October 5, 2017
2017 GREEN Final Report Appendices

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Appendix A
Stakeholder Meeting Agendas
October 24, 2016
November 7, 2016
January 26, 2017
January 26, 2017
March 6, 2017

2017 IES Wheat Ridge-Kullerstrand Greenbelt Restoration and Environmental Educational Network
Meeting Agenda
October 24, 2016, 1 pm
9110 West 44th Avenue, Wheat Ridge, CO 80033

Introductions

2017 GREEN Project
- National Fish and Wildlife Foundation Grant
  - Requirements
  - Matching Funds
- Initial Project Discussion
  - Planting Location
  - Scope
  - TRAILS Students
- Maintenance and Watering
- Project Memorandum of Understanding

2016 GREEN Update
- Maintenance and Watering

All Greenbelt Planting Sites Update

Future meetings and action items

John Kelly, IES Tree Project Manager, john@i4es.org
October 21, 2016

2017 IES Wheat Ridge-Kullerstrand
Greenbelt Restoration and Environmental Educational Network (GREEN)
Meeting Agenda
November 7, 2016, 10 am
Kullerstrand Elementary, 12225 West 38th Avenue, Wheat Ridge, CO 80033

Introductions

2016 GREEN Project update

2017 GREEN Project
- National Fish and Wildlife Foundation Grant
  - Funding for larger project
  - Requirements
  - Matching funds
- Initial project discussion
  - Kullerstrand TRAILS goals
  - What works best for the students?
  - Recommended revisions from last spring
  - Classroom workshops
  - Planting event(s)
    - Parent participation
  - Spring watering
- Project Memorandum of Understanding
  - Key responsibilities

Future meetings and action items

John Kelly, IES Tree Project Manager, john@i4es.org
November 1, 2016

2017 IES GREEN Meeting with Margaret Paget
Thursday, January 26
8:45 am
9110 44th Avenue, Wheat Ridge, CO 80033

Agenda

Introductions of new IES interns

1. Classroom workshop planning
    a. Dates for workshops
    b. Workshop ideas
2. Planting events planning
    a. Dates and timetable for planting dates
    b. Planting activities brainstorm
3. Project plan
    a. Review IES project plan
    b. Responsibilities
4. National Fish and Wildlife Foundation grant
    a. Time keeping
    b. Record keeping
    c. Reporting
5. Project Memorandum of Understanding
    a. Review and sign MOU
6. Action items/ wrap up
    a. Next meeting

IES GREEN Project Team
Patti Venneman, Project Coordinator, Patti@i4es.org (720) 545-4236
John Kelly
Maggie Michael
Elizabeth Angell
Carol Lyons

Patti Venneman
patti@i4es.org
January 23, 2017

2017 IES GREEN Meeting with Jane Reuteler
Thursday, January 26
10:00 am
Kullerstrand Elementary School
12225 W 38th Avenue
Wheat Ridge, CO 80033

Agenda

Introductions of New IES Interns

1. Classroom workshops planning
    a. Dates for workshops
    b. Workshop ideas
    c. Advice for workshops and working with students
2. Planting events planning
    a. Dates and timetable for planting days
    b. Planting activities brainstorm
3. Project plan
    a. Review IES project plan
    b. Responsibilities
4. National Fish and Wildlife Foundation grant
    a. Time keeping
    b. Record keeping
    c. Reporting
5. Project Memorandum of Understanding
    a. Review and sign MOU
6. Action items/ wrap up
    a. Next meeting

IES GREEN Project Team
Patti Venneman, Project Coordinator, patti@i4es.org, (720) 545-4236
John Kelly
Maggie Michael
Elizabeth Angell
Carol Lyons

Patti Venneman
patti@i4es.org
January 23, 2017

2017 IES GREEN Meeting with Margaret Paget
Monday, March 6, 2017
9:30 am
Greenbelt Trailhead 41st Avenue and Kipling Street

Agenda

1. Planting Plan
    a. Planting plan layout
    b. Trees, plants, and shrubs
    c. Planting schedule, dates, site preparation. Dig holes ahead of time?
    d. Supplies, port-a-potty, canopies, chairs, tables
2. Plant Purchase
    a. Working with Colorado State Forest Service
    b. Who will purchase the plants
    c. When? Delivery?
3. Workshop One
    a. Confirm time and date
    b. Confirm who will be attending from WRPRD
    c. Confirm module, WRPRD
    d. Look over module
    e. Workshop supplies
4. Action items/ wrap up
    a. Set up meeting with Maggie Michael

IES GREEN Project Team
Patti Venneman, Project Coordinator, Patti@i4es.org (720) 545-4236
John Kelly
Maggie Michael
Elizabeth Angell
Carol Lyons

Patti Venneman
patti@i4es.org
March 2, 2017

IES 2017 GREEN Project
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Appendix B
Steering Committee Meeting Notes
August 15, 2016
December 7, 2016
April 18, 2017

August 15, 2016
IES Tree Project Steering Committee Notes
Meeting, August 3, 2016
Present: Keith Wood, Judy Ward, Desiree Cunningham, Danielle DiMauro, Lloyd Levy Sean Mangus, Carol Lyons, John Kelly, Patti Venneman

I. IES Sheridan Quincy Tree Project 2015

A. Vandalism prevention
- Since the planting site is on school property, maybe police would be willing to check the site more often.
- Ask if police department has a bike unit. That might be easier for them to check the site more often.
- Dummy cameras or a sign saying "site under surveillance" could help deter vandalism.
- If the police did catch the vandals, IES might be able to recoup money for trees is there was insurance on the site.
- Would there be some way to mark the trees that were vandalized? A special sign or symbol when we replanted this fall to show the students the extensiveness of the vandalism?

B. Maintenance
- Perhaps this call IES could introduce specific roles for each student for the site. Each student "owns" a tree during the school year.
- IES needs to show how the site is part of the students' community and how they could use it during the school. Examples: pictures before dances/homecoming/prom, or other school activities that could involve the site. Remember this fall's "Sheridan Night Out."
- See if Sharena would be willing to give students extra credit for care for the site outside of class time.
- Check to see if there are Boy or Girl Scouts that could help water for merit badges or other rewards.
- Don't forget to water during the winter, especially if there are streaks of hot and dry days.

II. IES Sheridan Quincy Trail Project 2016

A. Xcel Day of Service
- Volunteers could remove weeds on 2015 planting site.
- Volunteers could remove thistle. Thistle should be pulled even if it has been sprayed.
- Don't ignore the edges between the school property and the trail. There are plenty of weeds that can be removed along the fence line.
- Volunteers could help remove dead trees or unwanted trees along the fence line on east side of the trail. If SSPRD could have workers with chainsaws and a wood chipper, volunteers could move debris. It might be more enjoyable and leave them with a sense of accomplishment. It would also create usable mulch for the two planting sites.
- We should send invites for the Xcel Energy Day of Service to the Steering Committee Members.

B. Workshop and planting day planning

C. Planting plan
- Seeds might be better than plants, especially if the plan calls for large areas of native grass. Grass plugs can get expensive, so try to locate and contact seed companies.
- Xeriscaping on the west end of the trail can be really simple. One band along the sidewalk with a few shrubs is likely all you would need.
- Will IES be bringing new soil to use in the bands or native areas? Will IES replace top layer of soil?
- What is Denver Water going to do with the west end of the trail after their spring project?
- Perennial weeds may be a big problem.
- Soil amendment?

III. GREEN

A. How to make the project an annual project?
- Introduce the project to the new principal of Kullerstrand Elementary School.
- Make the program as easy as possible for the teachers. The less work they have to do to get the program into their classroom, the more likely they will want their students to participate.

B. How to make the program replicable?
- IES needs to decide what parts of the project they want replicated by other agencies and why we want this content to be available outside of IES programs.
- IES could publish a Program Handbook that describes the steps for planning and implementing a community tree planting program.
- IES could publish articles in journals about planning and implementing a program, or the effectiveness of programs ecologically or communally.
- We should check out the environmental education grants too. We could use them to publish a handbook or articles about curriculum development, classroom workshops or training.

C. NFWF Grant
- IES should probably follow-up with the Wheat Ridge Outside Agency Contribution, informing them that we received the NFWF grant.

IV. Outreach and Community Involvement

A. Fundraising
- When presenting the project to potential donors, present the possibilities of what the project could look like with their support or after multiple years. The key is to try to get donors to imagine what could be if they decided to help the project.

B. Community involvement
- New communities will bring new sets of problems for the IES team. There is the potential to work with communities that have both more and less money compared to previous projects.
- IES should prepare steps on how to manage inquiries by new communities.

ACTION LIST

Get Judy Ward involved! She lives nearby and has great ideas.

Approach Denver Water next year about some trail improvements when the construction is completed.

Look for funding to develop replicable curriculum.

December 20, 2016
Draft Steering Committee Notes

Tree Project Steering Committee Meeting
Wednesday, December 7, 4 to 6 pm

2016 IES Sheridan Quincy Trail Project – John
- Planting day and secondary planting day
- Workshops 1 and 2
- Banner
- Plan for winter maintenance

Handout: SQT banner draft
Questions for Steering Committee:

How can IES handle hard and rocky soil along the trail for future projects?
- Consider rototilling sites prior to every planting event. Hire a contractor; purchase a tiller; or ask if a project partner can do it.

What tools should IES purchase?
- Larger hose that could connect to the water storage cube to help with slow flow of water from the tap.
- Wagon to transport filled water buckets along the trail. Get a sponsor to pay for them, and put logo on them?

How can we improve the banner?
- There should be a section for ongoing maintenance and the role of the Tree Stewards. It would probably be a good idea to keep the plants healthy.
- Make sure that the banner can be read easily from the trail. The information should be presented clearly.
- Can the banner be cleaned if there is graffiti? Should IES order multiple banners, depending on cost, to replace a banner if it is damaged?
- Check into Vinyl Works in Wheat Ridge to price banner.

2017 Greenbelt Restoration and Environmental Education Network – Patti
- Confirmed partnership with WRPR and Kullerstrand Elementary School
- Initial project plan (workshops and planting day)
- NFWF and Patagonia funding (grant requirements and documentation)
- Wheat Ridge Outside Agency Contribution Program

Handouts: Project Plan and Project Prospectus
Questions for Steering Committee:
How can IES engage K-6 TRAILS students with hands-on classroom activities?
- Make sure that all project content is reviewed and approved by teachers. They are our best resource when it comes to developing appropriate content.
- Research Steve Spangler Science videos. A hands-on science experiment or presentation could get students excited and participating in class.

Have students draw parts of trees; explain the part of the tree; then add it to a picture. We could make it a large mural type drawing to include many tree, shrub, and animal species. This could replace the web of life game.

How can we make the two planting days more educational and more enjoyable for the kids?

Differentiate between IES Tree Stewards and team members with colored hats or t-shirts.

Maybe during the nature walk students could collect specimens that they could bring back to the classroom. Examples of native flora could spark a greater interest in science and bring more education to the planting day. *Not a good idea; should teach students to NOT take anything from the Greenbelt.* During the walk, it would be a good idea to point out native specimens of the plants the students are planting.

Bingo game

Bring a bullhorn and whistles to get everyone's attention when needed. A short ladder could be used to stand on for announcements.

What advice do you have about record keeping and budget tracking for the NFWF grant?

Contact NFWF to see if we could get example templates of record keeping from NFWF or other grantees.

IES Tree Stewards – John

Number of stewards growing

Don Mangus's coordinating efforts

Questions for Steering Committee:

What activities, if any, should IES focus on with stewards during the winter?

Don could plan one site visit with every steward during the winter to check conditions, discuss spring activities, and gauge the steward's opinion on the level of work they are willing to do next watering season.

IES send an update to all stewards that discusses the condition of every site. Keep all stewards informed and connected about all the projects IES Tree Stewards are working on.

Rain gauges or soil moisture probes could measure rain or soil moisture; help manage the amount of time stewards need to be on site during spring and summer. Possible new grant idea.

Tree Project Fundraising and Social Media – Patti and Maggie

Creating new fundraising schedule

New applications in process: NFWF, CTC, John G Duncan

Xcel in February

Social Media update

Questions for Steering Committee:

What advice do you have to help IES streamline its grant application process?

What advice do you have to improve IES's use of social media?

Look at flood communities for possible tree needs.

Look at North and South Platte areas; especially along the bike trail.

Wheat Ridge just passed a ½ cent sales tax for new infrastructure. New projects planned for Ward Road and I-70, and for Clear Creek Crossing.
Increase use of hash tags and tagging project partners/funders in posts.
Post more than twice a week on platforms. At least once a day would likely be the best way to saturate platforms effectively. *[This is unrealistic. We are currently unable to maintain a schedule of posting once a week.] This is suggestion from the Steering Committee.*

Tree Project Steering Committee Proposed Meeting Schedule

March-April 2017 – *preferred day and time*

March or April would be fine. Wednesdays work. Send a doodle poll again to all members. That worked well for this meeting.

Draft,
John Kelly, Tree Project Manager
john@i4es.org

April 21, 2017

Tree Project Steering Committee Meeting
Tuesday, April 18, 2017, 4:30 to 6:30 pm

Draft Steering Committee Notes

2017 Wheat Ridge GREEN Project (NFWF / CTC / Patagonia)
- Workshop 1
- Planting plan, prep day, events
- Workshop 2
- Outreach

Questions for Steering Committee:
Summer watering: how to maintain new plants
Critical evaluation from teachers and other participants: how to get

It would be great to have the following information for Dan (IES Tree Steward) for GIS mapping of Wheat Ridge site: Ownership/right-of-way, Soil make-up, site elevation, flood plain, and stream flow, planting plans.
JW: How many acres?
Inventory of trees and shrubs
A lanceleaf willow is a hybrid species that is in between a plains and narrowleaf cottonwood (mountains). It is a species that grows naturally in the plains of Colorado, but it is still new to the tree species guide. A good tree (KW)
Moisture sensors might help with measuring when we need to water at sites. Depending on the sophistication of the technology we could purchase a few to have on site permanently or bring out with us when we check sites. It could help with when a site needs watering quickly or if we could delay a site visit if we are a low on volunteers or staff that can provide watering. Also, might be interesting to the students to check and compare to other observations.
Direct interviews with teachers would likely improve the problem of receiving critical feedback about the project. We should try to set up a meeting with teachers as soon as possible. Provide a lunch or snacks. Meeting after the last workshop. Ask: What would you change? Improve?
To get better feedback, ask some volunteers who are willing to be interviewed about project events and planning
Summer campers – have more of an educational focus – maybe drawing the plants and Greenbelt and the changes through the season

Sheridan Quincy Trail Project
- 2016 planting and summer watering
- Denver Water construction
- 2017 plans

Questions for Steering Committee:
Summer watering and maintenance
Soil amendments; plant progress

Native shrubs could adapt better to watering every other week if we need to focus our watering on the tree site from 2015. The trees will likely need more watering to ensure long-term survival.
Hackberries usually have slower growth in their canopy in early spring; they focus on growing the root system instead early in the system. Maples usually grow slowly, so the small stature on site shouldn't be a concern yet.
Judy Ward will be willing to post to Nextdoor.com to promote volunteering at the site. IES should look into to scheduling posts on this site to increase volunteering numbers.
Some soil amendments could work for the tree planting site. IES should focus more on compost on the top layer of soil rather than "hot" additives (high in nitrogen). Too much compost could result in choking out roots below the surface or near the trunk of the developing tree.
For the 2017 fall planting we could mix top soil or compost into the soil if we till the soil with a tractor like we did in 2016.
A flier box along the trail is a good idea for our volunteer outreach with a sign. Post the watering schedule.

IES Tree Stewards, Outreach, Funding, 2017 IES Team Plan
Tree Steward Pizza Supper, April 17, 2017
Wild Animal Sanctuary, April 22, 2017
2017 Tree Project Team Plan

We should recognize steward involvement over multiple years. Some sort of award or recognition after 1, 3, 5 years might be a good way to show the stewards we appreciate their yearly involvement in the program.
A mentoring program could be a good way to get the stewards who have been with the project multiple years excited about staying with the project and producing lessons for new stewards that will help with the effectiveness of first year participation.
Tree Stewards Coordinator could produce a bi-weekly or monthly "tips and tricks" email that provides some anecdotes and helpful tips for new stewards.
We should check into new styles of tree cages. There are rigid plastic tubes and other cages that could provide better protection. We should be careful of any potential negative consequences of new protection, for example rigid tubes can provide breeding grounds for harmful insects.
Ideas for labeling tools – woodburner, metal etcher, bright tape, stencil
Check for equipment storage with Wheat Ridge Parks and/or Sheridan Schools

Handout: 2017 Tree Project Team Plan
Questions for Steering Committee:
Ways to support tree stewards
2017 Plan feasibility, priorities

IES should focus on community projects and tree care as a way to increase survivability rates. The International Society of Arborculture (ISA) is already a non-

profit that arborists are familiar with that provide "science based" planting advice.
We need to distinguish that we are talking about *environmental* science.
We should switch the language of some of goals to include phrases like: "establishment and care," "transforming tough sites," "rejuvenating urban eyesores," and "collaboration and community engagement." Our niche. "Planting a lot more than trees."
The goals of the 2017 Project Plan are a good first slide for a presentation to a group that is unfamiliar with the IES Tree Project. Put "community engagement" lower down on the list.

Potential new Steering Committee members

Tree Project Steering Committee Proposed Meeting Schedule

July-August 2017 – *preferred day and time*

Miscellaneous Notes

IES should focus on the following three aspects of their projects when presenting to the Front Range Urban Forestry Council on May 18
How our project is a replicable community project.
Technical statistics about survival rates and watering.
Collaboration with stakeholders.
How we have developed and maintained our core of stewards. Organization.

Judy Ward: How do we make sure that the plants we choose don't become invasive?
A big question for pondering.
An "unwanted side effect".
"Invasive": doing something bad to the environment. Displaces natives.
Native plant selection is limited.

