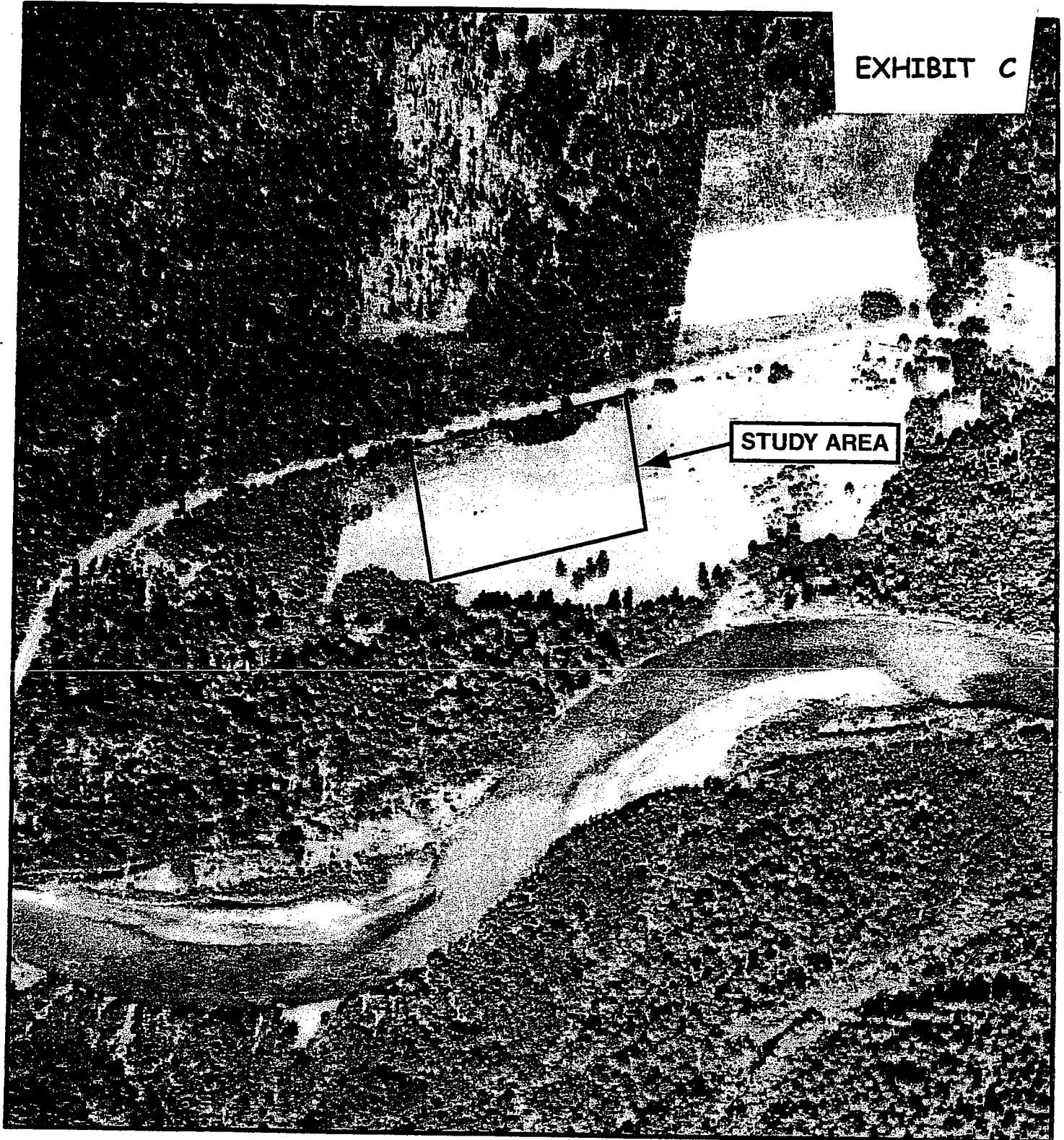
### **4.0 IMPLEMENTATION SCHEDULE**

It is anticipated that the seeding will occur in the fall 2006-winter 2008 seasons. Year 1 refers to the first year following installation of the pipe.

1. Year 1- Post-construction of trail: Apply native seed mix.
2. Year 2 and beyond- September/October: Reseed site as needed with native seed mix.

