

NOVATO SANITARY DISTRICT

Solid Waste Committee

Meeting Date: June 1, 2016

The Solid Waste Committee of Novato Sanitary District will hold a meeting at 3:00pm, Wednesday, June 1, 2016 at the District offices, 500 Davidson Street, Novato CA.

AGENDA

1. APPROVE AGENDA:

2. 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.

3. REVIEW OF MINUTES:

- a. Consider approval of minutes of March 10, 2016 meeting.

4. UPDATES/ROUTINE BUSINESS ITEMS:

- a. City of Novato.
- b. Redwood Landfill.
- c. Novato Disposal quarterly report.
- d. Marin County JPA and Local Task Force.

5. PROPOSED FY16-17 SOLID AND HOUSEHOLD HAZARDOUS WASTE (HHW) PROGRAMS BUDGET:

- a. Review and recommend budget to District Board for adoption.

6. DISPOSAL/DIVERSION REPORTS 2015 AND 1ST QUARTER 2016:

7. ZERO WASTE PROGRAMS CALENDAR/TIMETABLE STATUS:

8. HOUSEHOLD HAZARDOUS WASTE PROGRAMS:

- a. 2015 HHW programs report
- b. 2016 HHW program update
- c. E-Waste event update.

9. ADJOURN:

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. They are also available on the District's website: www.novatosan.com.

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**NOVATO SANITARY DISTRICT
SOLID WASTE COMMITTEE MEETING
March 10, 2016**

MINUTES

Members Present:

Jean Mariani Carole Dillon-Knutson

Others in Attendance:

Sandeep Karkal Dee Johnson Steve McCaffrey Tina Balderamma Sonia Tanner
Casey Williams Scott Pariani Delyn Kies Jim Salyers

1. Approve agenda. The agenda for March 10, 2016 was approved as submitted.
2. Public Comment. There was no comment from the public.
3. Review of Minutes: The minutes of October 20, 2015 were approved as submitted. .
4. Updates/Routine Business Items.
 - a. City of Novato. There was no update from the City. .
 - b. Redwood Landfill. Ramin Khany provided an update on Redwood Landfill's programs. He indicated that they were not accepting commercial food waste due to the problems with contamination of commercial sources. Currently Redwood is producing a high quality certified organic compost from its food/green waste mix and it doesn't want to jeopardize that product. Although they could produce a non-organic product with commercial food waste, they are not considering this until 2018 or later. Also, although they are permitted to receive commercial food waste, if they were to keep it separate from the organic product, it would require additional permits for a separate location. Carol asked if Redwood would be willing to educate commercial customers regarding the contamination issues. Ramin agreed, but said there would be no way to enforce this. He indicated that the haulers, District and producers should be involved with this education. Carol asked if their compost product is for sale to residents. Ramin indicated it was. There was no representative present from Redwood Landfill. Jean Mariani asked who is producing organic compost from commercial food waste. Ramin didn't know. Carol asked about complaints re: odors at the landfill and who should a resident call. Ramin indicated they should contact County Environmental Health and also Redwood.
 - c. Novato Disposal quarterly report- Steve McCaffrey reviewed the quarterly report. Disposal has increased; green waste has decreased and C&D has increased. Currently commercial food waste is being delivered to Richmond. The 20 gallon can customer count continues to increase. Contamination in the recycling cart continues to be an issue. Bulky waste pick ups are limited to 3 cubic yard maximum, 4 times per year. In addition, Christmas trees can be cut up and put in the green cart anytime.
 - d. Marin County JPA and Local Task Force(LTF). Dee and Delyn Kies indicated that the LTF had recently reviewed a report on school recycling. In addition, Dee indicated that she was re-elected vice-chair of the LTF for the following year.
5. Tentative Meeting Schedule. Committee members agreed on the next dates for meeting in 2016: Wednesday, June 1; Monday, August 29 and Tuesday, October 18. All meetings to begin at 3:00pm at the District
6. Disposal/Diversion Report 2015. Steve and Dee reviewed the diversion numbers. Steve explained that in 2010, green waste diversion was increasing. Since then, we experienced the drought, which impacted the green waste numbers. Commercial food waste collection fell behind schedule and the recycling markets have decreased significantly since 2014. The market issues with China - putting restrictions on types of recycled material accepted - is a long term problem. Certain markets have entirely dried up, such as plastic bags. With low oil prices it is cheaper to produce plastic bags from original material. In addition, over the years the waste stream has changed – less newsprint; more plastic. Steve indicated that EPR could help resolve some of these issues by placing more responsibility on the packaging industry.

7. Zero Waste Programs Calendar/Timetable Status. Dee and Novato Disposal staff reviewed the Calendar with Committee members and made some suggested changes.
8. Household Hazardous Waste Programs.
 - a. 2015 HHW programs report. Dee indicated that participation at the HHW facility continues to increase. Attendance in 2015 was 20% higher than 2014. Additional information on amounts of wastes and costs will be available at the next meeting.
 - b. E-Waste Event scheduled. The next E-Waste event is scheduled for April 23-25 from 10am-3pm. It will be advertised the District and Novato Disposal newsletters as well as newspaper ads.
9. Adjourn. The meeting adjourned at 4:30pm.

CITY OF NOVATO
1st Quarterly Report
January- March 2016

Submitted by Novato Disposal Service

Solid Waste Data

A. Tons Delivered to Disposal Site

		This Quarter	Same Quarter One Year Ago
Residential	*	3,942.25	3,515.15
Commercial	**	3,097.49	2,761.90
TOTAL:		7,039.74	6,277.05

*includes commercial/multifamily locations served with carts

**includes multifamily accounts service with bins

Recycling Data

Tons Collected and Processed

This Quarter: 2,713.02

Same Quarter One Year Ago 1,990.56

Commodity	Curbside	Buyback	Total
	Commercial Multifamily Residential		
Cardboard	365.37	-	365.37
Paper (News & Mixed)	1,421.34	-	1,421.34
Paper (Overages)*	160.20	-	160.20
Aluminum Cans & Foil	2.43	9.64	12.07
Metal Cans	15.11	-	15.11
**Glass	565.28	48.22	613.50
Plastic PET	50.38	-	50.38
Plastic NHDPE	9.66	.41	10.07
Plastic All Other	8.89	19.48	28.37
Other diverted materials	24.08	-	24.08
Total	2635.26	77.76	2713.02

* Please note this number was included in Mixed Paper in past reports.

**This includes glass overages

Greenwaste Data

Tons Collected and Processed

This Quarter: 3,462.51

Same Quarter One Year Ago: 3,619.64

Final Disposition:

All green waste was used as compost.