Draft
John Kelly, Tree Project Manager
john@i4es.org
Don Mangus
Carol Lyons

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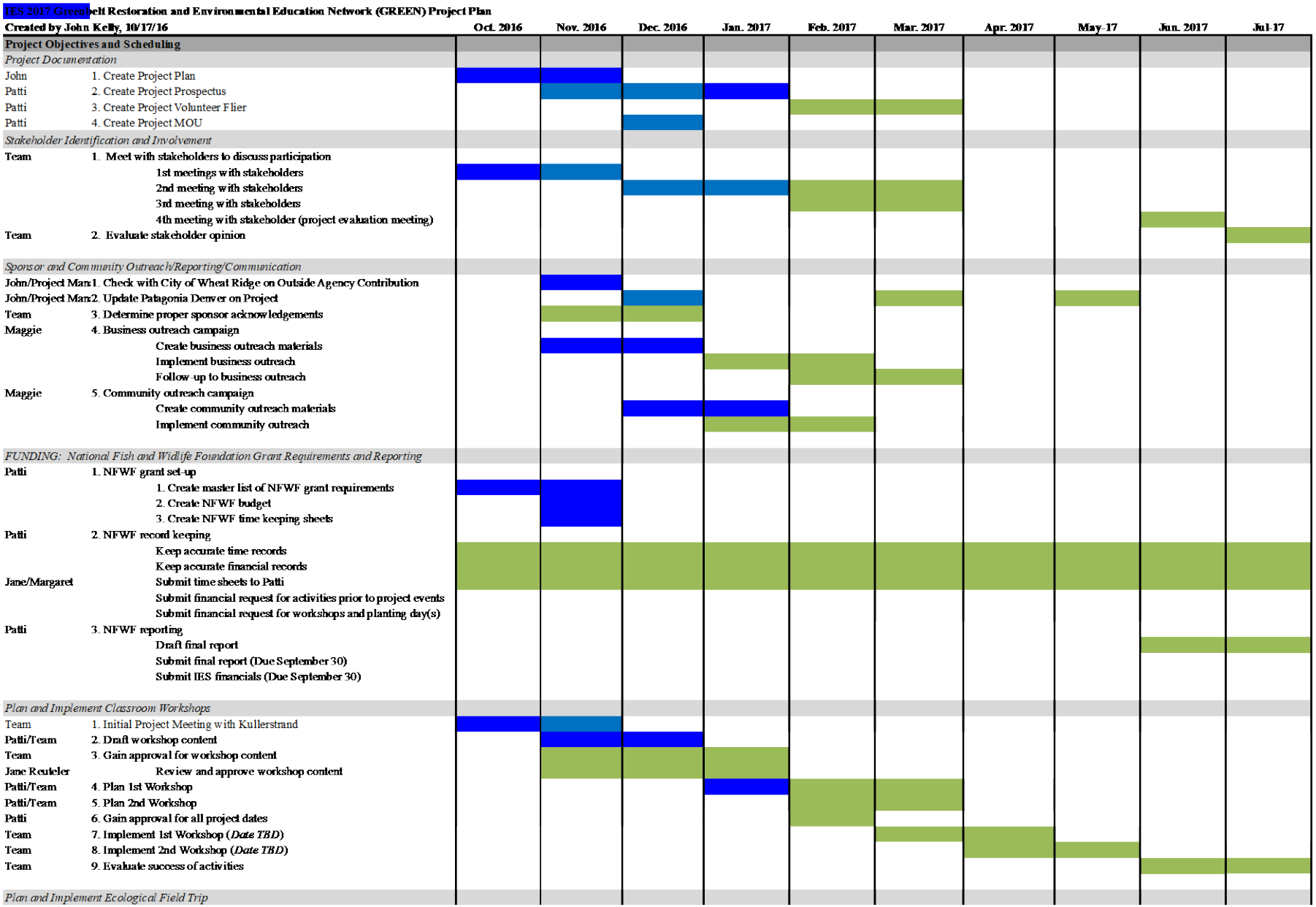
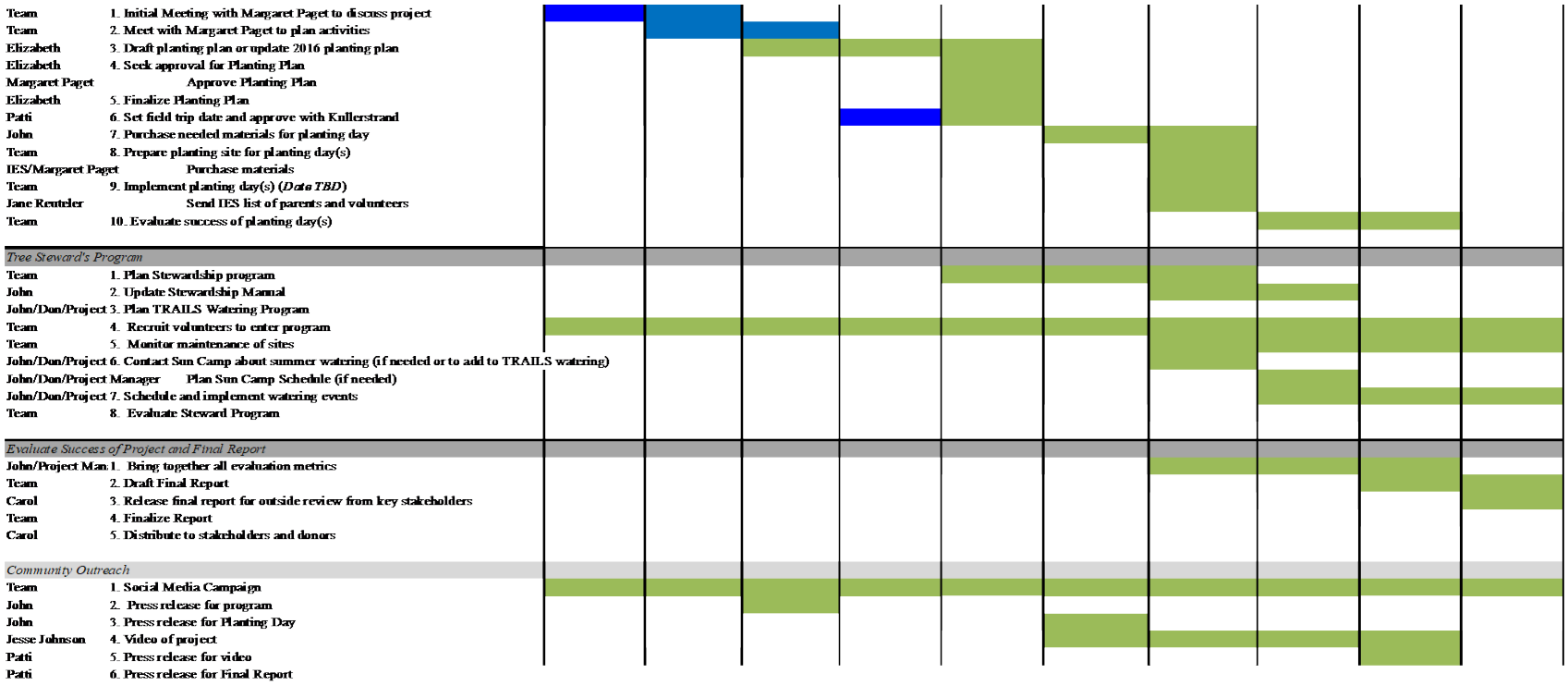
Appendix C
Project Plan


IES 2017 Greenbelt Restoration and Environmental Education Network (GREEN) Project Plan
Created by John Kelly, 10/17/16
Oct. 2016
Nov. 2016
Dec. 2016
Jan. 2017
Feb. 2017
Mar. 2017
Apr. 2017
May-17
Jun. 2017
Jul-17
Project Objectives and Scheduling
Project Documentation
John 1. Create Project Plan
Patti 2. Create Project Prospectus
Patti 3. Create Project Volunteer Flier
Patti 4. Create Project MOU
Stakeholder Identification and Involvement
Team 1. Meet with stakeholders to discuss participation
1st meetings with stakeholders
2nd meeting with stakeholders
3rd meeting with stakeholders
4th meeting with stakeholder (project evaluation meeting)
Team 2. Evaluate stakeholder opinion
Sponsor and Community Outreach/Reporting/Communication
John/Project Man 1. Check with City of Wheat Ridge on Outside Agency Contribution
John/Project Man 2. Update Patagonia Denver on Project
Team 3. Determine proper sponsor acknowledgements
Maggie 4. Business outreach campaign
Create business outreach materials
Implement business outreach
Follow-up to business outreach
Maggie 5. Community outreach campaign
Create community outreach materials
Implement community outreach
FUNDING: National Fish and Widlife Foundation Grant Requirements and Reporting
Patti 1. NFWF grant set-up
1. Create master list of NFWF grant requirements
2. Create NFWF budget
3. Create NFWF time keeping sheets
Patti 2. NFWF record keeping
Keep accurate time records
Keep accurate financial records
Jane/Margaret Submit time sheets to Patti
Submit financial request for activities prior to project events
Submit financial request for workshops and planting day(s)
Patti 3. NFWF reporting
Draft final report
Submit final report (Due September 30)
Submit IES financials (Due September 30)
Plan and Implement Classroom Workshops
Team 1. Initial Project Meeting with Kullerstrand
Patti/Team 2. Draft workshop content
Team 3. Gain approval for workshop content
Jane Reuleler Review and approve workshop content
Patti/Team 4. Plan 1st Workshop
Patti/Team 5. Plan 2nd Workshop
Patti 6. Gain approval for all project dates
Team 7. Implement 1st Workshop (Date TBD)
Team 8. Implement 2nd Workshop (Date TBD)
Team 9. Evaluate success of activities
Plan and Implement Ecological Field Trip



Last Revised: 2/2/17, JDK

John Kelly, Tree Project Manager, john@i4es.org

IES 2017 GREEN Project
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Appendix D
Prospectus

City of
Wheat Ridge
Greenbelt

The Wheat Ridge Greenbelt

The Greenbelt is a cherished open space, which borders Clear Creek through Wheat Ridge from Eldridge Street west of I-70 to Harlan Street east of Wadsworth. Devastating hailstorms and extreme flooding, along with farming and mining activities, have caused the number of plants native to the area to shrink. In 2015 Wheat Ridge Parks and Recreation Department built a new trail, connecting Kipling Street and the Wheat Ridge Recreation Center to the Moore Street Trailhead. Thirty mature trees were removed. The Greenbelt walking and bicycle trail provide extensive opportunities for outdoor activities for community members and is heavily used by Wheat Ridge and surrounding area residents. Without mitigation along the new trail section, Clear Creek will continue to erode its banks and create flooding problems. The IES GREEN Project will increase the number of trees and shrubs, improving the bare trail section and reducing further damage to the Greenbelt ecosystem. Without this project, the Greenbelt could experience flooding on walking paths, and damage to Wheat Ridge homes and businesses.

IES, the Wheat Ridge Parks and Recreation Department, and Kullerstrand Elementary School will work together on the GREEN project to ensure the new trail section is improved with new native trees and plants. A three-year plan will be implemented by IES and carried our by the Tree Stewards. This includes watering the trees, mulching around the trees, and removing weeds. During the summer, children from the Wheat Ridge Sun Camp will participate in the Tree Steward program by watering, weeding, and mulching in the planting area.

2017 GREEN Objectives

- Special and general education students at Kullerstrand Elementary School will learn about Colorado's ecology and practice their social skills in classroom workshops and field trips with IES and Wheat Ridge community volunteers.
- Students will plant native trees, shrubs, and grasses along the new Greenbelt trail.
- The Greenbelt ecosystem will experience cleaner air and water through the planting of native trees and shrubs, and the removal of harmful weeds.
- IES will implement a three-year maintenance plan where IES Tree Stewards will water and care for trees and plants, mulch and weed, and safeguard the health of the trees and plants.
- IES will evaluate the success of the program with a final report and present the project to the community with a project video.

Wheat Ridge Children and Nature: A Healthy Combination

The 2017 GREEN program builds on five years of successful IES community and student tree planting programs in the Wheat Ridge Greenbelt with the support of the Wheat Ridge Parks and Recreation Department. IES projects have taught hundreds of students to become the next generation of environmental stewards through in-class and outdoor learning workshops. In collaboration with educators, students, parents, local volunteers, Scouts, and our project partners, the program will be a positive experience for the students with lifelong benefits. One of the Kullerstrand Elementary School teachers said, "This is a good way to give back to the community and let the community know that our school cares". A Kullerstrand student said, "If there were no trees, we would have a hard time breathing". The students learn about the importance of trees and how they help clean the air and improve water quality with the valuable lesson that environmental stewardship is something they can take with them throughout their lives.

Kullerstrand Teaching Responsibility and Independence with Learning Supports (TRAILS) works with at-risk students to provide behavioral, emotional, social, and academic support. They work with students with the goal of getting them into general education classes. During the planting days, the TRAILS students can pair up with general education students to work towards that goal.

During the summer, Wheat Ridge Sun Campers going outside to the Greenbelt to water the trees and pull weeds that are sometimes taller then they are! Sun Campers excitedly talk about taking their parents out to the Greenbelt to show them where they care for the trees and shrubs. They are excited to help care for the open space and learn about the plants and animals that thrive in the area.

Tree Stewards

Tree planting and maintenance in the Wheat Ridge Greenbelt is a community-wide effort. IES Tree Stewards come together to help Kullerstrand students on planting day and during the summer they implement the three-year maintenance program. Tree Stewards are trained community members and are an important part of the GREEN program and vital to the success of the program. They have been an active and effective force of dedicated community volunteers throughout IES programs the past five years.

Project Partners and Funding

GREEN would not be possible without the support from our community partners and funders:

- Kullerstrand Elementary School
- Wheat Ridge Parks and Recreation Department
- Wheat Ridge Recreation Center Sun Camp

GREEN receives generous funding from:

- National Fish and Wildlife Foundation
- Patagonia Denver
- The City of Wheat Ridge Outside Agency Contribution Program
- Donations from People like YOU!

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Appendix E
Planting Plan

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PD (5)
AI (8)
PV (3)
RC (10)
(10)
RC(10)
AI (5)
PV (2)
RT (6)
RT (6)
RC (3)
AI (12)
RT (6)
RC (10)
PV (2)
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AI (5)
PD (3)
RC (10)
AI (5)
PA (8)
CS (6)
PV (2)

IES 2017 GREEN Project
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Appendix F
Project Memorandum of Understanding

Institute for Environmental Solutions

761 Newport Street
Denver, Colorado
80220-5554 USA
303.388.5211
www.i4es.org
Solutions@i4es.org

January 9, 2017

IES 2017 Greenbelt Restoration and Environmental Education Network
Memorandum of Understanding

I. Introduction

A. Parties

- The Institute for Environmental Solutions (IES) (nonprofit corporation IRS section 501(c)(3))
- City of Wheat Ridge Parks and Recreation Department (WRPRD)
- Kullerstrand Elementary School

B. The project and the purpose

The purpose of the IES 2017 Greenbelt Restoration and Environmental Education Network (GREEN) project is to introduce at-risk, seriously emotionally disabled and general education students in the Kullerstrand Teaching Responsibility and Independence with Learning Supports (TRAILS) program and general education partner students to the natural environment through hands-on science education, while providing environmental improvement to a cherished open space, The Wheat Ridge Greenbelt. TRAILS works with at-risk students to provide behavioral, emotional, social, and academic support. IES GREEN will use the Wheat Ridge Greenbelt as a tool to enrich the science curriculum and socialization for students through workshops, planting days, and a nature walk. Students will positively change the environment by planting native trees, shrubs, and grasses, removing invasive species, and improving the Greenbelt's ecosystem, native species habitat, and Clear Creek watershed. IES will work with Kullerstrand educators to create a replicable program to be used with TRAILS students during subsequent years. In spring 2017, we plan two in-class workshops where the students will learn key concepts of ecology, how trees are a vital part of the ecosystem, and how to properly plant and care for trees. IES will partner with Kullerstrand Elementary School and WRPRD to develop and implement one or two planting days where students will plant approximately 50 native trees, and 100 shrubs and grasses. We will plan a nature walk for the students, led by WRPRD, where students will see how plants and animals interact, and what the trees and shrubs they planted look like when they reach maturity.

The conservation goals of the project are to improve riparian conditions along Clear Creek, and increase the canopy and vegetation of the Greenbelt through the planting of approximately 50 native trees and 100 native shrubs. Invasive species will be removed. A three-year maintenance plan will be implemented to improve the success rate of the trees and shrubs survival and decrease the opportunity for the growth of invasive species. IES will recruit and train local community Tree Stewards to help care for the newly planted trees and shrubs.

IES will produce a final project evaluation and video. With the help of Kullerstrand educators and WRPR, IES will critically evaluate the program and make suggestions for improvements for

the future. The program will be set up to be replicable so IES can use the program layout for future educational programs.

II. Provisions

A. Project Tasks

The tasks of the project include:
1. Engage stakeholders: IES will work with all stakeholders to implement the project.
2. Design a strategic planting plan.
3. Develop an education program to engage Kullerstrand TRAILS students: IES, with the help of Kullerstrand educators, will build a replicable program that engages students, teaches students about the local environment and ecology, and provides opportunities for meaningful socialization.
4. Implement an education program: Kullerstrand TRAILS will host educational workshops. IES and WRPRD, with the guidance of Kullerstrand educators, will teach students specific key concepts, provide hands-on training in tree planting and maintenance, and teach the importance of healthy canopy in riparian environments.
5. IES will organize and carry out one or two tree-planting events for Kullerstrand Elementary School's TRAILS students and their general education classmates.
6. Recruit volunteers: IES will recruit, train, and organize volunteers to establish a Tree Stewards team. Kullerstrand Elementary and WRPRD will assist with the recruitment effort.
7. Evaluate and report: IES will evaluate and report on the environmental and educational benefits of the program and will prepare a final report and video.

B. Project Organization

- IES is the project manager.
- Wheat Ridge Parks and Recreation Department is the project host and primary project partner. WRPRD manages the Wheat Ridge Greenbelt and has final authority over activities in the Greenbelt.
- Kullerstrand Elementary School is a primary project partner, host for students, and host for workshops.

