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I'll send the photo points as soon as I receive them. Joe Blowers

## RALEIGHWOOD/SHEIL'S PROPERTY RESTORATION YEARLY REPORT September 20, 1998 Joe Blowers, West Sylvan Middle School

Summarv

The Sheil's property (previously mistakenly called the Sheild's property) is a 2.5 acre upland property next to Sylvan Creek just upstream from its confluence with Fanno Creek. It is contiguous with Tualatin Hills Park and Recreation District's (THPRD) Raleighwood Park. In 1996, it was purchased with Greenspaces funds and added to Raleighwood Park. At that time, approximately half of the property was overgrown by blackberries. The remainder was split between a deciduous forest (degraded by English ivy), meadow, and a small riparian zone. The project is a collaborative effort between West Sylvan Middle School (Joe Blowers and students), Fans of Fanno Creek, THPRD, and neighbors of the park. The overall goals are to restore the Sheil's property to a healthy upland forest/riparian forest/meadow complex and to provide recreation, water quality, and wildlife values to the community. Planning began in October, 1996 and implementation of the plan began in September, 1997.

## **Project Goals and Timeline**

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Goal 1. Provide students with the opportunity to map and survey the newly acquired "Shields" property adjacent to Raleighwood Park.

October, 1996 Student volunteers selected, go on Salmonwatch field trip. They will

later do the mapping as a community service component of the

Salmonwatch Program.

Met with THPRD naturalist staff, mapping plan developed, student February, 1997

volunteers trained.

March, 1997 Student and parent volunteers map site and do vegetation survey

Others do community survey to ascertain neighbor's wishes and

attitudes.

Select committee of students finalize map. Late March-April, 1997

Goal 2. Using the site map students will work in their classroom groups and with THPRD staff to develop a draft plan for the site.

Six classes visit site, discusses issues, develops draft plan. April, 1997 May, 1997 Select committee compiles results of survey and student

recommendations. They prepares a draft plan, and present it to

classes and THPRD staff.

Student volunteers present plan to THPRD board of directors. August, 1997 Plan revised slightly. Final map of plan shown to new classes. September, 1997

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### Goal 3. Students will implement the plan.

April, 1997 Some non-native vegetation is removed by students on field trips.

Six western red cedars planted by students.

September, 1997 INTEL volunteers clear blackberries and plant donated shrubs and

trees as part of Washington County Clean and Green project.

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September-October, 1997 Neighbors water donated plants not yet planted.

November, 1997 Parents and students volunteer to remove a large area of English ivy

and plant the area with the remaining plants donated by INTEL.

Early February, 1998 New select committee of four students formed to oversee

implementation. Committee lays out first 100 feet of new trail.

Appoximately 2/3 acre of Himalayan blackberries removed by THPRD. Erosion fencing installed downhill from removal site.

THPRD. Erosion fencing installed downhill from removal site.

Beaverton High School Honor Society installs first portion of trail.

Three older students familiarize this year's sixth grade classes with

the site and the plan.

February, 1998 Fans of Fanno Creek orders native plants requested. Select

committee publicizes upcoming tree planting.

March, 1998 Student, parent, and neighbor volunteers plant native plants in

conjunction with Fans of Fanno Creek annual tree planting.

April-May, 1998 Five classes take field trips to site and do follow-up mulching and

weed control.

May, 1998 Select committee meets with owner (and potential developer) of

neighboring property. Students and parents volunteer for a

Saturday work party to do mulching and weed control.

June-September, 1998 Neighbors chop blackberries around plantings twice during the

summer. Neighbors coordinate a watering program for the new

plantings.

# Goal 4. Students will monitor turbidity and other water quality measurements, reporting problems to the appropriate government or "friends" group.

April-May, 1996 Students report water quality violations to ODOT and Mutlnomah

County. ODOT lays down erosion fencing and other erosion control

devices to deal with the problem.

October, 1997-April, 1998 Students monitor and graph turbidity in various neighborhood

creeks.

### **Evaluation and comments**

In all aspects but one, this project has been a "smashing" success! The first three goals were met and exceeded. With each, students played an integral role. All students participated in brainstorming ideas for the restoration of the property and in implementing the final plan. Many students and parents volunteered outside of class time to continue this work. Approximately16 students were deeply involved in designing the restoration plan, presenting the plan to the THPRD board, and/or guiding the plan's implementation. In addition to 11 classes of 6th graders and some of their parents, many other groups participated at differing levels. Fans of Fanno Creek advised and provided materials. The THPRD Board of Directors approved the final plan. THPRD naturalists advised and provided logistical support. Neighbors assisted with the plantings, weeding, and watering. Beaverton High School students worked on trails and

nestboxes. INTEL provided materials and volunteers through SOLV (Stop Oregon Litter and Vandalism). Friends of Trees provided technical expertise, more plants, and volunteers. And, of course, METRO Greenspaces and the Oregon Community Foundation provided grant funding. The cooperative nature of this work is one of the most gratifying things about the project. Guiding students to become active participants in real-life science and community projects is equally gratifying.