Construction and Demolition Data, including inert solids

Tons Collected and Processed

This Quarter: 493.71

Same Quarter One Year Ago: 692.85

Service Accounts

Residential Cart Weekly		Same Quarter One Year Ago
Can size	Number of Customers	Number of Customers
20 gallon	2330	2,171
32 gallon	11,071	11,221
68 gallon	3,044	3,068
95 gallon	328	307
Non-Auto	6	6

Multifamily Cart Customers**			Cart Amt. ,Same Quarter One Year Ago**	
Can size	Weekly	2 or more times weekly	Weekly	2 or more times weekly
20 gallon	13	0	13	0
32 gallon	299	0	306	0
68 gallon	111	0	112	0
95 gallon	26	0	21	0

Multifamily Bin Customers				Same Quarter One Year Ago		
Bin size	Weekly	2 times weekly	3 or more times weekly	Weekly	2 times weekly	3 or more times

						weekly
2 yd.	11	4	2	18	4	2
3 yd.	38	38	53	38	40	56
4 yd.	0	0	4	0	0	2
6 yd	0	1	9	0	1	7

Commercial Cart Weekly		Same Quarter One Year Ago
Can size	Number of Customers	Number of Customers
20 gallon	0	0
32 gallon	230	230
68 gallon	171	174
95 gallon	121	132

Commercial Bin Customers				Same Quarter One Year Ago		
Bin size	Weekly	2 times weekly	3 or more times weekly	Weekly	2 times weekly	3 or more times weekly
2 yd.	106	10	4	97	10	3
3 yd.	160	98	78	158	91	84
4 yd.	14	14	11	13	12	7
6 yd	7	2	10	7	3	10

Commercial Special Service*		Same Quarter One Year Ago
Bin Size	Number of Customers	Number of Customers
3 yd.	9	7
15 yd.	2	2
20 yd.	1	3
30 yd.	2	2
Compactor	12	11

*Special service is bimonthly, monthly, on-call or other irregular service

Holiday Tree Collection

Novato Disposal Service collected holiday trees from residents during the week of January 4th-8th. Novato Disposal also provided boxes and tree removal service to San Marin High School's tree drop-off Project Safe Grad Fundraiser. Over 51 tons of holiday trees were collected and disposed of as compost.

E-Waste Event

Novato Disposal Service will be participating in the Novato Sanitary District's E-Waste Drop-off event April 23rd – 24th.

Community Education/Outreach

- Novato Disposal Outreach staff visited Paradise Properties. Left recycle information in drop off box and did a visual site audit. Staff noticed oil containers in bushes and 32in. television on the side walk. A follow up phone call will be provided to educate about disposal in regards to the various items found.
- Novato Disposal Outreach staff dropped off recycling information at the First Church of Christ.
- Novato Disposal Outreach visited Third St Apartments and delivered a business packet.
- Novato Disposal Staff spoke to Laura (Apartment Mgmt) gave her information to provide to tenants. At 1024 3rd St.
- Novato Disposal Outreach staff dropped off recycling information to Lewis Fredrickson at 1036 3rd St at apartment A.
- Novato Disposal staff delivered recycling information at MGLY to apartment A.
- Novato Disposal Outreach staff left recycling information at main apartment and updated recycling bin signage.
- Novato Disposal Outreach staff dropped off recycling materials and updated recycling bin with new signage at 1121 Third St Apartments.
- Novato Disposal staff dropped off recycling information to staff at Team Maple/ WM/ JP Morgan.
- Novato Disposal staff left recycle information with staff at Bank of America.
- Novato Disposal staff left recycling information with staff at Tagliferiri Deli.
- Novato Disposal Staff delivered recycle information to Tine Kulvete / WM/ Einstein.
- Novato Disposal staff spoke to Tina at CVS. She informed staff that the recycle bin was removed a few months ago due to contamination. Staff left recycle outreach information with a contact number to our service department to get started on some staff education.
- Novato Disposal staff met with Danielle in regards to increasing recycling efforts and possible presentations for employees at Consolidated Waste.
- Novato Disposal staff spoke with Pandey in regards to recycling and food scrap on site. Staff offered presentations and left food scraps signage at Creekside Bakery.
- Novato Disposal staff spoke to Morning Glory Flowers employee in regards to their concerns as far as how people are dumping recycling and trash in to yard waste container. Staff placed a visible compost sticker on yard debris bin.

- Novato Disposal staff dropped off recycling information to Subway on Grant Ave.
- Novato Disposal staff dropped off recycling information at Baskin Robbins.

Schools

During the 1st quarter of 2016, various contacts at each school in Novato were sent a quarterly recycle update letter about Earth Day highlighting the importance of recycling and the free recycle services/education available to them.

- Novato Disposal Outreach staff spoke to Grechen an active mother looking to start up a recycling program at Lynwood Elementary. A meeting along with a few assemblies will follow.

Additional Information

Mailers

Please find attached:

- New start post cards
- Novato E-waste Billing insert

Donations

- Novato Disposal service donated (8) 30 cubic yard, yard waste boxes to the City of Novato for the Annual Holiday Tree Drop off.
- Novato Disposal service donated (4) 4 yard garbage bins to Idesi for the Crab Feed on January 15th, 2016 and March 7th, 2016.
- Novato Disposal service donated (1) 4 yard garbage bin to Novato High School Baseball for the Novato High Baseball and Novato High Softball on March 6 2016.
- Novato Disposal service donated (1) 3 yard garbage bin to Idesi for the Fado Dinner Show on March 14, 2016.
- Novato Disposal service donated (1) 3 yard garbage bin, (1) 3 yard recycle bin to Knights of Columbus for the KC St. Patrick's Day Dinner Dance on March 18, 2016.

Proposed FY2016-2017 Solid and Household Hazardous Waste (HHW) Programs Budget

Enclosed is the proposed budget and narrative for the Solid and Household Hazardous Waste programs for FY 2016/2017 and estimated FY2017/2018.

Expenditures

67400 - Management Services. Expenditures include the ongoing operation, administration and staffing of the permanent HHW facility, E-Waste events, HHW contracts, monthly, quarterly and annual reporting requirements, staffing of Committee meetings, attending Local Task Force and JPA meetings, managing Zero Waste programs, monitoring legislation, and outreach to businesses, multifamily and community events. Expenditures also include administration of 2 grant programs – Used Oil and Beverage Container Recycling – funded entirely by these grants.

Increased staff time in FY2016/2017 will be dedicated to outreach and education at community events, schools and multifamily/commercial properties, a focus on commercial food waste diversion, work with CalRecycle and Novato Disposal on AB32 commercial/multifamily mandatory recycling requirements, Zero Waste issues and ongoing HHW programs. Expenditures are also included for consulting services to study and plan for move of the HHW facility to a new location.

67500 – Household Hazardous Waste. Expenditures include contractor costs for the HHW facility, E-Waste events and maintenance of the HHW facility including floor striping, repair of roll-up doors, signage and pigeon control.

Estimated expenditures for the HHW program continue to increase due to increased participation and increasing waste streams. In 2015, participation at the HHW facility increased over 19% from 2014 – the highest participation ever at the facility. This continues to result in higher waste disposal and labor costs. Although the Paintcare program launched in March 2014 resulted in lower costs for disposal of latex and some oil base paints, Paintcare does not accept many types of paints and related products, which account for a significant portion of our waste stream. In addition, the Paintcare program requires a detailed sorting process, which has increased staff time. With higher participation in the program, HHW contractor costs will continue to increase in FY2016/2017 and beyond. Also included for FY2016/2017 are expenditures for ongoing purchase of sharps containers distributed at 3 Novato pharmacies for free, along with disposal of sharps waste.

67530 – Used Oil and Beverage Container Grants. These CalRecycle grant funds are used exclusively for used oil and filter recycling, oil tank maintenance, supplies, and promotion of beverage container recycling.

67540 - Education, Publicity/Advertising, Outreach. As a result of increased outreach for the Zero Waste and multifamily/commercial programs, expenditures include sponsorship and booth rental at many community events, handouts and promotional items, and advertising. Included are costs for website development, Facebook monitoring, newsletter articles, print advertising, and social media outreach. For FY 2016/2017, outreach will

continue at local community events, farmer's markets and schools, along with increased focus on food waste diversion at commercial facilities.

Other. A contingency of \$5,000. is included for unanticipated expenses.