EXHIBIT C

EXHIBIT C



N

**FIGURE 16: 1936 Aerial Photo**

Scale undetermined



N

**FIGURE 15: 1945 Aerial Photo**

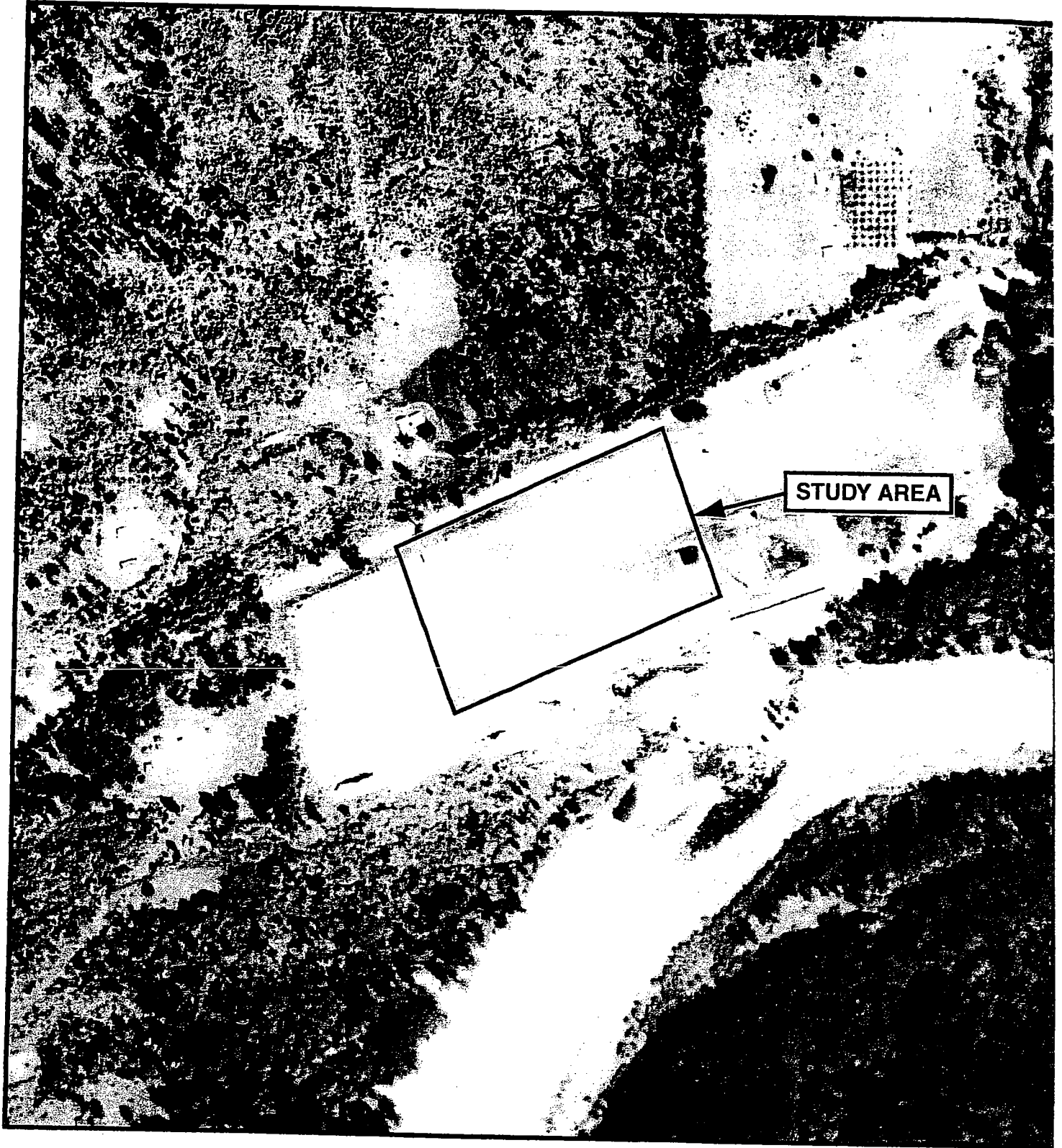
Scale undetermined



N

**FIGURE 14: 1952 Aerial Photo**

Scale undetermined



N

**FIGURE 13: 1959 Aerial Photo**  
Scale undetermined





N

**FIGURE 12: 1967 Aerial Photo**

Scale undetermined



N

**FIGURE 11: 1972 Aerial Photo**

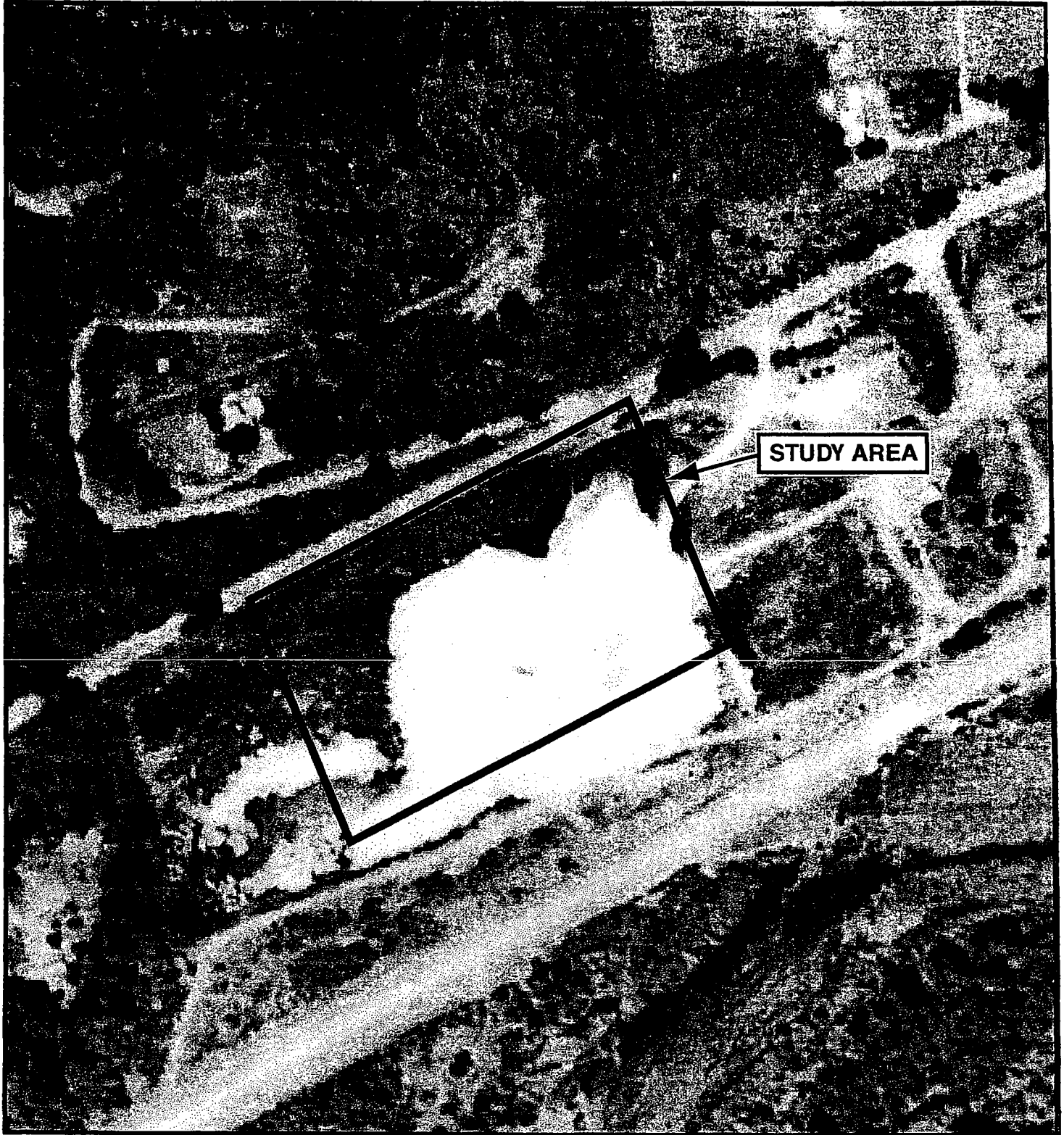
Scale undetermined



N

**FIGURE 10: 1980 Aerial Photo**

Scale undetermined



N

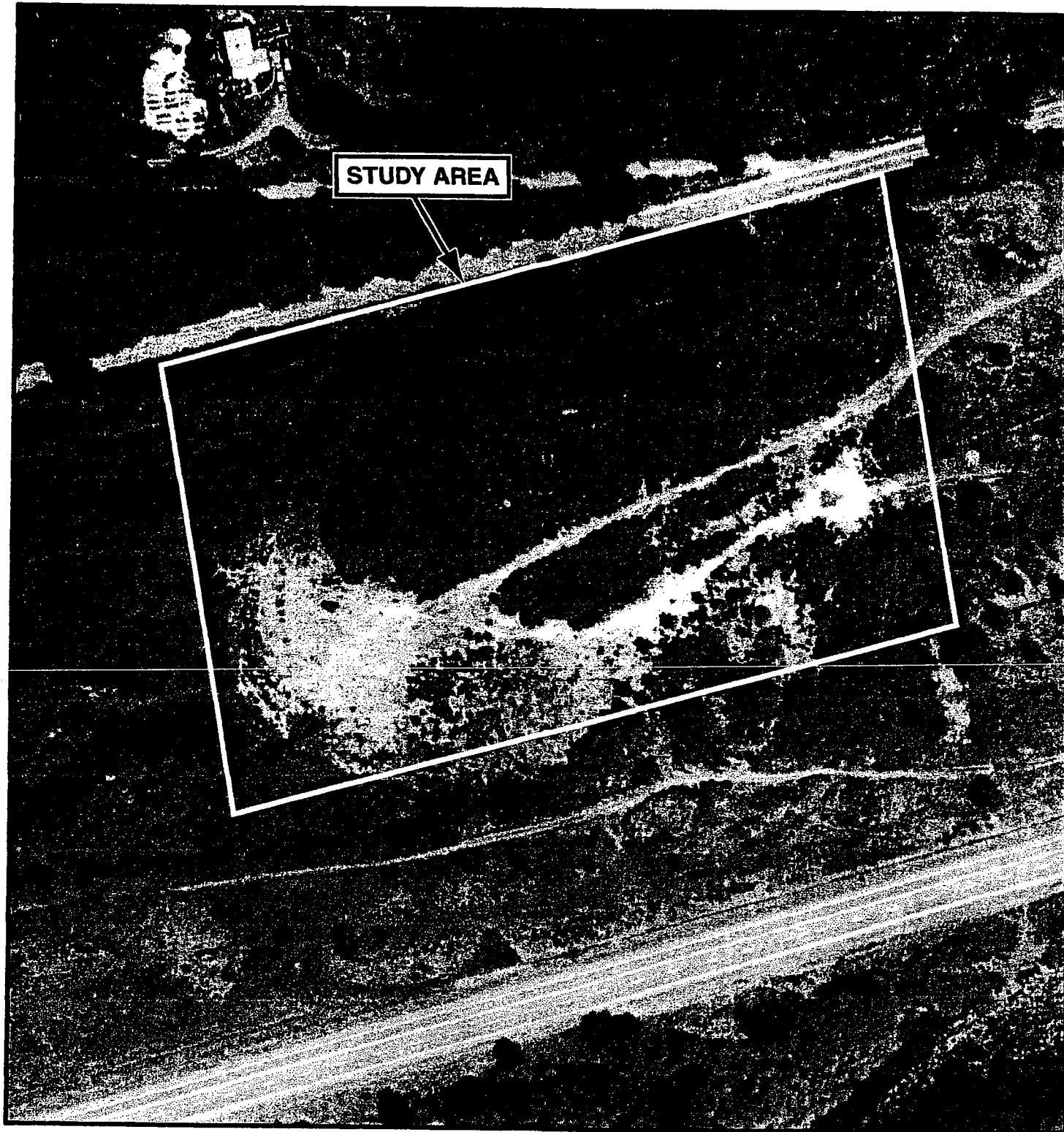
**FIGURE 9: 1981 Aerial Photo**

Scale undetermined



N

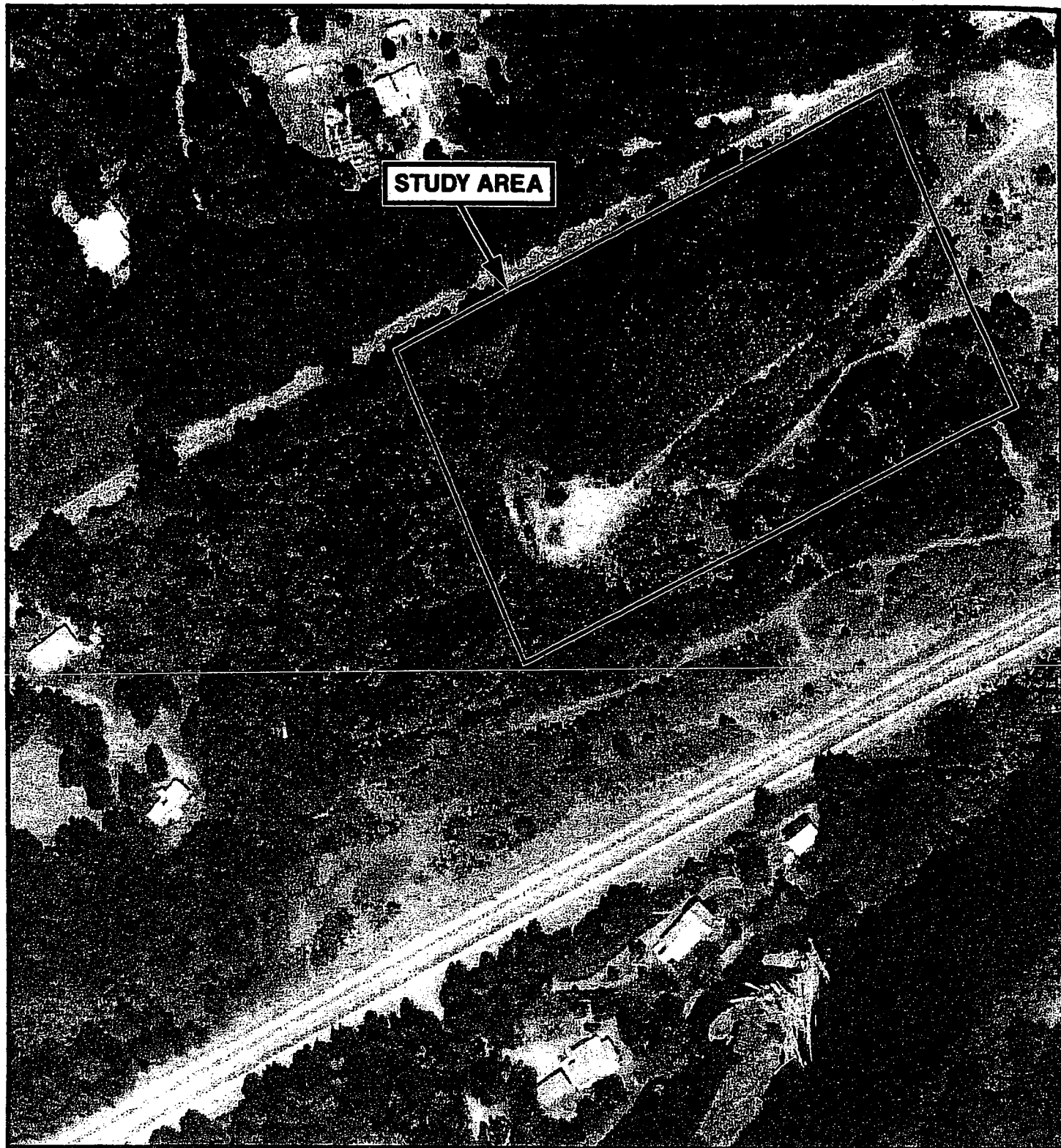
**FIGURE 8: 1991 Aerial Photo**  
Scale undetermined



N

**FIGURE 7: 1994 Aerial Photo**

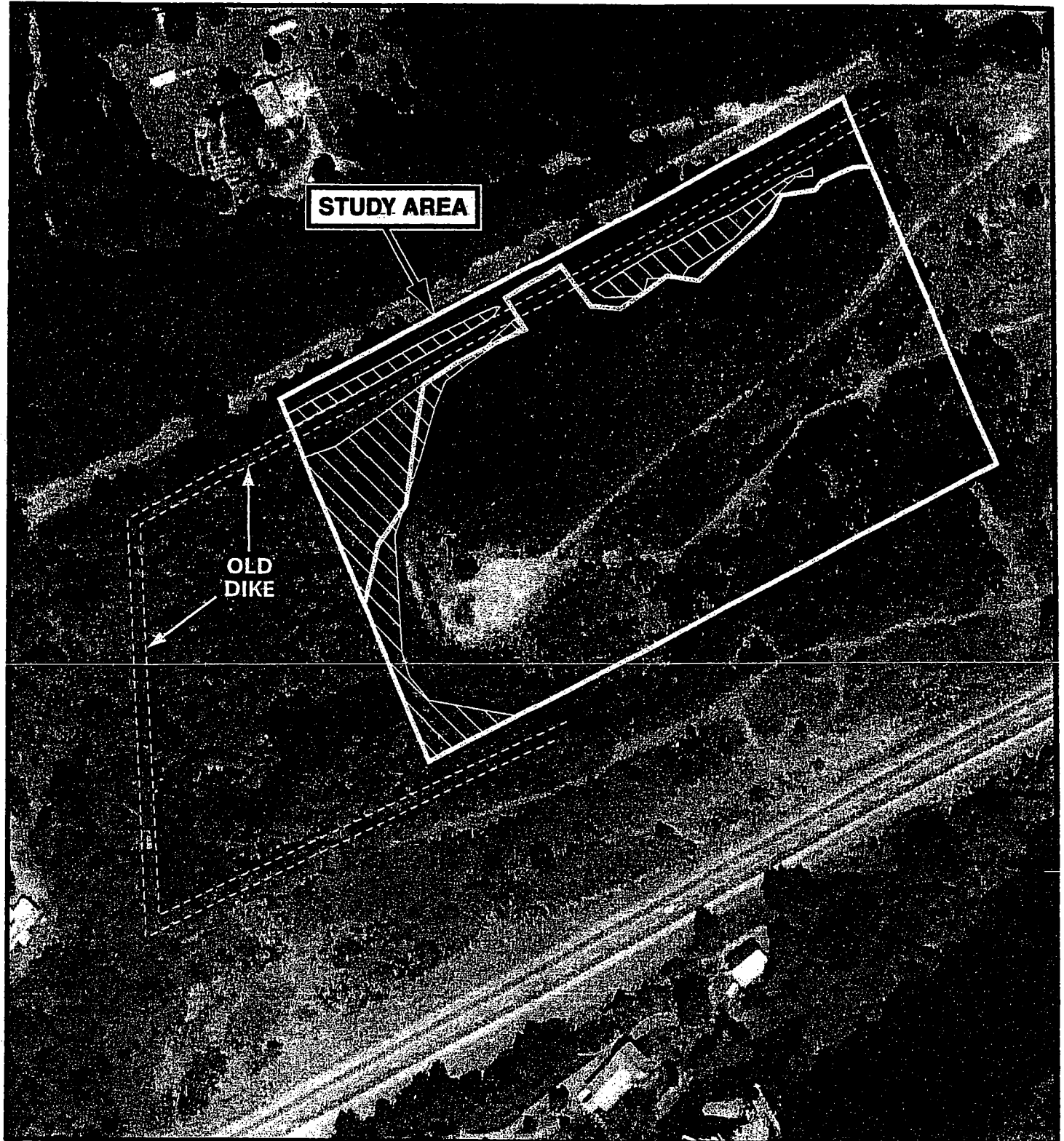
Scale undetermined



N



**FIGURE 6: 2002 Aerial Photo**

Scale undetermined



N

**LEGEND**

	Wetlands per 2006 study
	Maximum extent of old fill

**FIGURE 6A: Wetland delineation and Maximum Old Fill Line on 2002 Aerial Photo**

Scale undetermined



EXHIBIT D

## McKenzie Community Track and Field (MCTF)

### Executive Summary

The specifics of the vision, needs, beneficiaries, current status of the project, phases of the construction, fundraising and budget of the project is included in the 3-ring presentation notebook or may be obtained from MCTF (McKenzieCTF@aol.com). The consensus of visitors to the site is that the setting for the MCTF facility is the most scenic of any T&F site in the state of Oregon.

#### **Current Status:**

1. 12.87 acres of property on Blue River Drive about 1/4 mile from the McKenzie Schools has been donated by Aaron Jones to the MCTF.
2. The MCTF with the assistance of individuals, businesses and companies within the community has cleared, leveled and prepared the site.
3. Phase 1 of the project is completed (see Phases 1-6 of Construction).
4. The MCTF has currently completed Phase 2 and is preparing for Phase 3.  
**The completion of Phases 1-2 puts the project past the halfway mark and represents over \$335,000 of in-kind and cash contributions.**

#### **Current Needs: In Phase 3 we need funding to complete the track and field.**

1. Rezoning the property has begun (approximate cost \$15,000).
2. Final grading of the track and a 2" lift of asphalt ( approx. \$80,000).
3. Funding for the rubber surface and stripping of the track (approx.\$70,000).
4. Funding for the field events such as shot put, long jump, etc. (\$15,000)
5. Funding for completing the driveway and parking lot. (\$5,000)

#### **Future Needs: Phase 4 completion of the soccer fields and concessions building.**

3. Funding for two soccer fields (also a surrounding fence to keep out the elk) which will serve children grades K-5. (Approximate cost \$50,000).
4. Funding for the concession stand, restrooms and storage building. (\$67,000)

#### **Future Needs: Phases 5-6 completion of the wetlands project and native landscaping**

1. MCTF is developing the west 4-5 acres as a wetlands science laboratory and accessible educational site. Proposals are being submitted for the initial planning phase and some work is currently underway.

#### **Financial:**

1. The approximately 13 acres has a value in excess of \$122,000.
2. Community pro bono equipment donations, work, materials have exceeded \$142,000.
3. Private cash contributions are currently over \$72,000. A formal fundraising campaign has not been conducted so these donations are from word of mouth.
4. In 2006 MCTF will conduct a formal fundraising campaign. We will pursue funding from foundations, corporations, businesses and individuals.

#### **Bottom Line:**

**We need \$185,000 to complete the T&F to have it usable in 2006.** Given the "track" record of the community we believe that we will have the contributions and "sweat equity" to complete the other aspects of the T&F project.

## **McKenzie Community Track & Field and Soccer Facility**

**Dear Donor**

**The McKenzie Community Track & Field is a non-profit organization founded in 2003 to address a specific set of needs. We are classified as a non-profit 509 (a) (1) under the 501 (c)( 3) status of the IRS with an EIN of 33-1054969.**

### **FACILITY AND LOCATION**

**The T & F and soccer facility is 40 miles from the nearest comparable facility. The property is on Blue River Drive, 1/4 mile east of the McKenzie Schools and one mile west of the community of Blue River. It is located on what was the Blue River millpond that was filled with excavation material (rocks and soil) from the road cut above the Schools. The area is essentially level and is a beautiful setting for the facility. We do not have a cornfield but we do have a setting for the T & F of "Dreams". Maps and other materials are available on request.**

### **VISION:**

**To build a certified track & field and soccer facility for youth and members of the Upper McKenzie community that will provide an environment that promotes life-long wellness, fitness, discipline and self-confidence.**

### **NEEDS:**

- \* The Upper McKenzie community and the McKenzie Schools have no track & field or soccer facilities.**
- \* To accommodate the substantial number of students who participate in track & field, cross-country and soccer by providing a premier facility.**
- \* To provide an attractive and safe setting for adult fitness activities.**
- \* To increase economic opportunities by attracting schools, families and individuals to the facility for track & field events, invitational meets, soccer practices and games, training camps and fitness activities.**

### **BENEFICIARIES:**

- \* Youth from the McKenzie Schools and neighboring schools.**
- \* Youth in Oregon who participate in track & field meets, soccer games or training camps.**
- \* Adults in the community wishing to walk, jog or run on a safe and level surface.**
- \* Parents with young children wishing to exercise while observing their children in a safe setting.**
- \* Summer residents and tourists who wish an attractive and safe setting in which to walk, jog, run or exercise.**
- \* Businesses on the Upper McKenzie**
- \* McKenzie School District**

EXHIBIT E



# Oregon

Theodore Kulongoski, Governor

Department of Environmental Quality

Western Region Eugene Office

1102 Lincoln Street, Suite 210

Eugene, OR 97401

(541) 686-7838

FAX (541) 686-7551

TTY (541) 687-5603

April 19, 2004

**EXHIBIT E**

Mr. Rick Re  
Seneca Sawmill Company  
PO Box 851  
Eugene, OR 97440

Re: Seneca Jones Blue River Property  
ECSI Site # 4095

Dear Mr. Re:

In May 2003 DEQ received a complaint that property located between Blue River Road and Highway 126 in Blue River Oregon, and owned by Seneca Jones Timber Company, may be contaminated from past practices when it was a log pond for a former mill site. The complainant was concerned that a student running track might be built over contaminated soil, and students could be exposed to contaminants.

