

## AGENDA

### Novato Sanitary District Solid Waste Committee Meeting Novato Sanitary District, 500 Davidson Street, Novato CA

Monday, November 7, 2011  
4:30pm – 5:30pm

1. Approve Agenda
2. Approve minutes of August 15, 2011
3. Open Time for Public Comment: (Please observe a three minute time limit.) *This item is to allow anyone present to speak on an item not on the agenda, or to request consideration to place on item on a future agenda. No action will be taken by the Committee at this time as a result of public comments made.*
4. Updates/Routine Business Items
  - City of Novato
  - Novato Disposal
  - Marin County JPA and Local Task Force
  - Legislation
5. Zero Waste Programs Status
6. Household Hazardous Waste Programs
  - Planning & feasibility schedule for new HHW facility – *to be available*
  - 2011 HHW programs update
  - FY 2010/2011 Form 303 & comparison report
  - Fall E-Waste event final report & recommendations for 2012 events
  - HHW Facility 2012 schedule
7. Public Outreach Events
8. 2011 Disposal/Diversion monitoring reports
9. Adjourn

**Next meeting: February 6, 2012**

***In compliance with the American with Disabilities Act, if you need special assistance to participate in this meeting, please contact the District offices at (415) 892-1694 during their regular business hours, at least 24 hours prior to the scheduled meeting. This will enable the District to make reasonable accommodation to help ensure accessibility to this meeting.***

***Materials that are public records and that relate to an agenda item will be made available for public inspection at the District offices, 500 Davidson Street, Novato, CA, during regular business hours.***

**NOVATO SANITARY DISTRICT  
SOLID WASTE COMMITTEE MEETING  
August 15, 2011  
4:30pm – 5:30pm**

**MINUTES**

Members Present:

Jean Mariani                      George Quesada

Others in Attendance:

Beverly James	Dee Johnson	Casey Williams
Steve McCaffrey	Pat Eklund	Michael Frank
Jason Nutt		

1. Approve agenda. The agenda for August 15, 2011 was approved as submitted.
2. Minutes of May 16, 2011. The minutes of May 16, 2011 were approved as submitted.
3. Open Time for Public Comment. Pat Eklund thanked Novato Disposal for resolving some truck and container “set out” issues in a residential neighborhood in Novato.
4. Schedule Committee meetings for FY2011/2012. Dee reviewed the potential dates for Committee meetings for the remainder of the FY2011/12 fiscal year. The Committee chose Monday, November 7, 2011, Monday, February 6, 2012 and Monday, May 7, 2012 as Committee meeting dates. All meetings to be held at the District offices at 4:30pm, unless otherwise noticed.
5. Update on Zero Waste Programs. Dee and Steve McCaffrey reviewed the Zero Waste programs calendar timeline. Steve indicated that the Novato Disposal newsletter will go out in September and will include articles on zero waste, 20 gallon containers, food scrap pails, pharmaceutical collection and the E-Waste event. Jean Mariani suggested that, in addition to promoting backyard composting, we should be promoting worm composting and adding this information to the website. Steve suggested a tour of the Sonoma vermiculture compost site. Dee indicated that we would be working with Marin Master Gardeners to hold a backyard composting class at the Senior Center. The Committee reviewed items on City Waste audits (City will be looking at all potential sites); Novato Disposal baseline audits (being revised due to route changes); food/green waste composting; outreach activities and promotion of food scrap pails. In reviewing the AB32 multifamily/commercial recycling programs, Jason Nutt suggested that site visits could be coupled with coordinated inspections by the City, District and others.
6. Household Hazardous Waste Programs.
  - 2011 HHW Programs Update. Dee indicated that July 2011 participation at the facility was 10% higher than July 2010.
  - FY 2010/2011 Form 303's. This report will be available at the next Committee meeting
  - Spring E-Waste Event final report. The spring E-Waste event collected 60,267 pounds of electronics from 964 residents. Although slightly less participation than the fall 2010 event, it was still highly regarded by all those participating. Costs for the event were 36% higher than fall 2010, primarily due to the significant decrease in CRT materials received(33% decrease), which are reimbursable from the state and offset our costs. Although funding is included in the FY2010/2011 budget for these events, costs will continue to increase if CRT waste continues to decrease, and non-reimbursable waste increases. We will maintain careful monitoring of these costs next fiscal year and adjust as necessary.
  - Fall E-Waste event scheduled for October 7 – October 10. The fall event is scheduled for October and will operate as in the past. We will be looking to expand outreach to websites and thru newsletters
  - Pharmaceutical update. The Novato Police Dept. recently announced they would be accepting all unwanted medications – including controlled substances – at the Police Dept lobby during regular business hours, Monday-Thursday, 10am-5pm. Dee indicated that we were also working with the Senior Center and the Police Dept. to have a monthly pharmaceutical collection drop-off at the Senior Center that would begin in 2012.

7. 2011 Disposal/Diversion monitoring report – 1<sup>st</sup> and 2<sup>nd</sup> Quarter. Dee distributed the report which indicates a 52% diversion rate for Novato for 2<sup>nd</sup> quarter 2011. (This is only waste reported from Novato Disposal.). This is a 2% increase from 2<sup>nd</sup> quarter 2010. Dee and Steve also discussed the revised diversion number for 2010. Unfortunately, due to double-counting some green waste diverted, the actual diversion rate for 2010 is 53%, not 59% as originally reported. Fortunately we caught this double count on the current reports, and they have been corrected for 2010, and 2011 are accurate.
8. Routine Business Items.
  - City of Novato Updates. Michael Frank indicated that the City had engaged a consultant to review the potential of collecting road impact fees and or franchise fees from the District and/or Novato Disposal. Michael indicated that the City is suffering difficult financial times and needs to look at all the available options to bring in additional revenue. Michael indicated that they would be looking at the policy issues, in addition to the potential legal questions re: Proposition 26. Pat Eklund asked whether the City was looking at all trucks that impacted City roads on a regular basis, such as UPS, gas trucks, or others. Michael indicated that there was no actual vehicle impact study contracted for. If the City does do that, those other carriers will be reviewed. George Quesada indicated that he thought this issue had been looked at and resolved over 10 years ago, that the City was responsible for road maintenance, that this would be considered double taxation and that any fee or tax for road maintenance would need to be totally transparent.
  - Novato Disposal updates. Steve McCaffrey and Casey Williams updated the Committee on Novato Disposal's food waste program and 2nd quarter report
  - Marin County JPA and Local Task Force Update. The JPA has not revised their by-laws to include District representation as of yet. The Local Task Force is working on zero waste outreach.
  - Public Outreach update. Staff participated in several outreach events including the Novato Art & Wine Fair – very successful; the 4<sup>th</sup> of July Parade – Novato Disposal won 1<sup>st</sup> prize in the commercial division and District staff assisted with a booth at the Marin County Fair. Upcoming events include a booth at the Marin EcoFair, the Novato Farmer's Market and the Hamilton Harvest Festival.
  - Legislative updates. Dee distributed a brief update on 4 bills which are currently active. The product stewardship bills for household batteries and fluorescent tubes both failed the deadline and will probably become 2 year bills.
9. Additional business. There was no additional business at this time.
10. Adjourn. The next Committee meeting is scheduled for Monday, November 7, 2011. The meeting adjourned at 5:40 pm

**2011 LEGISLATIVE UPDATE – November 2011****Legislation passed and signed by the Governor****AB341 Chesbro Solid waste: diversion.**

Would make a legislative declaration that it is the policy goal of the state that not less than 75% of solid waste generated be source reduced, recycled, or composted by the year 2020, and would require the department, by January 1, 2014, to provide a report to the Legislature that provides strategies to achieve that policy goal. Would also require commercial and multifamily generators to provide recycling and for local agencies to recoup fees. The bill contains other reporting requirements to be combined with the annual report. This bill contains other related provisions and other existing laws.