C. Project Responsibilities

1. IES

Organize and manage the project. Obtain the necessary funding and in-kind contributions.
Design replicable classroom workshops that focus on science education and provide meaningful social interaction for students.
Design strategic tree planting plan and three-year maintenance plan that identifies strategies for long-term tree survival and improvement of the Wheat Ridge Greenbelt.
Recruit and train tree stewards from the Wheat Ridge community.
Track and report the project budget as required by the National Fish and Wildlife Foundation (NFWF) grant.
Send monthly in-kind tracking forms to WRPRD and Kullerstrand Elementary for reporting of hours worked and resources used.

Lead project evaluation.
Produce final report and project video.
Obtain supplies for the workshops and planting events.
Pay for trees and shrubs as needed.
Provide reports to NFWF and Patagonia Denver as required.

2. Wheat Ridge Parks and Recreation Department
Assist in site and planting day planning as a primary partner.
Obtain seedling trees and other plants.
Provide planting and invasive species removal supplies including soil, mulch, tools, beaver production cages, and water buckets.
Provide restroom access for planting event(s).
Assist in implementing strategies for long-term survival and three-year maintenance plan.
Assist IES with community outreach in Wheat Ridge.
Assist with fundraising.
Maintain in-kind records and return monthly record-keeping sheet to IES to comply with NFWF requirements.
Assist IES with the workshops providing education materials, and instructing students on proper tree planting techniques and safety for planting events.
Participate in stakeholder meetings.
Provide leaderships for nature walks for students at planting events.

3. Kullerstrand Elementary School
Review and approve classroom and planting day activities.
Provide adult supervision for all students during all IES project activities.
Kullerstrand staff members will be responsible for proper student and parent behavior at all events (classroom and Greenbelt).
Provide transportation and other arrangements for students to participate in planned events.
Assist IES with recruiting Tree Stewards.
Assist IES with community outreach in Wheat Ridge.
Assist IES with fundraising.
Maintain in-kind records and return monthly record-keeping sheet to IES to comply with NFWF requirements.
Assist IES with curriculum development.
Provide resources to help with education planning.
Manage parent involvement.
Provide liaison with the Kullerstrand PTA and with Jefferson County Schools as needed.
Participate in project stakeholder meetings.

IES, WRPRD, and Kullerstrand Elementary School agree to collaborate to fulfill the commitments set forth in the project goals and objectives. Any disagreements will be discussed and resolved within the stakeholder team.

D. Other Participants and Partners

IES has secured funding for the project. Donors include the National Fish and Wildlife Foundation, Patagonia Denver, and the City of Wheat Ridge through the Wheat Ridge Outside Agency Program. IES has applied for a Colorado Tree Coalition grant. Additional funding is

needed, as well as substantial in-kind contributions for the NFWF grant. IES will work with project partners to raise necessary funds and meet the in-kind contribution obligation.

III. Project Timeline

November and December 2016: Stakeholder meetings to approve initial project planning outline.
January and February 2017: Prepare educational program and planting program.
March 2017: Workshop One
April and May 2017: Planting day(s)
April and May 2017: Rain date(s)
May 2017: Workshop Two
July 2017: Final report and video
May 2017 through May 2020: Maintenance program

IV. Agreement

The following parties as evidenced by the signatures below agree to the project described above. IES, Wheat Ridge Parks and Recreation, and Kullerstrand Elementary School agree and look forward to implementing the 2017 IES *Greenbelt Restoration and Environmental Education Network* project according to this Memorandum. We agree to work together to resolve challenges if they arise, and communicate openly and frankly about shared goals and progress.

Signatures

Institute for Environmental Solutions:

Carol E Lyons
Carol E. Lyons, Executive Director

1-26-17
Date

Wheat Ridge Parks and Recreation:

Margaret Paget
Margaret Paget, Forestry and Open Space Supervisor

January 26, 2017
Date

Kullerstrand Elementary School:

Cheryl Clay
Cheryl Clay, Principal

1-26-17
Date

Jane Reuteler
Jane Reuteler, Kullerstrand Elementary School Psychologist

1/26/2017
Date

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Appendix G
Workshop 1 Outline

February 13, 2017
2017 IES Kullerstrand Wheat Ridge Greenbelt Restoration and Environmental Education Network (GREEN) Project
Workshop One Outline

Goals:
Increase student knowledge about Greenbelt ecology
Prepare students for planting days

Objectives:
Educate students about the Greenbelt and prepare them for the planting day.
Develop a workshop that is hands on and interactive, and will have adult guidance and support.
Develop a workbook for students to take home and continue their education.

Plan:
There will be four stations for the students. Each station is led by an IES associate. The students will be broken up into manageable groups (numbers to be determined) and move from one station to another. This will keep the students on task, engaged and active.

Schedule (on a one hour, fifteen minute timeline)

Introduction/ break into groups, 5 minutes
Station one, 15 minutes: Parts of a tree, needs of a tree, Margaret Paget / Robin Rice
Station two, 15 minutes: Planting day tools and safety, Carol Lyons
Station three, 15 minutes: How to plant a tree; plant your own! John Kelly
Station four, 15 minutes: Workbook, Maggie Michael
Wrap up, 10 minutes

Tools and materials
Parts of a tree – to discuss with Margaret Paget / Robin Rice
Planting day tools and safety demonstration – Don Mangus

- Shovels
- Mulch
- Dirt with hard clumps
- Watering container – jugs, bucket
- Gloves
- Diagrams, handouts showing planting
- A plant in a container
- Video or pictures of planting?
- Tub, drop cloth

How to plant a tree; plant your own

- Pots – one for each student plus a few extra
- Starts – one for each student plus a few extra
- Gloves – one for each student in a group
- Hand shovels – 5-6
- Dirt – potting soil
- Water

- "How to plant" worksheet

GREEN Kullerstrand Workbook

- Cover page
- Parent page
    - Description of program
    - What their students are learning
    - Planting/ workshop dates
    - How you can help! Tree stewarding program
- Word search
- Coloring page of a Greenbelt animal in its habitat
- Parts of a tree
- Connect the dots
- Animal match game
- Coloring page of a Greenbelt animal in its habitat
- Coloring page "It's easy being green" picture from sticker (can we get an outline version of the artwork from Andrew?)
- "Around your neighborhood" scavenger hunt page
- "I am a Greenbelt Tree Steward" (or something along those lines) certificate page

Draft
Patti Venneman
patti@i4es.org

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Appendix H
Workshop 1, Module 1: How to Plant a Tree

March 2, 2017
Draft How to Plant a Tree Module Content

Greenbelt Restoration and Environmental Education Network (GREEN) Workshop 1 Module

How to Plant a Tree Module

Module Objective

The objective of this module: students will know the steps to plant a tree or shrub at the planting day.

Materials

50 bare root shrubs
50 4-6 inch plastic containers
Potting soil
Mulch
Water jugs
Buckets to hold soil and mulch
Laminated How to plant a tree handout
Tree tags or blank nametag stickers
Sharpies
Flip chart
Tarp or cloth to protect floor or table
2 tables (if possible)

Set up

All materials will be laid on the ground next to a table. They should be in a row so the leader can walk down the row showing the students each material. Students should be standing around the table. Planting a tree handout (laminated if possible) should be placed on the table. Flip chart should be placed behind the table. A second table should be placed near the first to store completed plantings.

Directions for module leader

Students will learn how to plant a tree during the planting event. They will learn about the materials they will be using during the planting day and the steps that they need to take to plant a tree.

Introduce all the materials. Hand out the plant–a-tree handout. Explain and demonstration step-by-step the techniques to planting. After each step is explained, students will complete that step. Use materials while explaining and demonstrating each step.

1. Take your pot. Fill the pot half way with soil.

2. Pick up your plant, check the root ball, and dig a hole deep enough (twice to three times as wide and deep as the roots) in the soil that will hold the root ball.
3. Plant seedling in ground quickly with the roots straight down.
4. Fill the hole with loose soil. Make sure that the soil covers to the top of the root. Pat down the soil around the bottom of the plant lightly.
5. Mulch around the bottom of the plant.
6. Water the seedling.
7. Pick up a tree tag and name your seedling and put your name on the tag as well. Remember that you can name all your plants during the planting event, so start thinking of names!

When finished, ask if the students have any questions. Remind them that these plants are now theirs and that they need to water them once or twice a week to make sure they stay healthy and grow. Also remind them that they will need sunlight to grow, and that when their plant gets too large for the container, they can replant it in their yard. Finally, have students place their pots on the second table and let them know they can come back to get their plants (after the workshop is over, when the teacher says it's ok, or end of the day).

Review and conclusion
Review key points.

Direction for students

Listen carefully and ask questions if you are confused
Follow the leader's instructions and plant your own plant
Name your plant
Make sure to water your plants after you take them home
Put your name on the container.

Draft
John Kelly, Tree Project Manager
john@i4es.org

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Appendix I
Workshop 1, Module 2: Workbook

March 20, 2017
Workshop Module: Workbook

Greenbelt Restoration and Environmental Education Network (GREEN) Workshop Module

Workbook

Module Objective: The workbook will teach the students various aspects of the Greenbelt, planting, and tree parts. The student will know how to complete the workbook to the best of their abilities to prepare for planting day.

Materials: Workbook for each student and coloring supplies

Set up: Workbooks will be laid out on the table for students to sit with. There will be coloring utensils scattered around the table, with enough for each student to have access to several.

Directions for module leader:

Introduction and overview: "Hi everyone. The workbook you see in front of you is now yours. This means that is your responsibility to make sure it does not get lost so keep extra special care of it. Let's start by putting your name on the front page so that you will know which one is yours. If you can hold on to this workbook and really pay attention to all the modules today you will earn a "tree steward" certificate at the end of the day!"

Content: "Everyone can go ahead and look through the workbook. There are instructions at the top in green that tell you what to do. Some of the pages are just coloring, but then there are some harder ones like the word search. There is a scavenger hunt page where you find different things in your neighborhood. This is the only page that you will have to wait until you get home to do (show page). Now what page would everyone like to start on? Start there and if you finish move on to a different page. You can finish the rest at home."

Review and conclusion: "Great job everyone! Now put your name on the last page and I will sign it. It shows that you finished today's workshop and are officially a tree steward ready to plant! Make sure to take care of your workbook and work on it when you get home so that you're ready for the planting day in a couple months. Also, make sure to do the scavenger hunt. You can do this with a friend, sister, brother, or parent. "

Directions for students: Only work on your workbook, do not draw on anyone else's. Read the directions and if you need help ask one of the IES team members.
Show me when you have completed one page in the workbook.

Draft
Maggie Michael
Maggie@i4es.org

Name: _____

INSTITUTE FOR ENVIRONMENTAL SOLUTIONS

KULLERSTRAND GREEN WORKBOOK

March 2017

KULLERSTRAND GREEN www.i4es.org

KULLERSTRAND ELEMENTARY SCHOOL

Greenbelt Restoration and Environmental Education Network (GREEN)

A Message for Kullerstrand Parents:

Hello parents of Kullerstrand students!

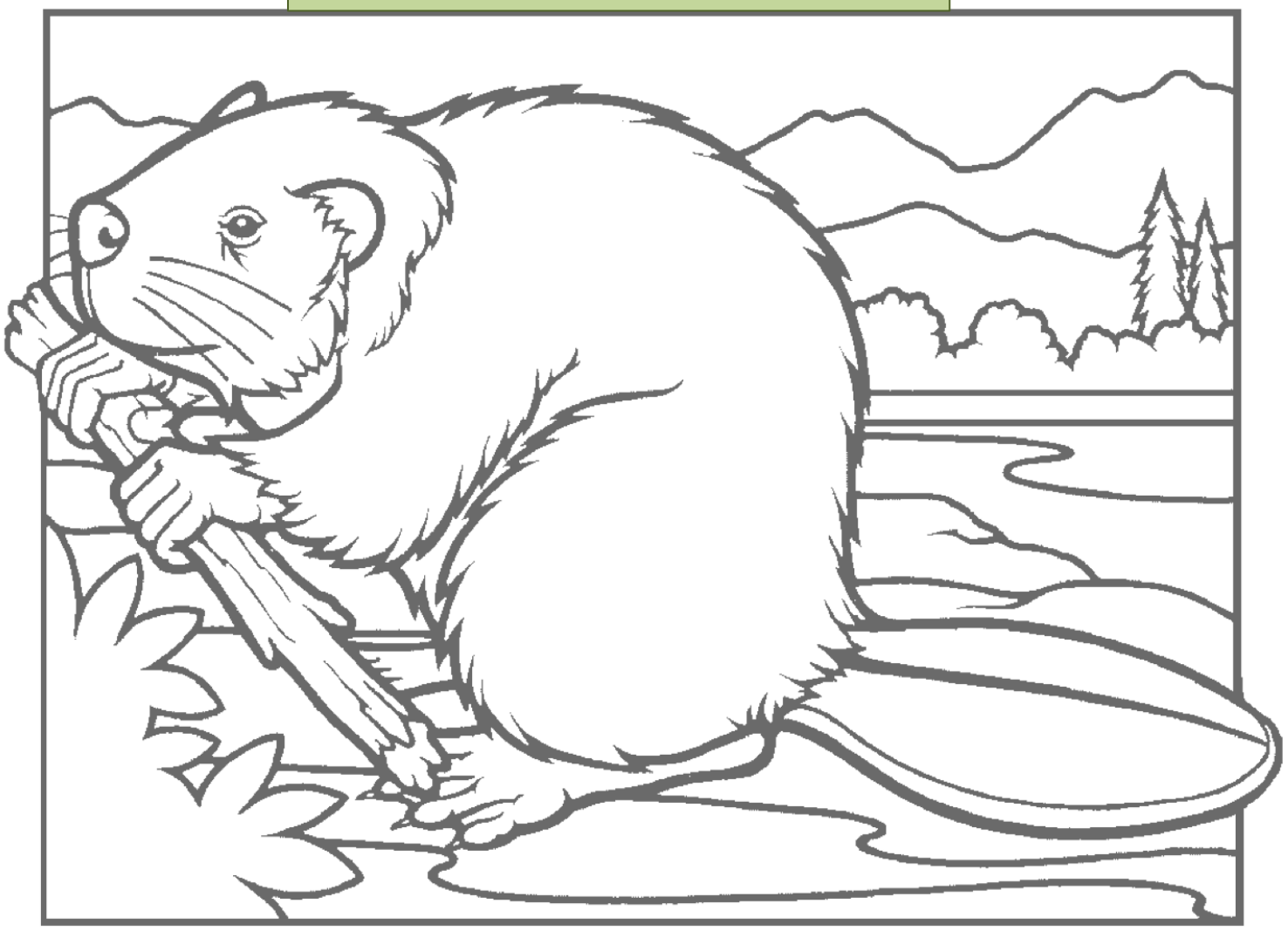
The Institute for Environmental Solutions is excited that your child is participating in the 2017 Greenbelt Restoration and Environmental Education Network (GREEN) project in Wheat Ridge. Your student participated in a workshop to teach them about ecology in the Wheat Ridge Greenbelt and to prepare them for planting trees on May 5 and May 12.

We look forward to aiding your child's education by teaching them about trees and animal species, how to plant trees and shrubs, and how to care for the new plants as they grow. We hope your child develops a sense of accomplishment during the GREEN project. This workbook will help to get them excited about planting day and will increase their knowledge about nature. You can help your child navigate this workbook by helping them find scavenger hunt items and answering questions that they may have about the instructions.

If you have questions about the GREEN program, please contact us at 720-295-4437 or Solutions@i4es.org.

Thank you for your support!
Carol Lyons
Executive Director

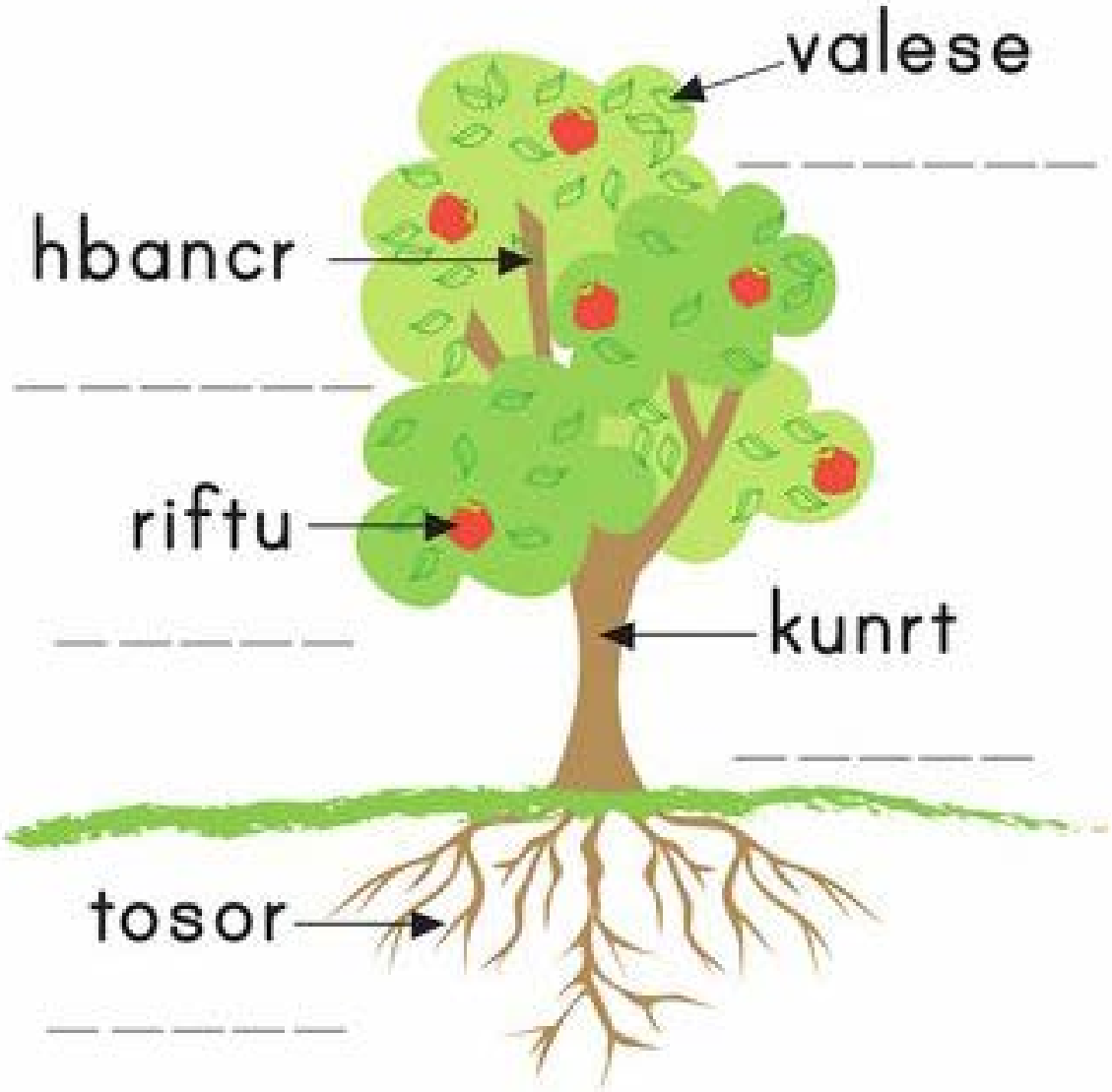
Color the beaver!