City AB939 Administrative Services. Funds maintained for City staff services.

Revenues.

AB939 Solid Waste Fees. There is a small increase (3.30%) in fees for FY2016/2017, as a result of increased HHW program and education/ outreach costs. 85% of the revenues to fund these programs come from these fees assessed on the garbage rate. (AB939 fees).

Used Oil Grant. Grant amount is budgeted at \$15,060., which is the preliminary amount proposed by CalRecycle. Actual amount is not known until state budget passes.

Beverage Container Recycling Grant. Grant amount is budgeted at \$13,836. Actual amount is not known until state budget passes.

JPA reimbursement fees. JPA fee revenues are budgeted at \$32,757. for FY 2016/2017. The \$32,757. accounts for current fees on Novato self haul waste disposed at Redwood Landfill.

**AB 939 SOLID, ZERO WASTE AND HAZARDOUS WASTE BUDGET
FY 2016/2017 AND 2017/2018 PROPOSED BUDGET**

EXPENDITURES

<u>Account</u>	<u>Program</u>	<u>Budget</u> <u>FY2014/2015</u>	<u>Budget</u> <u>FY2015/2016</u>	<u>Projected</u> <u>Expenditures</u> <u>FY2015/2016</u>	<u>Preliminary</u> <u>Budget</u> <u>FY2016/2017</u>	<u>Preliminary</u> <u>Budget</u> <u>FY2017/2018</u>
67400	Management Services	\$130,161.00	\$131,464.00	\$100,555.00	\$134,750.00	\$138,118.00
67500	Household Hazardous Waste & E-Waste	\$164,000.00	\$211,500.00	\$211,500.00	\$220,000.00	\$225,000.00
67530	Used Oil and Beverage Container grant programs	\$22,537.00	\$22,537.00	\$22,026.00	\$22,537.00	\$22,537.00
67540	Outreach/Publicity/Education	\$37,000.00	\$22,000.00	\$16,000.00	\$23,500.00	\$23,500.00
67600	Other	\$5,000.00	\$5,000.00	\$3,500.00	\$5,000.00	\$5,000.00
67610	City AB939 Admin Services	<u>\$10,000.00</u>	<u>\$10,000.00</u>	<u>\$10,000.00</u>	<u>\$10,000.00</u>	<u>\$10,000.00</u>
TOTAL AB939 SOLID/HAZARDOUS WASTE EXPENDITURES		\$368,698.00	\$402,501.00	\$363,581.00	\$415,787.00	\$424,155.00

REVENUES

AB939 Solid Waste Fees	\$297,586.00	\$342,621.00	\$342,621.00	\$354,134.00	\$362,502.00
Used Oil Grant	\$15,060.00	\$15,060.00	\$15,060.00	\$15,060.00	\$15,060.00
Beverage Container Recycling Grant	\$13,836.00	\$13,836.00	\$13,836.00	\$13,836.00	\$13,836.00
JPA reimbursement & self haul fees	\$30,984.00	\$30,984.00	\$30,984.00	\$32,757.00	\$32,757.00
TOTAL AB939 SOLID/HAZARDOUS WASTE REVENUES	\$357,466.00	\$402,501.00	\$402,501.00	\$415,787.00	\$424,155.00

CITY OF NOVATO & DISTRICT AB939 DISPOSAL AND DIVERSION MONITORING					
Haulers: Novato Disposal Self Haulers		Reporting period: January - December 2015			
A. 2015 DIVERSION	1st Qtr.	2nd Qtr	3rd Qtr.	4th Qtr.	TOTAL 2015
Novato Disposal Recycled (Curbside & Buyback)	1,991.00	3,320.00	3,409.00	3,119.00	11,839.00
MRRC recovery	523.94	637.90	505.55	496.77	2,164.16
Self haul Inerts Diverted Redwood Landfill	2,188.57	1,635.97	1,821.37	2,088.49	7,734.40
Redwood Landfill self haul C&D& wood waste recycled	100.37	156.11	88.80	41.59	386.87
City of Novato C&D diverted(included in Novato Disposal)	N/A	N/A	N/A	N/A	N/A
ADC from MRRC	0.00	0.00	0.00	0.00	0.00
Compost from MRRC	44.89	37.19	54.38	51.28	187.74
Greenwaste From Redwood Landfill self haul/compost	81.31	106.21	105.75	20.00	313.27
Novato Disposal Inerts	728.00	937.00	1,234.00	794.00	3,693.00
Novato Disposal Green/Food Waste used for compost	3,586.00	3,271.00	3,034.00	3,483.00	13,374.00
Novato Disposal commercial food waste used for compost	19.00	19.00	41.00	64.00	143.00
North Marin Metal Recycling	N/A	N/A	N/A	N/A	N/A
2015 TOTAL TONS DIVERTED	9,263.08	10,120.38	10,293.85	10,158.13	39,835.44
B. 2015 DISPOSAL					
MSW& Debris Box/Novato Disposal	6,277.00	6,438.00	6,890.00	6,792.00	26,397.00
MRRC Residuals	279.29	294.40	382.91	320.86	1,277.46
MRRC Wood/Yard Waste incinerated/transformation	117.78	90.98	139.37	86.99	435.12
Redwood Landfill self haul C&D waste disposed	1,023.97	816.18	1,032.75	1,020.98	3,893.88
Novato waste disposed out-of-county	N/A	N/A	N/A	N/A	N/A
2015 TOTAL TONS DISPOSED	7,698.04	7,639.56	8,445.03	8,220.83	32,003.46
C. 2015 TOTAL WASTE GENERATED(TONS)	16,961.12	17,759.94	18,738.88	18,378.96	71,838.90
D. COMPLIANCE WITH AB939 DIVERSION MANDATE	55.31%	57.50%	55.68%	55.74%	56.06%
Percent Diverted Using Generation Based Calculation Method(includes 10% incineration waste)					
REDWOOD LANDFILL SELF HAUL BREAKDOWN (TONS)					
	1st Qtr.	2nd Qtr	3rd Qtr.	4th Qtr.	TOTAL 2015
Inerts/ Diverted	2,188.57	1,635.97	1,821.37	2,088.49	7,734.40
Greenwaste Diverted/compost	81.31	106.21	105.75	20.00	313.27
C&D/ Disposed	1,023.97	816.18	1,032.75	1,020.98	3,893.88
C&D & Wood Waste Recycled	100.37	156.11	88.80	41.59	386.87
Total	3,394.22	2,714.47	3,048.67	3,171.06	12,328.42
Percent Redwood self haul diverted	69.83%	69.93%	66.12%	67.80%	68.42%

