

MR 98-99
921006

Zenger Farm and Wetland Restoration Project
Final Report

Metro Regional Parks and Greenspaces
Habitat Restoration Grant

May 27, 2000

Submitted to:
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Project Area Map
(see Appendix A)

Project Site Map
(see Appendix B)

Project Photos and Slides
(see Appendix C)

Project Description

Location: Zenger Farm and Wetland
11714 Foster Rd.
Portland, Oregon

Zenger Farm and Wetland is thirteen acre area composed of wetlands, grasslands, and a working organic farm. The land is currently owned by the City of Portland's Bureau of Environmental Services and is leased to the non profit organization Friends of Zenger Farm and Wetland (FZF). Portland State University has been involved with the farm through a senior level capstone class entitled Neighborhoods and Watersheds. Students in this class work with FZF on various community projects throughout the term. The Metro grant supported student projects in restoring a section of Zenger Farm and Wetland.

The focus of the capstone projects culminated in the enhancement of the uplands area of riparian habitat that had been overwhelmed with non native blackberry. Restoration of the area consisted of planting native vegetation to enhance wildlife and plant diversity. The project occurred in various stages over several terms with involvement of two different capstone classes. These stages were: school outreach; planning; community outreach; and planting.

The main goal of the school outreach stage was to educate and make connections with local schools/educators regarding the opportunity to work with Portland State University capstone students on the Metro grant. Efforts included mailings to schools in the Johnson Creek Watershed, and flyers posted at Portland State University's School of Education inviting educators to an informational fair at the farm. This occurred in the spring of 1999.

Although initial contacts were made and interest was shown, we did not have K-12 involvement due to the Environmental Middle Schools adoption of Oaks Bottom (instead of Zenger Farm) as their study site and the extra time and effort needed to work closely with Kelly Elementary School.

Project planning (the second stage) began during late summer 1999 with a new group of capstone students. The planning phase consisted of students researching

appropriate plants, appropriate community outreach efforts, creating a planting plan, and organizing logistics for planting day. The students worked with FZF, Bureau of Environmental Services, Walker Macy Landscape Architects, and U.S. Fish and Wildlife. The planning stage took approximately four months to complete.

The third stage, community outreach, relied on door to door leaflet hanging near the Zenger Farm neighborhood, and presentations at Portland State University classes. Initial efforts at building a web page as part of community outreach were abandoned due to cost and possible ineffectiveness in reaching local residents.

The last stage of the project was the actual planting of native vegetation. Students along with approximately ten other volunteers spent most of Saturday, March 4, 2000 planting trees, shrubs, and grasses.

Project Goals and Benefits

- Enhanced habitat for wildlife.
- Increase in plant diversity.
- Removal and reduction of invasive species.
- Hands-on educational opportunities for Portland State University students.
- Opportunities for community involvement for Portland State University students.
- Provide initial enhancement efforts at Zenger Farm.

Tasks and Timelines

(see Appendix D)

Budget

(see Appendix E)

Project Staff, Partners, and Volunteers

Stephan Gilchrist, Portland State University, Project Coordinator/Grant Manager/Capstone Instructor (fall 1999-spring 2000).

Marc Boucher-Colbert, Friends of Zenger Farm and Wetland Board Member - provided input on planning, participated in community outreach efforts.

Daniela Brod, Bureau of Environmental Services/Friends of Zenger Farm and Wetlands Board Member -project oversight, input on planning.

Elisabeth Reese, Bureau of Environmental Services/Americorps/Previous Capstone Student -liaison between capstone class and Bureau of Environmental Services, provided input on planning and planting methods.

Deb Lippoldt, Friends of Zenger Farm and Wetland Board Member -worked closely with students on developing community outreach efforts.

Shannon Tuch, Walker Macy, Landscape Architect -provided help in designing and drawing planting plan.

James Allison , Bureau of Environmental Services -provided input on plants, tubes, mouse mesh, and mulch.

Barry Messer, Portland State University, Capstone Instructor (spring 1999).

Dilafroz Williams, Portland State University, Director for the Center for Academic Excellence -prepared grant, Portland State University administration.

Friends of Zenger Farm and Wetlands Board Members (additional)

Terry Anderson

Deborah Kane

Mia Myers

Steve Johnson

Jim Sitzman

Capstone Students x 25

Planting Day Volunteers (see appendix D)

How Zenger Farm Project Relates to Greenspaces Program

The Zenger Farm habitat restoration project relates to Metro's Greenspaces program by:

Helping with restoration, protection, and management of metropolitan greenspace through the replacement of non native with native vegetation in order to create a healthy ecosystem that helps recreate the original ecology of the area;

Involving a myriad of partners and community members who, through their direct involvement in the project, helps strengthen the ethic of care for local flora and fauna.

What Worked, Didn't Work, and Other Helpful Hints

What worked:

- Involving college students in the project from beginning to end.
- Having professionals, such as a landscape architect, help with plans.
- Have close, regular communication between groups and team members.
- Role playing the planting day event as a way of planning for the day.
- Organizing planting area by zones and teams.
- Having the capstone class be a two term course.

What didn't work:

- Trying to involve K-12 schools. This was too time consuming for capstone students to do along with developing and implementing the restoration.
- Door to door flyers attracted only one neighbor to the restoration.

Helpful hints:

- Provide more structure for the students initially, e.g. help develop a task table immediately.
- Regular communication with partners.
- Leverage partner resources, e.g. tools and expertise.
- Leave room in timeline for unforeseen obstacles and delays.
- Provide incentives for neighbors to get involved, e.g. fun activities, giveaways.