-

Find the parts of the tree:

Unscramble the words to find what each arrow is pointing to.



Connect the dots

Draw a line following the numbers from 1 to 31. Draw another line following the alphabet from A to G. Color the picture when you find out what they are planting!

Color the squirrel!

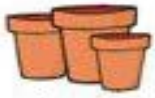
Match the tool to its picture.

Write one of the words on the right side in the blank that matches the picture.
Hint: trowel is another word for shovel.

This is a _____

These are _____

This is a _____



These are _____

This is a _____

This is a _____

These are _____

Water Can

Trowel

Bag of Seeds

Gardening Fork

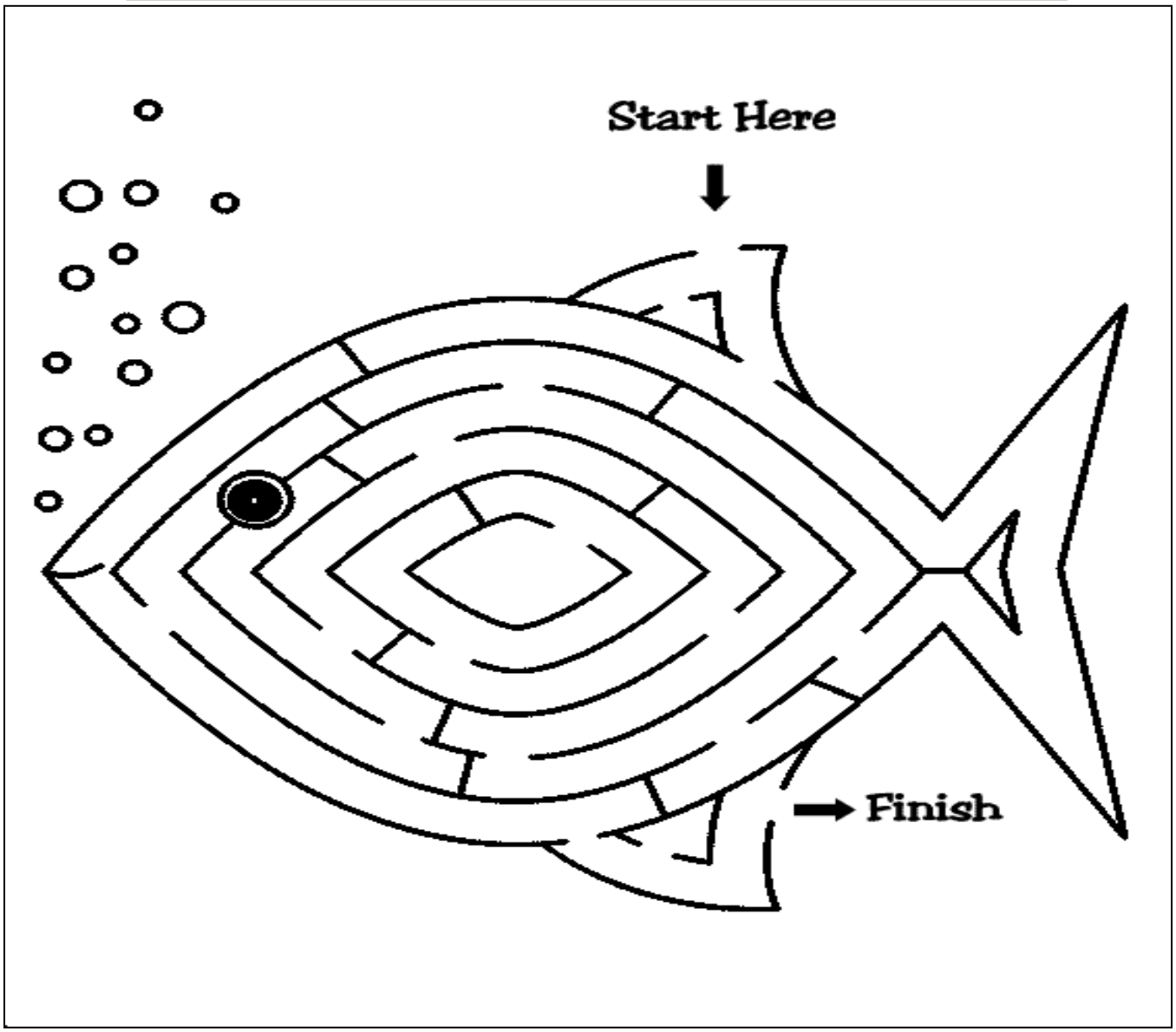
Gardening Gloves

Gardening Boots

Planting Pots

Solve the maze

Draw a line through the maze starting at “start here” that connects all the way to the “finish”. Then color the fish!



Color the IES sticker

Scavenger hunt

Look around your neighborhood and find these things.
Then write where you found them on the blank line.

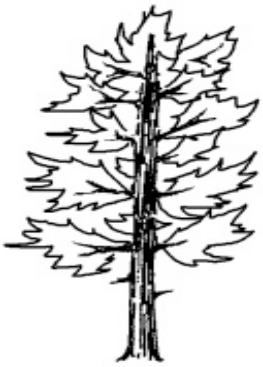
- A tree with leaves that are skinny and sharp like a Christmas tree
  _____
- A tree with big leaves
  _____
- One tree that is so small you can fit your hand around the trunk
  _____
- One tree that is so big that when you hug it, you can't touch your fingers together _____
- A pinecone _____
- A flower _____
- Dirt that is really dry and sandy
  _____
- Dirt that is moist and dark brown
  _____
- A squirrel climbing a tree
  _____
- A branch that hanging down as if it may fall off
  _____
- A tree with no leaves
  _____
- The tallest tree in your neighborhood!
  _____
- A tree that has a bird nest in its branches
  _____
- *BONUS: Describe something that you found that you have never seen before!*

Tree word search

Locate the different types of trees from the word bank hidden in the jumble of words. They will be either straight across or diagonal. Look at “Fir” for an example.

J K K S N C V T R C O V Z C A
U Z C F B H R B M A P L E O S
W F R O F N A Q R N C P V T P
H C R A L S Q A V E Q V M T E
C W Q C S M L M D I R K H O N
P E O W D P E A G I V F S N L
Z V O B O T R H F U O H B W E
E O Y P E Z Y R O K C I H O R
D N I M I E S E K M A B N O G
P E I W F T C R Y M U N E D Q
Y A Y P C Q V H Y D T A C C S
B M V O S C L L D Y Y F U G N
S M X O T F Q V T X O H R Z K
T P M W G Y C E W T C J P C A
B O E L M B S A H C J L S J O

ASPEN BASSWOOD BEECH
CEDAR COTTONWOOD ELM
FIR HEMLOCK HICKORY
LARCH MAPLE OAK
PINE POPLAR SPRUCE



Certificate of
Award
This certificate celebrates
for
Becoming a Greenbelt Tree Steward
Signed
Date
Shoot for the moon. Even if you miss,
you'll land among the stars!—Les Brown

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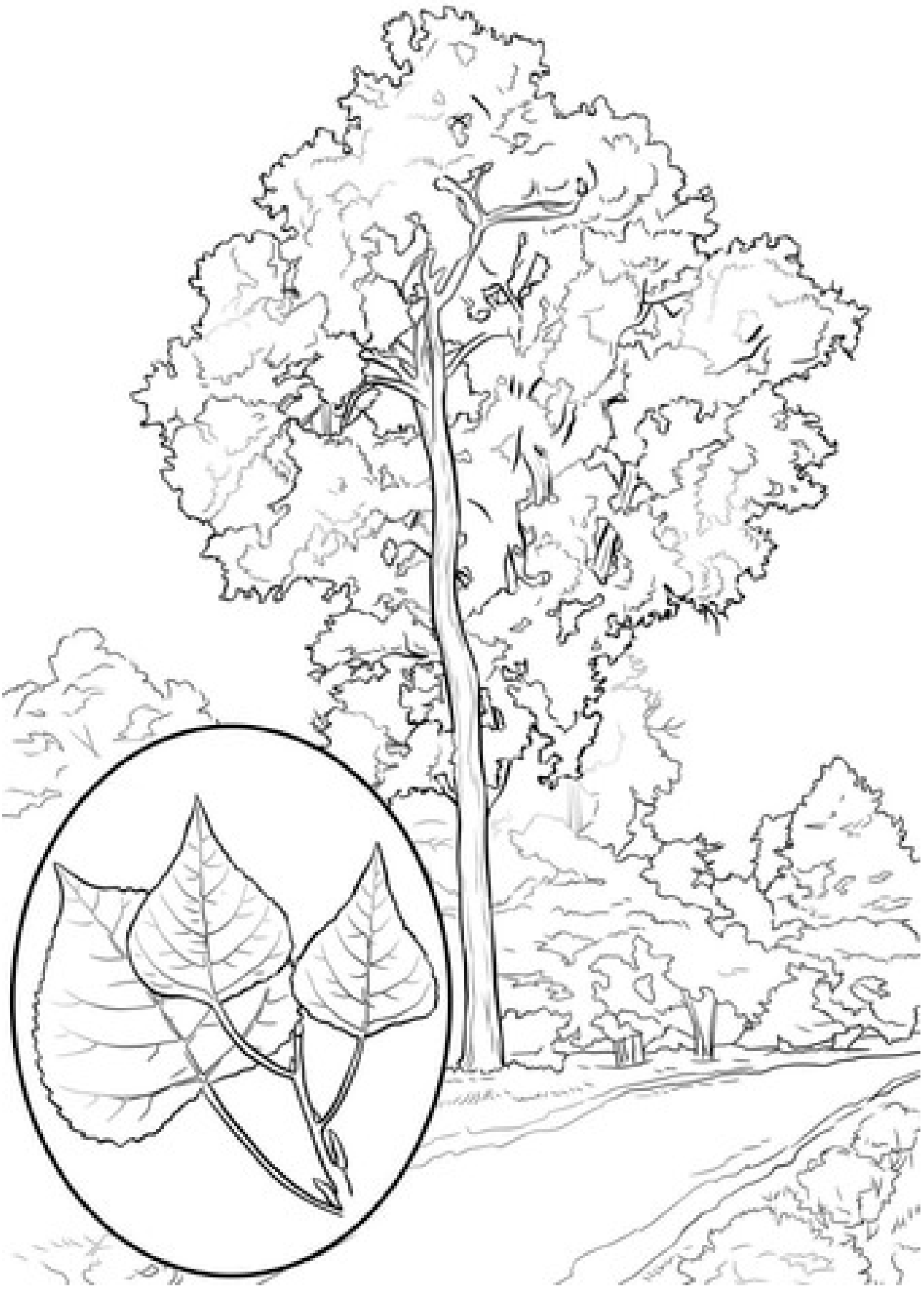
Appendix J
Workshop 1, Module 3: Parts of a Tree



Trees

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Appendix K
Workshop 1, Module 4: Tools and Safety

March 2, 2017
Draft Tools and Safety Module Content

Greenbelt Restoration and Environmental Education Network (GREEN) Workshop 1 Module

Tools and Safety Module

Module Objective

The objective of this module: students will understand about the tools they will use during the planting event and be able to participate in the planting safely.

Materials

1-2 shovels
1-2 hand spades
5-6 pairs of gloves (one for each student)
2-3 buckets
Flip chart
Markers
Flags
Mulch
Wire cages
Staples

Set up

Materials will be lined up in front of the module leader, except for the flip chart. The flip chart will be placed behind the leader.

Directions for module leader

Leader will introduce the module: "Students, this station will teach you about the tools you will use on the planting day. We will also discuss how to safely use all of these tools to make sure no one gets hurt. I will introduce a tool and then pass it around. I want everyone to pick it up and feel the weight because you will be using each one of these during the planting day."

Tell students that if they have questions to raise their hands. Leader will answer question or write down the question on the flip chart if they don't know the answer.

Introduce each tool separately. Explain how it will be used at planting day. Demonstrate how it will be used. Once the demonstration is complete, have each student complete the same action. For example, with the shovel, demonstrate that to use the tool safely students should stand behind the shovel and use one foot to press the head of the shovel into the

dirt, and then gently place dirt to the side of the hole they are digging. Start with the gloves so each student can wear a pair of gloves during the rest of the lesson.

Include:

- Be deliberate and focused, not playing
- Never have two feet on the shovel
- No jumping or swinging of the shovel
- While carrying tools, keep the heads pointed down and make sure that you aren't swinging the tools.
- When you are done planting, make sure the tools get brought back to where you got them and place them tines down.

After all tools have been discussed, move on to safety. Ask students why safety is important while planting. List all ideas on the chart as students respond.

Include:

- No one gets hurt
- Plants don't get damaged
- You and your classmates feel safe
- Everyone has fun

Review and conclusion
Review key points and re-read the charts as needed.

Direction for students

Listen carefully and ask questions.
Be careful with all tools when you hold them.

Draft
John Kelly, Tree Project Manager
john@i4es.org

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Appendix L
Workshop 2 Outline

2017 IES GREEN Workshop Two Agenda
Tuesday, May 16 2017
Kullerstrand Elementary School
12225 West 38th Avenue, Wheat Ridge, CO 80033

IES team arrives for set up	12 noon
First class arrives	12:30 pm
Introduction	Carol
Activity one	12:35 pm
Group one: Caring for trees	John
Group two: Thank you to project sponsors	Maggie
Group three: Greenbelt inhabitants	Patti
Group four: Evaluation	Carol
Activity two	12:45 pm
Group one: Evaluation	Carol
Group two: Caring for trees	John
Group three: Thank you to project sponsors	Maggie
Group four: Greenbelt inhabitants	Patti
Activity three	12:55 pm
Group one: Greenbelt inhabitants	Patti
Group two: Evaluation	Carol
Group three: Caring for trees	John
Group four: Thank you to project sponsors	Maggie
Activity four	1:05 pm
Group one: Thank you to project sponsors	Carol
Group two: Greenbelt inhabitants	Patti
Group three: Evaluation	Maggie
Group four: Caring for trees	John
Come together as a group and thank the students	1:15 pm
Wrap up workshop	Carol
Second class arrives	1:30 pm
Introduction	Carol
Activity one	
See list for first class	1:35 pm
Activity two	1:45 pm
Activity three	1:55 pm
Activity four	2:05 pm
Come together as a group and thank the students	2:15 pm
Wrap up workshop	Carol
IES Team clean up	

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Appendix M
Workshop 2 Module 1: Matching Game

April 24, 2017
Matching Game Module

Greenbelt Restoration and Environmental Education Network (GREEN) Workshop Module

Greenbelt Matching Game

Module Objective: Students will know some examples of wildlife that live in the Greenbelt

Materials:
One set of 15 pairs of cards – each pair with an animal from the Greenbelt.
Two sheets of laminated paper with the rules of the game.

Set up:
The cards will be placed face down in rows.

Directions for module leader:
Leader will introduce the Greenbelt; discuss what it is (trees, creek, grasses, shrubs, etc.).
Leader will ask students which animals they might see in the Greenbelt.
Leader will show each pair of cards to the students and introduce the animals to them.
Leader will ask the students how the animal might interact with the environment (example: ducks live in water, beavers build dams, deer eat grass).
The leader should tell them it is like "Memory". Most kids have played memory so they should be familiar with the game. Read the rules aloud to the students, and have a copy ready to share if there are questions.

List of animal/ environmental interactions
To be determined

Directions for students: Take turns going in a clockwise circle. Pick up a card and flip it over. Then pick up another card and flip it over. If they look exactly alike (for instance two ducks) then you keep the pair. When you make a match, tell the other students in your group how the animal interacts with the environment of the Greenbelt. You may take another turn. If they do not match, then flip the cards back over and it is the next person's turn to play. The game is over when the final match has been made. The winner of the game has the most matches.

Patti Venneman
patti@i4es.org

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Appendix N
Workshop 2 Module 2: Tree Care Board Game

April 18, 2017
Draft GREEN classroom workshop module, Tree Care board game

Evaluation Module

Module Objective

The objective of this module is to give the students of FLN the opportunity to learn about and discuss tree care techniques.

Materials

- Flip chart
- Markers
- Tree care board game
- Tree Care Booklets

Set up

The board game will be placed on a table. The board game will be ready to be played by students. The flip chart will be set up behind leader with questions pre-written on the pages.

Directions for module leader

The module leader will introduce the board game and direct the students while they play the board game. Students should draw a card and then explain to the other students why the card is either a good or bad technique for tree care. Students will need to draw their cards one at a time and talk to the other students. The game is not over until everyone has finished. If the student is struggling to explain their card, provide some assistance. Also, make sure to try and guide the students who may be the last on the board to ensure all students finish the game during the module.

Review and conclusion

Thank you all for participating! Please read the tree care book with your parents! If you want to come out and water your plant during the summer, please let your teacher know. Your teacher will get in contact with IES to let us know if anyone wants to volunteer! Thanks and enjoy the next module!

Direction for students

Play the game! Draw a card and explain to your fellow students why this card would move your forward or backward along the game board. If you have questions, make sure you raise your hand.