AB939 NOVATO DISPOSAL AND DIVERSION MONITORING								
Haulers: Novato Disposal Self Haulers			Reporting period: Comparison 2008 - 2015					
A. DIVERSION	2008	2009	2010	2011	2012	2013	2014	2015
Novato Disposal Recycled (Curbside & Buyback)	12,471.50	12,772.72	13,962.00	14,144.00	14,298.00	14,306.00	12,091.00	11,839.00
MRRC recovery	2,050.00	1,062.00	1,271.88	1,512.83	1,672.94	2,047.79	2,335.73	2,164.16
Self haul Inerts Diverted Redwood Landfill	18,198.30	8,942.72	7,653.87	5,830.80	8,362.25	7,176.55	5,216.94	7,734.40
Redwood Landfill self haul C&D recycled	7.32	96.00	42.52	107.89	290.56	397.63	318.11	386.87
City of Novato Inerts diverted	N/A	N/A	0.00	N/A	N/A	N/A		N/A
ADC from MRRC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compost from MRRC	189.00	127.00	185.50	193.74	253.51	190.26	189.44	187.74
Greenwaste From Redwood Landfill self haul/compost	1,305.93	1,040.00	893.20	779.83	453.99	588.20	335.06	313.27
Novato Disposal Inerts	4,049.25	5,062.84	6,370.63	3,748.00	3,440.00	4,023.00	3,334.00	3,693.00
Novato Disposal Green Waste/residential food waste for compost	13,349.39	12,527.34	14,973.97	14,076.00	14,328.00	13,397.00	13,163.00	13,374.00
Novato Disposal commercial food waste for compost				117.00	137.00	100.00	88.00	143.00
North Marin Metal Recycling						53.84	50.94	N/A
TOTAL TONS DIVERTED	51,620.69	41,630.61	45,353.57	40,510.09	43,236.25	42,280.27	37,122.22	39,835.44
B. DISPOSAL								
MSW& Debris Box/Novato Disposal	32,823.74	29,722.71	31,557.69	29,336.00	25,859.00	25,294.00	26,093.00	26,397.00
MRRC Residuals	1,387.00	649.00	856.37	886.75	929.21	1,092.33	1,135.70	1,277.46
MRRC Wood/Yard Waste incinerated	433.00	178.00	238.86	253.36	308.38	404.08	376.79	435.12
Redwood Landfill self haul C&D waste disposed	4,950.54	4,530.00	3,569.07	3,181.87	4,006.14	3,435.86	2,730.24	3,893.88
Novato waste disposed out-of-county		N/A	N/A	N/A	N/A	N/A	11.48	N/A
TOTAL TONS DISPOSED	39,594.28	35,079.71	36,221.99	33,657.98	31,102.73	30,856.27	30,347.21	32,003.46
C. TOTAL WASTE GENERATED(TONS)	91,214.97	76,710.32	81,575.56	74,168.07	74,338.98	73,135.54	67,469.43	71,838.90
D. COMPLIANCE WITH AB939 DIVERSION MANDATE	56.64%	54.29%	55.63%	54.96%	58.16%	57.81%	55.58%	56.06%
Percent Diverted Using Generation Based Calculation Method(includes 10% incineration waste)								
REDWOOD LANDFILL SELF HAUL BREAKDOWN (TONS)								
	TOTAL 2008	TOTAL 2009	TOTAL 2010	TOTAL 2011	TOTAL 2012	TOTAL 2013	TOTAL 2014	TOTAL 2015
Inerts/ Diverted	18,198.30	8,942.72	7,653.87	5,830.80	8,362.25	7,176.55	5,216.94	7,734.40
Greenwaste Diverted/compost	1,305.93	1,040.00	893.20	779.83	453.99	588.20	335.06	313.27
C&D/ Disposed	4,950.54	4,530.00	3,569.07	3,181.87	4,006.14	3,435.86	2,730.24	3,893.88
C&D Recycled	0.00	96.00	42.52	107.89	248.84	397.63	318.11	386.87
Total	24,454.77	14,608.72	12,158.66	9,900.39	13,071.22	11,598.24	8,600.35	12,328.42
Percent Redwood self haul diverted	79.76%	68.99%	70.65%	67.86%	69.35%	70.38%	68.25%	68.42%

NOVATO DISPOSAL SERVICES DISPOSAL/DIVERSION 2016

DIVERSION	<u>1stQ</u>	<u>2ndQ</u>	<u>3rdQ</u>	<u>4thQ</u>	<u>TOTAL</u>
Novato Disposal Recycled Shipped (Curbside & Buyback)	2,688				
Novato Disposal C&D, Wood, Inerts & Bulky waste	530				
Novato Disposal Green waste & residential food waste for compost	3,463				
Novato Disposal Commercial Food Waste for compost	76				
TOTAL TONS DIVERTED	6,756				
DISPOSAL					
MSW& Debris Box/Novato Disposal	7,040				
TOTAL TONS DISPOSED	7,040				
TOTAL WASTE GENERATED(TONS)	13,796				
PERCENT DIVERTED	48.97%				
PERCENT DIVERTED WITH REDWOOD & MRRC					
NOVATO DISPOSAL RECYCLED COLLECTED(CURBSIDE & BUYBACK)					

NOVATO DISPOSAL SERVICES DISPOSAL/DIVERSION 2015 vs. 2016

DIVERSION	2015 1stQ	2016 1stQ	2015 2ndQ	2016 2ndQ	2015 3rdQ	2016 3rd Q	2015 4th Q	2016 4th Q	2015 TOTAL	2016 TOTAL
Novato Disposal Recycled (Curbside & Buyback)	1,991	2,688								
Novato Disposal C&D, Wood, Inerts & Bulky waste	728	530								
Novato Disposal Green/residential food waste for compost	3,586	3,463								
Novato Disposal Commercial Food Waste for compost	19	76								
TOTAL TONS DIVERTED	6,323	6,756								
DISPOSAL										
MSW& Debris Box/Novato Disposal	6,277	7,040								
TOTAL TONS DISPOSED	6,277	7,040								
TOTAL WASTE GENERATED(TONS)	12,600	13,796								
PERCENT DIVERTED	50.18%	48.97%								
PERCENT DIVERTED WITH REDWOOD & MRRC	55.31%									

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	One Zero Waste feature article in each newsletter Fall newsletter article still to be determined
2. Promote 20 gallon cans	Casey/Bessie	Ongoing	Ongoing	Promote in newsletters & bills Note: 20 gal can use increased 7% from 1st Q 2015
3. Promote backyard compost bins	Jim/Casey/Bessie	Ongoing	Ongoing	Promote at events & with Backyard Compost classes run by Marin Food Scrap Coalition or Marin Master Gardeners
4. 2 Outreach Campaigns promoting zero waste, waste reduction and/or other diversion	Jim/Casey	Ideas for 2016 campaign	October of each year to District for approval	<u>2016 Outreach Campaigns</u> 1. Commercial, multifamily & school recycling outreach, including "keeping it clean" campaign 2. Commercial food scraps composting – AB1826
5. Promote audits to all businesses of 4 cy. 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
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)	Ongoing	Visits to determine service level, contact business owners, property managers; identify resident outreach methods; conduct presentations

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
8. Participate in 10 events annually	Jim/Casey/Bessie/Dee	Submit ideas for events to District by 4 th quarter of each year for following year	List submitted to District for 2016 events	<p><u>2016 Events Scheduled</u></p> <ul style="list-style-type: none"> • Sr. Center Health Fair – February 17 • Novato’s Clean & Green Day – April 25 • E-Waste Events handouts April 23 - 25 • School Tour of Novato – May 14 • Novato Art & Wine Festival June 11 & 12 • 4th of July Parade • Rotary presentations – to schedule • Farmer’s Markets - to schedule • E-Waste event handouts – October 8-10
9. Conduct annual retraining at schools on recycling & Zero Waste; participate in developing Zero Waste curricula for schools; offer Zero Waste & recycling programs for school assemblies	Bessie/MCC/Dee	(See Ex. 5 School Recycling and Food Waste Program)	Ongoing	<i>Novato Disposal sends email out to all schools re: recycling education opportunities; schedule meeting with School District; work with San Marin & Novato H.S. re: food waste</i>
10. Annual Waste Audit of all City facilities and work with City on Zero Waste goals	Jim/Scott/Dee/City staff	Ongoing	Ongoing	<p><u>Sites for 2016</u></p> <ul style="list-style-type: none"> • <i>Check with City staff on sites & Zero Waste goals</i>
11. Bilingual Zero Waste guides(Spanish/English)	Casey/Bessie	Initial revisions	Ongoing	Update as needed
12. Interactive website with links to Zero waste & reuse options	Casey/Dee	See Exhibit 6	See Exhibit 6	<i>NSD website has this function; Novato Disposal is updating their website</i>