**AB818, Blumenfield Solid waste: multifamily dwellings:**

Would enact the Renters' Right to Recycle Act, to require an owner of a multifamily dwelling, defined as a residential facility that consists of 5 or more living units, to arrange for recycling services that are appropriate and available for the multifamily dwelling, consistent with state or local laws or requirements applicable to the collection, handling, or recycling of solid waste, except as provided. Exclusions to the Act apply, including inadequate space for recycling containers and cost of recycling services

**SB431 – Emmerson – Pharmacies –regulation**

This bill expands existing reporting requirements to the Board of Pharmacy when a pharmacy discovers that an employee has been stealing drugs and prohibits a pharmacist whose California license has been revoked from dispensing medication to Californians via mail. The final bill was amended to eliminate the provision prohibiting reverse distributors from accepting the return of dangerous drugs that have been dispensed to a patient that are later returned by the patient or patient's agent to a pharmacy, as specified .

**Legislation “Failed”in Current Session****SB568 Lowenthal – Recycling; Polystyrene Food Containers****Status: referred to inactive file on 9/8/11**

Would prohibit a food vendor, on and after January 1, 2016, from dispensing prepared food to a customer in a polystyrene foam food container and would define related terms.

**AB298 Brownley Recycling: reusable bags.****Status: Failed Deadline; dead for current session**

Would prohibit a manufacturer from selling or distributing a reusable bag, as defined, in this state if the bag is designed or intended to be sold or distributed to a store's customers, unless the guidelines for the cleaning and disinfection of the bag are printed on the bag or on a tag attached to the bag.

**SB515 Corbett Recycling: product stewardship: batteries: universal waste management facilities.****Status: Currently a 2 year bill to be heard in next session**

Would require, by April 1, 2013, a producer, or the household battery stewardship organization created by one or more producers, of a household battery to submit a household battery stewardship plan to the department, which would be required to include specified elements. The bill would allow a registered hazardous waste transporter to elect to submit a household battery stewardship plan to the department on behalf of one or more producers and would require a hazardous waste transporter making that election to comply with the provisions of the bill applicable to a household battery stewardship organization. This bill contains other related provisions and other existing laws.

**SB589 – Lowenthal –Recycling: household mercury-containing lamps****Status: Currently a 2 year bill to be heard in next session**

Would require a manufacturer of household mercury-containing lamps, on or before April 1, 2013, individually or through a stewardship organization, to prepare and submit to the Department of Resources Recycling and Recovery for approval a household mercury-containing lamp stewardship plan to establish a recovery program for the management of end-of-life household mercury-containing lamps. The bill would define terms, including defining the term stewardship fee as an amount added to the retail purchase price of a mercury-containing household lamp. This bill would constitute a change in state statute that would result in a taxpayer paying a higher tax within the meaning of Section 3 of Article XIII A of the California Constitution, and thus would require for passage the approval of 2/3 of the membership of each house of the Legislature.

## CALENDAR/TIMETABLE FOR ZERO WASTE PROGRAMS IN FRANCHISE AGREEMENT

All items taken from Exhibits 4 through 6 of March 14, 2010 Solid Waste Franchise Agreement

### EXHIBIT 4: Zero Waste Community Outreach

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
1. Novato Disposal newsletters	Casey/Bessie	2 times a year	Notify District in Fall for dates of subsequent annual newsletters	1 Zero Waste feature article in each newsletter <i>Zero waste article in fall 2011 newsletter</i>
2. Promote 20 gallon cans	Casey/Bessie	ongoing	ongoing	Promote in newsletters & bill inserts <i>Note: 20 gal can use increased 22% from 3rd Q 2010</i>
3. Promote backyard compost bins	Steve/Casey/Bessie	ongoing	Spring 2012	Promote in newsletter, at events & with Backyard Compost classes run by Marin Food Scrap Coalition [or Marin Master Gardeners] <i>Promote at Senior Center Spring 2012!</i>
4. 2 additional Outreach Campaigns promoting zero waste, waste reduction and/or other diversion	Steve/Casey	Submit ideas for outreach campaigns to District for approval by 4 <sup>th</sup> quarter (October) of each year for following year	October of each year to District for approval <u>2011</u> : Food Waste Campaign	<b><u>2012 Campaign Ideas:</u></b> <ul style="list-style-type: none"> <li>• <b>Target 95 gallon can customers to reduce can size;</b></li> <li>• <b>Target commercial customers to recycle</b></li> <li>• Target reducing packaging, waste, etc.</li> </ul>
5. Promote commercial audits to all businesses of 4 c.y. or greater	Scott/Dee	(see AB32 item)	(see AB32 Item)	Include in AB32 promotions
6. New customer packets to include Zero Waste promotions	Casey/Bessie	ongoing	ongoing	New customer to be directed to website; packets upon request and update annually

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
7. Visit all commercial businesses with 4 c.y. service or more and multi-family complexes of 5 units or more annually	Scott/Dee	(see AB32 item)	(see AB32 item)	Visits to determine service level, contact with owners of business and/or property managers; visits with multi-family also identify resident outreach methods
8. Participate in 10 events annually	Steve/Casey/Bessie/Dee	Submit ideas for events to District by 4 <sup>th</sup> quarter of each year for following year (Nov) – <b>target list for 2012 events</b>	<b>Submit list to District by November 2011 for 2012</b>	<u>Events Committed/ Ideas:</u> <ul style="list-style-type: none"> <li>• 4<sup>th</sup> of July – <b>2011 &amp; 2012</b></li> <li>• Chamber Business Fair – <b>April 2011&amp;2012</b></li> <li>• An earth Day event - <b>2012</b></li> <li>• Novato's Clean and Green Day - <b>2012</b></li> <li>• Novato's Art &amp; Wine Festival – <b>2011 &amp; 2012</b></li> <li>• Novato Farmer's Markets – <b>2011 &amp; 2012</b></li> <li>• Pollution Prevention Week Event (Sr. Center) – <b>Sept 2011 &amp; 2012</b></li> <li>• E-Waste Events handouts – <b>2011 &amp; 2012</b></li> <li>• Rotary presentations</li> <li>• Sr. Center Health Fair – <b>2011 &amp; 2012</b></li> <li>• A school event – <b>School Tour of Novato – 2011</b></li> <li>• Hamilton Harvest Festival – <b>Nov 2011 &amp; 2012</b></li> </ul>
9. Conduct annual retraining at Novato schools on recycling and Zero Waste; participate in developing Zero waste curricula for schools; offer Zero Waste & recycling programs for school assemblies	Bessie/MCC	(See Ex. 5 School Recycling and Food Waste Program)	(See Ex. 5 School Recycling and Food Waste Program)	Input from Bessie and MCC; <i>meeting with MCC, District &amp; Novato Disposal scheduled</i>