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Appendix O
Workshop 2 Module 3: Evaluation

April 23, 2017
Evaluation Module Content

Greenbelt Restoration and Environmental Education Network (GREEN) Workshop 2 Module

Evaluation Module

Module Objective

The objective of this module: students will provide feedback on the planting day events.

Materials

- Flip chart
- Markers

Set up

The flip chart will be set up behind leader with questions pre-written on the pages. The leader will stand in front of the group of students.

Directions for module leader

The leader will introduce the module: "Hi students, in this station we will talk about how you felt about the project. I will ask you questions and you will help me fill in the page. Then we will take some time to draw your favorite parts of the project."

Questions:

1. What was your favorite part of the planting days?
2. What was your favorite station from the workshops?
3. What did you learn from the project?

After the answers have been written down for each question, the first page with question one will be laid out on the table. The leader will point to some of the written answers and ask students to draw them. If there is time, students will draw the favorite parts from the workshops too.

Review and conclusion

Review the drawings that students added to the question one page.

Direction for students

Listen carefully and answer questions.

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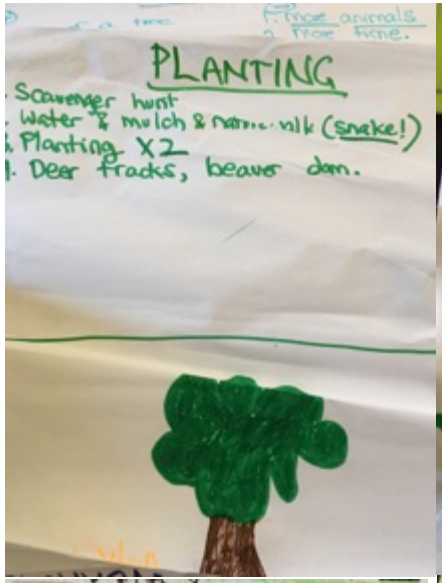
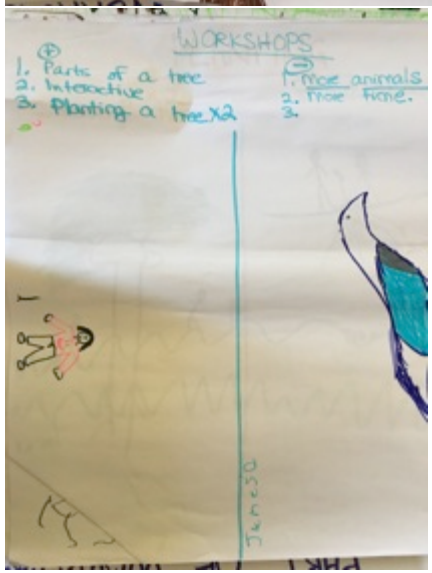
Appendix P
Workshop 2 Module 3: Evaluation Flip Chart Photos

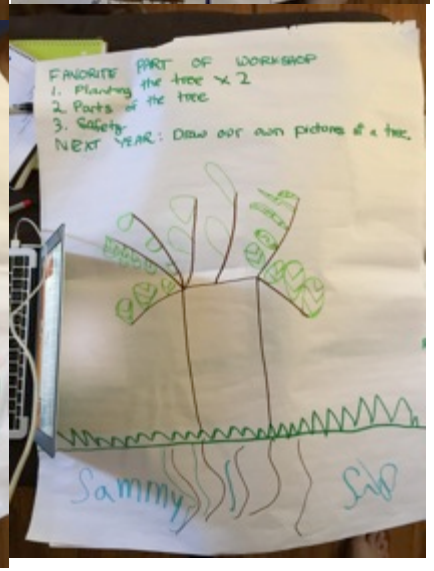

PLANTING
Scavenger hunt
Planting X2
Deer tracks, beaver dam.

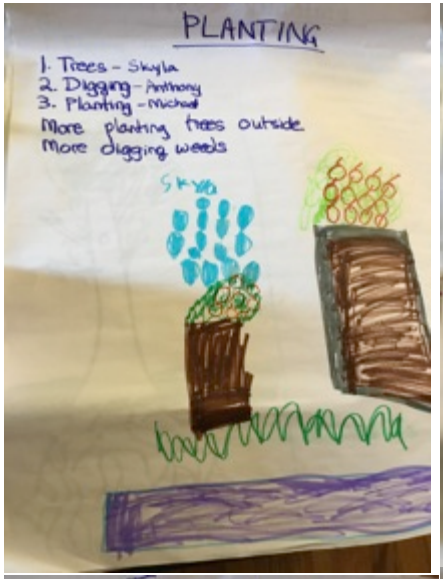
Workshops
1. Nice people.
2. Parts of tree.
Next year: more writing.
ASPEN

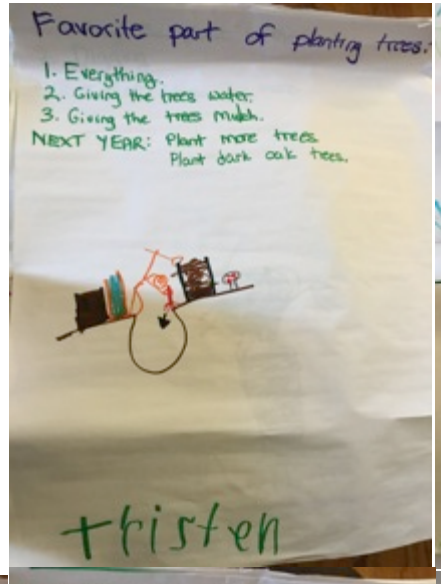
WORKSHOP
1. Planting tree.
2. Matching
3. Planting tree
MICHAEL

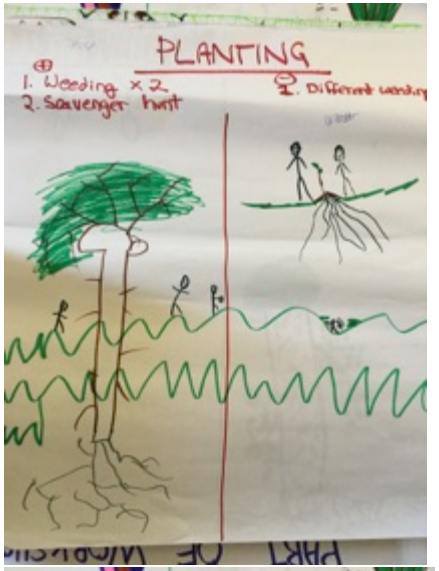

WORKSHOPS
1. Parts of a tree
2. Interactive
3. Planting a tree X2
1. Tree animals
2. Tree time.
3.

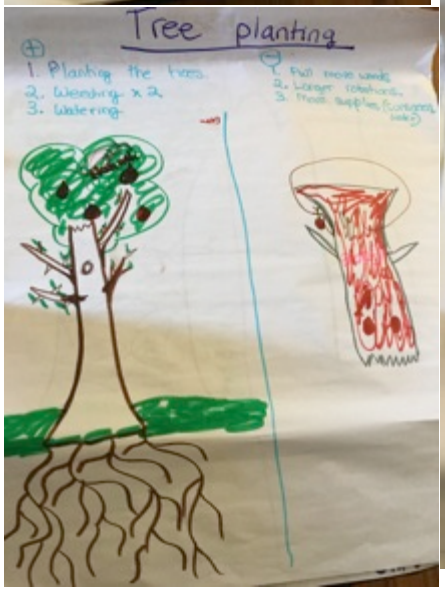
WORKSHOP
1. Planting tree.
2. Matching
3. Planting tree
MICHAEL

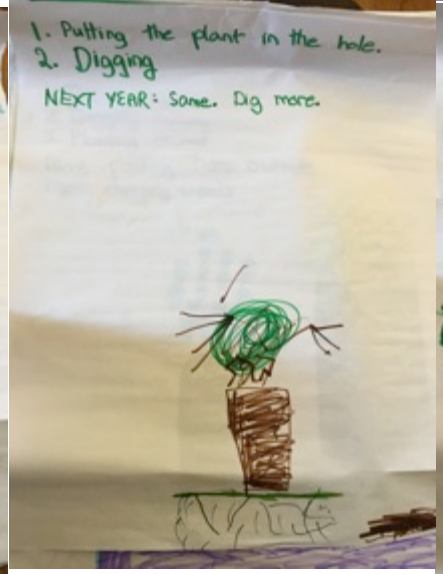

FAVORITE PART OF WORKSHOP
1. Planting the tree x 2
2. Parts of the tree
3. Safety
NEXT YEAR: Draw our own pictures of a tree.
Sammy

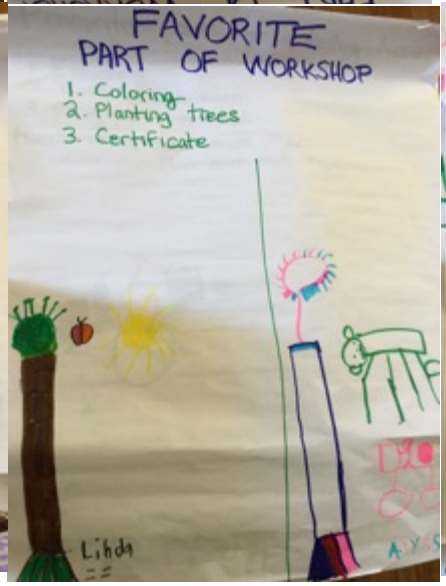

PLANTING
1. Trees - Skyla
2. Digging - Anthony
3. Planting - Michael
More planting trees outside
More digging weeds

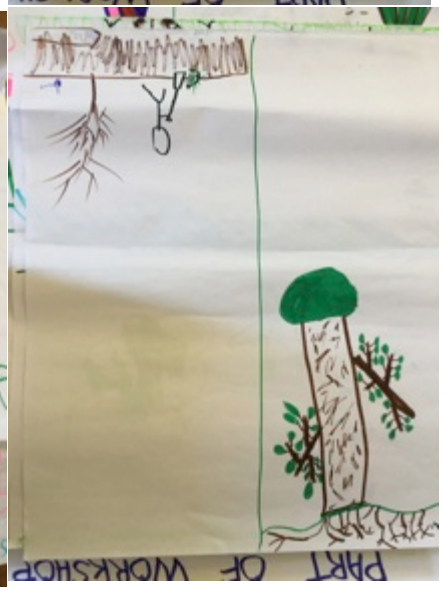

Favorite part of planting trees.
1. Everything.
2. Giving the trees water.
3. Giving the trees mulch.
NEXT YEAR: Plant more trees.
Plant dark oak trees.
Kristen


PLANTING
1. Weeding x 2.
2. Scavenger hunt


Tree planting
1. Planting the trees.
2. Weeding x 2.
3. Watering.


1. Putting the plant in the hole.
2. Digging
NEXT YEAR: Same. Dig more.


FAVORITE
PART OF WORKSHOP
1. Coloring
2. Planting trees
3. Certificate
Lilah



WORKS HOPE
1. Learn skill, parts of tree.
Tree and Bobby
groot

PLANTING TREES
1. Finding earthworms.
2. Watering
3. Nature walk.
4. Planting trees, weeding

Alicia 6th grade

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Appendix Q
Workshop 2 Module 4: Thank You Module

April 24, 2017
Draft GREEN workshop II thank you module

Thank You Module

Module Objective

The objective of this module is to provide students with the opportunity to say thank you to all those who made this program possible and to paint a picture of their tree planting work.

Materials

- 4 25*30 inch pieces of paper from a flip chart that have an outline of a tree drawn on them. Additionally, the paper will have the donor's name written boldly across the top as well as a thank you message under the tree.
- Colored pens or colored pencils
- Colored finger paints
- Water
- Rags, paper towels
- Paper plates

Set up and direction for module leader

Four large pieces of paper with an outline of a tree will be set up side-by-side on a table. Next to each paper will be a paper plate with a dollop of each colored finger paint. There will also be colored pens or pencils around the station. Nearby will be water and rags available for the children to use during clean up.

An IES Associate will lead an introduction to the thank you module, outlining instructions.

- "Hi students, welcome to the thank you module! I hope you all had a really great time planting and care for trees. There are a lot of really generous people that contributed money to buy the trees and plants for you to plant. We thought it would be nice to tell them thank you. What better way to do that then drawing a tree!
- We have four outlines of trees here. We are going to help make those trees beautiful and then each of the papers will go to someone who helped make this project possible. This is a quiz game. First, everyone pick a buddy. I am going to ask you some questions, you will talk with your buddy, and then raise your hand if you know the answer. After you answer, you get to put a finger in to the paint and then dab it on to the four papers.
- Where you dab your finger will depend on what question you answer correctly. For example, if you answer a question about leaves you will put your fingerprint on one of the branches to act like a leaf. Let's get to the questions!"
- Questions:

What part of some trees falls off in the fall? Leaves
What part of the tree goes down deep in to the earth to absorb nutrients? Roots
What part of the tree can break off when there is a lot of snow? Branch

What part of the tree is sometimes so big you can not even wrap your arms around it? Trunk
What part of the tree is where birds build their nests? Branch
What part of some trees changes colors? Leaves
Where do you want to water your trees? Around the trunk
What part of the tree is hidden below the ground? Roots
What part of the tree do you put in to piles and jump in? Leaves
What part of the tree carries water to the rest of the tree? Roots
What part of the tree can snap if you pull on it? Branch
What part of the tree has thick bark on it? Trunk
What part of the tree can be soft? Leaves
What part of the tree would you find if you dug deep down in to the earth? Roots
What part of the tree sways in the wind? Branch
What part of the tree is the biggest part above ground? Trunk

- Continue asking tree part related questions having the children place fingerprints around the tree
- Stop asking questions with about three minutes left in the module and have the children sign their names around each of the four papers. If any child did not answer a question then make sure and ask them one so they have the opportunity to put a fingerprint on the tree.
- Once the children are done have them clean off their hands with the water and rags, and clean up the table and trash.
- "Thank you all so much for helping make these beautiful thank you notes for our funders. They will really appreciate them!"

<u>Directions for students</u>

Students will wait patiently to put a fingerprint on the tree until they answer a question correctly. They may not draw on the papers more than a fingerprint and a signature. Students must wash their hands before moving to the next module.

Draft
Maggie Michael
Maggie@i4es.org

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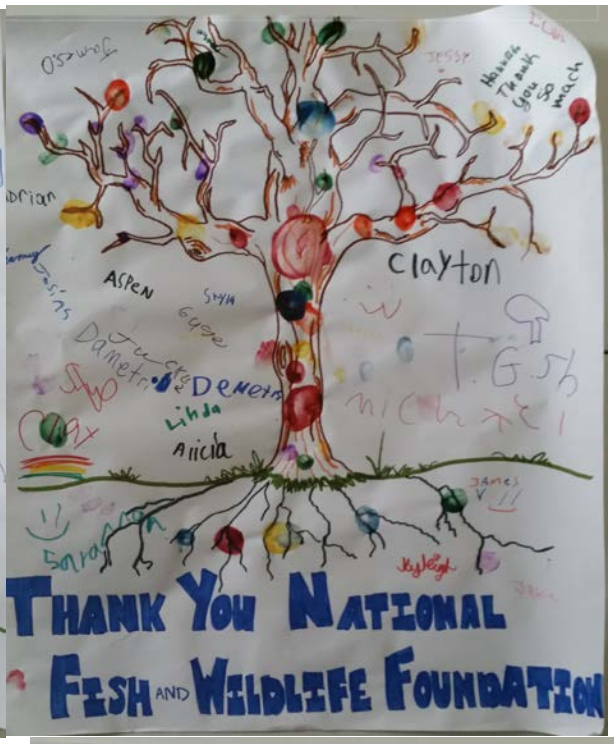
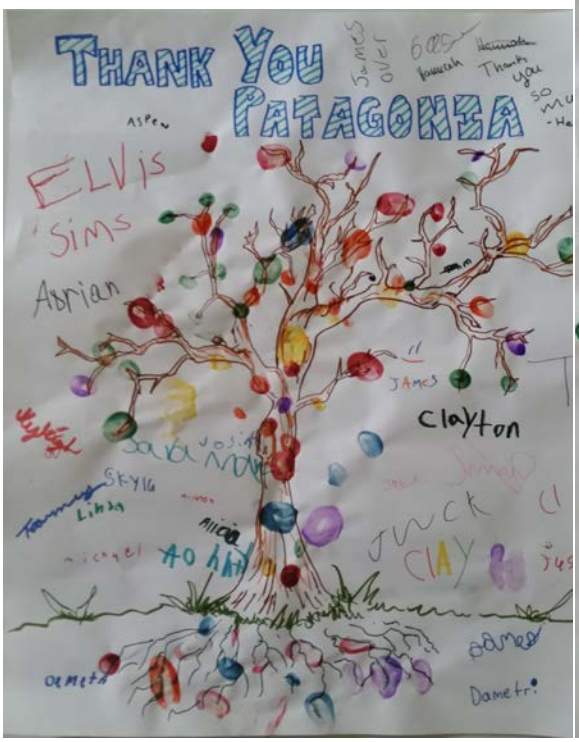
Appendix R
Workshop 2 Module 4: Thank You Flip Chart Photos

THANK YOU
COLORADO TREE
COALITION
Clayton


Clayton
THANK YOU NATIONAL
FISH AND WILDLIFE FOUNDATION


THANK YOU PATAGONIA
ELVis
Sims
Adrian
Clayton

THANK YOU CITY OF
WHEAT RIDGE PARKS
AND RECREATION
Clayton

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Appendix S
Planting Day Volunteer List

UPDATED 4/19/17 IES Wheat Ridge GREEN Project: Volunteers for Planting Days May 2017

NAME OF VOLUNTEER	**DATES REQUESTED BY VOLUNTEER**
Jennifer Brown	5/12
Susan Crisfield	5/5 or 5/8 or 5/12 (pick one)
Art Hertel	5/5 or 5/8 (pick one)
Heather Johnson and Dan Shannon	5/5
Lloyd Levy	5/5 or 5/8 **AND** 5/12
Lynnea Ossello	5/5 or 5/8 or 5/12 (pick one)
Betty Jo Page	5/12
Kelli Stiponovich	5/5 **AND** 5/12
Rob Robinson	5/5 or 5/8 **AND** 5/12
Don Mangus	5/5 or 5/8 **AND** 5/12
Joann Freedman	5/12
12 TOTAL VOLUNTEERS	

5/5 ASSIGNED (X)	**VOLUNTEERS THAT REQUESTED 5/5**
	Susan (or **5/8** or 5/12)
X	Art (or 5/8)
X2	Heather and Dan
X	Lloyd
	Lynnea (or **5/8** or 5/12)
X	Kelli
X	Rob
X	Don
7 TOTAL VOLUNTERS	

5/8 ASSIGNED (X)	**VOLUNTEERS THAT REQUESTED 5/8 Rain Day if needed**
X	Susan (or 5/5 or 5/12)
X	Art (or 5/5)
X	Lloyd
X	Lynnea (or 5/5 or 5/12)
X	Rob
X	Don
6 TOTAL VOLUNTEERS	

5/12 ASSIGNED (X)	**VOLUNTEERS THAT REQUESTED 5/12**
X	Jennifer
? (X if no **Rain Day)**	Susan (or 5/8 or 5/5) –
X	Lloyd
? (X if no **Rain Day)**	Lynnea (or 5/5 or 5/8) –
X	Betty Jo
X	Kelli
X	Rob

X	Don
X	Joann Freedman
7-9 TOTAL VOLUNTEERS	

Don Mangus, April 6, 2017
Don@i4es.org

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Appendix T
Planting Day Volunteer Packets

April 11, 2017
Draft Set Up for Volunteer Packets

The objective is to have these packets put together for every volunteer so that when they arrive they can pick up their packets, making a smooth transition from arrival to helping where assigned.

