



MEETING AGENDA

Integrated Waste Management Local Task Force (LTF)

<http://Recycle.SolanoCounty.com>

Thursday, September 20, 2012
9:00 a.m.

Solano County Government Center

675 Texas Street, 6th Floor, Fairfield CA 94533

(707) 784-6765

Any person wishing to speak on an agenda item may do so by completing a card and handing it to the Clerk. Upon recognition by the Chair, state your name and address. Comments limited to three minutes per speaker.

1. CALL to ORDER / INTRODUCTIONS

Chair Jim Dunbar, Potrero Hills Landfill
Vice-Chair Lisa LeFebvre, Recology Vallejo

2. PUBLIC COMMENT

The public may speak on any item NOT on this agenda and/or any subject over which the LTF has jurisdiction. Comments limited to 3 minutes per speaker.

3. ACTION ITEM(s)

The Chair will provide the public with an opportunity to comment prior to any formal action to be taken by the LTF. Comments limited to 3 minutes per speaker.

a. Approval of Minutes:

July 19, 2012

4. PRESENTATIONS

a. Storm Water Explorers Program

by: Marianne Butler, Solano Resource Conservation District (SRCD)

<http://www.solanorcd.org>

2012 program summary of this outdoor educational field trip for Solano County 3rd graders.

b. Lake Berryessa Boater Program

by: Marianne Butler, SRCD

<http://www.solanorcd.org>

2012 summary of the Lake Berryessa Watershed Partnership's boater education program focused on invasive mussels and use of bilge pads to protect water quality.

5. NOMINATIONS for Chair and Vice Chair

Members may nominate themselves or other members to serve as chair and vice chair of the LTF for the period January 1, 2013 – December 31, 2015.

Elections will be held at the November 15, 2012 LTF meeting.

6. MEMBER UPDATES

7. ADJOURN

The next regular meeting is Nov. 15, 2012.

8. SPECIAL ITEM – OPTIONAL

Walking Tour of Solano County Government Center

Steve Pierce, Public Information Officer

INFORMATIONAL ITEM(s):

September 29: Rx Take Back Event

November 13: Agricultural Pesticide Container Recycling Event, Recology Hay Road, Vacaville

On-Going Registration:

1. Tire Amnesty Program – ENDS March 31, 2013

http://www.solanocounty.com/depts/rm/planning/garbage_and_recycling/waste_tire_amnesty_program.asp

2. Rx Drug Take Back Events Notification

http://www.solanocounty.com/depts/rm/planning/garbage_and_recycling/prescription_drug_take_back.asp

Non-confidential materials related to an item on this Agenda submitted to the LTF after distribution of the agenda packet are available for public inspection at the Solano County Government Center, 6th Floor Receptionist's Desk, 675 Texas Street, Fairfield, during normal business hours.

The County of Solano, in compliance with the 1990 Americans With Disabilities Act, will provide accommodations for persons with disabilities who attend public meetings and/or participate in County sponsored programs, services, and activities. If you have the need for an accommodation, such as, interpreters or materials in an alternative format, please contact Diane Gilliland, Department of Resource Management, 675 Texas St., #5500, Fairfield, CA 94533, (707) 784-6765.



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Agenda Item 3a:

DRAFT Minutes of

July 19, 2012

LTF Special Meeting

DRAFT MINUTES

Solano County Local Task Force (LTF) for Integrated Waste Management

Special Meeting of July 19, 2012

9:00 a.m.