Advice for Project Managers

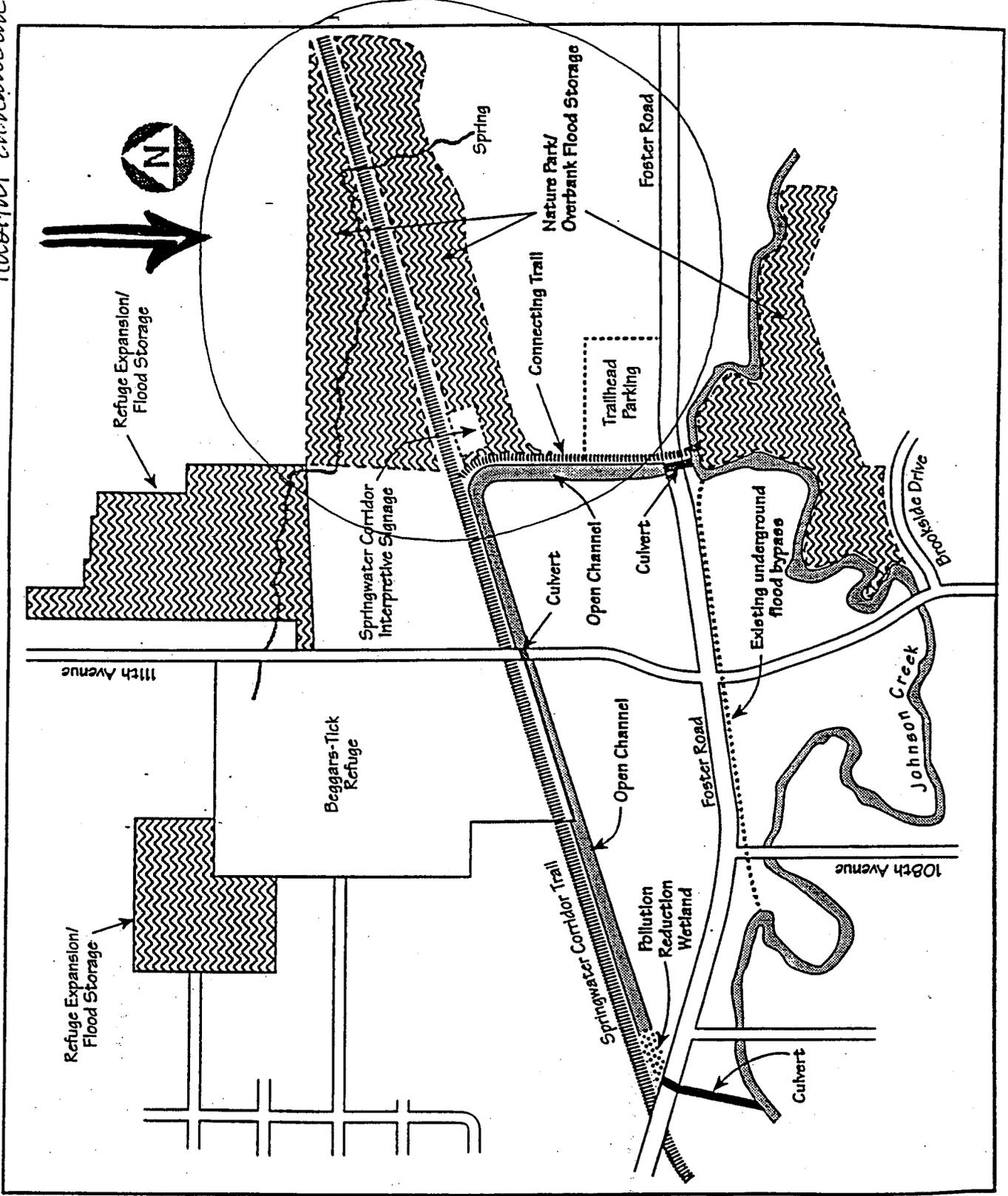
(see above)

Monitoring and Maintenance Plan

(see appendix F)

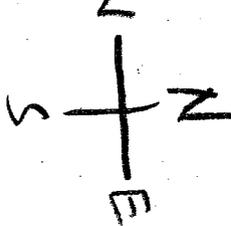
FIG 46 Multi-purpose Improvements at SE Foster Road and 111th Avenue