<u>Packets for planting day one for each volunteer will include</u>
T-shirt
Hat
Name-tag
Assignment
    Module sheet
    Cheat sheets (if needed)
Waiver (if not signed)
Agenda

<u>Packets for planting day two for each volunteer will include</u>
T-shirt (if they didn't volunteer for planting day one)
Hat (if they didn't volunteer for planting day one)
Name-tag
Assignment
    Module sheet
    Cheat sheet (if needed)
Waiver (if not signed)
Agenda

Draft
Patti Venneman
patti@i4es.org

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Appendix U
Planting Event 1 Module 1: Nature Walk

April 23, 2017
Nature Walk Module Content

Greenbelt Restoration and Environmental Education Network (GREEN) Planting Day I
Nature Walk Module

Nature Walk Module

Module Objective

The objective of this module: students will develop an understanding of Colorado's ecology through a guided nature walk.

Materials

Set up

Module leader will lead kids along the trail and interpret natural surroundings.

Directions for module leader

Module leader will introduce the module and provide instructions to the students. The module leader should provide clear instructions about what the students can do during the nature walk and what they can expect to see or touch during the walk.

Set some ground rules:

- Observe like a scientist, carefully looking
- Gently touch, carefully observe, leave in place
- Respect insects and animals homes, habitats.
- Please walk, walking only.
- If you have a question, ask!
- Stay within site of the leaders
- Have fun!

Review and conclusion

Review key points and answer final questions.

Direction for students

Listen carefully and ask questions.
Walking only.
Respect nature, leave everything in its place.
Respect wildlife by keeping a distance.

Be safe.

Elizabeth Angell, IES Intern
elizabeth@i4es.org

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Appendix V
Planting Event 2, Module 1: Scavenger Hunt

April 23, 2017
Scavenger Hunt Module Content

Greenbelt Restoration and Environmental Education Network (GREEN) Planting Day II
Nature Scavenger Hunt Module

Nature Scavenger Hunt Module

Module Objective

The objective of this module: students will solidify their understanding of Colorado's ecology through a self-guided nature scavenger hunt.

Materials

15-20 Clip boards
15-20 Pencils
15-20 Scavenger hunt worksheets (per rotating group, 45-60 total)

Set up

Module leader will give directions then hand out clip boards, pencils and scavenger hunt worksheets. Students will walk along trail looking for scavenger hunt items.

Directions for module leader

Leader will introduce the module: "Students, last week you went on a nature walk where Ms. Rice introduced you to the plants and animals that live here along the trail. Today, you will have the opportunity to explore nature more on your own through a scavenger hunt. Each of you will walk along the trail with a buddy. I will give each pair a clip board with a pencil and a scavenger hunt worksheet. Read each item on the list off and then go try to find the item. For example, one question asks if you can find an insect. Search around for an insect along the ground or on a plant, remembering to respect the insect by not picking it up. Find as many items on the list as you can, but move on to the next item if you get stuck and cannot find it."

Set some ground rules:

- Observe like a scientist, carefully looking
- Gently touch, carefully observe, leave in place
- Respect insects and animals homes, habitats.
- Please walk, walking only.
- If you have a question, ask!
- The hunt is over when the whistle is blown.
- Stay within site of the leaders
- Have fun!

Leader will remind students to, “Stay with your buddy!” Then the leader will hand out the scavenger hunt materials.

Tell students that if they have questions to raise their hands. Leader will walk up to them and answer questions as they can.

Review and conclusion
Save some time at the end to review what students found when hunting for items on their list.

Direction for students

Listen carefully and ask questions.
Walking only.
Respect nature, leave everything in its place.
Be safe.

Elizabeth Angell, IES Intern
elizabeth@i4es.org

Nature Scavenger Hunt

Travel along the trail and circle the number of the items that you see. If you know the name, write it down on in the blank next to the item.

1. Something in nature that is taller than you.

   Draw it:

2. A stick that looks like the letter ‘Y’.

   Check the box if you found one. ☐

3. An insect.

   Draw it:

4. Two different kinds of leaves.

   Draw them:

5. Something in nature that is smooth or rough.

What is it? _____

6. Something in nature that makes a noise.

What is it? _____

7. Two kinds of birds that you see.

Draw them:

8. Something in nature that you think is beautiful.

Draw it:

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Appendix W
Planting Events Module: Planting

April 21, 2017
IES 2017 GREEN planting day planting module

Planting Module

Module Objective

The objective of this module is to provide students and volunteers with the opportunity to plant native trees and shrubs during the GREEN planting events. Volunteers will be instructed on how to supervise student groups during the planting process. Students will receive an explanation of the module rules and a review about planting procedures. They will demonstrate the ability to plant with guidance and support.

Materials

- Shovels
- Gloves
- Wheelbarrows
- Plant material
- Mulch
- Buckets
- Water
- Wire cages
- Instruction sheet for volunteers

Set up and direction for module leader

Kullerstrand students will participate in planting along the trail. Plant material will be set up near the planting area. Water and mulch will be located where it is convenient. Flags that mark planting locations will have been set during the preparation day. Before planting begins, students will be gathered near the planting area to listen to a brief presentation by the module leader.

An IES Associate will lead an introduction to the workshop, which will include an introduction of the volunteer supervisors, a brief reminder of planting steps, and instructions for the module.

- Hi students and welcome to the planting module! Today you and your partner will plant one tree and one shrub. Your focus will be to ensure that your plant is carefully and safely planted so that it can start to grow in the Greenbelt.
- Standing around you are the volunteers that will help with the module. Their names are (*list names*). Each adult will supervise a group of two to three students while you plant. It is important that you listen to them and follow their instructions. They are here to help you make sure that your plant is planted correctly, but they want you to have the full experience of doing all the steps of planting that we learned about during the classroom workshop. If you have any questions when we start planting, make sure that you ask your

team leader or one of the other volunteers. Can someone tell me what color shirts the volunteers are wearing?

- Now, before we review the planting steps, I want to let you know how to plant. Behind me is the planting area. Each flag behind me represents a plant. Your team leader will lead you to your planting area and show you the flags that mark where you will plant the trees and shrubs. When you have found your planting area, one partner will take your flag and go to the plant staging area (*point out the staging area*), while the other partner starts digging the hole. The flag will have a name of a plant on it. All you will need to do is walk up to (*volunteer name*) at the staging area and they will show you which is the proper plant species for you to take back to the planting area. When you plant your second plant, you can switch which partner goes to get the plant and which starts to dig the hole if you would like.
- Once you and your partner are back at your planting spot, you can work through the planting steps. Who can tell me what the first step is to planting? (*At this point, walk the students through the 7 steps of planting*).
- All right, we are almost ready to plant. I just want to remind everyone to be careful of the people around you. Be safe while digging your holes and transporting the mulch and water to your plant. If we look out for each other, everyone will have a much more fun time, and our trees will be happier!
- Now, let's get out there and plant some trees. (*At this time point out which volunteers will take which group of students and start the module).*

<u>Directions for volunteers</u>

To supervise students, you need to know the area and how many students you will be supervising. Your main mission during the module is to guide students to the correct area to plant and make sure they are following the planting steps. Ensure students stay with the group. IES would like students to do as much of the work as possible. If volunteers need help, then can get it from teachers and IES staff.

<u>Directions for students</u>

Students should expect to plant two plants. Students need to follow directions, especially the seven steps for planting a tree. Students should ask questions when confused, follow our safety rules, and work and stay together to make sure they the plant both plants during the 40 minute time period allotted for planting.

Draft
John Kelly, Tree Project Manager
john@i4es.org

Appendix X
Planting Events Module: Weeding

April 24, 2017
Draft 2017 IES GREEN planting day invasive species module

Invasive Species Module

Module Objective

The objective of this module is to provide students and volunteers with the opportunity to learn about weed species that are found in the Wheat Ridge Greenbelt and how to eradicate those species. Volunteers will be given a cheat sheet explaining the two prominent species. This will allow volunteers to supervise student on removal techniques. Students will learn about various weed species and how to remove each species properly.

Materials

- Large shovels
- Hand trowels
- Gloves
- Wheelbarrows
- Large trash bags
- Clippers/scissors
- Cheat sheet for volunteers

Set up and direction for module leader

Kullerstrand students will participate in removing weed species near the planting site. Trash bags, gloves, wheelbarrows, and shovels will be set up near the planting area. Before weeding begins students will listen to a brief presentation by the module leader.

An IES Associate will lead an introduction to the weed species module, outlining instructions.

- Hi students, welcome to weeding! Today you will learn how to identify weeds in the area. Then, we will go over how you can properly get rid of the weeds. It is very important you pay careful attention to the technique because this is the best way to make sure they won't come back.
- Weeds are plants that are not supposed to be here. They hurt the plants that are supposed to be here because they take all the water and nutrients. We want to get rid of them so that the plants you plant today have the best chance of surviving!
- The biggest plant that we are looking out for today is mullein. This plant is really soft when you touch the leaves. It is also somewhat grayish-green. Here is a picture of what it looks like. If you have any questions about how to pick out this plant ask one of the volunteers and they will help you. To get rid of mullein we want to first clip off the top part that has the seeds. It will be brown and we need to be the most careful with this part. You will take this part and put it straight in to your trash bag. Do not shake it because seeds could fall out and more would grow in its place! Not all the plants will have this

part because they may not be old enough. Then, you will take your shovel and put it in under the plant. Push down really hard to get the whole plant. Then you will dig up the mullein. Before you put it in the trash bag snap it in half in the middle if it is a long plant.

- The other plant we want to look out for is bull thistle. Bull thistle can be tall with a purple flower on top but it can also just be leaves on the ground, just like mullein. This plant is really pokey so make sure you wear your gloves when you try to get rid of this one. If it does have flowers, they will be purple flowers that have sharp petals and also have green ball-like looking things under the flower, also sharp. You will get rid of this plant by again cutting the flower off first if it has one. Then you will take your shovel and put it in under the plant and dig it up again. Snap this one in half too before you put it in the bag.
- All of the volunteers have cheat sheets that have pictures of the two weeds. If you have any questions ask one of them. They will be able to tell you if it is the right plant.
- You are now ready to pull weeds. Be careful and do not move too fast. Make sure to ask volunteers if you have any questions. Let's get out there!

<u>Directions for volunteers</u>

To supervise students, you need to know the area, the weed species, and how many students you will be supervising. Your main mission during the module is to guide students to the correct area to pull and cut weeds, making sure to follow appropriate procedure.

<u>Directions for students</u>

Students will follow directions to eradicate weed species. If they have any questions they should ask the volunteers.

Draft
Maggie Michael
Maggie@i4es.org

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Appendix Y
Sun Camp Tree Ambassadors MOU

IES GREENBELT RESTORATION AND ENVIRONMENTAL EDUCATION NETWORK (GREEN)

MEMORANDUM OF UNDERSTANDING
2017 TREE AMBASSADOR PROGRAM

I. Introduction

A. Parties

Institute for Environmental Solutions (IES), nonprofit corporation IRS Section 501(c)(3) organization
City of Wheat Ridge Parks and Recreation Department (WRPR)
Wheat Ridge Recreation Center Sun Camp

B. The project and the purpose

The 2017 Institute for Environmental Solutions' (IES) *Greenbelt Restoration and Environmental Education Network* (GREEN) Tree Ambassador project is the summer care and maintenance part of the GREEN program. IES, with project partners WRPR and the Wheat Ridge Recreation Center Sun Camp, will provide an opportunity for Wheat Ridge campers to help improve their community and receive hands on science lessons. Campers and Sun Camp counselors will walk from the Wheat Ridge Recreation Center to the 2017 GREEN site on Tuesday and Friday mornings to help IES Associates and WRPR employees water, weed, and mulch the newly planted trees. Once a month, campers will also receive hands-on science lessons led by WRPR employees.

II. Provisions

A. Project tasks

The tasks of this project include:

1. Provide care for the 2017 GREEN planting site during June, July, and the first half of August 2017.
2. Provide children in the summer camp the opportunity to help improve their community and learn valuable science lessons outside.

B. Project organization

IES is the project manager.

WRPR is the project host and primary project partner. WRPR is in charge of the WR Greenbelt.

Wheat Ridge Recreation Center Sun Camp is a primary project partner and is responsible for the campers participating the program.

C. Project responsibilities

1. IES

Organize and manage the project.
Provide staff and volunteers to help supervise the sun campers.
Bring equipment as needed.
Set up watering stations prior to campers' arrival.
Store equipment at the end of watering events.

2. Wheat Ridge Parks and Recreation

Fill water tanks.
Provide mulch for the planting site.
Provide campers with science lessons once a month.

3. Wheat Ridge Recreation Center Sun Camp

Ensure campers arrive on time and are prepared for the work and lessons.
Supervise campers on site.
Provide appropriate provisions for the campers including water, sunscreen, and first aid kits.

IES, WRPR, and Wheat Ridge Recreation Center Sun Camp agree to collaborate to fulfill the commitments set forth in the project goals and objectives.

III. Agreement

The project described above has been agreed to by the following parties as evidenced by the signatures below. IES, Wheat Ridge Parks and Recreation, and Wheat Ridge Recreation Center Sun Camp agree to implement the IES *Greenbelt Restoration and Environmental Education Network Tree Ambassador Program* according to this Memorandum. We agree to work together to resolve challenges if they arise and to communicate openly and frankly about shared goals and progress.

Signatures

Institute for Environmental Solutions: _____
Carol E. Lyons, Executive Director
_____Date

Wheat Ridge Parks and Recreation: _____
Margaret Paget, Forestry and Open Space Supervisor
_____Date

Wheat Ridge Recreation Center Sun Camp: _____
Beth June, Recreation Coordinator
_____Date

IES 2017 GREEN Project
Final Report
September 2017

Appendix Z
Tree Ambassador Schedule

IES Wheat Ridge Greenbelt
Summer Sun Camp Watering Schedule 2017

Day Date	Name (bringing equipment)	IES staff member(s)	Wheat Ridge staff member(s)	Volunteer(s)	Notes
Tuesday, June 13	Don Mangus	John Kelly, Don Mangus			Betty Jo Page cannot
Friday, June 16		John Kelly		Betty Jo Page	Don Mangus cannot
Tuesday, June 20	Don Mangus	John Kelly, Don Mangus	Susan Bennett	Betty Jo Page	
Friday, June 23	Don Mangus	John Kelly, Don Mangus		Betty Jo Page	
Tuesday, June 27	Don Mangus	John Kelly, Don Mangus			Betty Jo Page cannot
Friday, June 30		John Kelly		Betty Jo Page	Don Mangus cannot
Substitute for Tuesday, July 4					Don Mangus, Betty Jo cannot
Friday, July 7		John Kelly	Susan Bennett	Betty Jo Page	
Tuesday, July 11		John Kelly	Susan Bennett		Betty Jo Page cannot
Friday, July 14					Betty Jo Page cannot
Tuesday, July 18		John Kelly		Betty Jo	
Friday, July 21		John Kelly		Betty Jo Page	
Tuesday, July 25		John Kelly		Betty Jo Page	
Friday, July 28		John Kelly	Susan Bennett	Betty Jo Page	
Tuesday, August 1		John Kelly		Betty Jo Page	
Friday, August 4		John Kelly	Susan Bennett	Betty Jo Page	

Tuesday, August 8		John Kelly	Susan Bennett	Betty Jo Page	
Friday, August 11		John Kelly		Betty Jo Page	
Tuesday, August 15				Betty Jo Page	John Kelly cannot

EQUIPMENT TO BRING / HAVE THERE: gloves, jugs, buckets, hand tools, white marking flags, safety cones and signs first aid kit

Optional equipment: shovels, mulch fork, tomato cages

Don Mangus
IES Tree Steward Coordinator
Don@i4es.org
303-319-1729
June 11, 2017

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Appendix AA
Tree Stewards Site Responsibilities