June 2016

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
13. Billing inserts on program updates as needed	Jim/Casey	4 2-sided inserts annually	March 2016, June 2016, Sept 2016 & December 2016	<i>March insert – E-Waste flier June insert – Sept. insert.- E-Waste flier Dec. insert – Xmas trees Permanent 2nd side –</i>
14. Annual selective residential route audits to gauge program success	Jim/ Scott	Annual baseline audit	Ongoing	Conducted route audits in 2011, 2012 and 2013 for food waste program and green waste program participation; <i>route audit for “set out rates” now scheduled for spring 2016-</i>
15. Corrective action cart hangers	Jim/Route supervisor	As needed	As needed	

Exhibit 5: School Recycling and Food Waste Program outline

See Exhibit 5 from Franchise Agreement

EXHIBIT 6: Zero Waste Program Implementation Schedule

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
Food/Green Waste Composting				
1. Single family residential	Jim/Scott/Casey/Bessie/Dee	Ongoing	2/28/11 ; Implemented April 2011; ongoing program	Work with HOA's without green carts, but with single family service; List of Novato HOA's updated; residential food waste audit in 2013; meet with HOA's to provide carts for food and green waste
2. Place food waste diversion stickers on food carts and notify re: food scrap pail availability	Jim/Scott/Casey	Stickers mailed week of 1/20/12	10/01/11 ; Stickers mailed January 2012 Over 1500 free food scrap pails distributed	Food Waste green can stickers mailed January 2012, asking all households to place on cart; 85% of households have stickers on green cans; food scrap pails advertised in newsletter, website, ads; distributed at Farmer's Market & Senior Center; NDS notice in newsletters re: can stickers and availability of food scrap pails for purchase at \$6.00 each
3. Supermarket food waste diversion	Jim/Scott/Casey	Begin early 2013	02/2012 ; Implemented June 2012; Ongoing program	Promote businesses diverting food waste in newsletter and window stickers

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
4. Restaurant Food waste diversion	Jim/Scott/Casey	Begin early 2013	03/2012; Implemented 2013; Ongoing program	Promote businesses diverting food waste in newsletter and window stickers
5. Multi-family food waste diversion	Jim/Scott/Casey	Ongoing	07/2012; Implemented 2014; Ongoing program	Continue work with multifamily units on food waste diversion; review cost structure
C&D Recycling, reports & enforcement				
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	Sandeep/Dee	Ongoing	Ongoing; revisions to Solid Waste ordinance pending	District solid waste ordinance to be reviewed, updated & enforced
Public Outreach/Education Campaign				
1. Revise Novato Disposal website to include zero waste messages	Jim/Casey/Bessie	Ongoing	09/2011;	Novato Disposal updating website; Zero Waste messages to be added
2. Include zero waste messages in newsletter, ads, etc	Jim/Casey/Bessie	Ongoing	Ongoing	Zero Waste messages included in newsletters, promotions and outreach

June 2016

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
AB32 /AB341/AB818 Multi-family & Commercial mandated recycling				
1. Identify all multifamily & commercial sites	Casey/Dee/Scott/Bessie	Staff meeting – completed	May 2011 Ongoing database implementation	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	Ongoing	01/2012; Ongoing	Novato Disposal developed mailers, door hangers and web page; information on District web page;
3. Make site visits	Scott/Dee/Bessie	Ongoing	09/2012 Ongoing	Visits to include information on AB32 recycling requirements, waste audit availability; Dee, Bessie & Scott to make ongoing site visits in commercial and multi-family areas; Bel Marin Keys area walk-thru conducted in May 2015; additional BMK walk –thru scheduled for spring 2016

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
4. Participate in workshops for multifamily & commercial property managers	Dee/Scott/Bessie	Ongoing	03/2012 Ongoing	Novato Disposal develops materials & schedules meetings with property managers as necessary; revised HOA list; contact rental housing associations, HOA's and property managers; follow-up with site visits
5. Provide recycling containers	Jim/Scott	Ongoing	05/2012 Ongoing	Following site visits determine size & placement, deliver containers
6. Implement mandated multifamily & commercial recycling	District & Novato Disposal	Ongoing	07/2012 Ongoing	Multifamily/commercial implemented; a/o FY2015 865 commercial and 122 multifamily sites provided with recycling; District & Novato Disposal provide ongoing outreach thru site visits, brochures, etc.
Schools Campaign				
1. Institute food waste recycling	District & Novato Disposal	Ongoing	2010 Ongoing	Program instituted in select schools and central kitchen 3/2011; meet with School District staff re: food waste in new San Marin & Novato H.S. cafeterias and school site recycling
2. Monitor food waste/recycling programs; meet with teachers & students	Bessie	Ongoing	Ongoing	Separate calendar & schedule to be developed

June 2016

ITEM/GOAL	PERSON(S) RESPONSIBLE	TIMELINE	FINAL DUE DATE	OBJECTIVES/ ADDITIONAL ITEMS
Backyard Composting				
1. Promote backyard composting through compost bin promotion	Jim/Casey/Bessie	Ongoing	Ongoing	See Item EX 4, Item 3
Wet/Dry Route Collections				
1. Discuss feasibility of system & institute if feasible	District & Novato Disposal	2018/2020	2020	Begin discussions in 2018, with system instituted in 2020 if feasible
Discuss feasibility & diversion potential of conversion technology systems	District & Novato Disposal		2025	
Zero waste diversion goals				
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

2015 NOVATO HHW and *E-WASTE* REPORT

Number of Total Participants: 5,131 residents

HHW and *E- Waste* Collected: 548,619 pounds

Background

In 2015 Novato's HHW facility served a total of 3,523 Novato residents. In addition 13 Novato businesses participated in the business hazardous waste program for conditionally exempt small quantity generators (CESQG). Novato also conducted two *E-Waste* events in 2015, serving 1,608 Novato residents.

Since 1996, the household hazardous waste and *E-Waste* programs sponsored by the Novato Sanitary District have served over 52,775 participants and collected over 5,958,449 pounds of waste

HHW Facility

The permanent household hazardous waste facility is available to Novato residents on a regular monthly basis, 4 days per month. The facility is open from 8:30am – 1:30pm, the first and third consecutive Sundays and Mondays of each month, excluding most holidays.

The facility also continues to operate as a BOP – battery, oil and paint collection center – during the Recycling Center's regular open hours, Tues – Sun, 10am – 4pm. Used motor oil, oil filters, antifreeze, latex paint, fluorescents and household and car batteries are accepted.

Outreach continues to be conducted through the District and Novato Disposal semi-annual newsletters, website, newspaper ads, fliers, hotlines and social media.

A total of **3,523 households** used the HHW facility in 2015. This is a 20% increase from 2014 and our highest participation ever recorded at the HHW facility. (This does not include the 1,608 participants in the *E-Waste* events, nor the individuals dropping off waste at the BOP.) Open a total of 49 days in 2015, participation has averaged 72 per day, with Sunday being the greatest participation.

