



recyclemore
WEST CONTRA COSTA INTEGRATED
WASTE MANAGEMENT AUTHORITY

RECYCLEMORE HOUSEHOLD HAZARDOUS WASTE (HHW) METRICS REPORT

Report Prepared by Sweetser & Associates, Inc.

Presented by Lisa Borreani – Program Manager

December 8, 2022

WEST COUNTY PERMANENT HHW SITES



101 Pittsburg Ave, Richmond
West Contra Costa County Household
Hazardous Waste Collection Facility

HHW Collection: Wednesday – Saturday



7501 Schmidt Ln., El Cerrito
El Cerrito Recycling + Environmental
Resource Center

HHW Collection: Tuesday Only

PARTICIPATION ANALYSIS

	Richmond opens every Saturday 3/14/15
	El Cerrito Satellite HHW Opens 6/20/17
	Richmond HHW Facility opens Wednesdays 8/2/17
	Temporary HHW Events
	COVID-19 declared

- Seasonal fluctuations are obvious (slow in winter); no events
- Participation has rebounded from COVID-19 and is on track for 2022 to be similar to 2021 participation

NOTE: No data for November and December 2022.

Household Participation Totals Facilities with Events

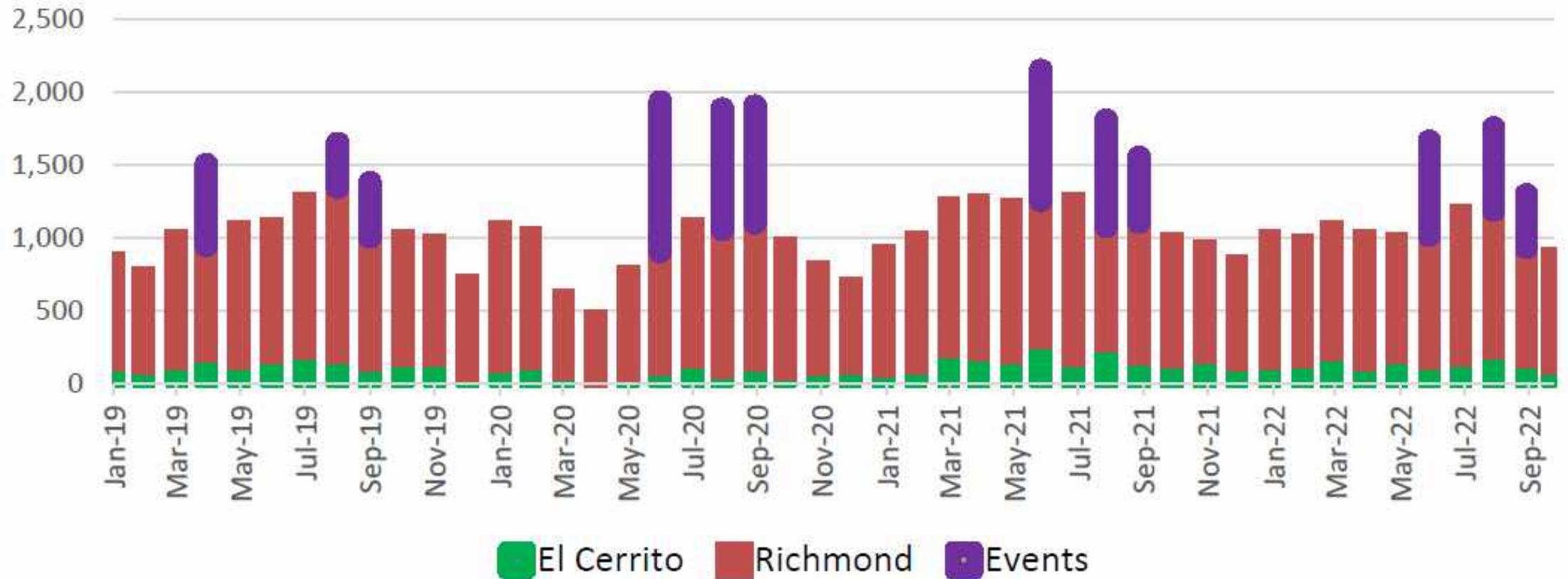
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2012	719	723	798	661	808	779	791	908	758	673	680	577	8,875
2013	706	670	739	634	828	734	656	925	632	712	625	492	8,353
2014	730	517	620	642	764	747	819	846	689	773	507	367	8,021
2015	826	653	757	834	804	682	891	883	729	937	705	517	9,218
2016	639	694	633	1,009	791	905	982	900	873	661	597	729	9,413
2017	572	605	871	763	784	1,040	1,444	1,615	1,375	929	836	911	11,733
2018	935	915	884	822	1,399	909	982	1,614	1,128	921	723	668	11,468
2019	831	733	987	1,507	1,043	1,068	1,245	1,654	1,383	987	954	683	13,080
2020	1,046	1,007	580	439	745	1,939	1,068	1,888	1,908	938	771	654	12,983
2021	884	975	1,210	1,232	1,195	2,152	1,244	1,813	1,557	966	910	814	14,952
2022	988	952	1,050	987	969	1,668	1,156	1,759	1,301	860			11,690