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
10. Annual Waste Audit of City facilities and work with City on Zero Waste goals	Steve/Scott/Dee	Annual basis before 4 <sup>th</sup> quarter of each year	Work with City to determine sites; <i>determine sites by 11/31/11</i>	<u>Potential sites for 2012:</u> <ul style="list-style-type: none"> <li>• Corp. yard</li> <li>• City offices</li> <li>• Police Dept.</li> <li>• City parks</li> <li>• Senior Center</li> </ul>
11. Bilingual Zero Waste recycling and diversion guides	Casey/Bessie	<i>To be revised - 11/30/11</i>	<i>To be revised - 11/30/11</i>	Update for current Guides
12. Paperless billing	Casey	Effective May 2011	Effective May 2011	Promote in newsletter and billing inserts
13. Interactive website with links to Zero waste & reuse options	Casey/Dee	See Exhibit 6	See Exhibit 6	
14. Billing inserts on program updates as needed	Steve/Casey	As needed	As needed	
15. Annual selective route audits to gauge program success	Steve/ Scott	Annual baseline audit <i>scheduled for November 2011</i>	<i>11/30/11</i>	2011 conduct baseline audit on food waste program; <i>Truck routes revised to work out of Petaluma yard; route audits now scheduled for November 2011</i>
16. Corrective action cart hangers	Steve/Route supervisor	As needed	As needed	
17. Work with regional Reuse E-network plan	Casey/Dee	Dependent on JPA	Dependent on JPA	JPA is working with Alameda & San Francisco to update regional database; ND will provide link to database on website

**Exhibit 5: School Recycling and Food Waste Program outline**

Bessie and MCC will be working on this item; needs more discussion and a separate calendar of goals, tasks and due dates

**EXHIBIT 6: Zero Waste Program Implementation Schedule**

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
<b>Food/Green Waste Composting</b>				
1. Single family residential	Steve/Scott/Casey  Scott – ID HOA's	- I.D. HOA's - 04/30/11  <i>Meet with HOA's</i>	Final completion date -	Additional work needed for some HOA's who don't have green carts, but have single family service; Scott working on list of all these and meeting with HOA's to provide carts for food & green waste
2. Place food waste diversion stickers on food carts and notify re: food scrap pail availability	Steve/Scott/Casey	<b>Revised:</b> <i>Stickers delayed; mail can stickers &amp; notify re: food scrap pails – November 2011</i>	<i>11/30/11</i>	Do mailing of food waste diversion stickers in <i>Nov 2011</i> asking all households to place on cart; <i>notify re: food scrap pails</i> ; NDS to do an audit in <i>January</i> to determine compliance; <i>food scrap pails advertised in newsletter, website, ads; distributed at Farmer's Market &amp; Senior center</i>
3. Supermarket food waste diversion	Steve/Scott/Casey	<i>Need to schedule</i>	February 2012	
4. Restaurant Food waste diversion	Steve/Scott/Casey	<i>Need to schedule</i>	March 2012	
5. Multi-family food waste diversion	Steve/Scott/Casey	<i>Need to schedule</i>	July 2012	
<b>C&amp;D Recycling, reports &amp; enforcement</b>				
1. Monitor C&D recycling reports & conduct outreach to contractors	Casey/Dee	Ongoing/quarterly reports	Ongoing	NDS provides quarterly C&D recycling reports to City & Dee
2. Enforce C&D recycling thru Solid Waste ordinance	Beverly	Ongoing	Ongoing	District solid waste ordinance to be enforced and updated <i>NOTE: Current City C&amp;D diversion reported by Novato Disposal at 80%</i>

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
<b>AB32 /AB341/AB818 Multi-family &amp; Commercial mandated recycling</b>				
1. Identify all multifamily & commercial sites <i>&amp; review recent legislation for changes to program</i>	Beverly/Casey/Dee/Scott	<b>Revised: Dec 2011</b>	<b>Revised: Dec 2011</b>	Review Novato Disposal & District databases to obtain accurate site information; develop database to include site name, address, phone, bill payer and/or site owner, level & type of service provided (garbage?; recycling?); site visits; outcome
2. Develop materials for commercial & multifamily residents	Bessie/Dee review	Dec 2011	January 2012-	Agreed to move this item PRIOR to Site Visits so that we have material to handout;- &more time for site visits
3. Make site visits	Scott	Nov 2011- January 2012	January 2012	Visits to include information on AB32 requirements, waste audit availability; potential of using Dee and/or Casey for visits also
4. Participate in workshops for multifamily & commercial property managers	Beverly/Dee/Scott	March 2012	March 2012	District will be responsible for developing workshops, with Novato Disposal's participation and assistance; need separate schedule for workshop development – Dee; rental housing associations assistance
5. Provide recycling containers	Steve/Scott	May 2012	May 2012	Following site visits, to determine size & placements, Novato Disposal can begin delivery of recycling containers
6. Implement mandated multifamily & commercial recycling	District & Novato Disposal	July 2012	July 2012	Date mandated by legislation; District to provide additional outreach & education

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
<b>Schools Campaign</b>				
1. Institute food waste recycling	District & Novato Disposal	2010	2010	Program instituted in select schools
2. Monitor food waste & recycling programs; meet with teachers & students	Bessie & MCC	See EX 5	See EX 5	Separate calendar & schedule to be developed
<b>Backyard Composting</b>				
1. Promote backyard composting through compost bin promotion	Steve/Casey/Bessie	Ongoing	Ongoing	See Item EX 4, Item 3
<b>Wet/Dry Route Collections</b>				
1. Discuss feasibility of system & institute if feasible	District & Novato Disposal	2018/2020	2020	Discussions begin in 2018, with system instituted in 2020 if feasible
<b>Discuss feasibility &amp; diversion potential of conversion technology systems</b>	District & Novato Disposal		2025	
<b>Zero waste diversion goals</b>				
1. 60% diversion	Novato Disposal	12/31/15	12/31/15	With 60% diversion required by 12/31/2015, reports will be required within 60 days , or by end of February 2016 to District to prepare final reports
2. 70% diversion	Novato Disposal	12/31/20	12/31/20	With 70% diversion required by 12/31/2020, reports will be required within 60 days , or by end of February 2021 to District to prepare final reports
3. 80% diversion	Novato Disposal	12/31/25	12/31/25	With 80% diversion required by 12/31/2025, reports will be required within 60 days , or by end of February 2026 to District to prepare final reports