AREA for Habitat enhancement

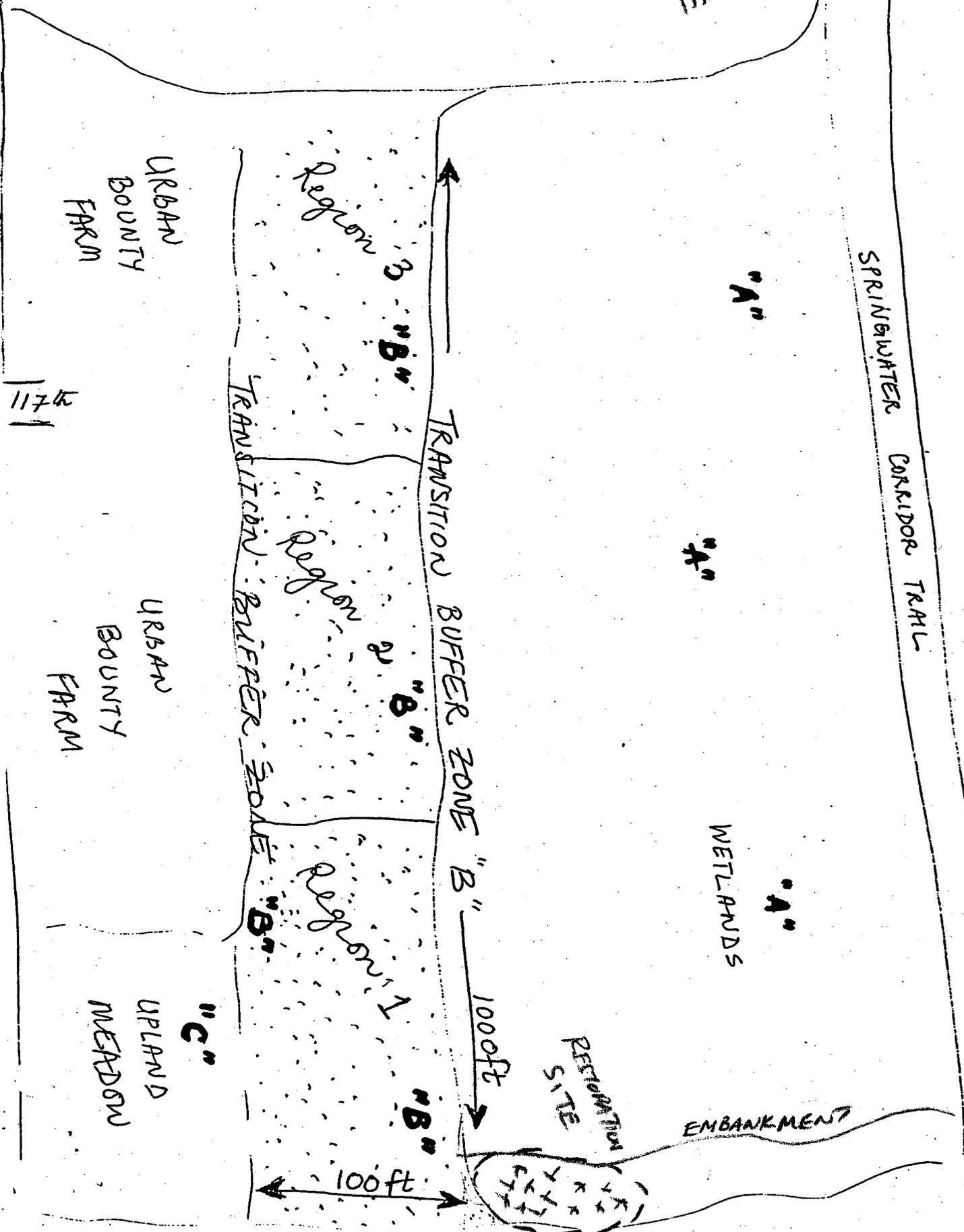


APPENDIX B

Commercial Development



SPRINGWATER CORRIDOR TRAIL



URBAN BOUNTY FARM

Region 3 "B"

"A"

1175

TRANSITION BUFFER ZONE "B"

TRANSITION BUFFER ZONE "B"

"A"

URBAN BOUNTY FARM

Region 2 "B"

WETLANDS "A"

URBAN BOUNTY FARM "C"

Region 1 "B"