Pacific Rim Recycling
3690 Sprig Dr., Benicia

Member Organization	Representative	Present
Allied Waste	Marie Knutson	X
CCL Organics	Dave Burnley	
City of Benicia	Tonya Gilmore	X
City of Dixon	Janet Koster	
City of Fairfield	Esther Blanco	X
City of Rio Vista	Jennifer Armer	
City of Suisun City	Amanda Dum	X
City of Vacaville	Brian McLean	
City of Vallejo	Derek Crutchfield	X
Concrush	Loriana Patterson	
County of Solano	Ed Padilla	X
County of Solano	Narcisa Untal	X
Fairfield-Suisun Sewer District	Kevin Cullen	
Pacific Rim Recycling	Steve Moore	X
Potrero Hills Landfill	Jim Dunbar	X
Potrero Hills Landfill (Alternate)	Natalie Hicks	
Recology Hay Road (Alternate)	Chris Taylor	
Recology Vacaville Solano / Recology Dixon (Alternate)	Fred Stemmler	X
Recology Vallejo	Lisa Lefebvre	X
Recycling Zone (Alternate)	Dave Ryan	X
Recycling Zone	Jack Waite	
Rio Vista Sanitation Service	Keith Nance	X
Sierra Club	Jane Bogner	X
Solano Community College	Jeff Lehfeldt	
Solano Garbage Company	Sandra Gonzalez	X
Travis Air Force Base	Dolores Tiburcio	X
VALCORE	Mark Nichols	X
VALCORE	Erin Tator	X

GUESTS:

Jill Firch, CalRecycle

Sal Conigip, Rio Vista Sanitation

Robert Jaco, DR3

Marissa Wong, City of Martinez

1. **Call to Order / Introductions**

The meeting was called to order by Chair Dunbar at 9:00 a.m.

2. **Public Comment**

There were no public comments.

3. **Action Item(s)**

a. **Approval of the Minutes**

The minutes of May 24, 2012 were approved.

4. **PRESENTATION**

a. **Mattress Recycling Program**

Robert Jaco introduced himself and gave a brief presentation on mattress recycling offered by DR3. They have been in business since 1999. They also have facilities in Florida and Connecticut. Eighty-five to ninety percent of a typical mattress can be recycled if it is broken down to its component parts of steel; foam; cotton and wood. They recycle over 100,000 mattresses and box springs every year. Some of their partners include Recology (San Francisco), Davis Street Transfer Station in San Leandro, Monterey Regional Waste Authority; City of Redding Transfer Station and Santa Cruz Resource Recovery. He noted that offering mattress recycling is a good way to increase reuse numbers. They provide a collection trailer which is replaced with an empty one when full. They take mattresses, box springs and futons.

Jim Dunbar thanked Robert Jaco for his presentation.

5. **Member Updates**

Jim Dunbar thanked Steve Moore of Pacific Rim Recycling for hosting the LTF meeting and offering a tour of the facilities.

Lisa Lefebvre, Recology Vallejo, reported that they held an e-waste and tire collection event. They also held a rummage sale to benefit a Relay for Life fundraiser.

Sandra, Solano Garbage, reported on their commercial and multi-family recycling programs. They also participated with Fairfield and Suisun City in a Green Week event to teach children how recycling can reduce the amount of garbage going into the landfills.

Dolores Tiburcio, Travis Air Force Base, an update of their Integrated Solid Waste Management Plan set to be reviewed by the Air Force chain of command. Their solid waste diversion goal is set for 55% in 2015; 60% in 2018 and 65% by 2020.

Amanda Dum, Suisun City, noted that she attended the Solano Regional Climate Action Plan Workshop on July 12th at the Solano County Government Center. The workshop was held by PG&E to offer public outreach on climate issues and future projections.

Derek Crutchfield, City of Vallejo, reported that after sending out information on AB341, he has been inundated with calls from businesses needing information on mandatory commercial recycling compliance. He also gave a presentation on recycling to a group comes into China. Also on Juneteenth the City gave away reusable bags in exchange for a pledge that they will use the reusable bags rather than the plastic bags. He also encouraged the jurisdictions to advertise the confidential paper shredding held on the third Saturday of every month at VALCORE in Vallejo. It is open to all Solano County residents.

Keith Nance, Rio Vista Sanitation Service, noted that they were also getting a lot of calls regarding commercial recycling. They also were holding a shredding event on Saturday at Trilogy in Rio Vista.

Erin Tator, VALCORE, also reported receiving many calls regarding AB341. VALCORE will be at the Thursday Farmers Market and composting classes will be taught by Jane Bogner the following Thursday Farmers Market. VALCORE is also encouraging shoppers at the farmers market to use reusable bags rather than the vendors' plastic bags.