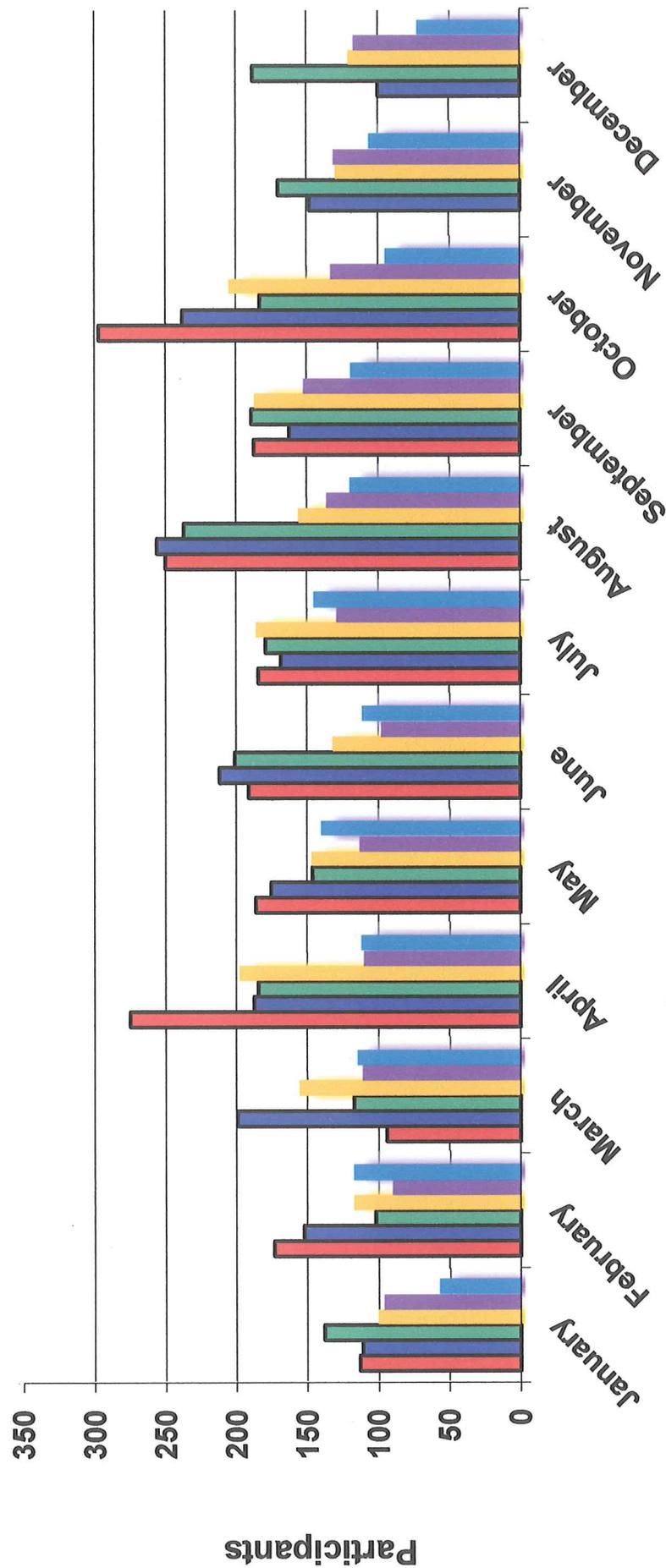
HHW FACILITY SUMMARY 2011	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Total Participants	143	173	94	275	156	191	184	250	187	287			1950
Been to events before?(Yes)	77	126	68	201	130	145	128	197	152	221			1445
Permanent facility?	58	102	57	160	100	119	103	158	116	166			1139
Temporary events?	29	34	15	65	40	47	34	64	52	75			455
First time user?	36	47	26	74	56	46	56	53	35	76			505
Type of waste brought in?													
Antifreeze	5	12	5	14	11	16	12	24	4	24			127
Asbestos	0	3	1	1	6	4	3	0	2	0			20
Auto products	16	20	17	44	26	33	27	36	25	66			310
Car batteries	5	3	2	4	8	4	3	5	5	13			60
Computer monitors	6	21	11	27	8	8	12	24	7	5			129
Cements, sealers	10	19	8	34	28	29	18	23	20	29			223
Fluorescent tubes & bulbs	17	22	11	39	17	22	23	37	23	54			262
Household batteries	19	38	14	80	30	32	44	62	25	70			414
Household cleaners, polishes	25	47	22	71	43	52	47	55	48	78			488
Latex paint	36	65	32	111	80	81	71	93	73	130			772
Mercury Waste	3	3	0	1	1	2	3	3	2	4			22
Motor oil/filters	17	21	9	46	21	22	22	31	22	40			258
Old gasoline	11	7	6	10	8	16	18	8	9	11			104
Oil base paint	22	52	28	91	62	73	61	91	60	105			645
Paint thinners, solvents	30	41	26	88	51	68	61	74	44	100			583
Pesticides, herbicides, insecticides	21	27	16	56	39	44	37	48	40	74			402
Pet care products	5	10	3	15	10	7	7	7	7	7			81
Photo chemicals	1	0	1	0	0	1	4	1	2	5			15
Pool Chemicals	5	4	2	13	2	5	6	10	9	6			62
Propane/helium tanks/fire extinguishers	5	17	6	31	15	18	15	27	15	34			183
Shrubs	1	1	1	1	0	2	3	4	1	6			20
Spray paints	14	27	7	51	35	46	30	43	24	48			325
Television	31	30	15	25	12	23	28	31	17	19			231
Thermometers/thermostats	1	5	0	3	1	1	0	4	4	6			25
Wood preservatives, stains	7	19	11	41	21	34	23	31	16	43			246
Other	26	41	14	51	30	35	27	51	25	43			346
Hear about program?													
Recycling Center filer	42	48	29	127	66	74	64	96	65	129			740
Novato Advance ad	9	15	10	15	15	14	7	16	12	15			
Novato Patch ad													
Word of mouth	25	34	13	26	23	25	36	36	37	40			295
Novato Disposal newsletter	45	65	36	145	86	81	64	117	86	145			870
Sanitary District newsletter													
Sanitary District website	5	9	4	14	13	9	15	15	4	18			106
Other	11	21	19	18	22	29	17	25	21	19			202
Change your own motor oil?													
Yes	11	22	17	35	28	27	31	38	33	48			290
Novato Recycling Center	4	13	12	23	19	21	18	22	21	33			186
Kragens	6	10	4	13	8	7	14	26	12	20			120
Pennzoi	1	1	0	0	0	0	0	0	0	2			4
Other	1	1	0	0	1	0	1	0	1	0			5
If yes, want curbside pickup?	6	11	5	15	13	9	10	17	17	26			123
No	103	151	77	240	165	168	154	211	152	249			1670
Comments													
Compliments/Good	30	59	31	111	60	61	59	86	79	94			670
Complaints	2	2	0	4	1	3	3	0	0	1			16