A total of **474,939 pounds** of HHW was collected at the HHW facility in 2015. (This does not include the waste collected at the 2 *E-Waste* events.) Overall, 70% of the waste was recycled, 17% used as a supplemental fuel, 6.0% sent for destructive incineration, 3.0% for treatment or neutralization and 4% was sent to hazardous waste landfill.

HHW contractor costs for 2015, including labor, set-up and transport and disposal of the waste amounted to \$217,975.81. Labor and materials costs totaled \$99,806.96 (46%)

and waste disposal costs \$118,168.85 (54%). This does not include costs for the *E-Waste* events.

E-Waste Events

Novato held 2 special *E-Waste* events in 2015 - one in the spring and the second in the fall. The events are held over a three day period at the Novato Recycling Center. These special drop off events offer residents the opportunity to properly dispose of all electronic items.

Since 2003, at these events, we have collected over 1,384,457 pounds of *E-Waste* from over 20,731 Novato residents.

A total of **1,608 residents** dropped off *E-Waste* during the two events. Average daily participation was **268**. A total of **73,680 pounds** of *E-Waste* was collected, averaging 46 pounds per participant.

Outreach methods included articles in the District and Novato Disposal newsletters, ads in Novato Advance, fliers, website postings and social media.

Costs for these events totaled **\$1,500.00**. Our *E-Waste* recycler – ECS Refining– did not charge for 2 unloaders on Saturday and Sunday and continued to provide us with all transport and supplies at no charge. ECS paid Novato Disposal the SB20/50 reimbursement rate of \$.16/pound for CRT devices to offset Novato Disposal labor charges.

Summary

Recommendations for future programs include:

- Increase promotion on website and social media – Facebook, Twitter, etc.
- Increase promotion of additional opportunities for collection of paint, batteries and fluorescents
- Maintain 2 *E-Waste* events
- Expand outreach to small businesses

Attachments:

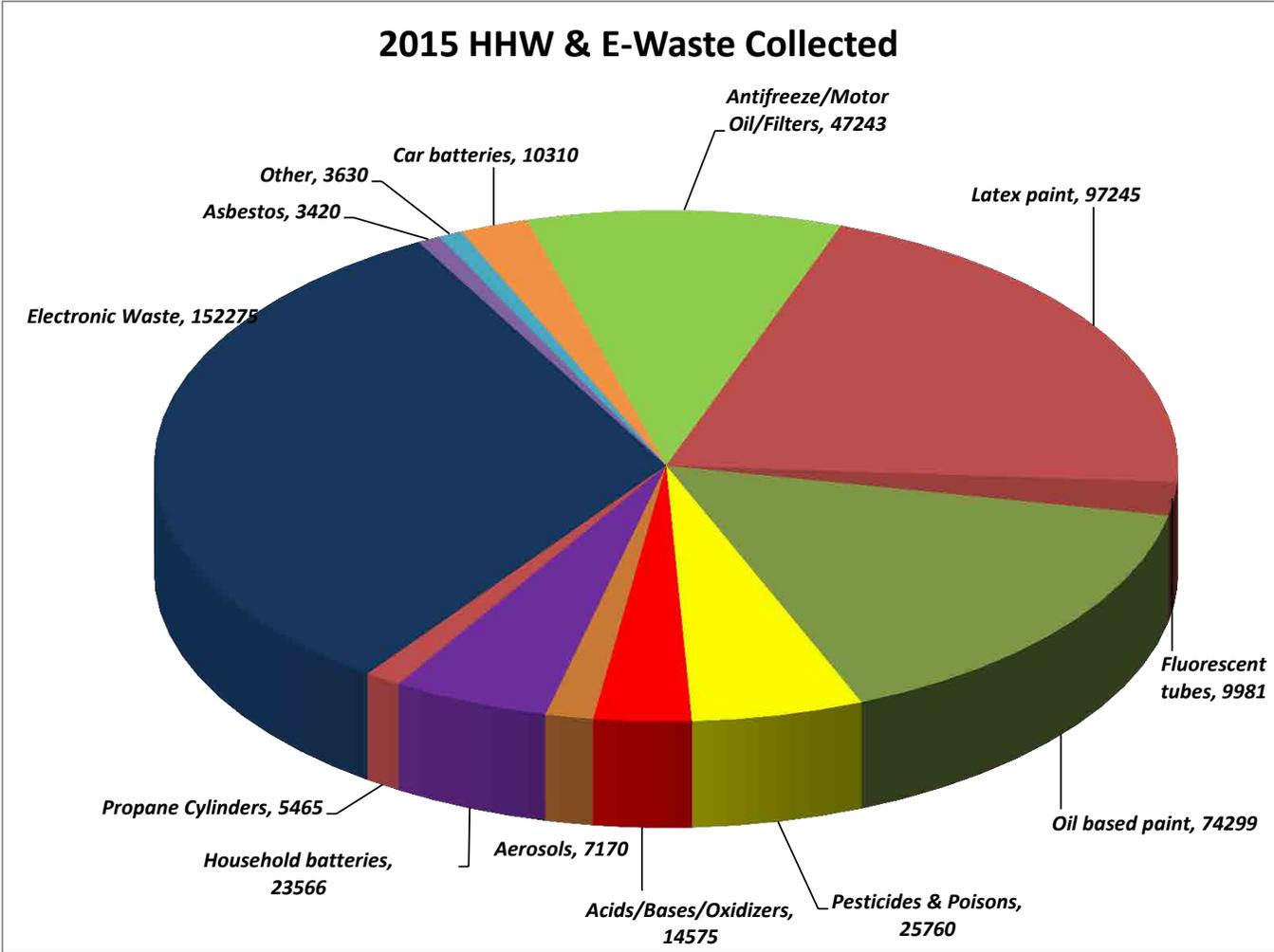
HHW and E-Waste Events Comparative Data 2005-2015
2015 HHW & E-Waste Collected
CalRecycle Form 303 for 2015