1000ft

PERFORMANCE SITE

EMBANKMENT

100ft



Planting Plan

Neighbors

Fence Line

Red Alder

Douglas Fir

Western Red Cedar

Pacific Spruce

Red Alder

Red Alder

Douglas Fir

Douglas Fir

Black Thimbleberry

Pacific Spruce
Green Fir

Hazelant

Swamp Rose

Indian Plum

All Oregon Grape

Thimbleberry

Indian Plum

All Oregon Grape

Swamp Rose
Thimbleberry

Hazelant
Indian Plum

Swamp Rose
All Oregon Grape

Indian Plum
Linedark

Scouler Willow
3-4' Cherry

Scouler Willow
Vine Maple

Scouler Willow
Scouler Willow
Vine Maple

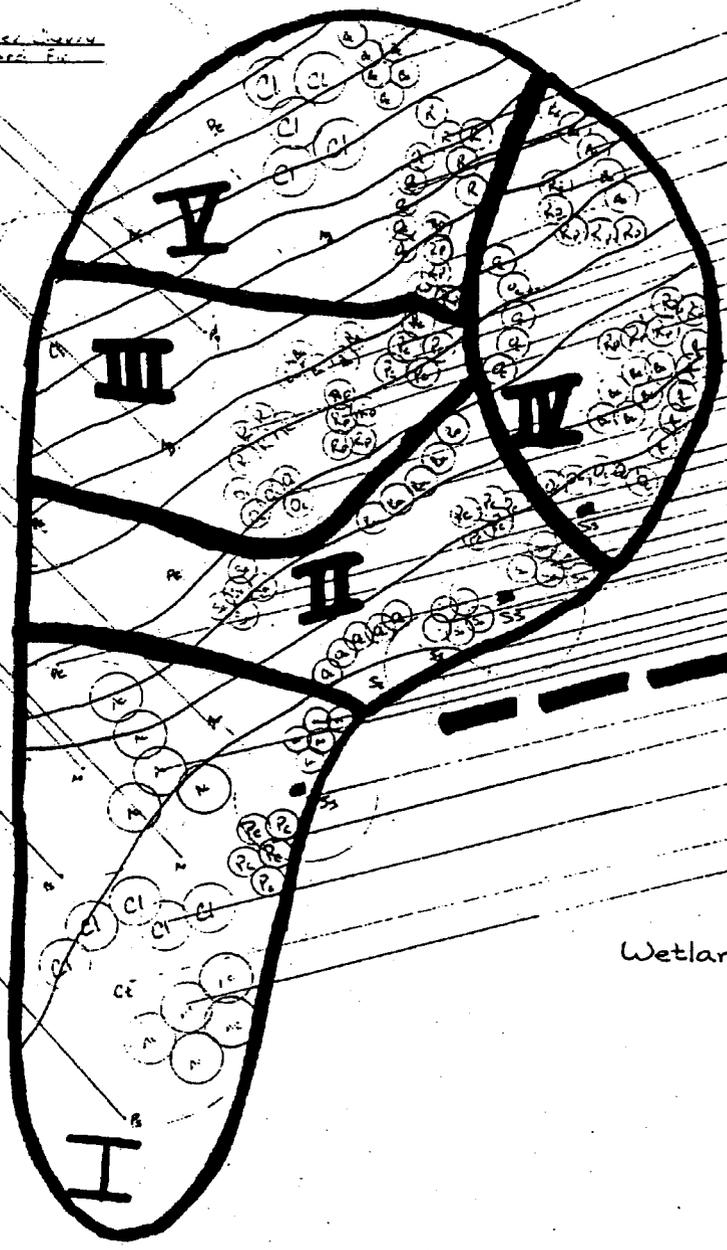
Black Thimbleberry
Scouler Willow

Black Thimbleberry
Mussock

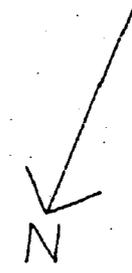
Black Thimbleberry

Western Red Cedar

Vine Maple

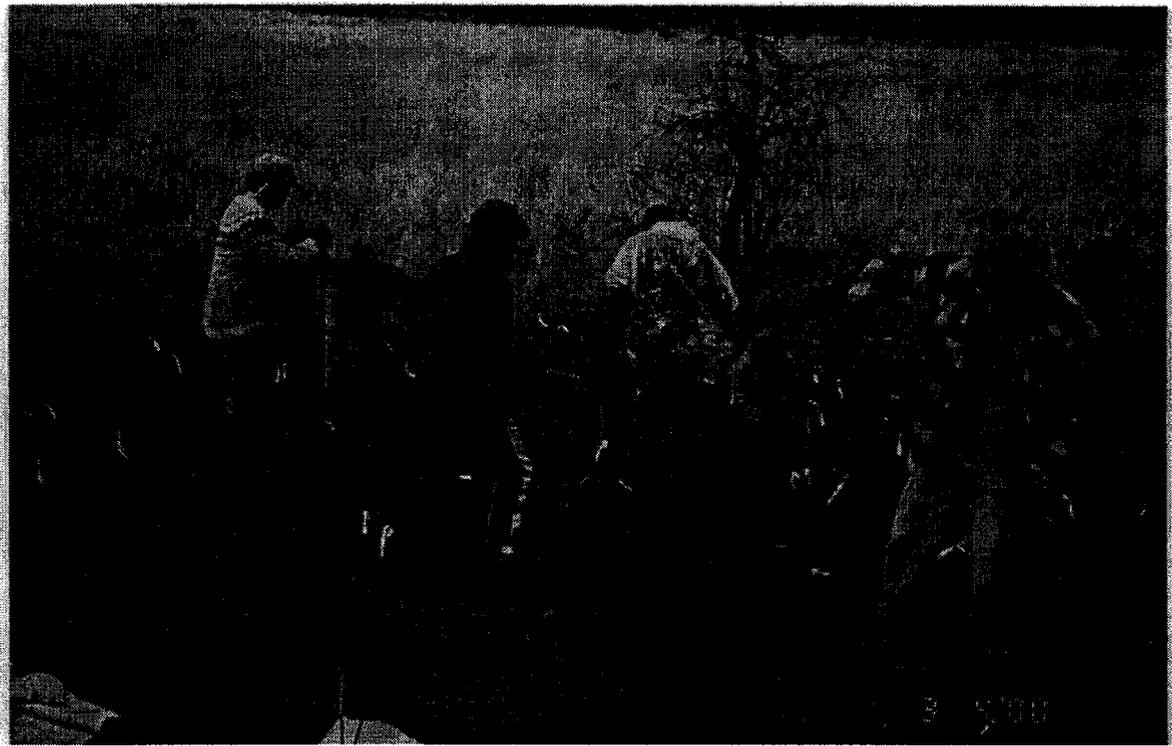
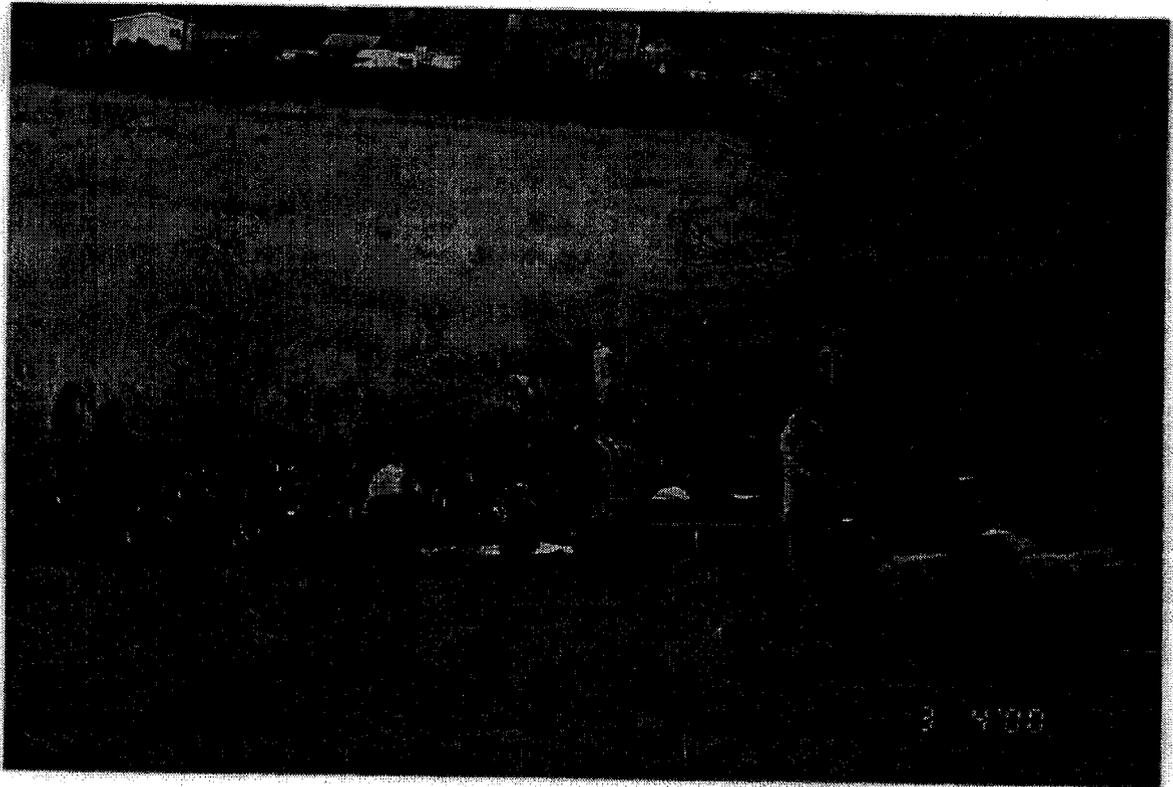