**HHW PARTICIPANTS 2006 - 2011**

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
2011	113	173	94	275	186	191	184	250	187	297	148	100	1,950
2010	111	152	199	187	175	212	168	256	162	238	170	188	2,108
2009	138	102	117	184	146	201	179	237	189	183	170	188	2,034
2008	101	118	155	198	147	132	186	156	187	205	130	121	1,836
2007	96	90	111	110	113	98	129	136	152	133	131	117	1,416
2006	57	118	115	112	140	111	145	120	119	95	106	73	1,311
% Change from 2010	1.80%	13.82%	-52.76%	47.06%	6.29%	-9.91%	9.52%	-2.34%	15.43%	24.79%			

August was open 6 days  
 August was open 6 days

# HHW Facility Monthly Participation 2006- Current





## FORM 303 Comparative Data

Item 6

<u>Waste Stream(pounds)</u>	<u>2009/2010</u>	<u>2010/2011</u>	<u>% Change</u>
Oil-base paint	48,290	77,750	61%
Poison(excl. aerosols)	8,100	9,950	23%
Organic and Inorganic acid	1,250	1,420	14%
Organic and Inorganic base	2,400	3,160	32%
Oxidizers,organic peroxides	958	772	-19%
Other PCB waste(ballasts)	350	800	129%
Antifreeze	5,526	4,545	-18%
Auto type batteries	10,520	11,065	5%
Latex Paint	69,700	79,740	14%
Motor oil/oil products	3,750	N/A	
Oil filters	375	N/A	
Asbestos	1,100	790	-28%
Mercury containing waste other	4	20	400%
Fluorescent bulbs	13,915	12,880	-7%
Rechargeable batteries	3,305	2,935	-11%
Other Household batteries	21,300	21,900	3%
Covered Electronic Devices	106,843	82,690	-23%
Other Electronic Devices	88,785	89,367	1%
Sharps	110	63	-43%
Compressed Gas Cylinders	2,495	2,590	4%
<b>Aerosol containers - corrosives, flammables, poisons</b>	<b>2,650</b>	<b>4,000</b>	<b>51%</b>
Other-Class9/Non RCRA	700	800	14%



## **NOVATO E-WASTE COLLECTION**

**Friday, October 7, 2011 – Monday, October 10, 2011**

### **FINAL REPORT**

**Number of Participants: 1,007 residents**

**E- Waste Collected: 53,006 pounds**

### **Background**

Novato's fourteenth E-Waste collection event was held from Friday, October 7, 2011 through Monday, October 10, 2011 at the Recycling Center. Due to the sunset of the E-Waste exemption for disposal of electronics, essentially everything with a plug or cord was accepted. Although TV's and CRT's are currently collected at the Household Hazardous Waste (HHW) facility, this special drop off event offers residents the opportunity to properly dispose of all electronic items.

### **Scope**

The event functioned as follows:

1. Novato residents dropped off E-Waste during a four day period beginning Friday, October 7 through Monday, October 10 from 10:00am – 3:00pm. No appointment was necessary.
2. Novato Disposal was responsible for collecting and sorting E-Waste at the Recycling Center. All SB20/50 E-Waste materials - computer monitors, TV's and laptops – were sorted separately and palletized and shrink wrapped. All other E-Waste was packaged in large Gaylord boxes.
3. Novato Disposal was designated the "authorized collector" for the event, and was able to receive the state reimbursement of \$.16/lb. for all CRT's and TV's collected. Novato Disposal provided a separate crew of 5 unloaders, an individual to assist with surveys and a supervisor each day at the Recycling Center dedicated only to the E-Waste collection.
4. ECS Refining of Santa Clara was contracted with to provide E-Waste recycling services and functioned as the "approved recycler" under SB50/20 requirements. ECS was responsible for all transportation and E-Waste recycling, along with providing materials, such as pallets, Gaylord boxes and shrink wrap. In addition, ECS provided 2 additional staff to assist Novato Disposal with unloading and packaging on Saturday and Sunday. ECS also transported e-waste collected every day of the event.
5. Novato Disposal agreed to make special pick-up arrangements for the elderly or handicapped during the week.

6. The program coordinator supervised the entire program and was in attendance all four days to conduct surveys, traffic control, unloading, paperwork and overall coordination and supervision of staff and the recycler.

**Participation**

A total of **1,007 residents** dropped off *E-Waste* during the four day event. This was slightly more – 4.5% higher - than our participation in the Spring event. Surveys were completed by all residents. The daily participation, based on actual surveys completed is listed below:

	FRI	SAT	SUN	MON
Daily Participation	244	277	230	256

Saturday continues to experience the highest level of participation, with Monday and Friday coming in “second and third”.

**Type of Waste Collected**



Due to the sunset of the Universal Waste exemption for household electronics, nearly everything with a cord was accepted, except for large appliances such as washers, stoves, etc. The following *E-Waste* was accepted:

- Computers, computer monitors, laptops – maximum, of 5 per person
- Fax machines and small table top copy machines
- Computer peripherals, such as printers, scanners, cables, mouse, keyboards
- Telephones, cell phones, answering machines
- Electric typewriters
- Televisions
- Radios, tape players, stereo equipment, DVD recorders, VCR’s, camcorders
- Kitchen appliances such as blenders, coffee makers, microwaves
- General household appliances – hair dryers, lamps, vacuums

All fliers and ads made it clear what was and was NOT acceptable. In addition, residents were encouraged to donate all working electronics to local thrift stores or charities.

A total of **53,006 pounds** of *E-Waste* was collected over the 4-day period. The chart below illustrates the total pounds and pounds per participant.

Number of participants	1,007
Total <i>E-Waste</i> Collected (lbs)	53,006
Pounds per participant	53



## Publicity and Outreach

Publicity and outreach was significantly increased for this event to include the following:

- Separate fliers mailed to all Novato households
- Article in Novato Disposal newsletter, mailed to all customers
- Article in Sanitary District newsletter, mailed to all residents
- Ad placed on Novato Patch
- Ad placed in Novato Advance
- Separate notice on Sanitary District website
- Fliers posted at city hall, Sanitary District, Recycling Center
- Notices on hotline

## Costs

The state's E-Waste law continues to provide reimbursement to the approved collector – in this case, Novato Disposal - for collection of all CRT devices. For this event we were able to maintain our non-CRT waste collected at **NO CHARGE**. In addition our E-Waste recycler – ECS Refining– did not charge for their additional workers on Saturday and Sunday and continued to provide us with all transport and supplies at no charge. Novato Disposal charged for laborers, supervisors and surveyors for all four days, along with pass through costs for printing and mailing of fliers to all residents.

Costs for this event totaled \$7,262.41, a **14% increase** from our costs in spring 2011. This continues to be due to a reduction – 12% - in CRT materials received, which provide an offset to Novato Disposal's charges. **Participation over 4 days increased slightly – 4.5% - from spring 2011**. Overall total pounds collected also decreased by 12%. CRT waste accounted for only 38%, by weight, of all E-Waste collected. Non-reimbursed E-Waste accounted for the remaining 62%. Novato Disposal billed us directly for any labor and service charges remaining after the CRT reimbursement were received. The following chart illustrates costs, reimbursements and pounds collected.