As part of our follow-up to this complaint we requested that you, as the landowner, submit the results of environmental assessments you had done in 2002 and 2003 for the former mill site. These included the "Phase I Environmental Site Assessment, Former Sawmill and Veneer Plant, 51480 Blue River Drive" dated July 2002, prepared by AMEC Earth & Environmental, Inc., and the "Phase II Environmental Site Assessment, Former Sawmill Property (West), 51480 Blue River Drive," dated December 2003, also prepared by AMEC.

Based on our review of the Phase I and Phase II documents, it appeared that the site posed no significant risk to public health, safety, welfare, and the environment. However, we were concerned that the Phase I assessment did not include historical information from persons knowledgeable about actual operations and chemicals used while the mill was operating. Specifically, we wanted to know if anti-sapstain solutions or other wood treating chemicals had been used at the mill.

To address our outstanding concern we interviewed a former employee of the mill. He indicated that the mill produced green veneer and green un-planed lumber, and that no anti-sapstain solutions or other wood treating chemicals had been used.

Based on Phase I and Phase II assessments, and the additional historical information, DEQ has determined that no further action (NFA) is required under DEQ's Environmental Cleanup Program for the western portion of the former mill site unless new information becomes available indicating additional investigation is necessary. We will update our Environmental Cleanup Site Information (ECSI) database for the site accordingly.

- Over -

Mr. Rick Re  
April 19, 2003  
Page 2

Thank you for your cooperation in this matter. If you have any questions regarding this letter, please feel free to contact me at (541) 686-7838 extension 269.

Sincerely,



Paul S. (Max) Rosenberg, R.G.  
DEQ Western Region Site Assessment Section

cc: Keith Andersen, DEQ Eugene  
Mindi English, DEQ Eugene  
George Letchworth  
Harry Bonini



EXHIBIT F

**WETLAND DELINEATION REPORT**

for the

**McKenzie Community Track and Field Project Area  
T16S, R4E, Section 29  
Blue River, Lane County, Oregon**

Prepared for  
**The McKenzie Community Track and Field Committee**



October 2006

Prepared by

**Environmental Solutions LLC  
55646 Drury Drive  
Blue River, Oregon 97413  
(541) 822-1090**

**Project Number 06-0801**



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- Figure 2: Site Location Map (Lane County Tax Map)
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References

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Glossary of Terms

**WETLAND DELINEATION / DETERMINATION REPORT COVER FORM**

This form constitutes a request for a jurisdictional determination by the Department of State Lands. It must be fully completed and signed, and attached to the front of reports submitted to the Department for review and approval.

**Wetlands Program Manager/Oregon Department of State Lands  
775 Summer Street NE, Suite 100  
Salem, OR 97301-1279**

<input checked="" type="checkbox"/> Applicant <input type="checkbox"/> Owner Name, Firm and Address: <b>McKenzie River Track and Field Committee</b> ATTN: Jeff Sherman 54800 East King Road, Blue River, OR 97413	Business phone # <b>541-822-3451</b> Home phone # (optional) FAX # E-mail:
<input type="checkbox"/> Authorized Legal Agent, Name and Address:	Business phone # FAX # E-mail:
I either own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification to the primary contact. Typed/Printed Name: <u>Jeffrey R. Sherman</u> Signature: <u>Jeffrey R. Sherman</u> Date: <u>10-8-06</u> Special instructions regarding site access:	

**Project and Site Information** (for latitude & longitude, use centroid of site or start & end points of linear project)

Project Name: <b>McKenzie River Track and Field project</b>	Latitude: <b>44deg 09'14"N</b>	Longitude: <b>123 deg 21'21"W</b>
Proposed Use: <b>school track, field facilities including shot put area, long jump, jogging trail</b>	Tax Map # <b>16-45-29</b>	
Project Street Address (or other descriptive location): <b>south adjacent to Blue River Drive, approximately 1/2 mile from west intersection with Highway 126</b>	Township <b>16S</b> Range <b>4E</b> Section <b>29</b> QQ <b>20</b>	
	Tax Lot (s) <b>1300</b>	
City: <b>Blue River</b> County: <b>Lane</b>	Waterway: <b>wetland</b>	River Mile: <b>not applicable</b>
	NWI Quad(s): <b>Blue River</b>	

**Wetland Delineation Information**

Wetland Consultant Name, Firm and Address: <b>Environmental Solutions LLC; ATTN: Nancy Holzhauser</b> 55646 Drury Drive Blue River, OR 97413	Phone # <b>541-822-1090</b> FAX # <b>541-822-1053</b> E-mail address: <b>nholz@envsol.net</b>
The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge.	
Consultant Signature: <u>Nancy Holzhauser</u>	Date: <u>10.9.06</u>
Primary Contact for report review and site access is <input checked="" type="checkbox"/> Consultant <input type="checkbox"/> Applicant/Owner <input type="checkbox"/> Authorized Agent	
Wetland/Waters Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Total Wetland Acreage: <b>0.78 ac and 0.04 ac WOS in 7-ac study area</b>	

**Delineation Purpose:**

<input checked="" type="checkbox"/> R-F permit application submitted with delineation <input type="checkbox"/> Mitigation bank site <input type="checkbox"/> Industrial Land Certification Program site <input type="checkbox"/> R-F application will be submitted within 90 days	<input type="checkbox"/> Sale, purchase, lease etc. <input type="checkbox"/> Partition, re-plat, lot line adjustment <input type="checkbox"/> Habitat restoration project <input type="checkbox"/> Other:
<b>Other Information:</b>	
Has previous delineation/application been made on parcel?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> If known, previous DSL #
Does LWI, if any, show wetland on parcel?	<input type="checkbox"/> <input type="checkbox"/> LWI wetland code:

**For Office Use Only**

DSL Reviewer: _____	Report Tier: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	DSL WD # _____
Date Delineation Received: ___/___/___	DSL Project # _____	DSL Site # _____
Scanned: <input type="checkbox"/> Final Scan: <input type="checkbox"/>	DSL WN # _____	DSL App. # _____

# WETLAND DELINEATION REPORT

## 1.0 Background Information

This Wetland Delineation report has been prepared for the McKenzie Community Track and Field Committee (MCTFC) in response to a violation notice from the Oregon Department of State Lands, Enforcement File #6353, which states that fill had been placed on wetlands without a permit. Approximately 12.16 acres (Tax Lot 1300 Tax Map 16-45-29) was donated to the McKenzie Community Track and Field Committee (MCTFC) by Seneca Timber Company in 2004. Beginning in 2003, prior to the donation from Seneca, Seneca allowed the MCTFC to begin clearing vegetation in order to determine the location of the track and associated facilities. The purpose of this study is to document wetland information and map the wetland boundaries within the study area as they were most likely present prior to 2004, based on review of historic aerial photos, field observations, and from interviews with people that have worked on the property. Fill boundaries visible in the 1980, 1981, 1991, 1994 (the last available aerial photo before the 2002 photo) and 2002 aerial photos were compared to the wetland delineation field data in 2006 in order to determine if additional fill had been placed in wetlands since the MCTFC acquired the site. The boundaries of the study area have been designed to include all area of the proposed and active development. The MCTFC has every intention of constructing the facility to focus on avoidance and minimization of wetland impacts.

## 2.0 Detailed description of the site, its landscape setting, and previous and current land uses:

*OARI41-090-0035(8a)*

The study area is approximately 7.7 acres located in the central and east portions of the 12.15-acre Tax Lot 1300. It is located on a bench approximately 2000 feet north of the McKenzie River and 30-50 feet in elevation above the river. This bench within which the study area is located is bounded to the north by Blue River Drive and to the south by the McKenzie Highway. It is within the upper McKenzie River valley, at the base of the Old Cascades.

The majority of the study area is relatively level at 990-991 feet, as it is located predominantly on fill placed in a historic log pond by Seneca Timber Company between the late 1970s and early 1990s. The fill is approximately 6-8 feet deep on the log pond. A small isolated section of unfilled log pond is present in the northeast corner of the study area, and a larger unfilled portion of the log pond is in the west and northwest portions of the study area. Portions of the 6-8-foot tall dike that enclosed the old log pond are still present on the site, which extends across the north portion of the study area. A roadside ditch along the south side of Blue River Drive is located between the dike and the road in the northwest portion of the study area. This ditch is 6 feet lower than both the dike and the road, and flows into a wetland area on the west adjacent property. The study area has a gentle southwest to south aspect. Drainage for the onsite wetlands associated with the abandoned log pond is to the southwest.

As stated previously, the study area is predominantly on fill that was placed in a decommissioned log pond in the 1970s through the early 1990s (referred to as "old fill" in this report), when it was owned by Seneca Timber Company. Based on review of available historic aerial photos, the log pond was in use between 1945 and 1980. Material from excavation of the log pond was used to construct a perimeter dike to contain water that was pumped from the McKenzie River, based on information from local residents that had worked at the mill. The west portion of the property, including the far west portion of the study area, is within the diked log pond area and was not filled. Seneca had breached the dike in the very southwest corner of the log pond in order to drain it during decommissioning. A beaver dam has since been constructed across the breach, such that the remaining portions of the unfilled log pond are inundated much of the year. Dominant vegetation within the unfilled portion of the log pond is

nonnative reed canary grass (*Phalaris arundinacea*). Old fill placed in the log pond was not extended all the way to the northern dike in the northern portion of the study area, such that the dike is still present, to the south of which remains an isolated section of the old log pond (see W1, Figure 5) and a finger of the old log pond (see W2, Figure 5). The dike itself is 6-8 feet above the bottom of the log pond, and the predominant vegetation growing on the banks and top of the dike is nonnative Armenian blackberry (*Rubus armeniacus*). Water outfalls the log pond at the beaver dam, into a small intermittent stream which runs south to southwest into a culvert under Highway 126 near the intersection with Blue River Drive, 1550 feet from the study area. From that culvert, it is ditched approximately 500 feet to a private yard. It is unknown if or how it connects to either Elk Creek or the McKenzie River from that point.

A dirt access road had been constructed by Seneca from Blue River Drive south over the dike and onto the property in order to access the site, including the study area, when it was being filled in the 1970-early 1990s. According to local residents, the source of the fill was from various US Forest Service road construction projects in the vicinity of the site. Once the fill had been placed on the property, Seneca excavated a shallow and narrow ditch, approximately 30 inches wide and 30 inches deep, across the dirt access road to prevent people from driving onto the property. Since the MCTCF acquired the property in 2004, they have installed a culvert in that ditch, added a small (approximately 6 inches) lift of gravel and a topcoat of asphalt on the access road. The MCTFC has hauled rock onto the site to spread for a regulation-sized oval track across the majority of the fill on the study area, and a 10,000- square foot gravel parking area in the west portion of the study area, all sited on top of the old fill. They have also constructed a 19-foot length of trail that connects the dike to the old fill in the northwest portion of the study area (between SPs 7 and 8). Based on information from the wetland study, it appears that this section of trail was constructed in wetlands while the road upgrade, including the culvert, was constructed in uplands (see SPs 1 and 5).

Based on review of the historic aerial photos dating back to 1936 (Figures 6-16), the study area and vicinity were cleared as an agricultural field from before 1936, the date of the earliest available aerial photo, through 1945. The 1952-1972 photos show the entire study area and vicinity as an excavated log pond surrounded by a dike. The 1972 photo also shows the McKenzie Highway in the process of construction to the south of the study area and vicinity. The 1981 photo shows the log pond drained and placement of fill in the east half of the pond. The 1981 photo shows an extension of the fill across much of the southwest portion of the log pond, with a visible ponded area in that corner. Woody vegetation is visible in the unfilled west portion of log pond. The 1994 photo shows a larger area of fill of which the size and shape appears unchanged in the later 2002 photo. The 1994 and 2002 photos show much of the log pond and filled areas vegetated. The dike is still visible in the 2002 photo around most of the site. Present use on the land adjacent to the study area to the west is single family residential. Blue River Drive is north adjacent to the study area, and vacant land owned by Seneca Timber Company is to the south and east. The McKenzie Highway and McKenzie River are south of the study area by approximately 1500-2000 feet.

### Vegetation

The majority of unfilled portions of the log pond are vegetated with reed canary grass (*Phalaris arundinacea*: FACW). An isolated section of the old log pond between the fill and the dike in the northeast corner of the site is vegetated with native obtuse spikerush (*Eleocharis obtusa*: OBL), cattail (*Typha latifolia*: OBL), simple-stem burreed (*Sparganium emersum*: OBL), false loosestrife (*Ludwigia palustris*: OBL), and leafy beggarstick (*Bidens frondosa*: FACW). A fringe of Hooker's willow (*Salix hookeriana*: FACW+) and cottonwood (*Populus balsamifera*: FAC) and Oregon ash (*Fraxinus latifolia*:

FACW) saplings are growing around the east edge of the log pond at the old fill boundary near the west boundary of the study area.