Household Participation Totals Permanent Facilities Only

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2012	719	723	798	661	808	779	791	908	758	673	680	577	8,875
2013	706	670	739	634	828	734	656	925	632	712	625	492	8,353
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2016	639	694	633	1,009	791	905	982	900	873	661	597	729	9,413
2017	572	605	871	763	784	1,040	992	1,035	1,105	929	836	911	10,443
2018	935	915	884	822	943	909	982	1,048	878	921	723	668	10,628
2019	831	733	987	948	1,043	1,068	1,245	1,348	1,004	987	954	683	11,831
2020	1,046	1,007	580	439	745	907	1,068	1,056	1,102	938	771	654	10,313
2021	884	975	1,210	1,232	1,195	1,256	1,244	1,076	1,105	966	910	814	12,867
2022	988	952	1,050	987	969	1,018	1,156	1,189	933	860			10,102

West County HHW Program Residential Household Participation by Program

January 2019 - October 2022



JURISDICTION PARTICIPATION

Each jurisdiction's participation at both permanent facilities, from 2012 through 2022 Year to Date (YTD as of 10/31/22) are indicated in the table and indicates an increasing trend of usage.

NOTE: COVID-19 reduced overall participation in 2020

Annual West County Permanent HHW Facility Participation (Richmond and El Cerrito)											
Jurisdiction	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 YTD
El Cerrito	1,077	898	845	962	961	1,503	2,066	1,805	1,650	2,340	1,880
El Sobrante	908	831	830	1,004	1,008	1,042	926	1,126	632	651	440
Hercules	624	670	629	713	822	945	843	974	848	893	666
Pinole	848	831	828	1032	981	992	937	1,094	1,008	1,201	902
Richmond	3,553	3,372	3,168	3,545	3,595	3,825	3,805	4,309	4,072	5,321	4,209
San Pablo	1,304	1,269	1,215	1,377	1,396	1,504	1,388	1,789	1,557	1,806	1,489
Crockett	138	145	127	128	148	146	141	170	98	142	101
Kensington	157	138	185	193	189	202	233	249	179	231	176
Port Costa	14	6	10	5	6	5	7	14	10	7	8
Rodeo	252	191	177	248	243	280	247	262	251	274	227
Tormey	0	0	0	0	0	0	0	0	1	1	4
Other Residential	0	2	7	11	12	22	35	39	7	0	0
TOTAL	8,875	8,353	8,021	9,218	9,361	10,466	10,628	11,831	10,313	12,867	10,102

Note - Starting 2020, Pt. Richmond participation is noted in the system as Richmond

JURISDICTION PARTICIPATION – CON'T

Participation at the Richmond and El Cerrito HHW Facilities

January 2021 through October 2022

2021				2022 - January through October			
Facility	El Cerrito	Richmond	Total	El Cerrito	Richmond	Total	
El Cerrito	1,507	833	2,340	1,179	701	1,880	
El Sobrante	98	553	651	53	387	440	
Hercules	39	854	893	15	651	666	
Pinole	52	1,149	1,201	30	872	902	
Richmond	767	4,554	5,321	555	3,654	4,209	
San Pablo	62	1,744	1,806	66	1,423	1,489	
Crockett	2	140	142	0	101	101	
Kensington	5	226	231	1	175	176	
Port Costa	0	7	7	0	8	8	
Rodeo	4	270	274	2	225	227	
Tormey	0	1	1	0	4	4	
Other Residential	0	0	0	0	0	0	
TOTAL	2,536	10,331	12,867	1,901	8,201	10,102	

Note - Starting 2020, Pt. Richmond participation is noted in the system as Richmond

WEEKLY PARTICIPATION BY DAY OF THE WEEK

- Participation rebounded from COVID-19 and remained mostly consistent with fairly even participation on all operating days.
- Note that Tuesday HHW Operations occur at El Cerrito and Wednesday through Saturday operations occur at Richmond.