Individuals Participating	1,007	
Total Pounds collected	53,006	
Pounds per participant	53	
CRT Weight (pounds)	20,122	
Non-CRT E-Waste (pounds)	29,801	
Microwaves (pounds)	3,083	
<b>COSTS</b>		
Non-CRT recycling costs (NO CHARGE)	\$00.00	
Rental Charges (Fork lift; )	\$695.00	
Novato Disposal Labor	\$4,237.34	
Novato Disposal printing/mailing of flier	\$5,549.59	
Subtotal Novato Disposal costs	\$9,786.93	
Reimbursement of CRT's paid to Novato Disposal (\$.16/pound)		(\$3,219.52)

Remaining Novato Disposal Costs	\$6,567.41	
Total E-Waste event costs	\$7,262.41	

Funding of \$12,000 was included in the current FY 2011/12 budget for 2 *E-Waste* events this fiscal year.

### **Survey Results**

All participants completed a brief questionnaire. (Attachment A).

In general:

- 31% of all participants were using the program for the first time, slightly higher than spring, 2011.
- The majority of individuals (71%) continue to hear about the event through the *E-Waste* mailer.
- The additional outreach, including District newsletter, Novato Patch ad and District website, was mentioned by a total of 12% of all individuals.
- Of the 1,007 participants, over 49% brought in computer monitors or televisions.
- Over 74% of the participants brought in some type of computer related product – monitor, CPU, printer, etc.
- 42% of participants brought in some type of kitchen or general household appliance
- Universally, respondents were very appreciative of the service.

### **Comparative Data**

Attached is a chart comparing data collected from the 2003 – 2011 events (Attachment B).

- Participation remained high, slightly higher than the spring 2011 event. Average daily participation was 252 per day. Saturdays, Fridays, and Mondays continue to be the busiest days. Although residents are making good use of other E-Waste recycling opportunities – Goodwill, the HHW facility, other E-Waste recycling events held around town – to dispose of their E-Waste, these E-Waste events remain enormously popular.
- Costs for the fall 2011 event **increased by 14%** due to a decrease in SB20/50 reimbursable materials. Reimbursable materials – CRT's and TV's – have been decreasing since 2009. Pounds of CRT's/TV's collected decreased by 12% from the Spring 2011 event, resulting in a 15% decrease in E-Waste reimbursement from the State. ECS, our E-Waste recycler continues to provide us with recycling of all non-CRT E-Waste at no charge, and provides us with 2 workers on Saturday and Sunday at no charge, which is a great benefit. Novato Disposal bills us directly for all labor and service charges, minus any SB20/50 reimbursement. We will continue to pursue the best possible pricing, with authorized reputable E-Waste recyclers, for all future events.

## Recommendations

Based on the success of these events and the obvious community need it is recommended that we continue with the E-Waste events for 2012, with some changes. Recommendations include:

- With the additional availability of E-Waste collection sites and events in Novato, total participants and total pounds collected at these E-Waste events have decreased steadily since 2010. The amount of reimbursable waste collected – TV's and CRT's – has decreased over 42% since 2009, with actual reimbursement from the state also decreasing by 42%. Meanwhile, labor, mailing and printing costs have remained fairly steady or increased slightly. In addition, as we see TV and CRT waste decline, non-reimbursable electronics, such as small household appliances, stereos, printers, etc. have increased as proportion of total waste collected.

When these events began in 2003, they were held for 7 days. In 2006, we reduced the number of days to 5. Then in 2008, we reduced the number of days to the current 4. Even with the reduction in number of days, the average participation remains high at 1,052 participants.

Following discussions with Novato Disposal staff, and recognizing the increasing costs of these events and the increased availability of additional E-Waste events for Novato residents, **it is recommended that the E-Waste events for 2012 be reduced from 4 days to 3 days, Saturday, Sunday and Monday, held again in the spring and the fall. This will result in a 25% decrease in labor costs and potential additional savings**

- With the change in Novato Disposal's bulky waste pick-ups, we no longer benefit from the twice a year clean-up events. (This may continue to impact our participation.) However, we continue to ensure that Novato Disposal's newsletter is mailed out prior to the E-Waste events, to benefit from their additional publicity and outreach.
- Continue to monitor the rates CalRecycle pays to reimburse E-Waste collectors and recyclers. (Currently the rate is \$.39/lb - \$.23 to the recycler and \$.16 to the collector). CalRecycle has the ability to review these rates on an annual basis, so these rates may change in 2012. Advocate for additional computer waste, such as printers, hard drives and peripherals, to be included in the reimbursement program.
- Continue to work with an E-Waste recycler, such as ECS, who is a member of the *e-Stewards* certification program. This program has the most rigorous third party audit and certification procedures for E-Waste recyclers to ensure that none of our E-Waste is exported to any third world countries, dumped or uses prison labor. (Currently ECS has signed a pledge of non-export, goes through a third party "desk audit" process and is committed to a thorough *e-Stewards* audit and certification

process.) ECS is an extremely reputable company - one of the major reasons we have continued to use them! We will continue to promote this fact in our advertising, Novato Disposal's newsletter and future E-Waste promotions.

- Continue to collect all E-Waste, including CRT's and TV's at the HHW facility.
- Continue to publicize additional opportunities for residents to properly dispose of E-Waste, such as Goodwill and Marin Computer Resources in Bel Marin Keys.
- Work with the CA Product Stewardship Council, CA North American Hazardous Materials Management Association and others, to pursue legislation for producer "take-back" of used electronics.
- Continue to monitor Novato Disposal labor costs, to ensure necessary staffing.

Funding for future E-waste events and collections will continue to increase and "stretch" our budget. The reduction in days will provide some potential savings. However, if the trend of greater amounts of non-reimbursable E-waste persists, costs for these events will increase. We will maintain careful monitoring of these costs over the next fiscal year. Funding is included in the FY2011/12 budget for 2 events in the fiscal year.