Dave Ryan, Recycling Zone, reported that their volume has been good with many of their customers already complying with the mandatory commercial recycling law. Unincorporated Vallejo residents will be able to drop off bulky items this Saturday. Free compost is still available to Dixon and Vacaville residents.

Jill Firch, CalRecycle, noted that the Solano County Five Year Review of the Countywide Integrated Waste Management Plan went before the CalRecycle board and was approved.

Narcisa Untal, Solano County, thanked Ms. Firch for her efforts during the entire review process with CalRecycle. Referring to the letter from June Guidotti's attorney regarding her opposition to the approval of the Five Year Review, Ms. Untal stated that for any project to be included in the Siting Element it must first go thru the permitting process with Solano County Planning Division. She also announced that the Tire Amnesty Program has been extended to March 31, 2013. She also suggested that the jurisdictions consider the idea of collectively working together to provide a year round prescription take back program. She also described a new program for school gardens that would provide food for school lunches and the option to sell their produce at local farmers markets.

Jim Dunbar, Potrero Hills Landfill, noted that AB341 (mandatory commercial recycling compliance) was generating a lot of interest. He suggested the LTF consider a competition between jurisdictions. He also noted that elections for LTF Chair and Vice-

Chair will be held at the November meeting and asked that members start to think about nominations.

5. **Adjournment**

There being no further business the meeting was adjourned at 9:52 a.m.

The next regular LTF meeting is scheduled for Thursday, September 20, 2012

DRAFT



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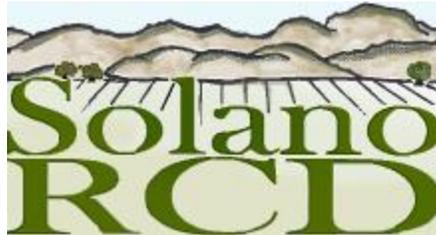
Agenda Item 4a:

Storm Water Explorers Program

The Watershed Explorers Program

2012 Program Summary

Written and Administered by
Solano Resource Conservation District



1170 N. Lincoln Street, Suite 110
Dixon, CA 95620
Tel (707) 678-1655x3

Solano RCD is very grateful of its current local funders, which include:

Cities and County of Solano
Vallejo Water Conservation Program
Fairfield-Suisun Sewer District
Suisun Resource Conservation District
City of Suisun City
Vallejo Sanitation and Flood Control District
Potrero Hills Landfill

In conjunction with all school districts in Solano County

Overview

The Watershed Explorers Program utilizes science and place-based learning to build awareness and understanding of local creeks and watersheds, their unique ecosystems, and ways in which we care for them. In-the-field discussions and activities teach children about the fragile habitats of birds and other wildlife. Students learn the importance of water quality in their watershed and discover the impacts of urban runoff and its components: trash, oil, household chemicals and other human and domestic animal waste and discards. Concepts are directly linked to the California State Standards and the program offers local children, many of whom have little or no experience being in open space settings, a concrete, experiential introduction to their watershed and creatures that inhabit it.

Audience

2007: Four classes participated (~120 students) at Lynch Canyon

2008: 18 classes participated (~ 427 students) at Lynch Canyon

2009: Four classes participated in an abridged program in Hanns Park along the Blue Rock Springs Corridor (~ 80 students)

In 2010, the program expanded to encompass both locations and 807 students and 214 adults participated. However, this was the last year at Lynch Canyon.

2011 Participation: A total of 1,181 students from 54 classes participated. Students from Benicia and Vallejo went to Hanns Park while students from north county went to Rockville Hills Park in Fairfield.

2012 Participation

Date	City	School	Total Students	Total Adults	Total People
Hanns Park 2012					
February 9	Vallejo	Cooper	35	8	43
February 16	Vallejo	Wardlaw	49	17	66
February 21	Vallejo	Beverly Hills	52	18	70
February 23	Vallejo	Cooper	51	11	62
February 28	Vallejo	Wardlaw	56	10	66
March 6	Benicia	Henderson	36	6	42
Rockville Hills Park 2012					
May 4	Vacaville	Alamo	78	39	117
May 10	Rio Vista	DH White	70	24	94
May 17	Vacaville	Orchard	43	15	58
May 24	Fairfield	David A Weir	99	17	116
May 25	Dixon	Dixon Montessori	67	25	92
May 30	Fairfield	Cordelia Hills	76	30	106
May 31	SC Unincorporated	Tolenas	58	9	67
June 1	Suisun City	Suisun Elementary	73	23	96
June 7	Fairfield	Cleo Gordon	80	23	103
PROGRAM TOTALS (includes both locations)			923	275	1198