2017	2017	2017	2017	2017	2017	2017	Institute for Environmental Solutions, solutions@i4es.org, www.i4es.org		
Date of Visit	Name of Tree Steward(s)	Section(s)	Number of Gallons Used from Creek	Number of Gallons Used from Tank	Number of Miles Driven	Amount of Time Spent (Hours)	Notes - Obesrvations, Conditions, Comments, Questions, Suggestions		
Happy New Year 2017									
January									
1/11/2017	Don	1,8,9,10,11,12,13			20	2	checked out all the sites, looks good - wet, muddy, snowy, frozen, a few cages down in 12, sign down in 8/9		
1/19/2017	Heather Johnson, Dan Shannon and Don	8,9,10,11,12,13			20	2,2,2	toured the sites with Heather and Dan, they are committed to helping!		
1/28/2017	Don	SQ trees and trail			10	1.5	checked on the sites, looked pretty good, they are starting to do the contsruction there, a few cages down, the wire skirt on the cube was pulled out		
1/29/2017	Elizabeth, Maggie, Patti, Don	8,9,10,11,12,13			20	1.5	toured the sites, all looks good		
TOTALS					70	11			
February									
2/12/2017	Sean, Don	8,9			20	1	checked sites with Sean, saw Susan C there		
2/21/2017	Sharena's class, Don	SQ trees and trail		300	10	4 + class	watered all plants, emptied tank, fixed string barrier, grass is coming up		
TOTALS				300	30	4			
March									
3/7/2017	Jacob and Don	8,9,10,11,12,13			20	1,1	toured sites with new steward Jacob, many cages down, otherwise OK		
TOTALS					20	2			
April									
4/8/2017	Don	SQ trees			10	2	organized the cube equipment, fixed some cages and the border string		
4/9/2017	Don	SQ trees			10	2	worked on cages		
4/10/2017	Sharena's class, Don	SQ trail			10	2 + class	mulched		
4/11/2017	Maggie, John, Don	8,9,10,11,12,13					toured sites concerning Maggie's project on tree projects' survival		
4/16/2017	Don	SQ trees			10	2	tilled, mulched, and caged plants - about 1/2 done with the site		
4/17/2017	Don	SQ trees			10	2	tilled, mulched, and caged plants		
4/18/2017	Sharena's class, Don, John	SQ trail			10	2 + class	mulched		
4/24/2017	Don	8,9,11,12,13					fixing tank shutoff valves		
4/25/2017	Sharena's class, Don	SQ trail			10	2 + class	mulched		
TOTALS			0	0	70	6			
May									
5/3/2017	Jon, Susan, Betty Jo, Catherine, Rob	14,15			1,5,5,4	2,2,2,2,2	planting prep day		
5/3/2017	Heather, Dan, Don	SQ trail and trees			10,10	2,1,1	toured sites with new stewards Heather and Dan, discussed schedule for maintenance		
5/5/2017	Art, Heather, Dan, Lloyd, Kelli, Sirerra, Rob, Don	14,15		200	4,20,3,2,4	4,4,4,4,4,4,4	planting day		
5/6/2017	Judy and Don	SQ trail			10	2,2	pulled weeds and mulched		
5/8/2017	Lloyd and Don	14,15			3	3	planting day		
5/8/2017		all WR sites					heavy hail damage?		
5/9/2017	Don	SQ trees			10	2	mulched		
5/12/2017	Jennifer, Susan, Lloyd, Lynnea, Betty Jo, Rob, Joann, Don	14,15		300	5,1,3,2,5,4,5	4,4,4,4,4,4,4	planting day		
5/12/2017	Kris, Don	all WR sites			5	1	toured the sites with Kris, she is excited to join the team!		
5/13/2017	Judy, Don	SQ trail			10	2,2	mulched		
5/14/2017	Kris, Amy, Andrew, Don	12,13,14,15,16,17,18			5,10	2,2,2	survyed sites, divided and marked with flags, Amy is happy to join the team! Andrew is taking site 13 (south white) 1X a week on weekends		
5/15/2017	Jon, Don	8			2	1	survyed site, planned for watering, jon's taking site 8 white every other week		
5/16/2016	John B, Susan, Lloyd, Rob, Don	8,9,blue, pink			1,3,4	1,1,1,1	set up sites, planned for watering		
5/16/2017	Lloyd	blue		75	3	2	toured sites with Don, taking the blue site, 2 x a week, watered all, mulched where needed		
5/16/2017	Rob	pink		75	4	1	toured the sites with Don, taking the pink site 2 x a week		
5/16/2017	Don	green, orange, yellow		150			all looks good		
5/17/2017	Houston, Don	all WR sites			5	1	toured the sites with Houston, he is excited to join the team!, he's taking orange site 2 x a week		
5/17/2017	Joann, Don	new WR sites			4	1	toured sites with Joann, she is taking site 12 white northwest 2 x a week		
5/20	Lloyd	blue	0	0	3	2	Site was wet. No watering. Mulched as needed to 10 gal standard per plant.		
5/21	Houston	orange	0	0	2	1.5	Tilled and mulched majority of orange site. Will till and mulch remainder when I visit to water site either Tuesday or Wednesday.		
5/23	Lloyd	blue	0	0	3	1	Meter-check moisture. Site very moist to wet. Some weed pulling.		
5/23	Lynnea, Don	new WR sites			2	2	toured sites with Lynnea, she agreed to take care of site 12 white northeast 2 x a week, put signs on tanks moved buckets and jugs		
5/22/2017	Joann, Don	12 white	0	0	4	1.5	Pulled weeds Soil is quite moist. No watering needed.		
5/23/2017	Susan	8 yellow	0	0	0.5	2	mulched & weeded grasses; scraped mulch pile to the ground.		

2017	2017	2017	2017	2017	2017	2017	Institute for Environmental Solutions, solutions@i4es.org, www.i4es.org		
Date of Visit	Name of Tree Steward(s)	Section(s)	Number of Gallons Used from Creek	Number of Gallons Used from Tank	Number of Miles Driven	Amount of Time Spent (Hours)	Notes - Obesrvations, Conditions, Comments, Questions, Suggestions		
5/24/2017	Jon	8 white				1	checked site, tank is empty		
5/24/2017	Kate, Ellie, Judy, Heather, Don	SQ trail			10,10	2,2	tilled and mulched, tank is empty		
5/25/2017	Don	green		40			looks good, saw Houston there		
5/25/2017	Don	yellow		40			looks good		
5/25/2017	Don	8,9,11					installed signs, checked all, tanks at 8 and 11 are empty		
5/25/2017	Rob	pink		0	4	1			
5/25/2017	Houston	orange		100	2	1.5	Tilled the rest of trees		
5/30/2017	Houston	orange		100	2	1.5	Tank needs to be refilled		
5/30	Lloyd	blue	0		3	1	Site just moist to very wet. Weed pulling. Hail damage to leaves of alders showing up. Saw two or three small shrubs that might not make it.		
5/30	Kris	green	0	0	5	1	Pulled weeds, mulched, checked all the plants - a couple not looking good, but most are		
5/29	joann	12 white NW	0	0	4	1.5	Pulled weeds, checked plants. No watering needed.		
5/31/2017	Don	green		40			looks good		
5/31/2017	Don	yellow		40			looks good		
5/31/2017	Art, Don	9			4	1	checked the site, pulled grass and weeds. looks good		
5/31/2017	Heather, Dan, Don	SQ trail			10,10	2,1.5, 1.5	pulled weeds and grass, mulched		
TOTALS			0	1160	179	134.5			
THANKS for all your efforts! The sites are looking good!									
June									
6/1/2017	Lynnea	12 white NE	0	20	5	1.25	watered, pulled grass. looks good but still quite a few no-shows.		
6/2/2017	John K, Don	green		50			all good		
6/2/2017	Ellie, Kate, John K, Don	all WR sites					toured all the sites with Kate, our new intern, all looks pretty good		
6/2/2017	Rob Robinson	pink			4	1	Pulled grass, checked moisture, added mulch.		
6/3	Lloyd	Blue	0	15	3	1	Spot watering		
6/3	Lynnea	12 white NE	0	0	3	1.5	Site moist to very moist. Weeding. Spot mulching.		
6/3/2017	Heather, Kate, Dan, John, Don	SQ trail		115	10,10,10	2,2,2	watered trail, weeded and mulched		
6/4/2017	Brooks	11	30	0		1	watered weeded, 2 plants with dry shriveled new leaves		
6/3/2017	Houston	Orange		70	2	1	Emptied tank near green flags, still need to water 17 more		
6/4/2017	Judy, Don	SQ trees		140	10	1.5, 1.5	looks good		
6/4/2017	Don	yellow		50			mulched and watered with Kris and Amy		
6/4/17	Jon	GTG 8				1.5	Weeding and washing off bugs on some of the cottonwoods- tank needs to be filled and some mulch added to the bare pile		
6/4/17	Kris, Amy	yellow			5	1.5, 1.5	mulched and watered with Don		
6/5/2017	joann	12 white northwest		50	4	1.5	weeded, mulched, watered. Pulled 2 flags from plants that show no signs of life.		
6/6/2017	Betty Jo, Suncampers, Don	green		100	5	2.5	!st day with suncampers, went real well		
6/6/2017	Betty Jo, Suncampers, Don	yellow		100			all good		
	Don	1,8,9,10, 11					switched site 1 flags from white to red, 41 plants, looks good, 8/9 tank should be filled and mulch coming soon-WR worker said so, 11 tank moved and should be filled and mulch coming soon		
6/7/2017	Susan	8 yellow		35	0.5	1	Tank full! Deep watered all plants. Looking forward to getting mulch for the other half of plants.		
6/7/17	Lynnea	12 white NE		30	0.5	1	Watered and pulled weeds. Still some no shows. All else looks good!		
6/7/17	Rob Robinson	Pink		49	4	1			
6/7	Lloyd	Blue	0	25	3	1.5	Site moist to wet. Watered 'moist' plants. Found the hose & it works great. One request: Can we get one of those shut-offs for the watering end of the hose?		
6/7/2017	Houston	13 White south	0	50	2	1	Noticable amount of the white (south side) had either failed to germinate or apper to have had its growth stunted.		
6/7/2017	Judy	SQ trees		100		2	watered 1/3 of big trees with 2 buckets, got all 60 trees watered		
6/8/17	Jon	8-white		60		1.5	Still no mulch		
6/10/17	Art [1]	9	40		4	1.5	Still no mulch.		
6-10-17	Lynnea	12 white NE		35	0	1	Not much water! Everything else looks good.		
6/9/2017	suncampers, John, Don	green, orange		200			good day, the tanks were emptied by vandals, but Wheat Ridge staff got us water on time!		
6/10/2017	Dan, John, Don	SQ trail		150	10,10	1.5,1.5	good day, Marcus came to check things out		
6/9/2017	Kelli, Sierra, Don	all WR sites				1,1	toured sites with Kelli and Sierra, they agreed to take care of site 8 white every other week		
6/10	Lloyd & Patti	Blue		60	3	1,1	Site moist. Watered all plants. Weeding. I put a shut off on the hose--an old one I wasn't using.		
6/11	Kris, Amy	yellow	0	60	5	1,1	Watered all, weeded several, mulched a few.		
6/11	Brooks	11		40		1			
6/9/2017	joann	12 white NW	55	0	4	2	watered from creek. Tanks empty when I arrived around 7am. Did some weeding and mulching.		
6/11/2017	Rob Robinson	Pink		49	4	1			
6/12/2017	joann	12whiteNW	10	15	4	1	tank empty. Got about 15 gallons from tank and 10 from creek. Able to give all plants some water--not as much as they should have had. Will go again Thurs evening. Hopefully tank will be filled by then		

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6/13/2017	suncampers, John, Don	green, orange		200			good day watering, tilling, weeding, mulching		
6/13/2017	Don	yellow		80			looks good, worked with Lloyd a bit on blue		
6/13/2017	Don	8 white					replaced white flags with blue		
6/14/17	Rob Robinson	Pink		49	4	1			
6-14-17	Lynnea	12 white NE		40	2	1	Tank full, yay! looks good.		
6/14/2017	Judy, Patti, Heather, Dan, Don	SQ Trees		300	10,10	3,1,1	watered trees. pulled weeds, mulched trail, looks real good		
6/15/2017	Art	9	40		4	1	Site looks good.		
6/15/2017	Houston	White (south side)	0	60	2	1	I need to find time this weekend to pull weeds		
6/15/2017	Joann	12 white NW	0	65	4	1.5	Watered. Most plants looking good. Removed one cage which had fallen over.		
6/16/17	Brooks	11		20		1	water table rising with creek. watered higher plants, planted two cottonwoods removed two blown over cages		
6/17	Lloyd	Blue	0	65	3	1.5	Site varied from dry to wet. Go figure. Watered. Weeded.		
6/18/17	Susan	8 Yellow	0	50	0.5	1	deep watered everything. The cheat grass is brutal --I'm wearing rubber boots next time. Tank is at last quarter. Still no mulch.		
6/18/17	Kris, Amy	Yellow	0	70	5	1,1	Used the hose to water the plants on the north side of the side walk - used more water but each plant got a good drink. Used buckets to water the south side - made sure to provide plenty of water. Tank down down to about 9 inches of water. Weeded and mulched as necessary.		
6/18/17	Andrew	13 W-S		60	8	1			
6/18/17	Rob Robinson	Pink		50	4	1.2			
6/18/17	Lynnea	12 white NE		40	0	1	watered deeply and weeded.		
6.19.17	Kelli, Sierra	9, 8 blue		60 gallons	0	1	accidentally watered some blue also.		
6/16/2017	Suncampers, John, Betty Jo	green, orange		250	5	2			
6/17/2017	Heather, Dan, Kate, John	SQ trail, SQ trees		250	10	2,2,2			
6/20/2017	Don	yellow		100					
6/20/2017	Suncampers, Betty Jo, John, Don	green, orange		250	5	1			
6/19/2017	joann	12 white NW		60	4	1.25	Watered and mulched. Tank getting low		
6/19/2017	Brooks	11		24		1	checked on transplants, ok		
6/21	Lloyd	Blue	0	60	3	1.5	Site just dry to slightly wet. Watered. A little weeding.		
6/21/2017	Judy, Heather, Dan, Don	SQ trees		275	10,10	1	watered all, composted and mulched 1/2 of trees		
6/21/17	Rob Robinson	Pink		50	4	1	watered, pulled some grass, 49 live:1 dead.		
6/24/2017	Heather, Don	SQ trail		275	10, 10	3.5, 2.5			
6/21/2017	Houston	White (south)	0	75	2	1	Watered 1/2 plants in the morning, and 1/2 in the evening. Sorry about the late post.		
6/24/2017	joann	12 White NW		60	4	1.5	Watered all plants. Pulled flag on plant that has shown no sign of life since I started watering. Pulled weeds. Mulched.		
6/25/2017	Brooks	11		30		0.5	watered, pulled a toppled cage		
6/25	Lloyd	Blue	0	10	3	1.5	Site mostly moist to wet. Spot watered. Weeded. Looks like a few more of the bare root "twigs" are succumbing to who knows what.		
6/25	Andrew	13 White South		75	8	1			
6-26	Jon	8-Blue		50		1.5	City was filling the tank as I left. No mulch yet.		
6/26/2017	Rob Robinson	Pink		49	4	1	Watered, pulled some grass, 49 live:1 dead		
6-27-17	Lynnea	12 white NE		30	0	0.5	water, some weeding		
6/27/17	Sun Campers, Don	green, orange		250	20	2			
6/27/2017	Don	yellow		75		0.5			
6/27/2017	Don	9	50			0.5			
6/28	Lloyd	Blue	0	12	3	1	Site moistly moist to wet. Spot watered about 10 "dry" plantings. Light weeding. More bare root plants seem to be losing ground.		
6/28/2017	Joann	12 White NW	0	70	4	1	Watered		
6/28/2017	Houston	White (South)	0	75	2	1	Watered half of them in morning, half of them in evening. Parks & Rec. are doing a better job refilling the tubs of water.		
6/28/2017	Brooks	11		20		1	watered, planted two more cottonwoods		
6/28/2017	Rob Robinson	Pink		49	4	1.5	Watered, pulled grass. 49 live: 1 dead.		
June Totals			255	5626	306.5	109.5			
GREAT Job everyone!! Thanks for the good entries and records and notes. Record heat and dry - THANKS for all your efforts! Sites look real good!									
7/1	Lloyd	Blue	0	15	3	1.5	Moist to wet. Spot watered about 15 dry plantings.		
7/1	Susan	8 Yellow	0	40	1.5	0.75	Watered to get plants thru until I return 7/10. I hadn't watered for 11 days (but had watered deeply at that time), and we didn't get any rain until June 30th (.5"), but even so, the plants looked fine. Loved the full tank.		
7-1-17	Lynnea	12 white NE		30	0	0.75	Watered, light weeding		