E-WASTE QUESTIONNAIRE RESULTS Oct 7-10 2011		FRI	SAT	SUN	MON	TOTAL	%
1.	Number of Participants	244	277	230	256	1,007	
2.	First time user						
	YES	69	102	63	80	314	31.18%
	NO	175	175	167	176	693	68.82%
3.	How did you hear about the program?						
	E-Waste mailer	177	193	162	178	710	70.51%
	Novato Disposal newsletter	84	95	62	55	296	29.39%
	Novato "Patch" ad	3	4	1	0	8	0.79%
	Novato Sanitary District website	5	1	3	2	11	1.09%
	Novato Advance ad	13	7	10	13	43	4.27%
	Novato Sanitary District newsletter	21	23	18	31	93	9.24%
	Word of Mouth	9	4	4	5	22	2.18%
	Other	4	6	0	2	12	1.19%
4.	What are you bringing?						
	Computer monitors	63	72	56	46	237	23.54%
	Televisions	72	77	50	49	248	24.63%
	Computers (CPU's, keyboards, etc)	64	92	65	67	288	28.60%
	Telephones, cell phones, answering machines	57	71	59	77	264	26.22%
	Computer printers, fax machines, copiers, electric typewriters	54	60	41	60	215	21.35%
	Radios, tape players, DVD's, VCR's, etc.	59	81	63	75	278	27.61%
	Small Kitchen Appliances(microwaves, blenders, toasters)	48	60	60	60	228	22.64%
	Small General Household Appliances (Hair dryer, iron, vacuums, lamps, etc.	45	54	55	49	203	20.16%
	Other	63	67	58	64	252	25.02%
6	Comments						
	Good	76	43	78	96	293	29.10%
	Bad	1	2	0	0	3	0.30%

**E-WASTE COMPARATIVE DATA 2003 - 2011**

	2003	2004	2005	2006	2007 (Spring)	2007 (Fall)	2008 (Spring)	2008 (Fall)	2009 (Spring)**	2009 (Fall)**	2010 (Spring)**	2010 (Fall)**	2011 (Spring)**	2011 (Fall)**
Participants	650	1,247	1,167	1,314	1,163	936	920	909	1,091	1,014	1,217	1,115	964	1,007
Total pounds	111,707	103,714	96,077	107,798	80,820	56,260	55,799	63,680	70,708	70,251	75,147	73,899	60,267	53,006
CRT Weight	N/A	N/A	53,623	49,067	41,420	23,850	22,871	29,231	32,283	34,462	34,291	34,085	22,915	20,122
Non-CRT Weight	N/A	N/A	42,454	51,166	36,682	28,137	34,693	30,592	37,725	32,775	36,712	34,384	32,786	29,801
Microwave weight	N/A	N/A	N/A	7,556	2,718	4,273	5,076	3,857	3,732	3,064	4,144	5,430	4,566	3,083
Recycling cost per pound	\$0.28	\$0.28	\$0.20	\$0.20	\$0.10	\$0.10	\$0.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
E-Waste cost	\$31,278	\$29,040	\$8,490.80	\$11,744.40	\$3,940.00	\$3,241.00	\$1,646.40	\$0.00	(\$5,165.28)	(\$5,540.00)	(\$5,486.56)	(\$5,453.60)	(\$3,787.84)	(\$3,219.52)
E-Waste reimbursement	N/A	N/A	(\$10,734.60)	(\$9,813.40)	(\$8,284.00)	(\$4,770.00)	(\$6,403.88)	(\$4,688.92)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Labor costs	\$3,843	\$7,275	N/A	\$4,417	\$3,962.50	\$4,097.53	\$3,297.00	\$3,297.00	\$4,237.34	\$3,694.60	\$4,237.34	\$4,237.34	\$4,237.34	\$4,237.34
Labor Credit														
Printing & Mailing Costs				\$6,637	\$6,668.34	\$6,735.46	\$7,669.35	\$7,380.12	\$7,968.59	\$7,446.89	\$6,265.10	\$5,177.27	\$5,230.12	\$5,549.59
Supplies & Rental Charges	\$2,102	\$971	\$270.00	\$320	\$1,211.00	\$600.72	\$750.00	\$716.05	\$683.50	\$695.00	\$695.00	\$695.00	\$695.00	\$695.00
Total E-Waste Event Costs	\$37,223	\$33,864	\$8,761	\$13,305	\$7,497.84	\$9,904.71	\$6,958.87	\$7,204.25	\$7,714.15	\$6,296.49	\$5,710.88	\$4,656.01	\$6,374.62	\$7,262.41
Total Cost per pound	\$0.33	\$0.33	\$0.09	\$0.12	\$0.09	\$0.18	\$0.12	\$0.11	\$0.11	\$0.09	\$0.08	\$0.06	\$0.11	\$0.14

\*\* As of Spring 2009 ECS paid \$.16/lb for CRT materials as the state reimbursement decreased from \$.48/lb to \$.39/lb\$.16 for the collector, \$.23 for the recycler)

**SURVEY COMPARATIVE DATA**

First time user	2003	2004	2005	2006	2007 (Spring)	2007 (Fall)	2008 (Spring)	2008 (Fall)	2009 (Spring)	2009 (Fall)	2010 (Spring)	2010 (Fall)	2011 (Spring)	2011 (Fall)
How did you hear about the program?	100%	83.50%	58.00%	57.00%	55.00%	53%	58%	49%	39%	34%	29%	29%	29%	31%
E-Waste mailer	55%	62%	65%	64%	74%	68%	65%	72%	79%	71%	74%	73%	74%	71%
Novato Disposal newsletter	39%	46%	44%	27%	32%	28%	5%	33%	24%	34%	33%	32%	34%	29%
Novato Advance ad	0%	5%	3%	11%	9%	7%	5%	5%	8%	6%	6%	5%	5%	4%
Word of Mouth	4%	4%	4%	3%	2%	3%	7%	3%	3%	5%	4%	4%	5%	2%
City/Sanitary District	1%	1%	0.60%	2%	2%	1%	1%	0.6%	1%	1%	1%	1%	2%	N/A
Other	1%	1%	0.40%	2%	1%	2%	2%	2%	2%	2%	2%	2%	1%	1%
Novato "Patch" ad														1%
Novato Sanitary District newsletter														10%
Sanitary District website														1%

What are you bringing?

Computer monitors	30%	52%	47%	41%	40%	30%	27%	38%	32%	31%	30%	26%	25%	24%
Computers & peripherals	21%	49%	43%	40%	43%	34%	32%	32%	33%	31%	31%	32%	29%	29%
Computer printers, fax machines, etc.	13%	29%	31%	25%	28%	24%	27%	26%	25%	24%	25%	27%	29%	21%
Televisions	16%	28%	29%	25%	30%	21%	24%	26%	35%	34%	28%	27%	28%	25%
Radios, tape players, DVD's, VCR's, etc.	8.50%	24%	23%	25%	30%	28%	28%	25%	26%	29%	26%	25%	27%	28%
Telephones, cell phones, etc.	9%	17%	14%	25%	23%	25%	24%	26%	28%	24%	25%	28%	25%	28%
Other	3.50%	13%	14%	10%	11%	13%	17%	15%	17%	21%	17%	20%	25%	26%
Kitchen Appliances	N/A	N/A	N/A	18%	32%	19%	21%	20%	18%	18%	20%	22%	25%	23%
General Household appliances	N/A	N/A	N/A	11%	22%	13%	19%	14%	17%	16%	17%	22%	22%	20%
Is any of the equipment in working order?	37%	42%	33%	49%	51%	53%	53%	45%	50%	48%	48%	48%	48%	N/A

Daily Participant Data

	SAT	SUN	MON	TUES	WED	THURS	FRI	SAT	SUN	MON	TOTAL
2003 (September)	158	115	80	45	62	94	96	351	190	270	650
2004 (September)	N/A	336	122	109	104	115	138	303	214	207	1,247
2005 (September)	N/A	334	85	94	99	300	137	341	1,314	233	1,167
2006 (August)						300	197	275	1,183	233	1,314
2007 (April)						197	154	209	935	207	1,183
2007 (October)						264	219	288	935	252	1,183
2008 (May)						201	230	254	1,183	250	920
2008 (October)							286	245	1,091	250	909
2009 (April)							286	292	1,091	259	1,091
2009 (October)							319	277	1,014	289	1,014
2010 (April)							318	326	1,217	289	1,217
2010 (October)							254	288	1,115	273	1,115
2011 (May)							254	282	964	263	964
2011 (October)							244	277	1,007	256	1,007

## 2012 SCHEDULE FOR PERMANENT HHW FACILITY

Following is the schedule for the HHW Facility for 2012. Schedule will be posted on websites, fliers, newsletters and the hotline.