NOVATO HOUSEHOLD HAZARDOUS WASTE AND E-WASTE EVENTS COMPARATIVE ANALYSIS											
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
PARTICIPANTS											
# of vehicles	2,662	2,625	3,534	3,665	4,139	4,440	4,315	3,792	4,160	4,526	5,131
TOTAL WASTE COLLECTED											
Pounds per vehicle	121	119	108	116	121	100	102	106	93	100	93
WASTE MANAGEMENT METHOD(lbs)											
Supplemental Fuels & Recycling	292,244	282,345	350,281	390,320	464,623	407,519	403,169	360,724	345,427	404,666	408,114
Treatment&Neutralization	6,250	4,900	4,100	4,850	5,058	4,744	5,316	6,460	5,750	6,955	14,163
Destructive Incineration	12,420	8,285	11,850	12,015	12,913	13,690	11,278	13,386	15,319	18,413	28,362
Landfill	10,250	15,700	16,100	18,765	19,570	18,990	20,950	20,590	18,900	23,197	24,300
WASTE COLLECTED BY CATEGORY(lbs)											
Oil-Based Paint & related	91,950	56,300	81,850	47,650	81,390	46,170	46,100	80,290	48,450	73,750	74,299
Aerosols	3,519	2,600	2,900	2,900	2,900	4,100	3,010	2,710	3,360	4,200	7,170
Antifreeze/Motor Oil & Filters	840	N/A	N/A	52,061	63,223	54,780	38,821	48,586	55,034	38,625	47,243
Fluorescents	7,601	6,862	9,031	11,380	7,126	13,861	10,163	8,876	8,000	8,339	9,981
Pesticides & Poisons	8,331	7,850	10,950	8,755	8,850	9,150	9,400	9,680	11,400	13,050	25,760
Asbestos	750	900	300	700	960	790	1,000	440	500	1,847	3,420
Latex paint	52,100	68,000	78,400	79,200	73,700	80,240	76,900	78,430	79,220	108,859	97,245
Electronic Waste	134,297	145,078	176,120	157,119	199,589	185,526	210,650	121,760	137,111	151,953	152,275
Compressed Gas Cylinders	4,686	3,655	2,050	3,150	2,490	1,490	3,570	4,228	5,170	5,795	5,465
Household batteries	9,100	14,300	15,800	18,105	18,910	25,750	21,985	22,390	20,550	25,140	23,566
Car batteries				39,950	36,250	14,260	13,095	14,960	10,280	12,380	10,310
Acids/Bases/Oxidizers	6,250	4,350	4,100	4,560	5,058	4,744	5,316	6,600	5,750	7,387	14,575
Other**	1,740	1,335	830	420	1,718	4,082	703	2,210	571	1,906	3,630
COSTS											
HHW Contractor Costs	\$156,563	\$121,255	\$139,647	\$147,687	\$188,601	\$186,809	\$200,699	\$199,101	\$191,930	\$192,624	\$217,976
Labor/Materials	\$58,461	\$50,166	\$53,975	\$62,252	\$86,141	\$88,720	\$89,911	\$88,220	\$93,281	\$96,926	\$99,807
Waste Disposal	\$93,472	\$72,120	\$89,674	\$88,161	\$107,219	\$100,973	\$114,197	\$114,649	\$102,644	\$97,521	\$120,174
CESQG Waste Disposal	\$4,630	\$1,031	\$4,002	\$2,726	\$4,759	\$2,884	\$3,410	\$3,769	\$3,995	\$1,823	\$2,005
E-Waste Contractor Costs											
Labor,Printing.Mailing		\$13,305	\$17,403	\$14,163	\$14,011	\$10,367	\$13,637	\$1,474	\$1,175	\$1,115	\$1,437
Disposal/Recycling		\$11,374	\$23,276	\$23,610	\$24,716	\$21,307	\$19,254	\$5,306	\$4,268	\$4,268	\$4,268
Reimbursement(CRT's)	-\$10,735	-\$9,813	-\$13,054	-\$11,093	-\$10,705	-\$10,940	-\$7,007	-\$5,272	-\$4,342	-\$4,603	-\$4,331
CESQG/BUSINESS PROGRAM											
# of Businesses	26	20	14	25	34	22	36	25	19	12	13

**Other includes Sharps,PCB's,Non-RCRA and mercury-containing waste

CIWMB FORM 303
NOVATO SANITARY DISTRICT
TOTAL 2015

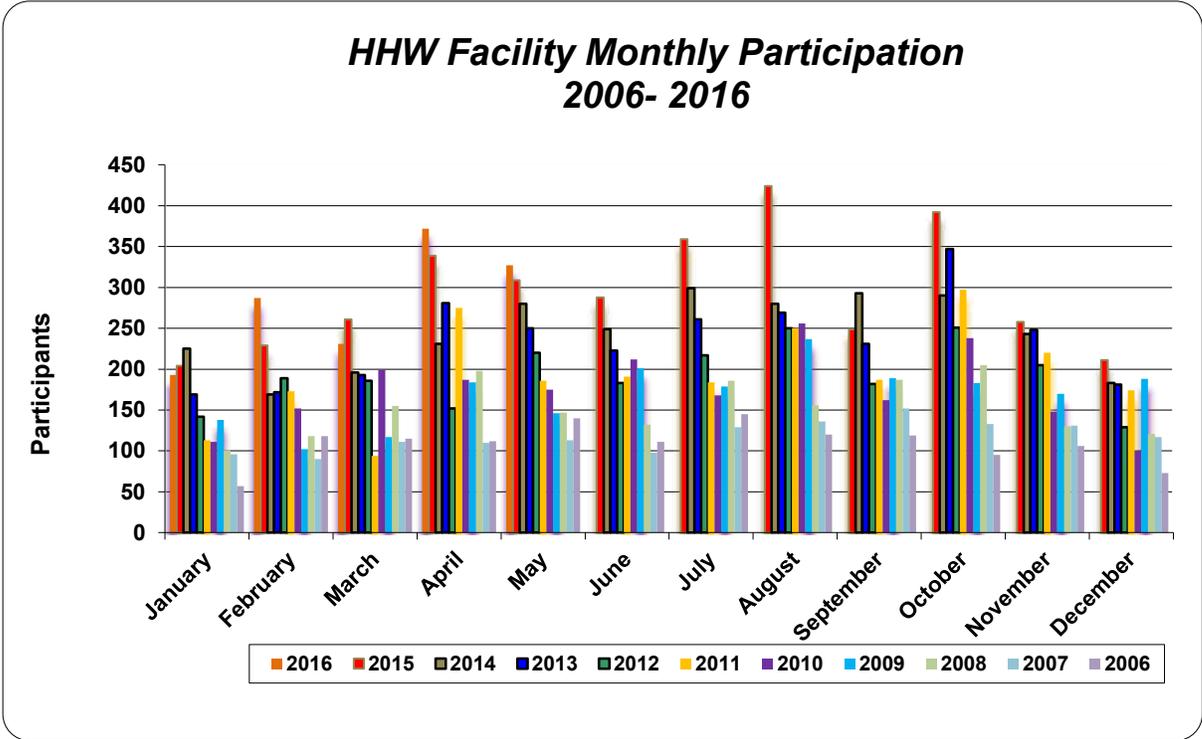
WASTE VOLUMES COLLECTED MATERIAL TYPE		POUNDS COLLECTED BY PROGRAM TYPE				MANAGEMNT METHOD OF WASTE DISPOSED/DIVERTED							
		Permanent Facility	Recycle Only Facility	E-Waste Event	TOTAL POUNDS COLLECTED	DI	FB	L	N	R	RU	S	TOTAL POUNDS
1. Flammable & Poison	Flammable solid/liquid	2,250	0	0	2,250	0	2,250	0	0	0	0	0	2,250
	Bulked flammable liquids	0	0	0	0	0	0	0	0	0	0	0	0
	Oil-base paint	68,349	0	0	72,049	0	72,049	0	0	0	0	0	72,049
	Poison(excl. aerosols)	25,760	0	0	25,760	25,760	0	0	0	0	0	0	25,760
	Reactive & explosives	137	0	0	137	137	0	0	0	0	0	0	137
	Subtotal	96,496	0	0	100,196	25,897	74,299	0	0	0	0	0	100,196
2. Acid	Organic and Inorganic acid	4,074	0	0	4,074	0	0	0	4,074	0	0	0	4,074
3. Base	Organic and Inorganic base	9,000	0	0	9,000	0	0	0	9,000	0	0	0	9,000
4. Oxidizer	Neutral oxidizers,organic peroxides,oxidizing acids and bases	1501	0	0	1,501	412	0	0	750	0	0	339	1,501
5. PCB-containing	PCB-containing paint	0	0	0	0	0	0	0	0	0	0	0	0
	Other PCB waste	1,936	0	0	1,936	1,936	0	0	0	0	0	0	1,936
	Subtotal	1,936	0	0	1,936	1,936	0	0	0	0	0	0	1,936
6. Reclaimable	Antifreeze	0	4,680	0	4,680	0	0	0	0	4,680	0	0	4,680
	Auto type batteries	1,550	8,760	0	10,310	0	0	0	0	10,310	0	0	10,310
	Latex Paint	47,057	50,188	0	97,245	0	0	0	0	97,245	0	0	97,245
	Motor oil/oil products	0	41,063	0	41,063	0	0	0	0	37,313	0	0	37,313
	Oil filters	0	1,500	0	1,500	0	0	0	0	5,250	0	0	5,250
	Subtotal	48,607	106,191	0	154,798	0	0	0	0	154,798	0	0	154,798
7. Asbestos	Asbestos	3,420	0	0	3,420	0	0	3,420	0	0	0	0	3,420
8. Universal Waste	Mercury containing thermostats /switches/thermometers	40	0	0	40	0	0	0	0	40	0	0	40
	Mercury containing waste other	0	0	0	0	0	0	0	0	0	0	0	0
	Fluorescent bulbs	2,435	7,546	0	9,981	0	0	0	0	9,981	0	0	9,981
	Rechargeable batteries	480	2,706	0	3,186	0	0	0	0	3,186	0	0	3,186
	Other Household batteries	5,280	15,100	0	20,380	0	0	20,380	0	0	0	0	20,380
Electronic Waste	Covered Electronic Devices	56,620	0	28,704	85,324	0	0	0	0	85,324	0	0	85,324
	Other Electronic Devices	25,975	0	40,976	66,951	0	0	0	0	66,951	0	0	66,951
	Subtotal	90,050	25,352	69,680	185,862	0	0	20,380	0	165,482	0	0	185,862
Aerosol Containers	Managed as universal waste	0	0	0	0	0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0	0	0	0	0
	Universal Waste Subtotal	90,050	25,352	69,680	185,862	0	0	20,380	0	165,482	0	0	185,862
9. Other HHW	Sharps	117	0	0	117	117	0	0	0	0	0	0	117
	Pharmaceutical Waste	0	0	0	0	0	0	0	0	0	0	0	0
	Compressed Gas Cylinders	5,465	0	0	5,465	0	0	0	0	5,465	0	0	5,465
	Treated Wood	0	0	0	0	0	0	0	0	0	0	0	0
	Non-UW aerosol containers - corrosives, flammables, poisons	7,170	0	0	7,170	0	7,170	0	0	0	0	0	7,170
	Other-Class9/Non RCRA	1,400	0	0	1,400	0	0	500	0	900	0	0	1,400
	Subtotal	14,152	0	0	14,152	117	7,170	500	0	6,365	0	0	14,152
		0	0	0	0	0	0	0	0	0	0	0	0
10.	Grand Total	269,236	131,543	69,680	474,939	28,362	81,469	24,300	13,824	326,645	0	339	474,939