The fourth goal, to monitor turbidity in Sylvan Creek, was not successful. Students did monitor turbidity in some other creeks, including upstream Fanno, and graphed the results, but nothing was done with this information. The monitoring was treated as a voluntary, extra-credit part of the curriculum. As a result, sometimes it happened and sometimes it didn't. Because the data was so spotty, little could be done with it. Greater emphasis will need to be given to collecting regular data and on training students to be "detectives" to locate the source of the turbidity. Class time will need to be provided to train students, discuss findings, and to communicate with government officials.

Students collected creekwater turbidity samples only in creeks very near their homes, and often only in good weather and when they happened to think of it. In hindsight, it seems that greater emphasis needs to be put on accurate and timely collection of samples if useful data is to be collected. Parents need to educated as to the nature of the project, so that they can cooperate in data collection. Sylvan Creek at Raleighwood Park is a few blocks out of the school attendance district, thus no students live nearby. A very motivated student or students with parents who support the project will need to be found if samples are to be taken from that location.

The site currently looks very good. The area cleared of ivy remains ivy-free and the plants are doing well. The areas cleared of blackberries also remain cleared, but only because of repeated "brushings" by neighbors in the summer of 1998. One problem is in this area is that some of the cleared blackberries were piled in three piles. These piles have quickly become overgrown with sprouting blackberries. In all areas, survival of plantings seems to be about 80%. One exception to this is with the very small trees planted by Friends of Trees. Of those trees, few have survived. The weeds are very effective at shading out trees less than a foot tall. A second exception is near the beaver pond, where our furry friends have eaten many of the willows and alders. This area will need to be replanted. At least 2/3 of an acre remains to be cleared of Himalayan blackberries. Approximately 1/3 of an acre needs to be cleared of English ivy.

This fall and winter (1998), THPRD plans on having crews remove another large area of ivy and and an even larger area of blackberries. West Sylvan Middle School students, parents, and neighbors will be enlisted to plant those areas with plants donated by Fans of Fanno Creek in March of 1999. Neighbors will be asked to continue to assist with weeding and watering in the summer of 1999. Tentatively, 6 classes of West Sylvan Middle School students will be taking field trips to the park in April or May, 1999 to assist with plan implementation.

Planting List and Survival Data (As of 9-17-98)							
PLANT SPECIES Douglas Fir (2')	NUMBER 79	STATUS 74 alive	SURVIVAL 94%	NOTES Planted in full sun			
Douglas fir (5")	11	2 alive	18%	Misplanted in shade			
Grandfir (1')	9	8 ali <b>v</b> e	89%	Full sun to partial shade			
Grand fir (5")	12	7 alive	58%				
Western hemlock (1')	5	3 alive	60%	Partial to full shade			

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Planting List a PLANT SPECIES Big leaf maple (2-3')	and Surv NUMBER	ival Data STATUS 7 alive	(continued) SURVIVAL	NOTES All bare root saplings
Oceanspray (2')	32	24 alive	75%	died. Full sun to shade. Full sun/partial shade
Snowberry (2')	38	36 alive	95%	Tolerates varying cond.
Red elderberry 1-2')	53	37 alive	70%	Partial/full shade
Western red cedar (2-4')	6	6 ali <b>v</b> e	100%	Partial/full shade
Western red cedar (5-8")	49	34 alive	69%	Tolerates wet areas
Red alder (3-4')	42	12 alive	29%	Most eaten by beavers.
Willow sp. (2-3')	24	20 alive	83%	Full sun/wetlands Full sun/wetlands
Vine maple (2-3')	28	28 alive	100%	Partial/full shade
Cascara (2-3')	15	15 alive	100%	Full sun/partial shade
Indian plum (2-3')	25	21 alive	84%	Partial/full shade
Mock orange (1-2')	6	5 alive	83%	Full sun/partial shade
Tall Oregon grape (2-3')	38	32 alive	84%	Full sun/partial shade
Red flowering currant 1-2')	2	1 alive	50%	Full sun/partial shade
Serviceberry (1-2')	7	5 alive	71%	Full sun/partial shade
Wood fern (1 gal.)	7	2 alive	29%	Plant in decaying wood
Sword fern (1 gal.)	15	14 alive	93%	Water well first year. Full shade
Nootka rose	3	1 alive	33%	Full sun/partial shade
Salal	7	4 alive	57%	Partial/full shade

**TOTAL PLANTED: 529** (5-97, 9-97, 3-98, & 4-98)

TOTAL ALIVE 9-17-98: 398

#### OVERALL SURVIVAL PERCENTAGE: 75%

The small (5-6") bare-root plants did not survive well. They were shaded by weeds and were hard to see when clearing blackberries from around them. The larger container-grown plants did much better. Their survival rate was close to 80%, and would have been even higher if the beavers hadn't taken out so many of the red alders. It's important to cut back weeds around the seedlings a couple of times during the first couple of growing seasons, especially if the blackberries are trying to resprout. It's also important to water the seedlings during the summer drought for a couple of years. It's also important that each species of plant is placed in an appropriate microhabitat. For instance, within the same site there may be places perfect for shade-loving western hemlocks, and other places where they'll be dead before July.