Wetlands Area



ZENGER FARM RESTORATION

APPENDIX C



APPENDIX D

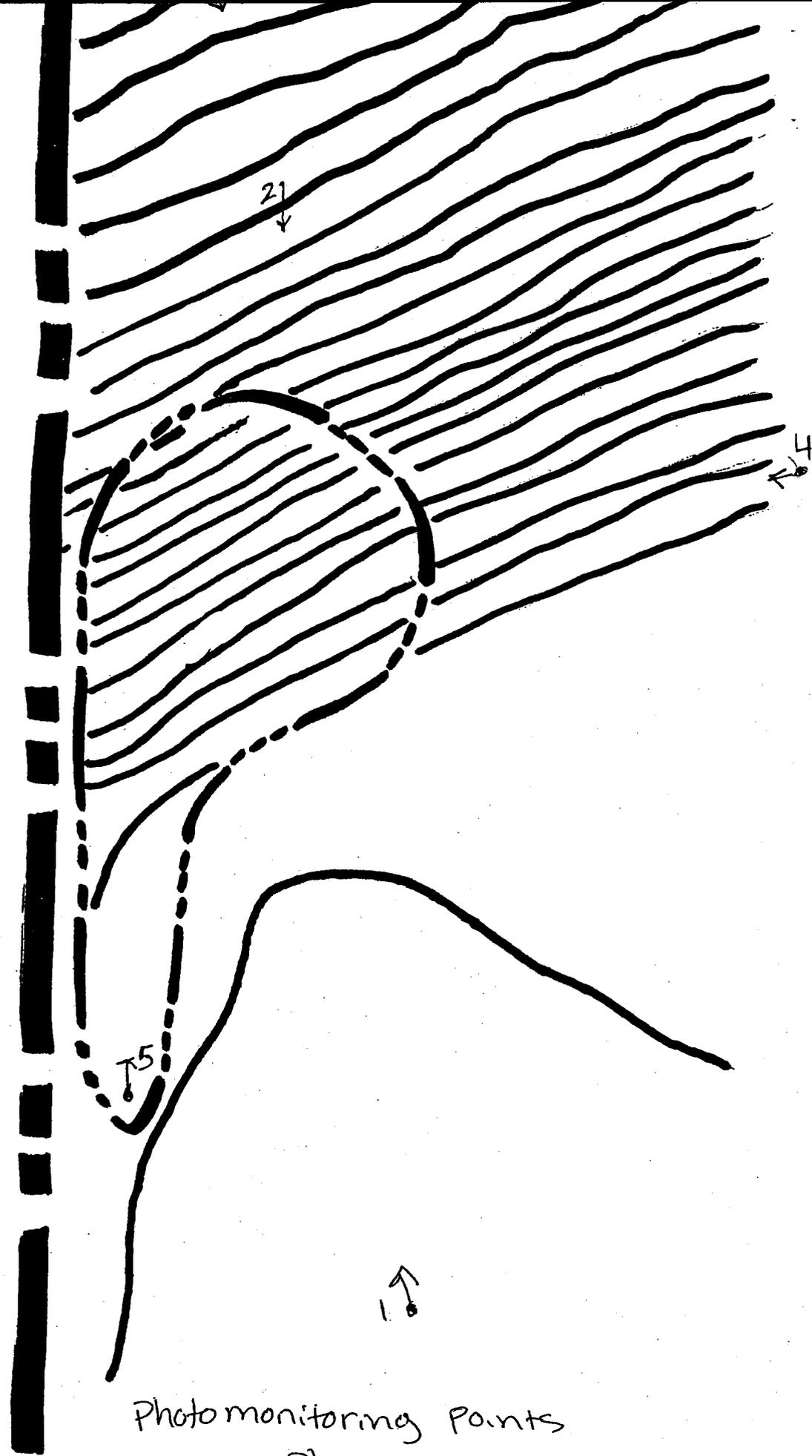
TASK	#	PERSON RESPONSIBLE	DEADLINE	COMMENTS
SECRETARY	1	DEON	ONGOING	ORGANIZE MEETING NOTES, MATERIALS TRACK OVERALL PROGRESS
BUDGET	1	DEON	ONGOING	CREATE AND OUTLINE EXPENSES
PLANT LIST	1	KRIS	12/2 TO BES	COMPILE PLANT AND RESEARCH LIST
				GROUP DECISION ON 11/23
SCHOOL LIASON	1	BRIAN	ONGOING	DEVELOP SCOPE OF WORK WITH SCHOOLS, CONFIRM DATES
FZF AND BES LIASON	1	KRIS	ONGOING	ATTEND BOARD MEETINGS (12/14, 1/19, 2/15)
				TRACK OVERALL PROGRESS
DOCUMENTATION	1	ROBYN	ONGOING	DOCUMENT PROCESS, PLANTING AND MONITORING THROUGH
				WRITTEN DOCUMENTS AND PHOTOS
NEIGHBOR OUTREACH	1	BRIAN	18-Jan	TALK WITH NEIGHBOR TO GET VIEWS ON PLANTING
				WORK WITH MARC AND OUTREACH GROUP
OBTAIN PLANTS	1-2	TANYA (ROBYN)	28-Jan	RESEARCH SOURCES AND AVAILABILITY
				ORDER PLANTS
				COORDINATE LOGISTICS
PLANTING SUPPLIES	1	KRIS/BRIAN	15-Feb	INVENTORY EXISTING SUPPLIES AT ZENGER
				RESEARCH ADDITIONAL NEEDS
				ORDER ADDITIONAL SUPPLIES (CARDBOARD, BEAVER GURADS, MULCH, ETC.) BY 1-18.
TOOLS	1	KRIS	15-Feb	RESEARCH OPTIONS
				ORGANIZE LOGISTICS (HOW MANY, WHAT KIND, DELIVERY, RETURN)
STIE PREPARATION	2	ELIZABETH	2-Dec	DEVELOP OUTLINE
		TANYA		ORGANIZE NECESSARY SUPPLIES
		DEON		
ONSITE COORDINATION	2-3	BRIAN	18-Feb	ORGANIZE LOGISTICS, PARKING, VOLUNTEER TASKS
		ROBYN		OBTAIN FOOD AND BEVERAGES THROUGH DONATIONS
		TANYA		WORK WITH OURTEACH GROUP
PLANTING PLAN	3	JULANE	1-13 DRAFT	SUBIT REPORT OT BES AND USFW
		BRIAN	1-27 FINAL	BES WILL RETURN DREAFT BY 1-18
		ROBYN		
MAINTENANCE PLAN	3	JULANE	12-2 GUIDLINE	SUBIT REPORT OT BES AND USFW
		TANYA	1-13 DRAFT	BES WILL RETURN DREAFT BY 1-18
		DEON	1-27 FINAL	