Goals and Objectives

The primary program goal is to help students develop an awareness of the outdoor, natural world. Participants leave the program:

- understanding the impact of storm water on their watershed, particularly the impacts of oil, chemicals and human debris in that storm water;
- learning individual stewardship practices in their watershed, i.e., how they can mitigate or eliminate the impacts of their own and their family's behaviors around storm water protection and water quality;
- understanding the difference between native and non-native, invasive plants;
- knowing about at least one pollinator species.

Prior to the field trip, teachers are provided with manuals to prepare students for their experience. Students are given journals and participate in various activities including:

- making their own paper watershed model to observe what happens when oil or other contaminants are improperly disposed of somewhere in the watershed;
- learning how water flows;
- counting the number of gallons of water they use each day and discussing ways to lessen their consumption;
- drawing the life cycle of a plant, reading about pollinators and discussing phenology and its relevance to the interconnectedness of humans, animals, weather and our environment.

Method

When students arrive for the field trip, they are greeted with an introduction to the Watershed Explorers Program. As young scientists, students are informed of their tasks and are equipped with instruments to assist them with data collection: their journal, clipboard, magnifying lens, and binoculars.

In the natural environment, students, teachers and parents engage in an interactive learning experience about the relationship between human behaviors in urban areas and the impact of those behaviors in wild or open space. An Enviroscape presentation demonstrates the dynamics of a watershed and how it is affected by pollution. This hands-on activity provides students with a three-dimensional visual of the watershed and allows them to see how urban runoff enters nearby storm drains and ends up in the Sacramento River, Suisun Marsh, or San Pablo Bay (depending on the students' residence). Students are instructed to think about the runoff on the topographies of their study watershed and their constructed watershed. Following the demonstration, students receive a used oil collection brochure, which is intended for the use of their parents/guardians.

As students look for traces of birds, insects and mammals, they hike through open spaces only miles from their home. Students use their journals and identify popular plant species, learn how some plants are pollinated and learn how seed dispersal works for different plants. While engaged in these activities, students are asked to continually keep in mind how everything in nature fits together.

During the field trip, usually for the first time, students have the opportunity to plant plugs or propagate plants. Students attending the Rockville Park field trip site had the chance to propagate California poppy's. Students were provided with a 'cow pot' or a small pot made from cow dung. It was a hit with students especially since the pots are biodegradable and can be placed directly into the

ground. This was the first year students took the plants home with them. We plan to continue this method next year at the Rockville site.

At the Hanns Park site along Blue Rock Springs Creek students planted 1000 grass plugs of Creeping wild rye, Santa Barbara sedge, and Idaho fescue. The hands-on restoration component of our field trips is a valuable experience for the students. Nearly all students have never had the opportunity to get their hands in the soil and plant plugs. Additionally, students get to be a part of the installation of a major restoration project in their own town whose progress they are able to observe over a number of years.

At the end of the field trip the majority of students exclaim that the planting and seeing wildlife was their favorite components of the program. Many also note their enjoyment with the watershed model. They gain a more comprehensive understanding of the watershed by observing the course litter/oil/dog waste takes from the storm drain to the creek as they rain down with spray bottles on the enviroscape.

Evaluation Narrative

A four-hour field trip cannot fill in the gaps in applied learning created by a curriculum that teaches only to test results, but we believe that our program allows participating children to develop a beginning experiential understanding of their local watershed systems and a curiosity to learn more about the natural world. We expect the students we work with to take away a heightened sense of stewardship, and some practical means of demonstrating good stewardship in their daily lives when they finish the Watershed Explorers program.