HHW FACILITY SUMMARY 2016	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Total Participants	193	287	231	372	327								1,410
Been to events before?(Yes)	156	241	179	298	258								1,132
Permanent facility?	139	214	157	275	225								1,010
Temporary events?	23	40	34	34	50								181
First time user?	37	46	52	74	69								278
Type of waste brought in?													
Antifreeze	9	13	19	26	22								89
Asbestos	1	5	5	3	3								17
Auto products	24	28	31	55	56								194
Car batteries	5	9	8	9	14								45
Computer monitors	19	32	12	18	5								86
Cements, sealers	17	28	29	41	44								159
E-Waste(all types)	81	99	57	74	65								376
Fluorescent tubes& bulbs	38	66	39	82	54								279
Fuels(gas, kerosene, diesel)	11	20	19	34	43								127
Household batteries	46	70	59	105	74								354
Household cleaners, polishes	37	71	58	89	97								352
Latex paint	62	95	61	144	135								497
Motor oil/filters	12	34	35	48	39								168
Oil base paint	37	60	53	96	94								340
Paint thinners, solvents	35	56	57	76	106								330
Pesticides, herbicides, insecticides	21	37	43	74	79								254
Pet care products	2	6	3	17	13								41
Photo chemicals	1	4	1	1	1								8
Pool Chemicals	6	11	4	13	11								45
Propane/helium tanks/fire extinguishers	9	21	20	36	41								127
Sharps	3	2	7	4	8								24
Spray paints	18	39	45	66	62								230
Television	31	30	27	26	32								146
Thermometers/Thermostats	0	5	2	7	8								22
Wood preservatives, stains	12	34	27	46	44								163
Other	9	8	8	17	15								57
Hear about program?													
Recycling Center flier	69	90	71	159	143								532
Sanitary District newsletter	26	49	48	65	84								272
Sanitary District website	20	43	37	31	29								160
Novato Disposal newsletter	79	125	67	144	137								552
Word of mouth	37	46	40	42	38								203
Other	17	20	23	15	18								93
Change your own motor oil?													
Yes	26	37	28	46	39								176
Novato Recycling Center	19	21	19	24	27								110
O'Reilly's	9	18	11	18	10								66
Pennzoil	0	1	0	2	0								3
Other	0	0	1	3	3								7
If yes, want curbside pickup?	10	15	10	13	9								57
No	167	250	203	326	288								1,234
Comments													
Compliments/Good	60	90	76	109	116								451
Complaints	2	1	1	3	0								7

HHW PARTICIPANTS 2006 - 2016

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>Totals</u>
2016	193	287	231	372	327								
2015	204	229	261	339	309	288	359	424	249	392	258	211	3,523 open 3 days in April, 6 days in August
2014	225	169	196	231	280	249	299	280	293	290	262	183	2,957 open 3 days in April
2013	169	172	193	281	250	223	261	269	231	347	248	181	2,825
2012	142	189	186	152	220	183	217	250	182	251	205	129	2,306
2011	113	173	94	275	186	191	184	250	187	297	220	174	2,344
2010	111	152	199	187	175	212	168	256	162	238	148	100	2,108 August 6 days
2009	138	102	117	184	146	201	179	237	189	183	170	188	2,034 August 6 days
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 2015	-5.39%	25.33%	-11.49%	9.73%	5.83%								





NOVATO E-WASTE COLLECTION

Saturday, April 23 – Monday, April 25, 2016

Number of Participants: 911 residents

E- Waste Collected: 22,345 pounds

Background

Novato's spring E-Waste collection event was held from Saturday, April 23 – Monday, April 25, 2015 at the Recycling Center. This special drop off event offers residents the opportunity to properly dispose of all electronic items.

Since 2003, at these events, we have collected over 1,406,801 pounds of E-waste, from over 21,642 Novato residents.

Participation

A total of **911 residents** dropped off *E-Waste* during the three day event. Average daily participation was **304**. The daily participation, based on actual surveys completed is listed below:

	SAT	SUN	MON
Daily Participation	382	259	270

A total of **22,345 pounds** of *E-Waste* was collected over the 3-day period. The chart below illustrates the total pounds and pounds per participant.

Number of participants	911
Total <i>E-Waste</i> Collected (lbs)	22,345
Pounds per participant	25

Costs/reimbursements

Reimbursement for CRT disposal totaled **\$1,032.00**. used to offset Novato Disposal labor costs. Costs totaled \$892. for ECS non-CRT material collected and fork lift rental.



Publicity and Outreach

Outreach methods included:

- Article in Novato Disposal newsletter, mailed to all customers
- Article in Sanitary District newsletter, mailed to all residents
- Ads placed in Novato Advance
- Separate notice on Sanitary District website and Facebook page
- Fliers posted at city hall, Sanitary District, Recycling Center
- Notices on hotline

Next Event is scheduled for Sat., October 8 – Mon., October 10, 2016