Zenger Farm Project Budget

<u>Awarded Grant</u>	<u>Amount</u>		
Total	\$3,000.00		
<u>Project Costs</u>			
<u>Item</u>	<u>Cost</u>		
personnel (Stephan Gilchrist)	\$1,082.00		
plants	\$485.50		
seeds	\$68.00		
flagging/gloves	\$60.16		
mulch	\$110.00		
porta-potty	\$100.00		
mailings	\$8.25		
enlargement	\$3.92		
paper	\$3.00		
color copying	\$9.94		
signboard	\$1.18		
lamine	\$4.00		
color copying	\$3.96		
poster material	\$2.69		
poster material	\$22.15		
poster material	\$9.32		
photo development	\$9.00		
photo copying	\$30.45		
Total	\$2,013.52		
Original Grant-Costs	\$986.48		
<u>In-kind Contributions</u>			
<u>Item</u>	<u>Cost</u>	<u>Calculation</u>	<u>Organization</u>
weed mats	\$115.50		Bureau of Environmental Services
beaver tubes/mouse mesh	\$125.00		Bureau of Environmental Services
tools	\$203.00		Bureau of Environmental Services
Stephan Gilchrist	\$6,476.76	salary	Portland State University
Elisabeth Reese	\$1,360.00	68 hrs. x \$20	Bureau of Environmental Services/Americorp
Shannon Tuch	\$120.00	6 hrs. x \$20	Walker Macy
Dilafuz Williams	\$910.00	salary	Portland State University
Barry Messer	\$100.00	5 hrs. x \$20	Portland State University
Daniela Brod	\$200.00	10 hrs. x \$20	Bureau of Environmental Services
James Allison	\$40.00	2 hrs. x \$20	Bureau of Environmental Services
Marc Boucher-Colbert	\$300.00	15 hrs. x \$20	Friends of Zenger Farm
Deb Lippoldt	\$160.00	8 hrs. x \$20	Friends of Zenger Farm
Friends of Zenger Farm Board M	\$240.00	4 hrs. x \$10	Friends of Zenger Farm
capstone students x 12	\$12,600.00	150 hrs. x \$7	Portland State University
capstone students x 13	\$2,275.00	25 hrs. x \$7	Portland State University
planting day volunteers x 10	\$500.00	5 hrs. x \$10	community
Total	\$25,725.26		

*In kind personnel rates were based as follows: students \$7/hr.; adults \$10/hr.; professional \$20/hr.

APPENDIX F₁



Photomonitoring Points
Plan

Photo-Monitoring Points

Element	Photo Point #	Compass Bearing	Location information
Trail Element	1	S 30°E	from mile post eleven on the Spring Trail Corridor looking @ restoration site
Top Element	2	N 20°W	from 50 feet above the restoration site looking down @ the site
Overlook Element	3	N10°W	from highest point, 100 feet above site looking down @ the site
West-Side Element	4	N40°E	from the second Plum tree, 50 feet from the west edge, looking from the side @ the site
Lower Element	5	S 0°	from the neighbor's fence line looking up @ the restoration site

APPENDIX F₃

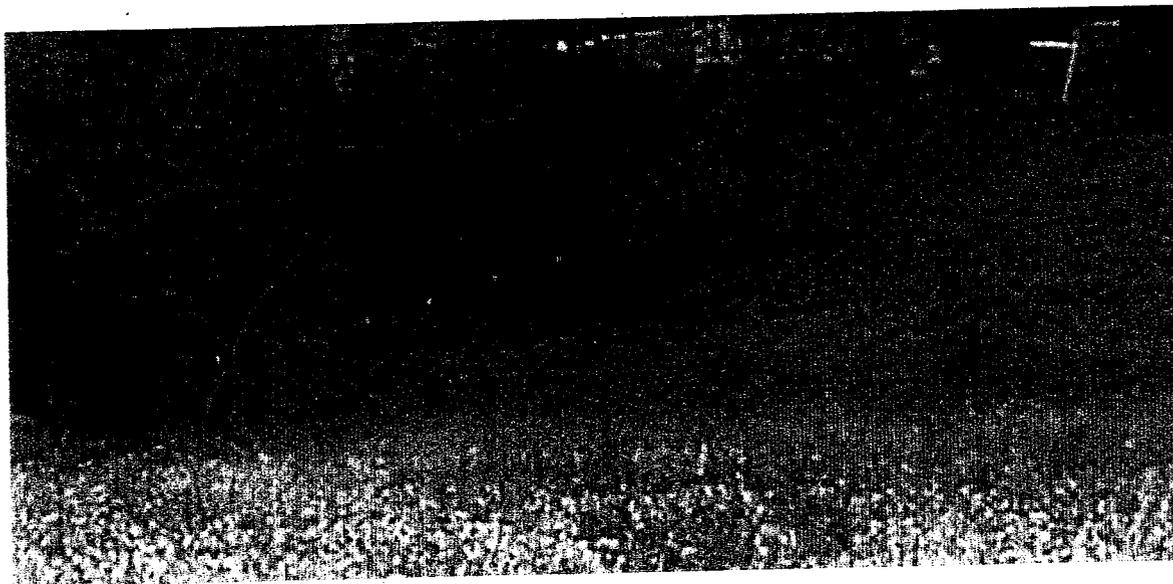


PHOTO POINT #1: *Trail Element*
From mile post eleven on the Spring Trail Corridor looking @ restoration site: (S 30° E)
(NOVEMBER 1999)



PHOTO POINT #2: *Top Element*
From 50 feet from restoration site looking down @ the embankment: (N 20° W)
(NOVEMBER 1999)