To measure the outcome of the program and our expectations, we administer a 6-question pre and post assessment to each participating student. Questions designed to measure students' understanding of two watershed systems (the water cycle, focusing on storm water runoff and native plant and pollinator systems), and to assess students' grasp of concrete ways they can interact with those systems to protect and enhance their watershed.

We collected 860 pre-assessments from participating students who took part in the class at one of two different sites, followed by 827 post-assessments from the same students. Data tables providing of these results can be found at the end of this report.

In the pre-assessment, 21% of respondents were able to answer all questions with correct/partially correct answers. By the post assessment, 77% of the respondents were able to respond to all questions with correct/partially correct answers. This represents a performance increase of 55%, and represents a "grade" movement from an "F" to a high "C." Students who participated at the Blue Rock Springs Creek site demonstrated an increase of 57% in their overall assessment score: in the post-assessment 74% of respondents were able to provide correct or partially correct answers; while students who participated at the Rockville Park site increased their overall post-assessment score by 60% (79% of respondents providing correct or partially correct answers).

The orange columns in each of the data tables provide information about the total number of correct and partially correct answers for each question. The delta columns in the post assessment section demonstrate the percent change in correct answers from the pre-assessment to the post assessment. At the Blue Rock Springs Creek site, 97% of respondents responded with correct/partially

correct answers to question 6 (the question that asked for students to demonstrate real-life applications to what they learned) in the post assessment. In the pre-assessment, only 36% of those same students gave correct/partially correct answers for that question, an improvement in performance of 61%. At the Blue Rock Springs Creek site the numbers were very similar: 96% of respondents responded with correct/partially correct answers to question 6 in the post assessment, compared to 46% of students able to provide correct/partially correct answers for that question in the pre-assessment, a 50% improvement in performance.

Improvement of this sort was generally consistent with all questions, though as is shown in the tables, some concepts were more difficult for the students than others. The differences between native and non-native/invasive organisms proved most difficult (59% of all respondents could correctly or partially correctly explain the difference). This represents a 9% increase in understanding of this concept from last year.

The post-assessment response improvements are better than the early years of the program and consistent with or slightly improved from last year's scores. We begin with a fresh audience each year, so we cannot compare results across program years, but it is interesting to look at the trends. They do suggest improvements in large societal understanding of watershed functions and importance. Additionally, we can attribute at least part of this improvement in post assessment performance with our continual fine tuning of the program and our teaching strategy, as well as with our growing number of established relationships with many of the teachers of participating classes, whom we assume – and in some cases know – incorporate the Watershed Explorers program into their curriculum.

The current budget reality has retarded one of Solano RCD's big picture program goals to expand watershed education efforts throughout the county to provide three outdoor watershed experiences during each child's K-12 school experience. We would like to have the opportunity to work with Watershed Explorer program alumni again in middle school and then again in high school. When that happens, we will have sufficient program depth to make some more sophisticated measurements of long-term retention of concepts and concrete use of the knowledge students take away from their Watershed Explorers experience.

Teacher Quotes

We had a fabulous time! Yes, it was a bit trying at the end with the delay from the bus, but we won't let that discolor our experiences. We had wonderful teachers (field trip educators) and all of the kids thoroughly enjoyed the day and learned very important information! We all appreciate everything you do!!!

Janet Bennett, Beverly Hills, Vallejo

I just wanted to tell you what an outstanding field trip that was! The kids truly enjoyed it and learned a lot! The kids in my class say it is the best fieldtrip of their life and I thought the length and projects that the kids got to do were very valuable and just right. I appreciate letting the kids use the binoculars, as so much of science is taken away from kids these days that it makes this very organized fieldtrip even more valuable. I also heard from the parents that they really loved it. I look forward to the next one!

Carole Hartley, Wardlaw Elementary, Vallejo

This program is invaluable to the students of Fairfield. The students need to be out in nature to learn about the world we live in. And they need to be out in nature just to enjoy it as well. I grew up in the country, and I completely took for granted what a gift that was. As a kid, it was great fun just to be outside and observe the plants, trees, and wildlife. As an adult it is fun to watch the wonder of the children as they explore their world. All kids need that. I was blessed to share this experience with them, and I hope to return next year.