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7/1/2017	John K and Dan	SQ Trail		230		2.25	Watered all shrubs along trail. Some yellowing of shrub leafs in sumac and rose bands		
7/2/2017	Amy	yellow	0	75	5	1.25	Emptied the tank. Plants on south side looking good, those on the north looking a bit rough.		
7/2/2017	Art	9, 8	40	60	4	2	Supplemented 8 blue with the 60 gallons from the tank		
7/2/2017	Andrew	13 WS		60	8	1			
7/1/2017	Rob Robinson	Pink			4	1	Added mulch.		
7/1/2017	Rob Robinson	Pink		50	4	1,25	Watered, pulled grass. 49 live: 1 dead.		
7/3/2017	Sun Campers, Carol	green, orange		200	32	2.5			
7/3/2017	Brooks	11		30			watered		
7/4/2017	Houston	White (south)	0	75	2	1	Watered half of them in morning, half of them in evening.		
7/5	Lloyd	Blue	0	110	3	2	Dry to just moist. Watered all. Light weeding.		
7/5/17	Rob Robinson	Pink		49	4	1	Watered all. 49 live: 1 dead.		
7/5/2017	Judy, John K, Don	SQ trees		250	10	1			
7/5/2017	Joann	12 White NW	0	65	4	1	Watered		
7/7/2017	Sun Campers, Betty Jo, Susan B, Don	green, orange		200	20,5	2,2			
7/7/2017	Don	pink		50		0.5			
7/7/2017	Don	yellow		50		0.5			
7/7/2017	Brooks	11		30					
7/8/2017	John K, Don	SQ trail		200	10	2			
7/6/17	Lynnea	12 white NE		30	0	0.75	watered		
7/8	Lloyd	Blue	0	75	3	1.5	Dry to wet. Watered all proportionately. Light weeding.		
7/9	Susan	8 yellow	0	75	1.5	1.25	plants were *super* dry. I last watered 8 days ago, but should have gone back sooner. Hard to get the water to actually penetrate the soil. Having the water tank full was fabulous.		
7/9/2017	Kelli	8 blue		80	walked	1	1.5 red buckets per plant. weeds are good mulch good need bring wasp spray next time ! will try to go back thurs or Fri unless jon goes first		
7/9/2017	Andrew	13 WS		60	8	1			
7/8/2017	Joann	12 White NW		70	4	1	watered		
7/9/2017	Kris, Amy	yellow	0	75	5	1,1	Plants were dry - gave them all a good drink - weeded a bit.		
7/10/2017	Art	9	40		4	1.5			
7/11/2017	Brooks	11		50					
7/11/2017	Don	yellow		50	20	0.5			
7/11/2017	Sun Campers, Susan C, John K, Don	green, orange		275		2,2	very dry, some look pretty bad		
7/11/2017	joann	12 white NW	0	80	4	1	Watered. One plant looks bad. Others looking good.		
7-11-17	Lynnea	12 white NE		35	0	0.5	watered		
7/12	Lloyd	Blue	0	30	1.5	1	Mostly moist to wet. Spot watered dry plants. Ignored ones the clearly dead ones, whose numbers seem to be growing little by little among the small, bare root stock. Watch out for wasps at the base of the tank right above the blue plants, especially in the heat of the day.		
7-13-17	Jon	8- Blue		50	walked	1	What happened to our mulch delivery?		
7-13-2017	Rob Robinson	Pink		50	4	1	49 live:1 dead.		
7/12/2017	Judy, Heather, Dan, Don	SQ trees		275	10	1, 2, 2, 3	finished with compost, till, mulch of trees		
7/14/2017	Art	9	40		4	2	Mulched trees and shrubs, carried it from mulch pile in 5 gallon buckets from section 11. It would be nice to have a closer source.		
7/14/2017	Sun Campers, Don	green, orange		275	20	2	Susan C brought a wagon, it worked GREAT!		
7/14/2017	Don	8/9				1	wheelbarrowed mulch from 11 to 8/9		
7/13/2017	Houston	White (south side)	0	75	2	1	Someone recently mulched plants-nicely done, watered plants during the evening.		
7/15/17	Amy, Kris	yellow	0	50	5	.75, .75	With the rain yesterday, the soil was pretty damp but we gave all the plants a bit of water anyway.		
7/15	Lloyd	Blue	0	10	3	1	Almost all moist to wet. Spot watered a few dry plants. Weeding.		
7/15/2017	Brooks	11		50					
7/15/2017	Don	SQ trail		200	10	3	got er done		
7/16/2017	Andrew	13 WS		60	8	1			
7/16	Susan	8 yellow	0	70	1.5	1	Ground was only lightly moist; watered deeply. Everything looked really good. Won't be back to the site until 7/24, 8 days from now. Saw the new mulch, but hadn't brought gloves. Thanks, Don! I'll get to that next time.		
7/17/2017	joann	12 white NW	0	70	4	1	Watered. One plant on West end of site looks bad--?some kind of insects. All the others doing well.		
7/18	Lloyd	Blue	0	70	3	2	Just dry to just wet. Watered all proportionately.		
7/18/2017	Don	8/9			20	1.5	wheelbarrowed mulch to 8/9		
7/18/2017	Sun Campers, Betty Jo, Don	green, orange		200		2,3	good (hot) day with campers looking OK, many new plantings are not doing well		

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7/18/2017	Zack, Don	all				1,1	toured all the sites with Zack, he aggreed to water the (new - 2017) yellow sites every other mid-week, saw Lloyd and Rob there working hard!		
7/18/2017	Don	yellow		100		1	looking good! (mostly)		
7/19/2017	Heather, Dan, Sabrina, John K, Don	SQ trees		275	20, 10	1, 1	Sabrina and her girls came for a tour and helped water		
7/18/2017	Rob Robinson	Pink		50	4	1			
7/20/2017	Joann	12 white NW			4	1	the tank was empty, the shutoff was open and the ground was washed out, I saw a WR parks worker and informed him		
7-19-17	Lynnea	12 white NE		35	0	0.75	watered.		
7/21/2017	Don	12 white NW		75	20	1	looks good!		
7/21/2017	Don	8 yellow		75		1	looks good!		
7/21/2017	Sun Campers, Betty Jo, Don	green, orange		300		2, 3	got a lot done! colored ribbons, cages, weeding, and watering		
7/22	Lloyd	Blue	0	50	3	1.5	Variable soil moisture as usual. Watered proportionately. Tended mulch. Light weeding.		
7/22/2017	Dan, John K, Don	SQ trail		200	10	1, 2	recieved a wagon as a donation!		
7/22/2017	Brooks	11		30					
7/19/2017	Houston	White (south)	0	100	2	1	Watered plants during evening, noticed small trash bag attached to frame, nearly forgot to type this.		
7/22/2017	Kris, Amy	Yellow	0	75	5	1,1	Good to have a full tank of water. Most plants are looking good!		
7/23/17	Lynnea	12 white NE		45	0	1	watered.		
7/23/2017	Andrew	13 WS		60	8	1			
7/24/2017	Art	9	50	40	4	2	The water from the tank was used to supplement tree watering in section 8. Thank you Don for the mulch. I mulched the remainder of the trees in section 9. I saw a fawn. Site looks good.		
7/24/17	Jon	8- Blue		45	walked	1	Watered everything - some had been watered recently - mulched the non-caged plants		
7/22/2017	Rob	Pink		50	4	1			
7/24/2017	Joann	12 white NW	0	80	4	1			
7/25/2017	Rob Robinson	Pink		50	4	1	49 live: 1 dead		
7/25/2017	Don	8, 9			20	1	site 9 - changed the white flags with green flags, both sites look real good! they brought a big pile of mulch		
7/25/2017	Don	12,13					looks good! they brought a big pile of mulch		
7/25/2017	Sun Campers, Betty Jo, John K, Don	green, orange		250		2,2	looks good! watered and weeded, saw Rob workig hard on his site		
7/26	Lloyd	Blue		80	3	2	Watered all. Observed that chokecherry, dogwood, alder, and cottonwood looked a lot like they'd been nibbled at. Then the twin, spotted fawns appeared. QED. Wax currants seem to have been left alone. Not as tasty to young fawns? Not so easily demonstrated.		
7/26	Susan	8 yellow	0	20	1.5	1	mulched 10 more plants with the new mulch. 4 more to go. Watered lightly, but it looked like rain, so I (optimistically) stopped. Deer reclining on site yesterday.		
7/26/2017	Patti, Steve, Dan, John K, Don	SQ trees		275	10, 10	1, 1	wagon worked well		
7/27/2017	joann	12 white NW	0	60	4	1	The rain helped but did not go down very deep. Used a little less water today than usual. Did some weeding		
7/27/2017	Mark, Don	all			20	1	toured the sites with Mark, he is committed to helping out!		
7/27/2017	Houston	White (south)	0	100	2	1	Watered half of them Wednesday evening, and the rest this evening		
7/28/2017	Brooks	11		35					
7/30/2017	Rob	Pink			4	1	Pulled grass and weeds on 1/4 of plants.		
July TOTALS			170	6914	4415	121			
GREAT JOB EVERYONE!! Thanks for all you help and all the good entries on this site.									
8/1/2017	Sun Campers, Betty Jo, Susan C, Don	green, orange		250	10,10,20	2,2,2			
8/1/2017	Sabrina, Don	all				1	toured all the sites with Sabrina		
8/1/2017	Rob	Pink		50	4	1.3	Pulled grass and weeds on 1/3 of plants. 49 live: 1 dead.		
8/2/2017	Brooks	11		30					
8/2/2017	Zack C.	Yellow		33	5	1			
8/2	John K, Judy	SQ trees		250	20	1			
8/3/2017	Houston	White (south)	0	100	2	1	Watered half of them yesterday and the rest today		
8/4/2017	Sun Campers, Betty Jo, Susan B, Don	green, orange		275	10,20	2,2	good day with the campers!		
8/5	Dan, John K, Don	SQ trail		250	10,10	1,2			
8/5	Lloyd	Blue	0	35	3	1.5	Most plants wet; the rest variable. Gave all 1/2 to 3/4 gal. Light weeding.		
8/6/17	Jon	8- Blue	0	50	walked	1			
8/6/2017	joann	12 White NW	0	50	watered	4	Watered. Everything looks good. Cooler weather and rain have been good for plants		
8/8/2017	Rob	Pink			4	1.3	Added mulch around most plants and pulled some gass.		
8/11/2017	Sun Campers, Betty Jo, Susan B, John K, Don	green, orange		150	10, 20	1, 1	looked fairly damp, but watered some anyway		
8/13/2017	Joann	all east of bridge					all the tanks east of the Miller St bridge (4) were emptied by vandals		

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8/15/2017	Sun Campers, Susan C, John K, Don	green, orange		150	20	2	good last time with the Sun Campers this year!		
8/16/2017	Rob	pink		50	4	1	Plants 47 live:3 dead.		
8/16/2017	Heather, Dan, Don	SQ trees		275	10,10	1,1.5	lots of weeds!		
8/16/17	Lynnea	12 white NE		45	0	1	watering, weeding, mulching		
8/16 ALL THE TANKS HAVE LOCKS - THE COMBO IS 968 - SORRY FOR THE INCONVIENCE - PLEASE LOCK AND CAP TANKS WHEN FINISHED WATERING, THANKS!									
8/17/17	Zack C.	Yellow		32	5	0.5			
8/18/2017	Catherine, Don	green, orange		150	20	1,1	wagon works good		
8/19/2017	Heather, Dan, Don	SQ trail		275	10,10	3.5, 1	met with Xcel reps as well concerning Day of Service		
8/20/2017	Brooks	11		50					
8/20/17	Kris, Amy	Yellow	0	75	5	1,1	Watered all and did some weeding.		
8/20/2017	Andrew	13 WS		40	8	1	Used last of the water ~40gal		
8/20/2017	Rob	Pink		50	8	1	Tank needs refill. Plants: 47 live - 3 dead.		
8/21/17	Lynnea	12 white NE	0	0	0	0.5	no water in tanks, did some weeding		
8/22/2017	Jon	8- Blue	0	60	walked	1.5	Pulled some weeds		
8/19/2017	Susan	8 yellow	0	47	0.5	0.75	pulled weeds; plants looked good; grasses setting seed; echinacea chewed mostly to the ground		
8/22/2017	Don	all			20	2	checked on sites, looking very good! moved some signs on tanks, the tanks were empty east of the bridge - but the locks were on and faucets shut. so??? Maybe they just were not filled recently?		
8/21/2017	Art	9	40		4	2	Site looks good. Weeded and mulched.		
8/22/2017	Sharena's class, John K, Don	SQ Trees		200	10	2	first day with Sharena's class went very well! Tank 1/4 full		
8/22/2017	Mark	green, orange		100	3	1	watered green half, tank empty		
8/22 Keep me posted here on the water levels in your tanks, not sure if vandals are emptying them or not, we'll try to keep track of it									
Wheat Ridge fills tanks on Mon and Thurs. They might not be able to get them full to the top. If the tank is 3/4 or 1/2 full, try to leave 1/4 tank for the other stewards that use your tank.									
	Joann	12 White NW		60	4	45 mins	Watered. Looks good		
Cut back a bit on	Brooks	11		35					
	Rob	Pink		47	4	1	Cone flowers blooming. Pulled some grass. Plants 47 live: 3 dead.		
	Lynnea	12 white NE	0	35	0	0.75	watered, weeded. Tank abt 1/2 full		
8/25/2017	Betty Jo, Don	green, orange		150	10,20	1,1	tank 1/2 full		
8/25/2017	Joann	12 white NW	0	60	4	45 mins	Plants are dry but doing well. Were very happy to get some water. Tank was full when I arrived		
8/26/2017	Heather, Don	SQ trail		225	10,10	1.5, 3	pulled a lot of weeds, tank almost empty		
8/27/2017	Rob	Pink		50	4	1	Plants: 47 live - 3 dead.		
8/27	Lloyd	Blue	0	50	3	2	Light water & weeding. Left about 1/5 of water in tank.		
8/27/2017	Afua, Don	all			10, 20	1, 1	toured all the sites with Afua, she has agreed to help!		
8/27/2017	Kris, Amy	Yellow	0	50	5	1,1	watered all plants		
8/28/2017	Art	9	70		4	2.5			
8/29/2017	Sharena's class, Don	SQ trees		200	10	2	good day. Sharena's teams worked well, tank 1/4 full		
8/29/2017	Afua, Don	12 white south		75	10,20	.5,.5			
8/29/2017	Afua, Don	12 white NW		50		.5,.5	tank 3/4 full		
8/29/2017	Afua, Don	yellow		50		.5,.5	tank 3/4 full		
8/29/17	Zack C.	Yellow		36	5	0.75			
8/29	Mark	Orange/Green		130	3	1	Tank has 125 gallons left		
8/30/2017	Don	8 yellow		35	20	1.5	tank is almost empty, saw 4 deer!		
8/30/17	Lynnea	12 white NE	0	35	0	0.75	watered, weeded. Tank a little better than 1/2 full		
8/31/17	Brooks	11		30					
8/31/17	Rob	Pink		50	4	1	Plants 47 live: 3 dead, several others stressed.		
THANK YOU SO MUCH!! Good job everyone on your efforts to care for the plants! The sites are looking good!									
AUGUST TOTALS			110	4525	510	82.5			
9/1/17	Jon	8- Blue	0	60	walked	1	Watered and pulled a few weeds		
9/2/2017	Heather, Dan, Don	SQ Trail		250	10, 10	1,1,2			
9/3/2017	Don, Jon B, Susan C, Art H	8 blue, 8 yellow, 9 white		50 (blue)	20	1	tank 2/3 full - 175 gal		
9/3/2017	Don, John B	11 white					tank almost full - 250 gal		
9/3/2017	Don, Joann F, Lynnea O, Andrew B, Afua A	12 white NW, 12 white NE, 13 white S		90 (12 white NW and NE)			tank 2/3 full - 175 gal		
9/3/2017	Don, Lloyd L, Kris C, Amy K, Zack C, Afua A, Rob R,	14 yellow, 14 blue, 14 pink				bjp-1.5 9/1	tank 3/4 full - 200 gal		
9/3/2017	Don, Betty Jo, Catherine D, Mark D	15 orange, 15 green					tank 3/5 full - 165 gal		
9/4/17	Kris, Amy	yellow		45	5	.75, .75	Lots of wasps around the tank! Watered all, weeded a few.		

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9/4/2017	Andrew	13 WS		30	8	0.5	175 gal > 145 gal		
9/5/2017	Art, Don	8 yellow		50	20	1.5,.5	about 1/2 tank left		
9/5/2017	Don	pink		60		1	about 3/4 tank left		
9/5/2017	Afua, Don	12 white NE, 12 white NW, 12 white S		150		1,1	tank almost empty		
9/5/2017	Art	9	60		4	2			
9/5/2017	Mark D	Orange, Green		125	3	1	1/2 tank left		
9/5/2017	Sharena's class, Don	SQ Trees		225	10	1	1/4 tank left		
9/1/2017	Catherine, Betty Jo	green, orange		150	walked	2			
9/7	Brooks	11		40					
9/7	Lloyd	Blue		50	3	2	Left tank 4/5 full. Light weeding. Something (deer?) has bitten off the tops of low plants, except wax currant and alder.		
9/8/2017	John K, Don	12 white NW		50	20	1.5	tank 1/2 full		
9/8/2017	John K, Don	12 white S		50					
9/8/2017	John K, Don	12 white NE		50					
9/8/2017	John K, Don	green		50			tank 3/4 full		
9/8/2017	John K, Don	pink		50			tank 3/5 full		
9/9/2017	Xcel Day of Service	SQ Trail		250	10	4	trail tank was slashed by vandals, GREAT day for Xcel DOS, pulled weeds and mulched		
9/9/2017	Catherine	orange		50	walked	1.25			
9/10/17	Kris, Amy	yellow	0	40	5	.75,.75	Tank down to about 1/4. Watered and light weeding.		
9/11/2017	Art	9	40		4	1.5			
9/11	Mark D	Orange, Green		125	3	1	Tank has 50-75 gallons left		
9/12/17	Zack C.	Yellow		35	5	1			
9/12/17	Rob	Pink		50	4	1			
9/12/17	John K, FLN Students	SQT Tree		220		1			
9/14/17	Jon	8- Blue	0	75	walked	1.5	Added some more mulch to half of the uncaged plants		
9/14	Susan	8 yellow	0	70	1	2	Nice to be back; thanks Don and Art for watering. Plants look good, but were definitely read for more water; and extra thanks to whoever added more mulch. Tank is at ~100 gallons.		
9/14	Lynnea	12 white NE	0	40	0	1	watering and weeding		
9/15	Brooks	11		35					
9/15/17	Catherine, Betty Jo	green, orange		150		1			
9/16/17	Rob	Pink		50	1	1			
9-19-17	Lynnea	12 white NE	0	40	0	0.75	watering and weeding. Found what looks like wasps nesting on tank. The tank on the north side of the trail second one west of Kipling St.		
9/19/2017	John K, Don	SQ Trees		200	10	1			
9/20/2017	Afua, Don	yellow		75	10,20	0.5	tank 1/2 full		
9/20/2017	Afua, Don	12 white NW		50		0.5	tank 2/3 full		
9/20/2017	Afua, Don	12 white S		75		0.5			
9/20/2017	Afua, Don	blue		75		0.5	tank 1/2 full		
9/19/17	Mark D	gm/orange		115	3	1	160 gallons left in tank		
9/20/17	Rob	Pink		50	4	1	Plants: 43 live 2 stressed 5 dead.		
9/22/2017	Betty Jo, Catherine	green, orange		150	5	1,1			
9/26	Mark D	green, orange		90	3	1	Soil was saturated, went light on the watering, 185 gallons left		
9/30/2017	Betty Jo, Catherine	green, orange				.5, .5	checked on site, still very damp		
September	totals		100	3735	201	52.5			
GREAT JOB EVERYONE - THANKS!!!!!!!!!!!!!!!!!!									

[1] Art