The dike within the study area is vegetated with reed canary grass along the bottom 1-2 feet of its bank adjacent to the unfilled portions of the log pond, with Armenian blackberry (*Rubus armeniacus*: FACU) the predominant vegetation across the remainder of the dike banks and across the top of the dike. Rows of Douglas-fir (*Pseudotsuga menziesii*: FACU) are growing along the dike in the northwest portion of the study area. The old fill within the study area is vegetated with Scot's broom (*Cytisus scoparius*: UPL), Armenian blackberry, and cottonwood seedlings. The bottom of the east section of roadside ditch south of Blue River Drive is vegetated with hairy willowherb (*Epilobium ciliatum*: FACW); however the majority of the ditch is vegetated with Armenian blackberry.

### Soils

The site is mapped on sheet #51 of the Lane County Soil Survey with a single soil type: #37C Cupola cobbly loam, which is not listed as a hydric soil in the Lane County Hydric Soil List (refer to Figure 4). For a description of Cupola cobbly loam, refer to the Supplemental Information section of this report.

Soils observed in the abandoned and unfilled portion of the log pond were a silt or silty clay loam with hydric soil indicators including a chroma of 2 with mottling in the top 10 inches of the profile. Upland soils observed in the perimeter dike and fill for the east half of the log pond were a gravelly silty clay loam or clay, consistent with fill material. Hydric soil indicators observed in the bottom 1-foot elevation of the dike within the study area included mottling in the top 10 inches. The remainder of these areas did not exhibit hydric soil characteristics. Soils in the roadside ditch to the north of the northern dike in the northwest portion of the site were a silty clay loam with mottling at 8-12 inches, and therefore met the hydric soil criteria.

Several areas in the old fill along the log pond in the northeast portion of the site, including the road crossing, were vegetated with facultative wetland species such as reed canary grass (FACW) or facultative species such as colonial bentgrass (*Agrostis tenuis*: FAC) however the soils did not exhibit hydric soil characteristics (see SP1 in fill for the road crossing, SP2 to the east of the road crossing, SP4 to the north of the dike and east of the road crossing, SP5-7, 9, and 10 to the east and west of the road crossing). These sample plots were located in the fill associated with the dike and the old fill placed on the site during Seneca's ownership, and appear to be areas where the reed canary grass or colonial bentgrass became established because of a low water table, extending up to 12 inches or so from the surface, that could still be reached by the roots of these opportunistic plant species.

### Hydrology

The only direct indicators of wetland hydrology observed during the field visits included inundation in a small deeper section of the unfilled portion of the log pond in the very northeast corner of the site. Indirect indicators of wetland hydrology observed in the study area included oxidized rhizospheres in the top 12 inches of the surface.

### **3.0 Description of any wetlands, including whether or not they extend offsite, and the characteristics of the wetland/non-wetland boundaries on the site, and methods and rationale used to determine the boundaries of any wetlands on the site: OAR141-090-0035(8b,e)**

W1: Approximately 0.14 of wetlands in the northeast corner of the study area, supported by SP3. Dominant vegetation is reed canary grass, simple-stem burreed, cattail, false loosestrife, and obtuse spikerush. Soils are a silty clay loam over clay with mottling in the top 10 inches. The wetland

boundary was determined to be at the elevation where mottling was no longer observed in the soils, and keyed to a change in vegetation dominance from reed canary grass to Armenian blackberry, although in places the reed canary grass did continue further up the bank above the elevation where mottling was observed in the top 10 inches (see SP10). This wetland is in the palustrine emergent (PEM) Cowardin class. It is in the Depressional Hydrogeomorphic (HGM) class with its primary sources of hydrology from precipitation and surface runoff. This wetland is located entirely within the study area, and is bounded to the east by rock and other fill from an old road crossing, to the north by the old dike, to the south by old fill, and to the west by the old road crossing. This wetland is sloped to the east, with the deeper area near the east study area boundary.

**W2:** Approximately 0.64 acres in the west and northwest portion of the study area associated with the unfilled portion of the abandoned log pond, supported by plots 7, 8, and 13. Dominant vegetation is reed canary grass, with a narrow fringe of Hooker's willow, and Oregon ash and cottonwood saplings along the east edge of the log pond where it abuts the old fill. Soils in this wetland area were observed to be a silt or silt loam to at least 18 inches, with a chroma of two and mottling in the top 10 inches. Oxidized rhizospheres were also observed in the sample plots within this wetland area. The wetland boundary was determined to be along the old dike or old fill, at the elevation where Armenian blackberry was rooted and hydric soil indicators were no longer observed. This wetland is in the PEM Cowardin class and the Depressional HGM class with its primary sources of hydrology from precipitation and surface runoff. This wetland continues off the study area and is enclosed by the old dike for the log pond, except where it was breached and a beaver dam constructed across the breach in the southwest corner of the Tax Lot (outside of the study area).

**W3:** Approximately 0.04 acres of shallow roadside ditch in the study area, north of the log pond dike and south of Blue River Drive. It is supported by SP 11. The ditch is 6-8 feet wide across the channel bottom, with a 20-25 foot top-of-bank width. The wetland boundary and ordinary high water (OHW) elevation were determined to be one and the same, and located approximately 1 foot higher than the channel bottom, where a dominance of hairy willowherb changes to a dominance of Armenian blackberry, and at the uppermost level of erosion observed near SP 11. Soils were observed to be a gravelly silty clay loam, indicative of the old fill, with mottling at 8-12 inches. Based on the observations, the ditch appears to carry water infrequently, as most of it is covered with Armenian blackberry, both along the banks and across the bottom. The ditch begins as a recognizable feature near SP 11, and continues offsite to the west. This ditch is in PEM Cowardin class and the Riverine Flow-through HGM class with its primary hydrology source from surface runoff.

**4.0 Description, approximate year, and analysis of any site alterations that likely affected the presence, location or geographic boundaries of any waters of the state on the site (e.g., surface drainage ditches or fill material):** OAR141-090-0035(8c)

The disturbance history of the study area and surroundings is described in Section 2.0, as it is instrumental in understanding the site conditions.

**5.0 Site-specific methods used to conduct the field investigation, select sample plot locations, and make the PJDs:** OAR141-090-0035(8d)

The intent of the wetland delineation study was to determine the location of wetland boundaries prior to any site disturbance that happened during the MCTFC's ownership, in order to determine the extent of the violation. In order to make that determination, it was necessary to review historic aerial photos prior to the field visits in order to determine the maximum extent of fill placed during Seneca's ownership and before MCTFC's ownership, and compare that to present field conditions by laying down the surveyed wetland delineation boundaries on top of those aerial photos (see Figures 6A and 7A). Therefore, in

addition to having sample plots located to best represent each wetland, the adjacent non-wetland areas, and as paired upland and wetland plots for determining the location of the wetland boundary, sample plots were also sited each side of the trail fill to determine if the trail fill was placed on wetlands, and on each side of the openings for new culvert in order to determine the nature of the material under the culvert, that is, if the culvert and additional road material were placed on or in wetland or upland areas. More specific information as to the reason each individual sample plot was sited is noted in the comment section of the data sheets.

The Preliminary Jurisdictional Determinations were based on vegetation and soils information, with secondary hydrology indicators such as erosion in the roadside ditch and presence of oxidized rhizospheres in combination with hydric soil and hydrophytic vegetation boundaries in other portions of the study area because of the dry time of year that the field study was conducted, when direct hydrology indicators such as saturated soils or inundation are typically not present. Soil information was the strongest determining factor especially in the north portion of the site, where FAC and FACW plant species such as colonial bentgrass and reed canary grass were growing in areas that lacked hydric soil characteristics (see SP4 and SP10, for example).

**6.0 Explanation if significant deviation from wetlands mapped on the NWI or LWI: OARI41-090-0035(17e)**

No wetland features are mapped on the study area in the Blue River quad of the National Wetland Inventory map.

**7.0 Methods used to determine the geographic extent of other waters of the state (e.g., ordinary high water): OARI41-090-0035(8g)**

In order to determine the location of the wetland or ordinary high water elevation in the roadside ditch along the north boundary of the study area, paired sample plots were located in the ditch bottom, in an area dominated with wetland species (SP11), and up the bank to the south of that sample plot where the dominant vegetation is upland species (SP12). The ordinary high water elevation in the ditch corresponds to the elevation where wetland plant species dominance (hairy willowherb and ninebark (*Physocarpus capitatus*: FACW-)) changed to upland species dominance (nipplewort: *Lapsana communis*: UPL and Armenian blackberry), which also coincides with the uppermost elevation that some erosion was observed.

**8.0 Additional information to help establish state jurisdiction (fish presence in stream or ditch, ditch width, historical photo explanation, hydrology monitoring data explanation, data sufficient to determine whether or not an identified water area is artificially created entirely from upland, etc): OARI41-090-0035(21)**

The log pond was artificially created, however the portion that remains as a seasonally inundated wetland feature is over 1 acre in size and it is not known if it was created entirely in uplands, as wetland conditions cannot be readily discerned from the 1936 or 1945 aerial photos, prior to excavation of the log pond.

**9.0 Wetland boundary and data plot mapping method and estimated accuracy: OARI41-090-0035(8f)**

Sample plots and wetland boundaries were mapped using a hand-held GPS unit keyed to the landmarks on the most recent aerial photo, along with a tape and compass to confirm wetland sample point measurements, with an estimated accuracy of 15 feet.

**10.0 Date(s) of field investigation: OARI41-090-0035(8h)**

August 18 and October 2, 2006.

**11.0 Precipitation on the day of and immediately preceding (approx. 1 to 2 weeks) the date(s) of the field investigation(s) and percent of normal rainfall for the water year to date:** OAR141-090-0035(B1)  
August 18, 2006: Based on information from the National Weather Service, precipitation month-to-date was at 0% of normal, at 0 inches compared to normal month-to date of 0.49 inches; precipitation since October 1, 2005 (beginning of rainy season) was at 92% of normal, with 44.98 inches of rainfall compared to normal for the season of 48.86 inches, and precipitation year-to-date was at 91% of normal, with 26.14 inches compared to normal of 28.78 inches. It had rained 0 of the 14 days prior to the field visit, with the last rainfall prior to the field visit in July. It was sunny and hot on the day of the field visit.

October 2, 2006: Based on information from the National Weather Service, precipitation month-to-date was at 0% of normal, at 0 inches compared to normal month-to date of 0.12 inches; precipitation since October 1, 2006 (beginning of rainy season) was at 0% of normal, with 0 inches compared to normal for the season of 0.12 inches, and precipitation year-to-date was at 86% of normal, with 26.66 inches compared to normal of 30.94 inches. It had rained 4 of the 14 days prior to the field visit, with the last rainfall prior to the field visit on September 21. It was warm and sunny on the day of the field visit.

**12.0 Results and conclusions of the investigation:** OAR141-090-0035(BJ)

Based on review of available information and from observations during the field visit, it is my professional opinion that positive indicators of wetlands are present in the study area, as specified in the 1987 US Army Corps of Engineers Wetlands Delineation Manual. A total of two wetland areas and one roadside ditch that met the wetland criteria were identified in the field. These wetlands are summarized below. Comments relating to concerns in the violation notice are noted in italics.

W1: Approximately 0.14 of isolated wetlands in the northeast corner of the study area, entirely within the study area. This wetland is in the PEM Cowardin class and the Depressional HGM class with its primary sources of hydrology from precipitation and surface runoff. *Based on observations during the field study, it appears that the new culvert for the road crossing that was installed in the old road fill was not installed on wetlands but entirely on the old road crossing (see SP 1 and 5, both plots established to determine the condition of the fill material under the new culvert).*

W2: Approximately 0.64 acres in the west and northwest portion of the study area associated with the unfilled portion of the abandoned log pond. This wetland is in the PEM Cowardin class and the Depressional HGM class with its primary sources of hydrology from precipitation and surface runoff. This wetland continues off the study area and is enclosed by the old dike and a beaver dam constructed in the southwest corner of the Tax Lot (outside of the study area). *Based on observations during the field study, it appears that as portion of the 19-foot long section of trail that connects the dike to the old fill in the northwest portion of the study area was placed on wetlands ( a total of 0.005 acres and 37 cubic yards of wetland impact).*

W3: Approximately 0.04 acres of shallow roadside ditch along Blue River Drive in the northwest portion of the study area, north of the log pond dike. The ditch is 6-8 feet wide across the channel bottom, with a 20-25 foot top-of-bank width. The wetland boundary and ordinary high water (OHW) elevation were determined to be one and the same, and located approximately 1 foot higher than the channel bottom. This ditch is in PEM Cowardin class and the Riverine Flow-through HGM class with its primary hydrology source from surface runoff.

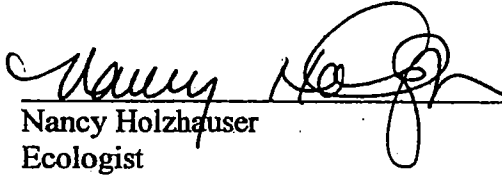
*In comparing the fill boundaries on the past aerial photos to this 2006 wetland delineation, which had the fill as its south and east boundaries, it appears that the only additional placement of fill on wetlands*



since 2004, when the MCTFC acquired the property, occurred over a 10-foot section associated with the jogging trail in the northwest corner of the study area.

**13.0 Required Disclaimer:**

“This report documents the investigation, best professional judgment and conclusions of the investigator. It is correct and complete to the best of my knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and used at your own risk unless it has been reviewed and approved in writing by the Oregon Department of State Lands in accordance with OAR 141-090-0005 through 141-090-0055.” Additionally, this report may need to be reviewed and approved in writing by the US Army Corps of Engineers and a Removal/Fill Permit may be required from the Oregon Department of State Lands and the US Army Corps of Engineers prior to conducting any activity that impacts wetlands present in the project area.

  
\_\_\_\_\_  
Nancy Holzhauser  
Ecologist

10.9.06  
Date

# WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 8/18/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. 1/4 mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Phalaris arundinacea/Rubus armeniacus*                      Plot #: 1  
 Plot Location: 12" east of culvert across entrance driveway  
 Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Historic fill in excavated log pond  
 Recent weather: Rained 0 of past 14 days, last rain over 18 days ago. Precip mo-to-date: 0% normal (0", normal 0.49"); precip YTD 91% normal (26.14", normal 28.78"). Sunny and hot on day of field visit.

## VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Phalaris arundinacea</i> *	H	45	FACW				
<i>Rubus armeniacus</i> *	SS	5	FACU				
<i>Pseudotsuga menziesii</i> *	T	5	FACU				
<i>Bare</i>		45					

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 5 (D≥ 1%); Shrub total cover: 5% (D≥ 1%); Herb total cover: 45% (D≥ 9%)  
 Percent of dominant species that are OBL, FACW, FAC+, and FAC: 1/3 = 33%  
 Criteria met? No                      Remarks:

## SOILS

Map Unit Name:#37C: Cupola cobbly loam                      Drainage class: well-drained  
 Taxonomy: medial skeletal mesic endic dystrandepts                      On Hydric Soil List? No  
 Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-8"	10YR 2/2			SiCL, dry, granular
8-16"	10YR 3/3			Clay fill, dry, blockier

\*abundance/size/contrast/color/location (matrix or pores/peds)  
 Histosol                       Gleyed                       Organic streaking (sandy soils)  
 Histic epipedon                       Redox features w/in top 10"                       Organic pan (sandy soils)  
 Sulfidic odor                       Concretions/Nodules                       Listed on Hydric Soil List  
 Reducing conditions                       High org. content in sandy soils                       Others: \_\_\_\_\_  
 Criteria Met? No                      Remarks:

## HYDROLOGY

Recorded data available:     Aerial photos     Stream gauge     Other  
 No recorded data available

Field observations:  
 Depth of surface water: None    Depth to free water in pit: None to 16"    Depth to saturated soil: None to 16"

Wetland hydrology indicators:  
**Primary indicators:**  
 inundated                       saturated in upper 12"  
 water marks                       drift lines  
 sediment deposits                       drainage patterns  
**Secondary indicators (2 or more required):**  
 oxidized root channels in upper 12"  
 water-stained leaves  
 local soil survey data  
 FAC-neutral test \_\_\_\_\_  
 other: \_\_\_\_\_  
 Criteria Met? No                      Remarks:

Determination: **NO** Wetland  
 Comments: This plot established to determine if the recently installed culvert for the road crossing was placed on wetland or upland soils; based on this data, it appears that the material under the culvert is historic fill from when the log pond was partially filled by Seneca Timber Company in the 1980s.

## WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 8/18/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. 1/4 mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Agrostis tenuis/Rubus armeniacus*                      Plot #: 2  
 Plot Location: 12' east of SP1

Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Partially filled excavated log pond

Recent weather: Rained 0 of past 14 days, last rain over 18 days ago. Precip mo-to-date: 0% normal (0", normal 0.49"); precip YTD 91% normal (26.14", normal 28.78"). Sunny and hot on day of field visit.

### VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Agrostis tenuis</i> *	H	70	FAC	<i>Pseudotsuga menziesii</i> *	T	5	FACU
<i>Trifolium repens</i> *	H	25	FAC				
<i>Dipsacus sylvestris</i>	H	5	FAC				
<i>Rubus armeniacus</i> *	SS	5	FACU				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 5 (D<sub>≥</sub> 1%); Shrub total cover: 5% (D<sub>≥</sub> 1%); Herb total cover: 100% (D<sub>≥</sub> 20%)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: 2/4 = 50%

Criteria met? Yes- marginal (see remarks)                      Remarks: Shrub and tree layers are minimal cover, therefore if these two layers are not considered, percent dominant wetland species would be 2/2 or 100%.

### SOILS

Map Unit Name: #37C: Cupola cobbly loam  
 Taxonomy: medial skeletal mesic endic dystrandepts  
 Confirmed mapped soil type?

Drainage class: well-drained  
 On Hydric Soil List? No

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-4"	10YR 2/2			SiCL, dry, granular
4-16"	7.5YR 3/3			Clay fill, dry, blockier
16-18"	7.5YR 2.5/3	CCD 5YR 4/6		CL, blocky, dry

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                           | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input type="checkbox"/> Redox features w/in top 10"      | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules              | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils | <input type="checkbox"/> Others: _____                   |

Criteria Met? No                      Remarks:

### HYDROLOGY

Recorded data available:     Aerial photos     Stream gauge     Other  
 No recorded data available

#### Field observations:

Depth of surface water: None    Depth to free water in pit: None to 18"    Depth to saturated soil: None to 18"

#### Wetland hydrology indicators:

##### Primary indicators:

- inundated
- saturated in upper 12"
- water marks
- drift lines
- sediment deposits
- drainage patterns

Criteria Met? No                      Remarks:

##### Secondary indicators (2 or more required):

- oxidized root channels in upper 12"
- water-stained leaves
- local soil survey data
- FAC-neutral test \_\_\_\_\_
- other: \_\_\_\_\_

Determination: NO Wetland

Comments: This plot established along transect moving east from road crossing, in order to determine wetland boundary- it is paired to SP3 to determine wetland boundary location, with this information used in flagging the wetland boundary in the portion of the partially filled log pond east of the road crossing. Although wetland vegetation is predominant, soils and hydrology criteria are not met. This plot is 3 feet west of wetland boundary.

# WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 8/18/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. ¼ mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Phalaris arundinacea/Rubus armeniacus*                      Plot #: 3  
 Plot Location: 14' east of SP2

Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Partially filled excavated log pond

Recent weather: Rained 0 of past 14 days, last rain over 18 days ago. Precip mo-to-date: 0% normal (0", normal 0.49"); precip YTD 91% normal (26.14", normal 28.78"). Sunny and hot on day of field visit.

## VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Phalaris arundinacea</i> *	H	35	FACW	<i>Rubus armeniacus</i> *	SS	10	FACU
<i>Eleocharis obtusa</i> *	H	15	OBL	<i>Bare</i>		25	
<i>Ludwigia palustris</i> *	H	15	OBL				
<i>Bidens frondosa</i>	H	T	FACW				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0 (D ≥ 0%); Shrub total cover: 10% (D ≥ 2%); Herb total cover: 65% (D ≥ 13 %)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: ¾ = 75%

Criteria met? Yes                      Remarks:

## SOILS

Map Unit Name: #37C: Cupola cobbly loam                      Drainage class: well-drained

Taxonomy: medial skeletal mesic endic dystrandeps                      On Hydric Soil List? No

Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-7"	10YR 3/2	CCD 7.5YR 4/6		SiCL, granular, damp
7-13"	10YR 2/2	CCD 7.5YR 4/6		SiCL, damp, platier
13-16"	7.5YR 3/4			C fill, blocky, damp

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                                 | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input checked="" type="checkbox"/> Redox features w/in top 10" | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules                    | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils       | <input type="checkbox"/> Others: _____                   |

Criteria Met? Yes                      Remarks:

## HYDROLOGY

Recorded data available:     Aerial photos     Stream gauge     Other

No recorded data available

Field observations:

Depth of surface water: None    Depth to free water in pit: None to 16"    Depth to saturated soil: None to 16"

Wetland hydrology indicators:

Primary indicators:

- inundated
- saturated in upper 12"
- water marks
- drift lines
- sediment deposits
- drainage patterns

Secondary indicators (2 or more required):

- oxidized root channels in upper 12"
- water-stained leaves
- local soil survey data
- FAC-neutral test \_\_\_\_\_
- other: \_\_\_\_\_

Criteria Met? Yes                      Remarks:

Determination: **YES** Wetland

Comments: This plot paired to SP2 to determine wetland boundary location. SP3 is 1.5 feet lower than SP2, and associated with wetland within excavated log pond area that was not historically filled. Wetland gradient is towards the east, with the deepest portion near the east property line. Wetland boundary determined primarily by elevation, as fill bank forms the south boundary and old log pond dike forms the north boundary for its entire length- also determined to be where vegetation changes from *Bidens* and *Phalaris* to *Acer macrophyllum* saplings, *Cytisus scoparius*, *Lolium perenne*, and *Rubus armeniacus*. This plot is 11' east of wetland boundary.

WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 8/18/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. ¼ mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Holcus lanatus/Rubus armeniacus*                      Plot #: 4  
 Plot Location: 16' east of road crossing, 34' south of Blue River Road in depression north of old log pond dike  
 Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Partially filled excavated log pond  
 Recent weather: Rained 0 of past 14 days, last rain over 18 days ago. Precip mo-to-date: 0% normal (0", normal 0.49"); precip YTD 91% normal (26.14", normal 28.78"). Sunny and hot on day of field visit.

VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Holcus lanatus</i> *	H	40	FAC	<i>Pseudotsuga menziesii</i> *	T	5	FACU
<i>Agrostis tenuis</i> *	H	35	FAC				
<i>Phalaris arundinacea</i> *	H	25	FACW				
<i>Rubus armeniacus</i> *	SS	5	FACU				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 5 (D ≥ 1%); Shrub total cover: 5% (D ≥ 1%); Herb total cover: 100% (D ≥ 20%)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: 3/5 = 60%

Criteria met? Yes                      Remarks:

SOILS

Map Unit Name: #37C: Cupola cobbly loam                      Drainage class: well-drained  
 Taxonomy: medial skeletal mesic endic dystrandepsts                      On Hydric Soil List? No  
 Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-5	10YR 2/2			SiCL, granular, dry
7-16"	10YR 3/2			Silt, granular, dry

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                           | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input type="checkbox"/> Redox features w/in top 10"      | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules              | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils | <input type="checkbox"/> Others: _____                   |

Criteria Met? No                      Remarks:

HYDROLOGY

Recorded data available:     Aerial photos     Stream gauge     Other  
 No recorded data available

Field observations:

Depth of surface water: None    Depth to free water in pit: None to 16"    Depth to saturated soil: None to 16"

Wetland hydrology indicators:

Primary indicators:

- inundated
- saturated in upper 12"
- water marks
- drift lines
- sediment deposits
- drainage patterns

Criteria Met? No                      Remarks:

Secondary indicators (2 or more required):

- oxidized root channels in upper 12"
- water-stained leaves
- local soil survey data
- FAC-neutral test \_\_\_\_\_
- other: \_\_\_\_\_

Determination: **NO** Wetland

Comments: This plot established to document conditions in depression to north of log pond dike, south of Blue River Road. Although FAC vegetation dominant, soils and hydrology criteria not met.

WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 8/18/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. ¼ mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Phalaris arundinacea/Rubus ursinus*                      Plot #: 5  
 Plot Location: 2' west of culvert outfall on west side of driveway road crossing, in bottom of depression between dike and fill

Normal Environmental Conditions? Yes

Vegetation X Soil X Hydrology significantly disturbed? Partially filled excavated log pond

Recent weather: Rained 0 of past 14 days, last rain over 18 days ago. Precip mo-to-date: 0% normal (0", normal 0.49"); precip YTD 91% normal (26.14", normal 28.78"). Sunny and hot on day of field visit.

VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Phalaris arundinacea</i> *	H	90	FACW				
<i>Rubus ursinus</i> *	SS	10	FACU+				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0 (D≥ 0%); Shrub total cover: 10% (D≥ 2%); Herb total cover: 90% (D≥ 18%)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: ½ = 50%

Criteria met? No                      Remarks:

SOILS

Map Unit Name: #37C: Cupola cobbly loam                      Drainage class: well-drained  
 Taxonomy: medial skeletal mesic endic dystrandepths                      On Hydric Soil List? No  
 Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-7"	10YR 2/2			SiL, dry, blocky, 40% gravel, pebble
7-13"	10YR 3/2			SiCL with 20% pebble, dry blocky
13-16"	10YR 3/2	FCD 7.5YR 4/6		SiCL, blocky, 20% pebble

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                           | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input type="checkbox"/> Redox features w/in top 10"      | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules              | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils | <input type="checkbox"/> Others: _____                   |

Criteria Met? No                      Remarks:

HYDROLOGY

X Recorded data available:    X Aerial photos     Stream gauge     Other  
 No recorded data available

Field observations:

Depth of surface water: None    Depth to free water in pit: None to 16"    Depth to saturated soil: None to 16"

Wetland hydrology indicators:

Primary indicators:

- inundated
- saturated in upper 12"
- water marks
- drift lines
- sediment deposits
- drainage patterns

Secondary indicators (2 or more required):

- oxidized root channels in upper 12"
- water-stained leaves
- local soil survey data
- FAC-neutral test \_\_\_\_\_
- other: \_\_\_\_\_

Criteria Met? No                      Remarks:

Determination: **NO** Wetland

Comments: This plot established to document conditions north of historic log pond fill and south of the old dike, west of the access road to determine where the wetland conditions are first encountered, traveling west from the old access road.

WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 8/18/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. 1/4 mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Phalaris arundinacea/Rubus ursinus*                      Plot #: 6  
 Plot Location: 11' east of culvert outfall on west side of driveway road crossing, in bottom of depression between dike and fill; 9' east of SP5.

Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Partially filled excavated log pond

Recent weather: Rained 0 of past 14 days, last rain over 18 days ago. Precip mo-to-date: 0% normal (0", normal 0.49"); precip YTD 91% normal (26.14", normal 28.78"). Sunny and hot on day of field visit.

VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Phalaris arundinacea</i> *	H	100	FACW				
<i>Rubus ursinus</i> *	SS	5	FACU+				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0 (D≥ 0%); Shrub total cover: 5% (D≥ 1%); Herb total cover: 100% (D≥ 20 %)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: 1/2 = 50%

Criteria met? Yes                      Remarks: If *Rubus* not counted because it is in such low percent cover, percent wetland species would be 1/1 = 100%.

SOILS

Map Unit Name: #37C: Cupola cobbly loam                      Drainage class: well-drained  
 Taxonomy: medial skeletal mesic endic dystrandeps                      On Hydric Soil List? No  
 Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-16"	7.5YR 2.5/2			SiL, dry, blocky, 20% gravel, pebble
16-18"	7.5YR 2/2	CCD 5YR 5/6		SiL with 20% pebble, dry blocky

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                           | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input type="checkbox"/> Redox features w/in top 10"      | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules              | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils | <input type="checkbox"/> Others: _____                   |

Criteria Met? No                      Remarks:

HYDROLOGY

Recorded data available:                       Aerial photos                       Stream gauge                       Other  
 No recorded data available

Field observations:

Depth of surface water: None                      Depth to free water in pit: None to 18"                      Depth to saturated soil: None to 18"

Wetland hydrology indicators:

Primary indicators:

- inundated
- saturated in upper 12"
- water marks
- drift lines
- sediment deposits
- drainage patterns

Secondary indicators (2 or more required):

- oxidized root channels in upper 12"
- water-stained leaves
- local soil survey data
- FAC-neutral test \_\_\_\_\_
- other: \_\_\_\_\_

Criteria Met? No                      Remarks:

Determination: **NO** Wetland

Comments: This plot established to document conditions traveling west along depression formed between old dike and old fill. It is paired to SP7 to determine eastern location of wetland boundary in this depressional area. SP6 is approximately 9' east of wetland boundary.

WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 8/18/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. ¼ mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Phalaris arundinacea/Rubus armeniacus*                      Plot #: 7  
 Plot Location: 3' east of culvert outfall on east side of trail crossing, in bottom of depression between dike and fill.  
 Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Partially filled excavated log pond  
 Recent weather: Rained 0 of past 14 days, last rain over 18 days ago. Precip mo-to-date: 0% normal (0", normal 0.49"); precip YTD 91% normal (26.14", normal 28.78"). Sunny and hot on day of field visit.

VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Phalaris arundinacea</i> *	H	50	FACW	<i>Cirsium arvense</i>	H	T	UPL
<i>Agrostis tenuis</i> *	H	40	FAC	<i>Lolium perenne</i>	H	T	UPL
<i>Trifolium repens</i>	H	10	FAC	<i>Bidens frondosa</i>	H	T	FACW
<i>Rubus armeniacus</i> *	SS	5	FACU				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0% (D≥ 0%); Shrub total cover: 5% (D≥ 1); Herb total cover: 100% (D≥ 20%)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: 2/3 = 66%

Criteria met? Yes                      Remarks:

SOILS

Map Unit Name: #37C: Cupola.cobbly loam                      Drainage class: well-drained  
 Taxonomy: medial skeletal mesic endic dystrandepts                      On Hydric Soil List? No  
 Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-16"	10YR 3/2	CCD 7.5YR 3/4		SiL, dry, granular to blocky

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                                 | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input checked="" type="checkbox"/> Redox features w/in top 10" | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules                    | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils       | <input type="checkbox"/> Others: _____                   |

Criteria Met? Yes                      Remarks:

HYDROLOGY

Recorded data available:     Aerial photos     Stream gauge     Other  
 No recorded data available

Field observations:

Depth of surface water: None    Depth to free water in pit: None to 18"    Depth to saturated soil: None to 18"

Wetland hydrology indicators:

- |   |   |
|---|---|
| <u>Primary indicators:</u>                            | <u>Secondary indicators (2 or more required):</u>                       |
| <input type="checkbox"/> inundated                    | <input checked="" type="checkbox"/> oxidized root channels in upper 12" |
| <input type="checkbox"/> saturated in upper 12"       | <input type="checkbox"/> water-stained leaves                           |
| <input type="checkbox"/> water marks                  | <input type="checkbox"/> local soil survey data                         |
| <input type="checkbox"/> drift lines                  | <input type="checkbox"/> FAC-neutral test _____                         |
| <input type="checkbox"/> sediment deposits            | <input type="checkbox"/> other: _____                                   |
| <input checked="" type="checkbox"/> drainage patterns |   |

Criteria Met? Yes                      Remarks:

Determination: YES Wetland

Comments: This plot paired to SP6 to determine location of wetland boundary within depression north of old fill and south of old dike. Wetland boundary determined primarily by soils and hydrology information (oxidized rhizospheres), as *Phalaris* is growing throughout the depression and up the bank a ways- based on observations in many other sites, *Phalaris* is well adapted to growing conditions that include upland banks adjacent to wetland areas, as its roots can be 3-6 feet deep, and is therefore not always a reliable wetland indicator in transitional upland sites.



WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 8/18/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. 1/4 mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Phalaris arundinacea/Rubus armeniacus*                      Plot #: 8

Plot Location: 2' west of culvert outfall on west side of trail crossing, in bottom of depression between dike and fill.  
 Normal Environmental Conditions? Yes

Vegetation X Soil X Hydrology significantly disturbed? Partially filled excavated log pond  
 Recent weather: Rained 0 of past 14 days, last rain over 18 days ago. Precip mo-to-date: 0% normal (0", normal 0.49"); precip YTD 91% normal (26.14", normal 28.78"). Sunny and hot on day of field visit.

VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Phalaris arundinacea</i> *	H	30	FACW	<i>Rubus armeniacus</i> *	SS	10	FACU
<i>Agrostis tenuis</i> *	H	30	FAC	<i>Lactuca muralis</i>	H	T	UPL
<i>Trifolium repens</i> *	H	20	FAC	<i>Daucus carota</i>	H	T	UPL
<i>Lolium perenne</i> *	H	20	UPL				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0% (D≥ 0%); Shrub total cover: 10% (D≥ 2%); Herb total cover: 100% (D≥ 20 %)  
 Percent of dominant species that are OBL, FACW, FAC+, and FAC: 3/5 = 60%  
 Criteria met? Yes                      Remarks:

SOILS

Map Unit Name: #37C: Cupola cobbly loam                      Drainage class: well-drained  
 Taxonomy: medial skeletal mesic endic dystrandepts                      On Hydric Soil List? No  
 Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-11"	10YR 2/2	CCD 7.5YR 4/ 4		SiL, dry, granular to platy
11-18"	10YR 4/2	CCD 7.5YR 3/ 4		CL, dry, platy

\*abundance/size/contrast/color/location (matrix or pores/peds)  
 Histosol                       Gleyed                       Organic streaking (sandy soils)  
 Histic epipedon                       Redox features w/in top 10"                       Organic pan (sandy soils)  
 Sulfidic odor                       Concretions/Nodules                       Listed on Hydric Soil List  
 Reducing conditions                       High org. content in sandy soils                       Others: \_\_\_\_\_

Criteria Met? Yes                      Remarks:

HYDROLOGY

Recorded data available:     Aerial photos     Stream gauge     Other  
 No recorded data available

Field observations:  
 Depth of surface water: None    Depth to free water in pit: None to 18"    Depth to saturated soil: None to 18"

Wetland hydrology indicators:

Primary indicators:                      Secondary indicators (2 or more required):  
 inundated                       oxidized root channels in upper 12"  
 saturated in upper 12"                       water-stained leaves  
 water marks                       local soil survey data  
 drift lines                       FAC-neutral test \_\_\_\_\_  
 sediment deposits                       other: \_\_\_\_\_  
 drainage patterns

Criteria Met? Yes                      Remarks:

Determination: YES Wetland  
 Comments: This plot established to describe conditions within narrow portion of excavated log pond between old fill and the dike. It is paired to SP9 to determine wetland boundary along both sides of the banks. Wetland boundary extends east through SP7, therefore 19-foot wide trail fill was placed in wetland area.

WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 8/18/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. ¼ mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Phalaris arundinacea*/*Populus balsamifera*                      Plot #: 9  
 Plot Location: 4' north of SP8, approximately 2' up on dike bank.

Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Partially filled excavated log pond

Recent weather: Rained 0 of past 14 days, last rain over 18 days ago. Precip mo-to-date: 0% normal (0", normal 0.49"); precip YTD 91% normal (26.14", normal 28.78"). Sunny and hot on day of field visit.

VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Phalaris arundinacea</i> *	H	100	FACW				
<i>Populus balsamifera</i> *	SS	10	FAC				
<i>Rubus ursinus</i> *	SS	5	FACU+				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0% (D≥ 0%); Shrub total cover: 10% (D≥ 2%); Herb total cover: 100% (D≥ 20 %)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: 2/3 = 66%

Criteria met? Yes                      Remarks:

SOILS

Map Unit Name: #37C: Cupola cobbly loam                      Drainage class: well-drained  
 Taxonomy: medial skeletal mesic endic dystrandeps                      On Hydric Soil List? No  
 Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-16"	10YR 2/2			SiCL, dry, granular to platy with 30% pebble (historic fill)

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                           | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input type="checkbox"/> Redox features w/in top 10"      | <input type="checkbox"/> Organic pan (sandy-soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules              | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils | <input type="checkbox"/> Others: _____                   |

Criteria Met? No                      Remarks:

HYDROLOGY

Recorded data available:     Aerial photos     Stream gauge     Other  
 No recorded data available

Field observations:

Depth of surface water: None    Depth to free water in pit: None to 16"    Depth to saturated soil: None to 16"

Wetland hydrology indicators:

- |   |  |
|---|--|
| <b>Primary indicators:</b>                      | <b>Secondary indicators (2 or more required):</b>            |
| <input type="checkbox"/> inundated              | <input type="checkbox"/> oxidized root channels in upper 12" |
| <input type="checkbox"/> saturated in upper 12" | <input type="checkbox"/> water-stained leaves                |
| <input type="checkbox"/> water marks            | <input type="checkbox"/> local soil survey data              |
| <input type="checkbox"/> drift lines            | <input type="checkbox"/> FAC-neutral test _____              |
| <input type="checkbox"/> sediment deposits      | <input type="checkbox"/> other: _____                        |
| <input type="checkbox"/> drainage patterns      |  |

Criteria Met? No                      Remarks:

Determination: **NO** Wetland

Comments: This plot established as pair to SP8 to determine wetland boundary along depression of old log pond between old fill and dike- wetland boundary determined to be where dominance of *Phalaris* changes to dominance of *Rubus ursinus* along both banks (north and south), and is associated with an elevation of 1.5 feet above the wetland bottom in this area.

# WETLAND DETERMINATION DATA FORM

City: Blue River      County: Lane      Date: 10/2/06      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. 1/4 mile east of McKenzie School      Contact: Jeff Sherman  
 Plant Community: *Phalaris arundinacea*/*Rubus armeniacus*      Plot #: 10  
 Plot Location: 50' ENE from SP2, approximately 2' up on dike bank  
 Normal Environmental Conditions? Yes

\_\_ Vegetation  Soil  Hydrology significantly disturbed? Partially filled and diked excavated log pond  
 Recent weather: Rained 4 of past 14 days, last rain 9/21. Precip mo-to-date: 0% normal (0", normal 0.12"); precip YTD 86% normal (26.66", normal 30.94"). Sunny and warm on day of field visit.

## VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Phalaris arundinacea</i> *	H	60	FACW	<i>Hypericum perforatum</i>	H	T	UPL
<i>Bidens frondosa</i> *	H	20	FACW				
<i>Trifolium repens</i> *	H	20	FAC				
<i>Rubus armeniacus</i> *	SS	5	FACU				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0% (D≥ 0%); Shrub total cover: 5% (D≥ 1%); Herb total cover: 100% (D≥ 20%)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: 3/4 = 75%

Criteria met? Yes      Remarks:

## SOILS

Map Unit Name: #37C: Cupola cobbly loam      Drainage class: well-drained  
 Taxonomy: medial skeletal mesic endic dystrandepts      On Hydric Soil List? No  
 Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-16"	7.5YR 4/3 and 7.5YR 3/3 mixed			SiCL, damp, granular to platy with 30% pebble (historic fill)

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                           | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input type="checkbox"/> Redox features w/in top 10"      | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules              | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils | <input type="checkbox"/> Others: _____                   |

Criteria Met? No      Remarks:

## HYDROLOGY

Recorded data available:     Aerial photos     Stream gauge     Other  
 No recorded data available

### Field observations:

Depth of surface water: None    Depth to free water in pit: None to 16"    Depth to saturated soil: None to 16"

### Wetland hydrology indicators:

#### Primary indicators:

- inundated
- saturated in upper 12"
- water marks
- drift lines
- sediment deposits
- drainage patterns

#### Secondary indicators (2 or more required):

- oxidized root channels in upper 12"
- water-stained leaves
- local soil survey data
- FAC-neutral test \_\_\_\_\_
- other: \_\_\_\_\_

Criteria Met? No      Remarks:

Determination: **NO** Wetland

Comments: This plot established as upland plot to determine elevation of wetland boundary in historic log pond between fill and dike, east of SP3. SP10 is 3 feet above bottom of wetland, and wetland boundary determined to be where dominant vegetation changes from *Phalaris* and *Bidens* to *Rubus*, which is approximately 2 feet above the bottom of the wetland here.

WETLAND DETERMINATION DATA FORM

City: Blue River County: Lane Date: 10/2/06 Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. 1/4 mile east of McKenzie School Contact: Jeff Sherman  
 Plant Community: *Epilobium ciliatum*/*Physocarpus capitatus* Plot #: 11  
 Plot Location: 40 feet west of road crossing in roadside ditch approximately 18' south of Blue River Road.

Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Excavated roadside ditch

Recent weather: Rained 4 of past 14 days, last rain 9/21. Precip mo-to-date: 0% normal (0", normal 0.12"); precip YTD 86% normal (26.66", normal 30.94"). Sunny and warm on day of field visit.

VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Epilobium ciliatum</i> *	H	65	FACW-	<i>Rosa nutkana</i>	SS	5	FAC
<i>Phalaris arundinacea</i>	H	10	FACW	<i>Hypericum perforatum</i>	H	T	UPL
<i>Physocarpus capitatus</i> *	SS	40	FACW-				
<i>Rubus armeniacus</i>	SS	5	FACU				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0% (D≥ 0%); Shrub total cover: 50% (D≥ 10%); Herb total cover: 75% (D≥ 15 %)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: 3/3 = 100%

Criteria met? Yes Remarks:

SOILS

Map Unit Name: #37C: Cupola cobbly loam

Drainage class: well-drained

Taxonomy: medial skeletal mesic endic dystrandepts

On Hydric Soil List? No

Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-8"	10YR 3/2			SiCL, dry, granular
8-12"	10YR 3/2	CCD 10YR 3/4		SiCL, dry, platy
12-16"	10YR 3/2			SiCL, granular, damp

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                                 | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input checked="" type="checkbox"/> Redox features w/in top 10" | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules                    | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils       | <input type="checkbox"/> Others: _____                   |

Criteria Met? Yes Remarks:

HYDROLOGY

Recorded data available:  Aerial photos  Stream gauge  Other  
 No recorded data available

Field observations:

Depth of surface water: None Depth to free water in pit: None to 16" Depth to saturated soil: None to 16"

Wetland hydrology indicators:

Primary indicators:

- inundated  
 saturated in upper 12"  
 water marks  
 drift lines  
 sediment deposits

Secondary indicators (2 or more required):

- oxidized root channels in upper 12"  
 water-stained leaves  
 local soil survey data  
 FAC-neutral test \_\_\_\_\_  
 other: \_\_\_\_\_

drainage patterns

Criteria Met? Yes Remarks:

Determination: YES Wetland

Comments: This plot established to document conditions in roadside ditch north of dike. Paired to SP12 to determine location of wetland boundary along ditch banks as well as to the east of this plot. The ditch slopes uphill approximately 4' east of SP11, where east wetland boundary flagged. Wetland and ordinary high water elevation are approximately 1 foot above ditch bottom, and coincide with change from wetland to upland vegetation as well as elevation to which some erosion extends, and is 6-8' wide its length through the study area, with top of bank width 25-37 feet wide for its length along Blue River Road.