### SUNDAY

**January 8**

January 15

February 6

**February 26**

March 4

March 18

April 1

April 15

May 6

May 20

June 3

June 17

July 1

July 15

August 5

August 19

**September 9**

September 16

### MONDAY

**January 9\*\***

January 16(Martin Luther King Day)

February 7

**February 27\*\***

March 5

March 19

April 2

April 16

May 7

May 21

June 4

June 18

July 2

July 16

August 6

August 20

**September 10\*\***

September 17

**2012 SCHEDULE FOR PERMANENT HHW FACILITY**

**SUNDAY**

**MONDAY**

October 7

October 8

October 21

October 22

November 4

November 5

November 18

November 19

December 2

December 3

December 16

December 17

**\*\* Changed to 2<sup>nd</sup> Sunday & Monday due to holidays – (President’s Day and Labor Day)**

### Public Outreach Events

Staffed participated in the following outreach events in September and October:

- 09/20/11 - Staffed booth, in cooperation with Novato Disposal, at Novato Farmer's Market – distributed 35 food scrap pails and gave 15 quizzes
- 10/06/11 – Staffed booth, in cooperation with Novato Disposal, at Senior Center Health Fair; distributed 68 food scrap pails and 10 digital thermometers; staff also made a presentation on the District's solid and hazardous waste programs
- District staff assisted with hosting a booth at Marin EcoFair on 9/04/11
- Upcoming Outreach includes: Booth at Hamilton Harvest Festival – Nov 5, 2011 ; shredding event at Recycling Center for Earth Day, 2012; backyard compost class at Senior Center, Spring, 2012

**NOVATO DISPOSAL SERVICES DISPOSAL/DIVERSION 2011**

<b>DIVERSION</b>	<b>1stQ 2011</b>	<b>1stQ 2010</b>	<b>2ndQ2011</b>	<b>2ndQ 2010</b>	<b>3rd Q</b>	<b>3rd Q 2010</b>	<b>4th Q</b>	<b>TOTAL 2010</b>
Novato Disposal Recycled (Curbside & Buyback)	3,577	3,260	3,461	3,152	3,405	3,906		
Novato Disposal C&D Waste & Inerts used as ADC	640	1,420	1,263	1,342	1,098	2,240		
Novato Disposal Green waste used for compost	2,975	3,170	3,840	3,456	3,188	3,985		
Novato Disposal Food waste used for compost	25		34		22			
<b>TOTAL TONS DIVERTED</b>	<b>7,217</b>	<b>7,849</b>	<b>8,598</b>	<b>7,950</b>	<b>7,713</b>	<b>10,131</b>		
<b>DISPOSAL</b>								
MSW& Debris Box/Novato Disposal	7,340	7,707	7,840	8,000	7,535	7,756		
<b>TOTAL TONS DISPOSED</b>	<b>7,340</b>	<b>7,707</b>	<b>7,840</b>	<b>8,000</b>	<b>7,535</b>	<b>7,756</b>		
<b>TOTAL WASTE GENERATED(TONS)</b>	<b>14,557</b>	<b>15,556</b>	<b>16,438</b>	<b>15,949</b>	<b>15,248</b>	<b>17,887</b>		
<b>PERCENT DIVERTED</b>	<b>50%</b>	<b>50%</b>	<b>52%</b>	<b>50%</b>	<b>51%</b>	<b>57%</b>		

**CITY OF NOVATO & DISTRICT AB939 DISPOSAL AND DIVERSION MONITORING**

Haulers: Novato Disposal  
Self Haulers

Reporting period: January - December 2011

<b>A. 2011 DIVERSION</b>	<u>1st Qtr.</u>	<u>2nd Qtr.</u>	<u>3rd Qtr.</u>	<u>4th Qtr.</u>	<u>TOTAL 2011</u>
Novato Disposal Recycled (Curbside & Buyback)	3,577.00	3,461.00	3,405.00		
MRRC recovery	293.50	543.55	293.78		
Self haul Inerts Diverted Redwood Landfill	669.38	1,522.10			
Redwood Landfill self haul C&D recycled	8.16	9.34			
City of Novato C&D diverted					
ADC from MRRC	0.00	0.00			
Compost from MRRC	26.96	59.97	44.44		
Greenwaste From Redwood Landfill self haul/compost	147.96	221.00			
Novato Disposal Inerts used as ADC	640.00	1,263.00	1,098.00		
Novato Disposal Green Waste used for compost	2,975.00	3,840.00	3,188.00		
Novato Disposal food waste used for compost	25.00	34.00	22.00		
<b>2011 TOTAL TONS DIVERTED</b>	<b>8,362.96</b>	<b>10,953.96</b>			
<b>B. 2011 DISPOSAL</b>					
MSW& Debris Box/Novato Disposal	7,340.00	7,840.00	7,535.00		
MRRC Residuals	211.34	198.33	248.08		
MRRC Wood/Yard Waste incinerated/transformation	49.70	73.48	61.18		
Redwood Landfill self haul C&D waste disposed	436.65	663.15			
Novato waste disposed out-of-county	N/A	N/A			
<b>2011 TOTAL TONS DISPOSED</b>	<b>8,037.69</b>	<b>8,774.96</b>			
<b>C. 2011 TOTAL WASTE GENERATED(TONS)</b>	<b>16,400.65</b>	<b>19,728.92</b>			
<b>D. COMPLIANCE WITH AB939 DIVERSION MANDATE</b>	<b>51.29%</b>	<b>55.89%</b>			
<b>Percent Diverted Using Generation Based Calculation Method(includes 10% incineration waste)</b>					

**REDWOOD LANDFILL SELF HAUL BREAKDOWN (TONS)**

	<u>1st Qtr.</u>	<u>2nd Qtr.</u>	<u>3rd Qtr.</u>	<u>4th Qtr.</u>	<u>TOTAL 2011</u>
Inerts/ Diverted	669.38	1,522.10			
Greenwaste Diverted/compost	147.96	221.00			
C&D/ Disposed	436.65	663.15			
C&D Recycled	8.16	9.34			
<b>Total</b>	<b>1,262.15</b>	<b>2,415.59</b>			
<b>Percent Redwood self haul diverted</b>	<b>65.40%</b>	<b>72.55%</b>			