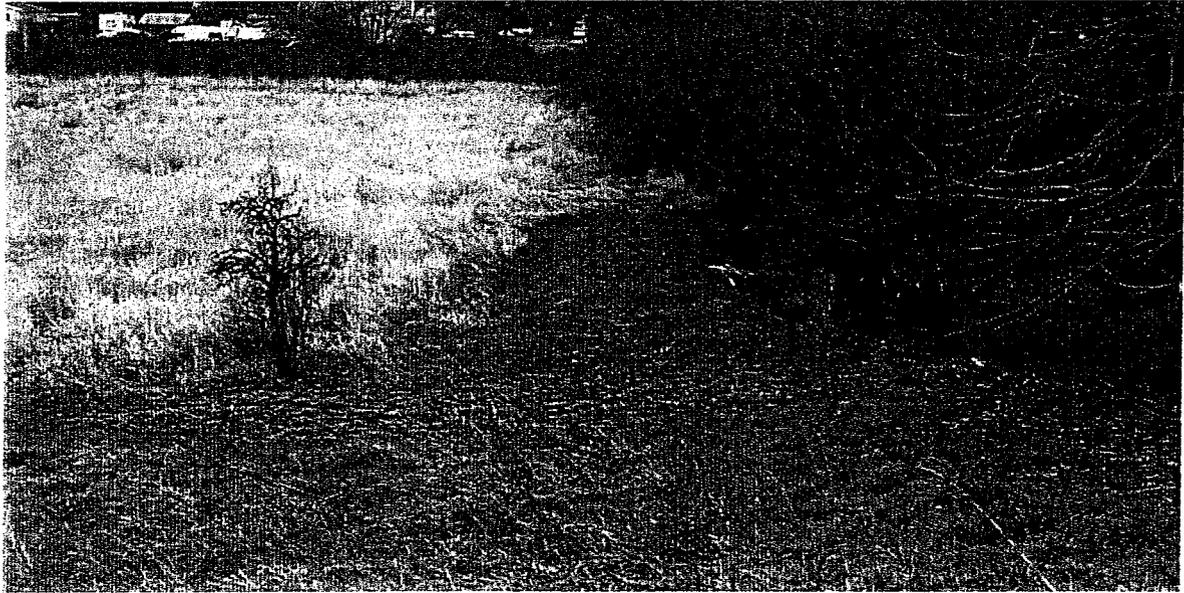


PHOTO POINT #3: *Overlook Element*
From highest point, 100 feet from restoration site looking @ entire site; (N 10° W)
(NOVEMBER 1999)



PHOTO POINT #4: *West-side Element*
From the second Plum tree, 50 feet from the west edge looking @ the site; (N 40° E)
(NOVEMBER 1999)

APPENDIX F₅

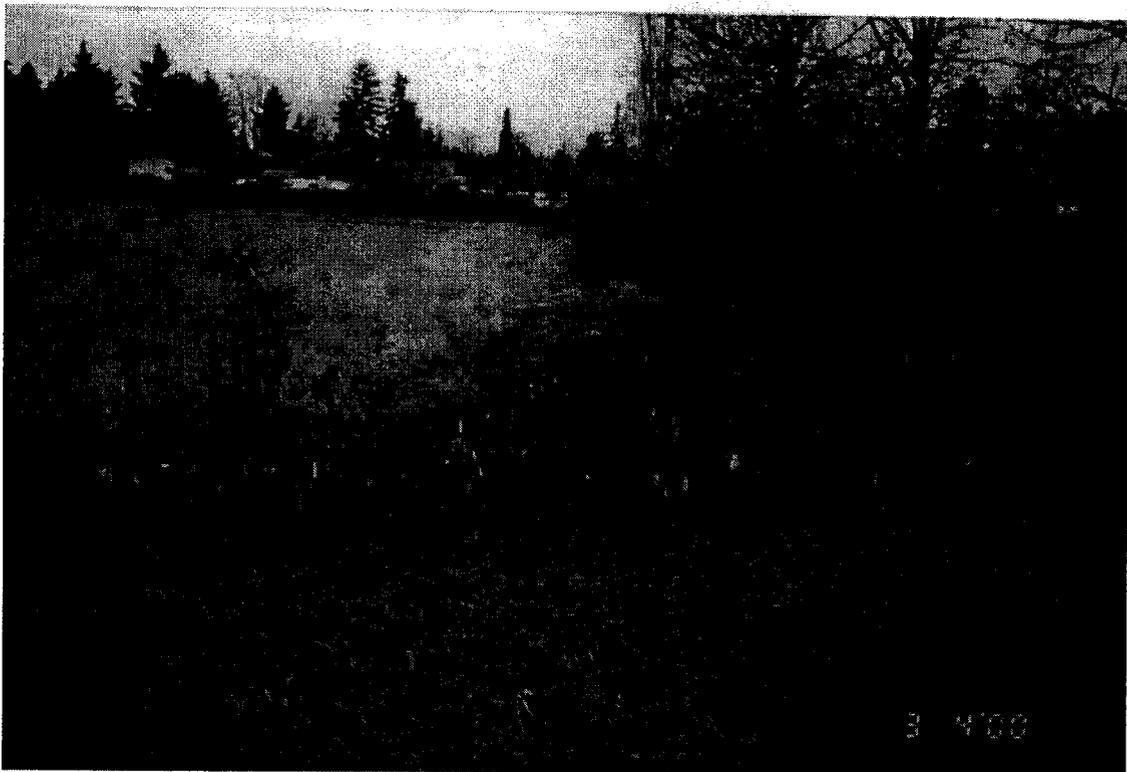


PHOTO POINT #5: *Lower Element*
From the neighbor's fence line looking up @ the restoration site; (S)

(NOVEMBER 1999)



PHOTOPOINT #1 AFTER RESTORATION
(MARCH 4, 2000)



PHOTOPOINT #2 AFTER RESTORATION
(MARCH 4, 2000)