Lisa Drake, David A.Weir Elementary, Fairfield



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Agenda Item 4b:

Lake Berryessa Boater Program

Lake Berryessa Watershed Partnership Interns: What We Do

by Alisa Kim and Sabrina Colias

We are the Lake Berryessa Watershed Partnership summer interns. We are working in tandem for the Lake Berryessa Watershed Partnership to educate boaters on invasive mussels and bilge pads. We will be at the lake all summer on the weekends and holidays. Our main goal is to keep Lake Berryessa clean since it is used not only for recreation, but for irrigation and even as a drinking source!



We conduct surveys at the boat launch ramps to make sure everyone is aware of the invasive zebra and quagga mussels which infest freshwater lakes. These mussels, while seemingly harmless, can not only reduce fish populations but make the shores dangerous with their sharp shells and can clog pipes and water treatment facilities. Although Lake Berryessa is not currently infested, education about the invasive mussels is important to prevent their introduction since once they touch the water, they are near impossible to remove and the recreation at the lake could close down! Since the infestation in the east coast, some Southern California lakes, and the finding of the mussels in San Justo Reservoir, about an hour south of San Jose, prevention through education has been ramped up, and we are helping to ensure they do not enter Lake Berryessa!

Another survey we conduct is a boater survey, which informs boaters about clean boating practices. We provide eager participants with boater kits from the California Coastal Commission and Department of Clean Boating & Waterways, which includes helpful boating information as well as a free bilge pad!

A bilge pad is an absorbent pillow which is zip-tied in the bilge compartment found on inboard boats. It absorbs oil while repelling water and can last the entire boating season provided there are no leaks or spills. While very easy to obtain and install (they are available for free from us, the blue containers at most resorts and marinas), they serve an important purpose in keeping the lake clean and free of harmful oil. If a boater installs the free bilge pad given with the survey, they also receive a free gift, such as a ski flag, t-shirt, spf chap stick, or steel water bottle. These surveys assist boaters to engage in clean boating habits and give back to the lake they enjoy.



While most of our time is spent at launch ramps talking to boaters, we also visit Oak Shores and other day use sites with Bilgee, our bilge pad mascot. Since Lake Berryessa has many swimmers and picnickers, public education becomes important in encouraging individual ways to keep the lake clean. Bilgee asks children to become stewards of the lake and help keep the lake clean by picking up trash, reducing/reusing/recycling, and using the bathrooms and not the lake. For adults, we try to spread the word that Lake Berryessa is a drinking source for many people, approximately 500,000 residents of Solano County as well as nearly one million annual visitors each year.

We love to see the lake clean and healthy, and we hope you will help us through whatever means, whether it's taking our surveys, learning more about the lake, adapting environmentally-friendly boating and recreational habits, or even talking to us for a free gift!



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Agenda Item 5:

Chair & Vice Chair

By-Laws Description

SOLANO COUNTY LOCAL TASK FORCE (LTF) FOR INTEGRATED WASTE MANAGEMENT BY-LAWS

*Originally Adopted by the Board of Supervisors November 26, 1996, Resolution 96-230
Amendments adopted by the Board of Supervisors November 6, 2001 by Action
Amendments adopted by the Local Task Force November 13, 2008 by Action*

Chairperson's Duties

1. Conduct meetings
2. Plan agenda with County staff
3. Establish sub-committees for specific projects as needed
4. Contact members for follow-up on tasks, activities, and attendance

Vice-Chairperson's Duties

1. Acting Chair in the absence of Chairperson
2. Plan educational programs and field trips for the Task Force
3. Prepare discussion topics on emerging issues

Terms of Office

Elections held in November. Chair and Vice Chair assume responsibilities the following January.

The term of the Chair and Vice Chair are limited to two consecutive two-year terms. At the end of the Chair's last term, the Vice-Chair may become a candidate for Chair without nomination.

If at any time the Chair vacates this position during his or her term, the Vice Chair assumes all duties of the Chair for the remainder of the elected term and is authorized to appoint a new Vice-Chair to serve the remainder of that same term.

If at any time the Vice-Chair vacates this position during his or her term, the Chair is authorized to appoint a new Vice-Chair to serve the remainder of that elected term.