WETLAND DETERMINATION DATA FORM

City: Blue River County: Lane Date: 10/2/06  
 Project Location: Blue River Drive, approx. 1/4 mile east of McKenzie School  
 Plant Community: *Lapsana communis/Rubus armeniacus*  
 Plot Location: 5' south of SP11.

Investigator: N. Holzhauser  
 Contact: Jeff Sherman  
 Plot #: 12

Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Dike fill around historic log pond.

Recent weather: Rained 4 of past 14 days, last rain 9/21. Precip mo-to-date: 0% normal (0", normal 0.12"); precip YTD 86% normal (26.66", normal 30.94"). Sunny and warm on day of field visit.

VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Lapsana communis</i> *	H	60	UPL	<i>Bare</i>		35	
<i>Rubus armeniacus</i> *	SS	5	FACU				
<i>Daucus carota</i>	H	T	UPL				
<i>Verbascum thapsus</i>	H	T	UPL				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0% (D<sub>≥</sub> 0%); Shrub total cover: 5% (D<sub>≥</sub> 1%); Herb total cover: 60% (D<sub>≥</sub> 12%)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: 0/2 = 0%

Criteria met? No Remarks:

SOILS

Map Unit Name: #37C: Cupola cobbly loam  
 Taxonomy: medial skeletal mesic endic dystrandeps  
 Confirmed mapped soil type?

Drainage class: well-drained  
 On Hydric Soil List? No

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-16"	7.5YR 3/2			SiCL, dry to damp, blocky, 50% gravel and pebble

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                           | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input type="checkbox"/> Redox features w/in top 10"      | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules              | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils | <input type="checkbox"/> Others: _____                   |

Criteria Met? No Remarks:

HYDROLOGY

Recorded data available:  Aerial photos  Stream gauge  Other  
 No recorded data available

Field observations:

Depth of surface water: None Depth to free water in pit: None to 16" Depth to saturated soil: None to 16"

Wetland hydrology indicators:

Primary indicators:

- inundated
- saturated in upper 12"
- water marks
- drift lines
- sediment deposits
- drainage patterns

Secondary indicators (2 or more required):

- oxidized root channels in upper 12"
- water-stained leaves
- local soil survey data
- FAC-neutral test \_\_\_\_\_
- other: \_\_\_\_\_

Criteria Met? No Remarks:

Determination: **NO** Wetland

Comments: This plot paired to SP11 to determine ordinary high water and wetland boundary elevations in roadside ditch, determined to be where *Rubus armeniacus* rooted and *Lapsana communis* dominance changes to *Epilobium ciliatum* dominance. Wetland boundary is approximately 1 foot above ditch bottom here.

# WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 10/2/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. ¼ mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Phalaris arundinacea/Salix hookeriana*                      Plot #: 13  
 Plot Location: 260' SW of SP 8, 6' west of edge of old fill in west portion of study area  
 Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Excavated log pond and historic fill.  
 Recent weather: Rained 4 of past 14 days, last rain 9/21. Precip mo-to-date: 0% normal (0", normal 0.12"); precip YTD 86% normal (26.66", normal 30.94"). Sunny and warm on day of field visit.

## VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Salix hookeriana</i> *	SS	10	FACW				
<i>Fraxinus latifolia</i> *	SS	5	FACW				
<i>Populus balsamifera</i> *	SS	5	FAC				
<i>Phalaris arundinacea</i> *	H	80	FACW				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0% (D≥ 0%); Shrub total cover: 20% (D≥ 4%); Herb total cover: 80% (D≥ 16%)  
 Percent of dominant species that are OBL, FACW, FAC+, and FAC: 4/4 = 100

Criteria met? Yes                      Remarks:

## SOILS

Map Unit Name: #37C: Cupola cobbly loam                      Drainage class: well-drained  
 Taxonomy: medial skeletal mesic endic dystrandepts                      On Hydric Soil List? No  
 Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-6"	10YR 2/1	CCD 7.5YR 5/8		Silt, blocky, damp
6-12"	10YR 3/2	CCD 7.5YR 4/6		Silt, blocky, damp
12-16"	10YR 2/1			SiL, blocky, damp

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                                 | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input checked="" type="checkbox"/> Redox features w/in top 10" | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules                    | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils       | <input type="checkbox"/> Others: _____                   |

Criteria Met? Yes                      Remarks:

## HYDROLOGY

Recorded data available:     Aerial photos     Stream gauge     Other  
 No recorded data available

### Field observations:

Depth of surface water: None    Depth to free water in pit: None to 16"    Depth to saturated soil: None to 16"

### Wetland hydrology indicators:

#### Primary indicators:

- inundated
- saturated in upper 12"
- water marks
- drift lines
- sediment deposits
- drainage patterns

#### Secondary indicators (2 or more required):

- oxidized root channels in upper 12"
- water-stained leaves
- local soil survey data
- FAC-neutral test \_\_\_\_\_
- other: dominance of wetland vegetation

Criteria Met? Yes                      Remarks: Used best professional judgment for wetland hydrology, based on dominance of *Phalaris* in log pond bottom and strong indicators of hydric soil.

Determination: YES Wetland

Comments: This plot paired to SP14 to determine wetland boundary around abandoned log pond. Wetland boundary determined to be where dominance of *Phalaris arundinacea* and *Salix hookeriana* changes to dominance of *Rubus ursinus*, *R. armeniacus*, and *Prunella vulgaris* (see SP 14).

WETLAND DETERMINATION DATA FORM

City: Blue River                      County: Lane                      Date: 10/2/06                      Investigator: N. Holzhauser  
 Project Location: Blue River Drive, approx. 1/4 mile east of McKenzie School                      Contact: Jeff Sherman  
 Plant Community: *Prunella vulgaris*/*Rubus armeniacus*                      Plot #: 14  
 Plot Location: 8' east of SP 13

Normal Environmental Conditions? Yes

Vegetation  Soil  Hydrology significantly disturbed? Excavated log pond and historic fill.

Recent weather: Rained 4 of past 14 days, last rain 9/21. Precip mo-to-date: 0% normal (0", normal 0.12"); precip YTD 86% normal (26.66", normal 30.94"). Sunny and warm on day of field visit.

VEGETATION

Dominant plant species*	Stratum	%cover	Status	Dominant plant species	Stratum	%cover	Status
<i>Salix hookeriana</i> *	SS	15	FACW	<i>Hypericum perforatum</i> *	H	5	UPL
<i>Rubus armeniacus</i> *	SS	30	FACU	<i>Polystichum munitim</i> *	H	5	FACU
<i>Prunella vulgaris</i> *	H	5	FACU	<i>Populus balsamifera</i>	SS	5	FAC
<i>Hypochaeris radicata</i> *	H	5	FACU				

\*Dominant species comprise over 20% absolute cover in plot. Tree total cover: 0% (D≥ 0%); Shrub total cover: 50% (D≥ 10%); Herb total cover: 20% (D≥ 4%)

Percent of dominant species that are OBL, FACW, FAC+, and FAC: 1/5 = 20%

Criteria met? No                      Remarks:

SOILS

Map Unit Name: #37C: Cupola cobbly loam                      Drainage class: well-drained  
 Taxonomy: medial skeletal mesic endic dystrandeps                      On Hydric Soil List? No  
 Confirmed mapped soil type?

Depth	Matrix color	Redox concentrations*	Redox depletions	Texture/structure
0-16"	7.5YR 3/2			CL, dry, blocky, 40% gravel, pebble

\*abundance/size/contrast/color/location (matrix or pores/peds)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol            | <input type="checkbox"/> Gleyed                                 | <input type="checkbox"/> Organic streaking (sandy soils) |
| <input type="checkbox"/> Histic epipedon     | <input checked="" type="checkbox"/> Redox features w/in top 10" | <input type="checkbox"/> Organic pan (sandy soils)       |
| <input type="checkbox"/> Sulfidic odor       | <input type="checkbox"/> Concretions/Nodules                    | <input type="checkbox"/> Listed on Hydric Soil List      |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> High org. content in sandy soils       | <input type="checkbox"/> Others: _____                   |

Criteria Met? No                      Remarks: This is all in old fill.

HYDROLOGY

Recorded data available:     Aerial photos     Stream gauge     Other  
 No recorded data available

Field observations:

Depth of surface water: None    Depth to free water in pit: None to 16"    Depth to saturated soil: None to 16"

Wetland hydrology indicators:

Primary indicators:

- inundated
- saturated in upper 12"
- water marks
- drift lines
- sediment deposits
- drainage patterns

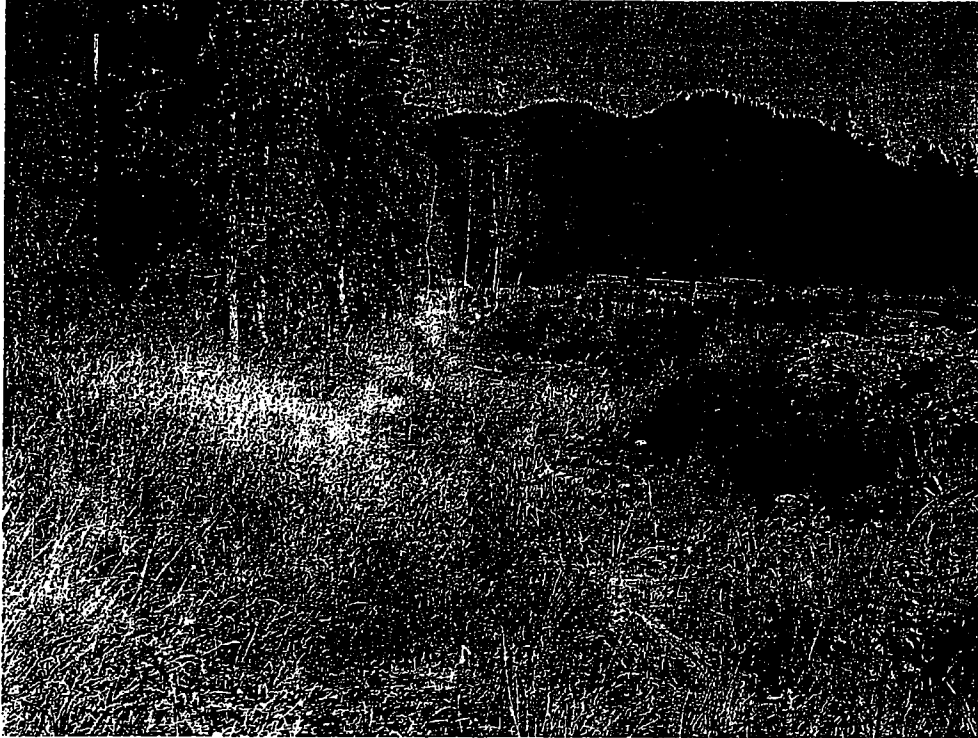
Secondary indicators (2 or more required):

- oxidized root channels in upper 12"
- water-stained leaves
- local soil survey data
- FAC-neutral test \_\_\_\_\_
- other: \_\_\_\_\_

Criteria Met? No                      Remarks:

Determination: NO Wetland

Comments: This plot paired to SP13 to determine wetland boundary around abandoned log pond. Wetland boundary determined to be where dominance of *Phalaris arundinacea* and *Salix hookeriana* changes to dominance of *Rubus ursinus*, *R. armeniacus*, *Prunella vulgaris*, and other upland herbaceous species.

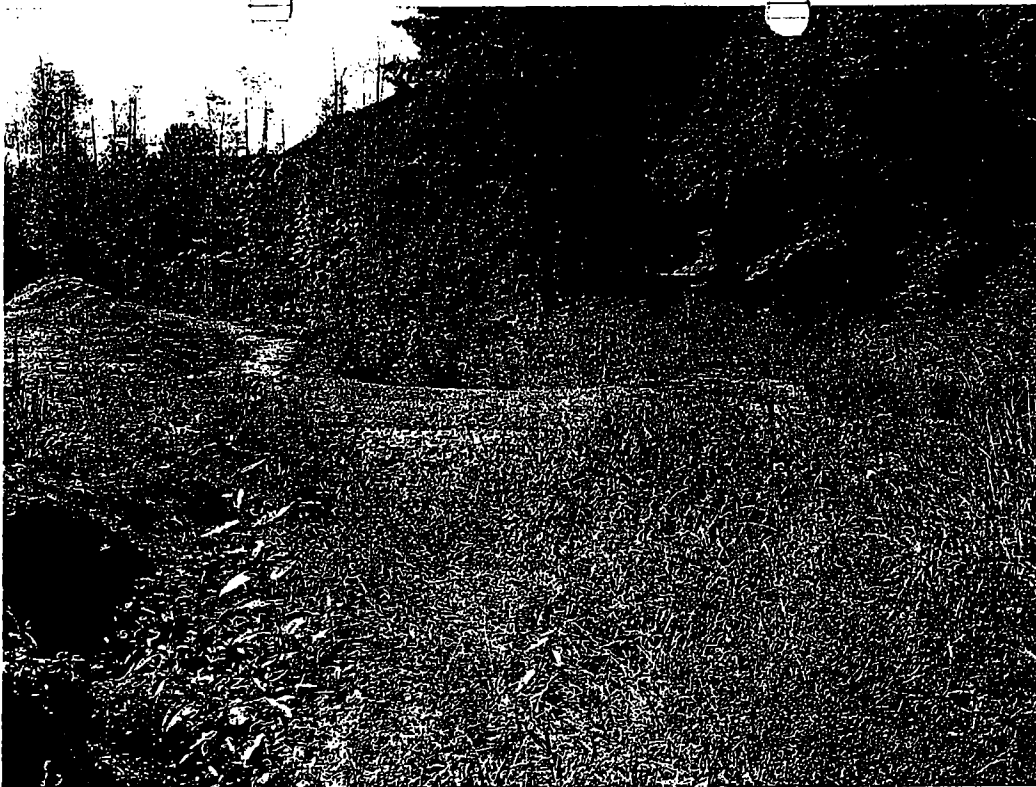


P1 looking east from old road crossing (near SP 1, 2, 3) up isolated section of old log pond that was not filled by Seneca during the 1980s. Old fill is to the right, the old dike is to the left. Pink flags in foreground are for wetland boundary, orange flags are sample plots. Unvegetated fill in middle of right side of photo was pushed onto upland bench, based on review of historic aerial photos when comparing wetland boundary location to the fill boundary on the 1994 and 2002 photos.