APPENDIX F
7

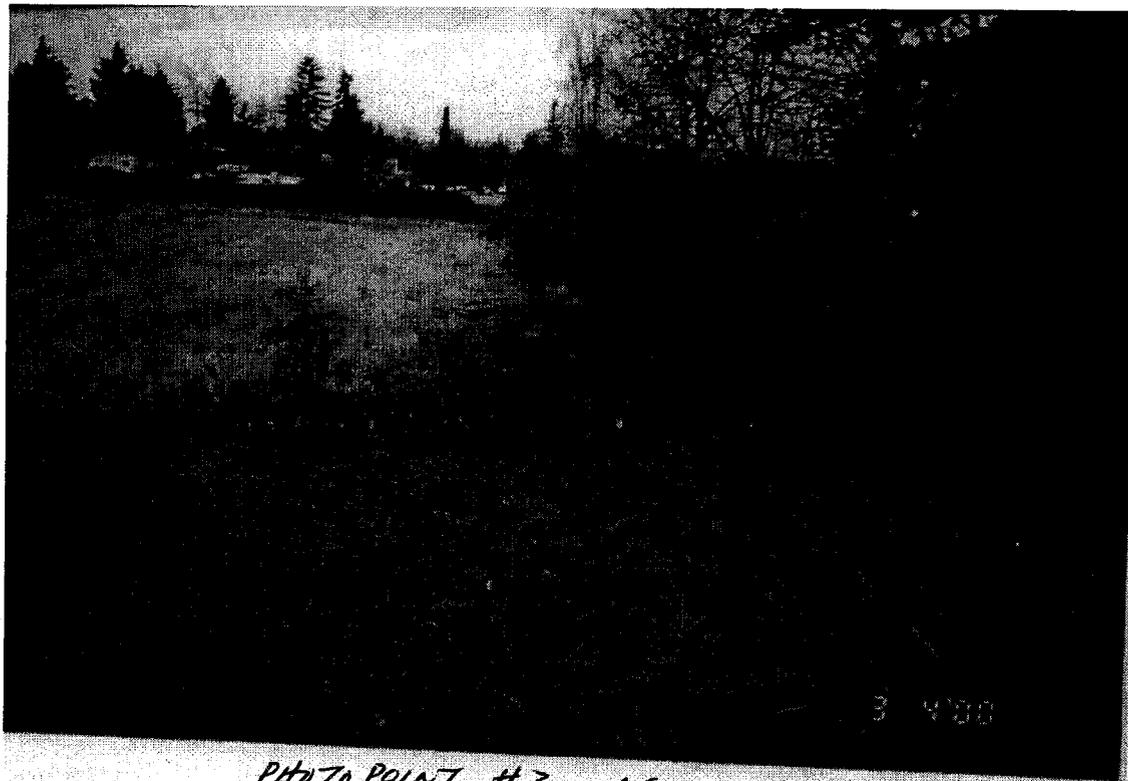
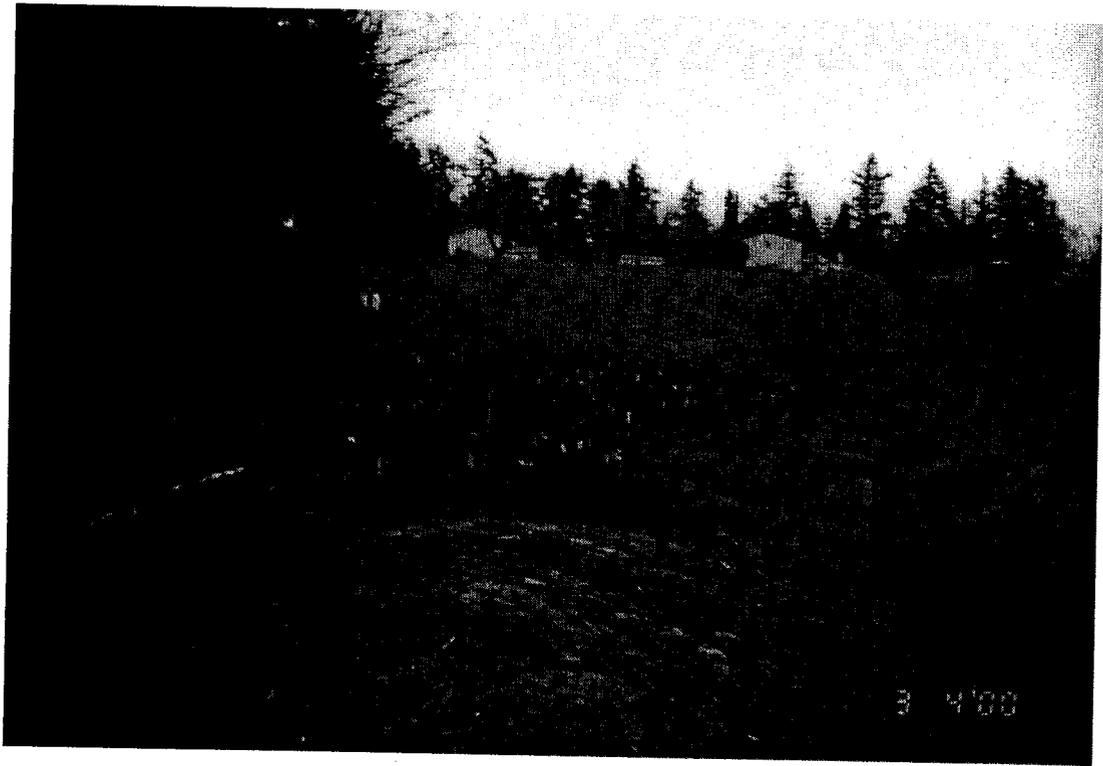


PHOTO POINT #3 AFTER RESTORATION
(MARCH 4, 2000)



PHOTO POINT #4 AFTER RESTORATION
(MARCH 4, 2000)

APPENDIX F
8



PHOTOPPOINT #5 AFTER RESTORATION
(MARCH 4, 2000)

Restoration Project at Zenger Farm Maintenance Plan

WHAT

WHEN

Photo-Monitoring

According to provided
photo-monitoring plan

Every May

Maintenance

-Remove mouse mesh and
stakes

2002

-Conduct monitoring survey

Every May

--Determine plant mortality

If plants are needed they need to be planted
during the winter

--Determine need for weeding

--Determine need for more planting

---Conduct weeding and planting
activities deemed necessary

-Mulching

July 2000 and July 2001

-Watering

Depending on weather. If summer is too
hot, water may be needed then.

-Continued maintenance
(miscellaneous)

Ongoing

WHO

Friends of Zenger will be responsible for all monitoring and watering.
Senior Capstone Group will do initial photo-monitoring and planting.