P2 looking east along narrow area north of the dike and east of the road crossing in the northeast portion of the site. Although dominant vegetation was colonial bentgrass, soils were not hydric (see SP4).





P3 looking west from old road crossing to new trail crossing (gravel surface and fill in middleground). Old fill is to the left, narrow finger of unfilled abandoned log pond is in middle of photo, and old dike is to the right. Note where the right side of the trail appears to end in bark; that section continues to the west along the old dike. Trail was constructed partially in the wetland.



P4 looking west from trail crossing down finger of unfilled abandoned log pond between old fill (on left) and old dike (on right). Reed canary grass is the predominant vegetation within this entire wetland area.



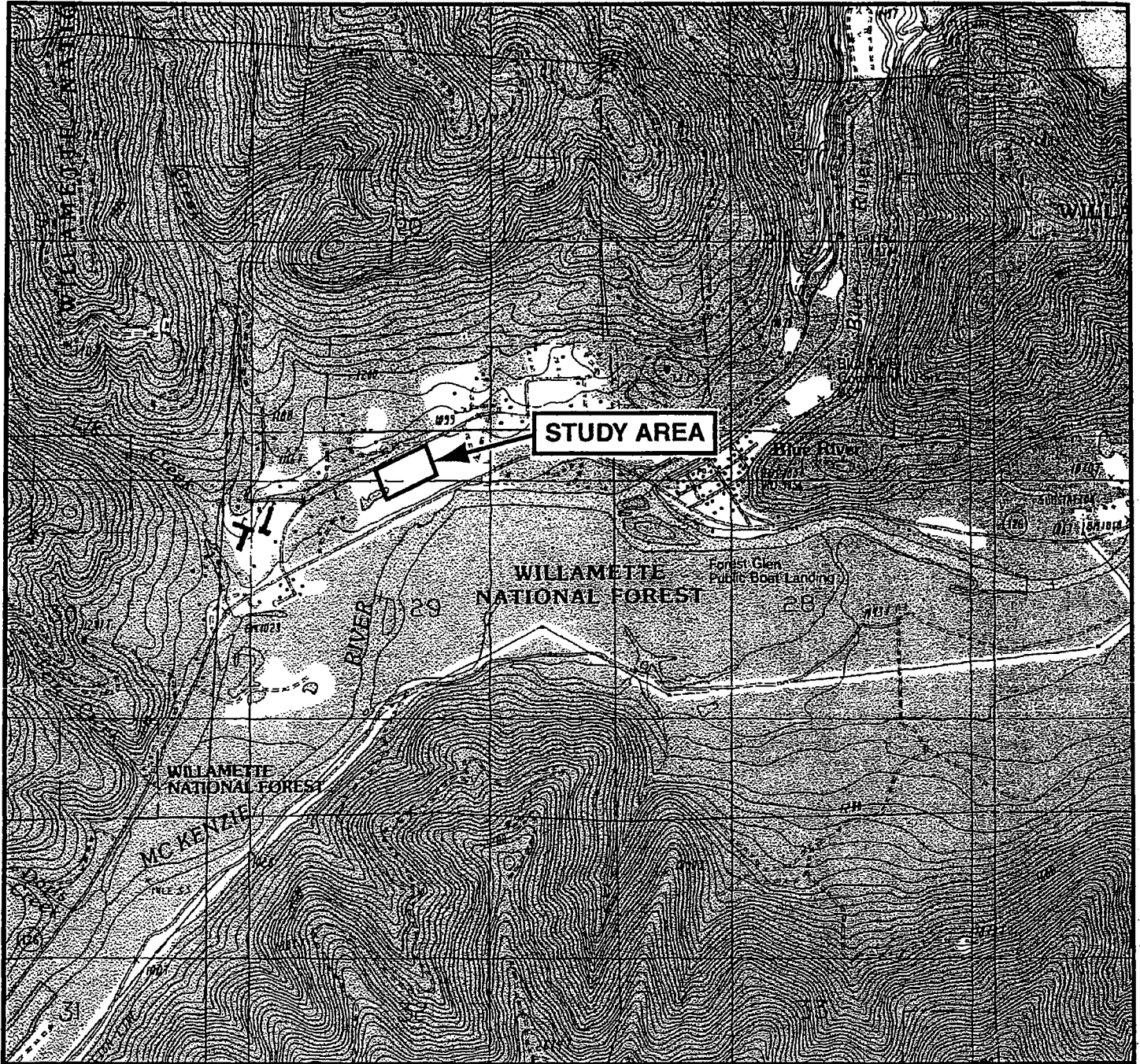
P5 looking west from near SP3 (foreground orange flag) to road crossing with new culvert and 6-inch lift of gravel on top of the old road crossing. Culvert was installed in bottom of old ditch excavated across the road crossing by Seneca prior to 2002, to prevent access onto the site. Culvert bottom is 1-1.5 feet higher than the wetland boundary. Wetland boundary for the unfilled portion of the log pond east of the old road crossing is approximately 15 feet east of the culvert, and indicated with the pink flag in the middle of the photo.



P6 looking west down roadside ditch along Blue River Road north of the old dike, in the northwest portion of the study area- majority of ditch is vegetated with Armenian blackberry. Old dike is in left side of photo.

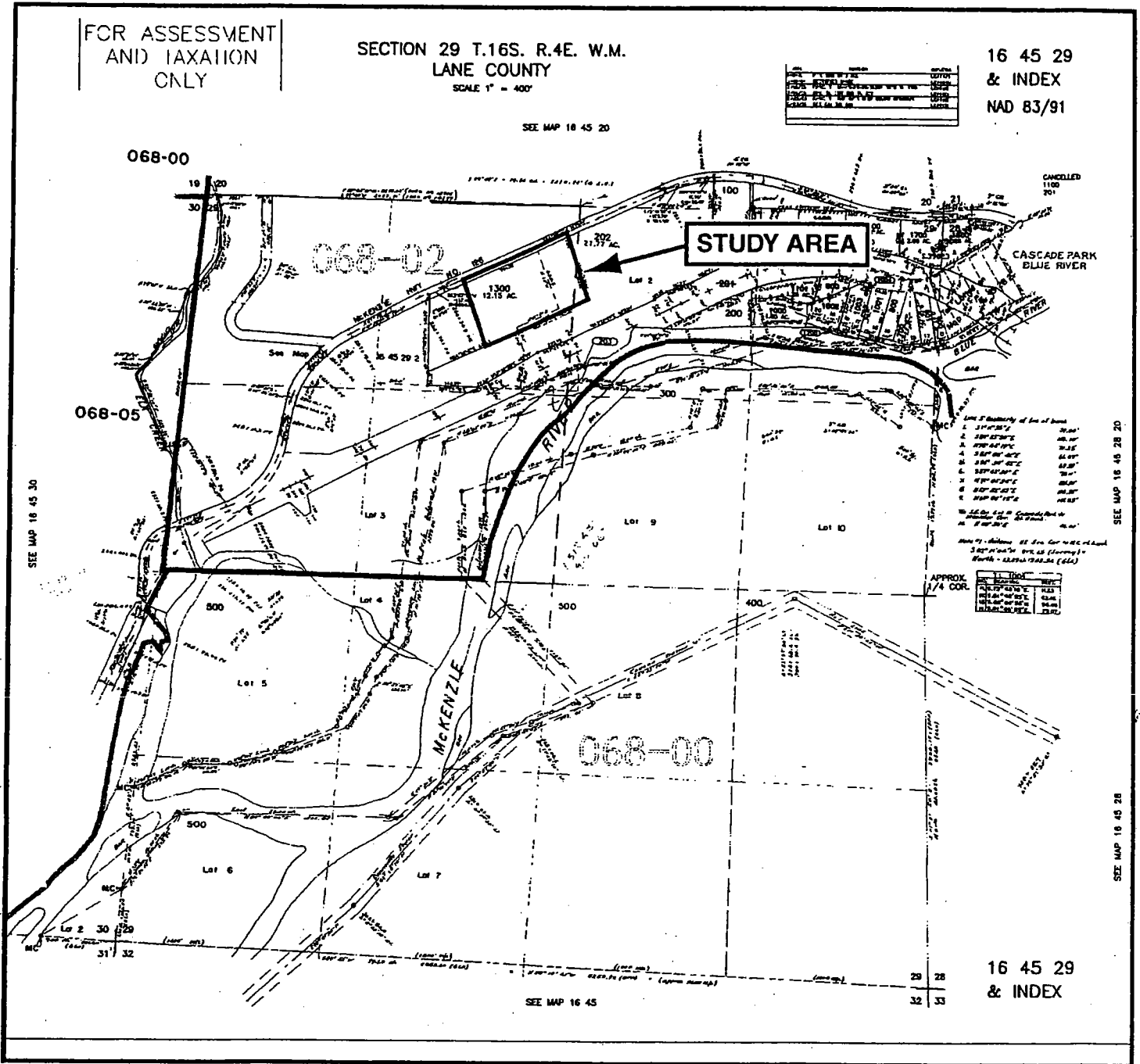


**P7 looking west from old fill near SP 14, across unfilled portion of log pond in west portion of site and study area. Majority of vegetation cover is reed canary grass, and the pond is typically 2-3 feet deep winter through spring. Old dike is barely visible in high middleground.**



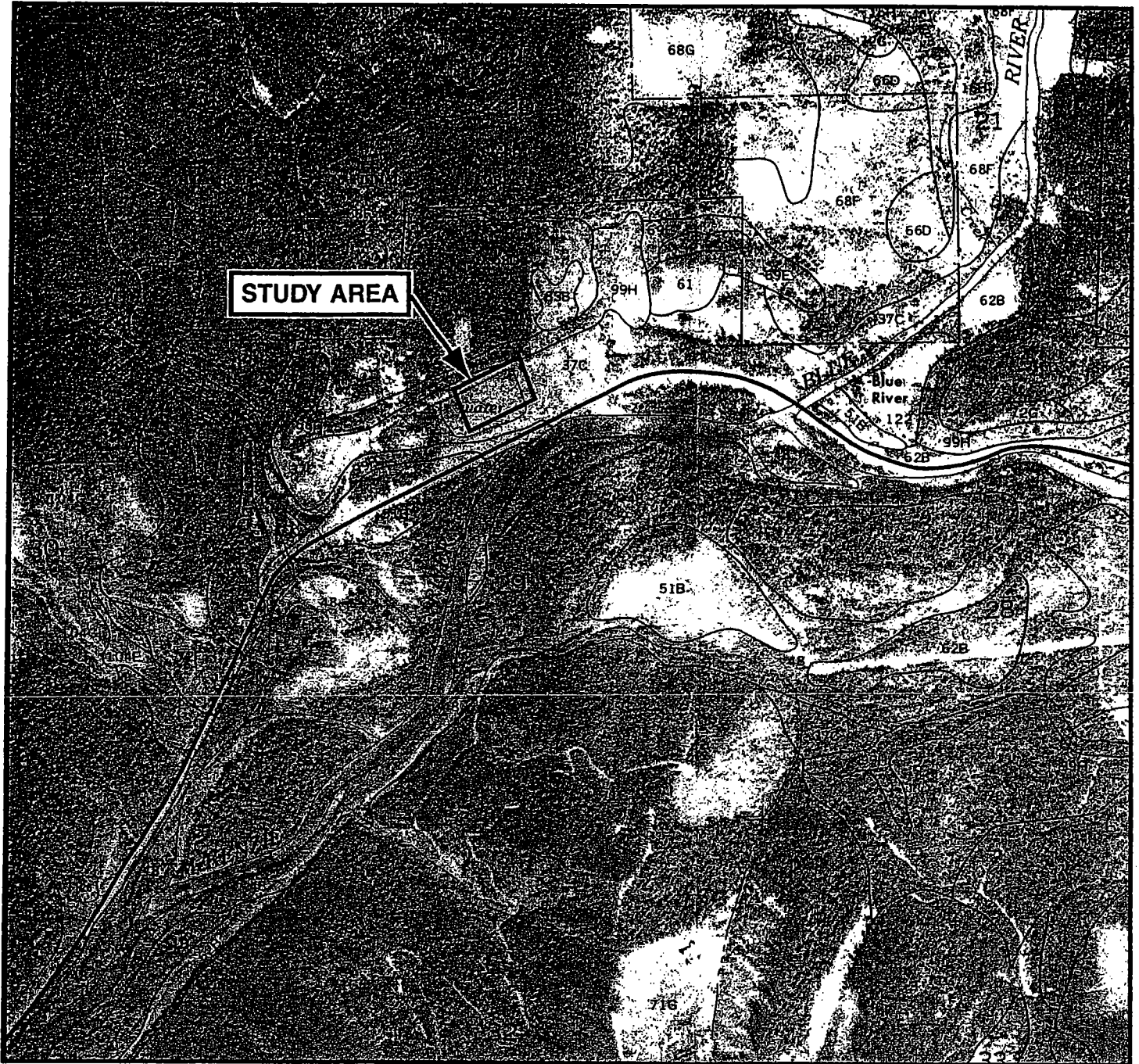
N

**FIGURE 1: Site Location Map**  
Source: Blue River USGS Quad  
Scale: 2.6" = 1 mile



**FIGURE 2: Site Location on Tax Map**  
 Source: Lane County Tax Map  
 Scale: Undetermined





N

**FIGURE 4: Soil Survey Map**

Source: Lane County Soil Survey Sheet #51  
#37C: Cupola cobbly loam, Nonhydric

Scale: 2" = 1 mile