Month	Tue	Wed	Thu	Fri	Sat	Total
2021	2,536	2,715	2,530	2,478	2,608	12,867
Jan	119	136	192	163	274	884
Feb	143	225	199	173	235	975
Mar	258	316	218	216	202	1,210
Apr	232	235	294	253	218	1,232
May	216	233	222	241	283	1,195
Jun	319	287	193	218	239	1,256
Jul	189	248	258	302	247	1,244
Aug	291	188	214	201	182	1,076
Sep	208	237	244	196	220	1,105
Oct	181	190	168	213	214	966
Nov	218	194	128	183	187	910
Dec	162	226	200	119	107	814
2022	1,901	2,051	2,047	2,047	2,056	10,102
Jan	177	223	211	186	191	988
Feb	180	167	192	201	212	952
Mar	230	238	241	172	169	1,050
Apr	167	184	184	236	216	987
May	216	187	186	196	184	969
Jun	176	247	218	169	208	1,018
Jul	190	220	215	272	259	1,156
Aug	243	273	222	221	230	1,189
Sep	182	147	207	211	186	933
Oct	140	165	171	183	201	860

POUNDS AND WASTE TYPES COLLECTED

FY 2021-2022

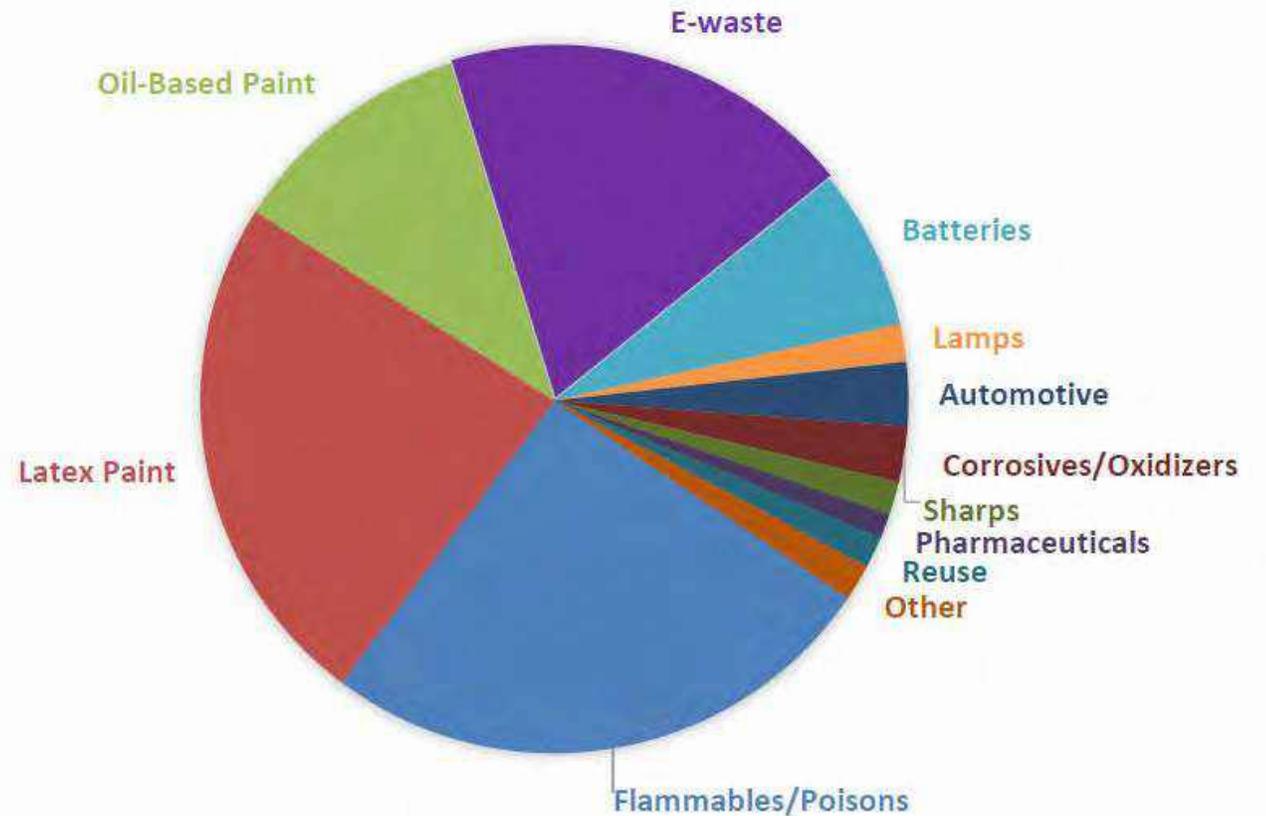
Waste Classification	Richmond	El Cerrito	Events	Door-to-Door	Retail	Total
Flammables/Poisons	139,038	43,267	42,144	283	0	224,732
Latex Paint	131,867	32,338	41,848	750	0	206,803
Oil-Based Paint	58,992	28,770	9,785	385	0	97,932
E-waste	129,699	0	34,142	780	0	164,621
Batteries	16,393	40,710	5,581	880	445	64,009
Lamps	5,795	7,614	1,415	110	0	14,934
Automotive	23,340	0	1,960	205	0	25,505
Corrosives/Oxidizers	10,479	7,607	4,170	1	0	22,257
Sharps	5,895	3,864	0	3,386	0	13,145
Pharmaceuticals	1,149	4,536	0	4,150	0	9,835
Reuse	12,523	0	0	0	0	12,523
Other	12,446	63	1,646	130	0	14,285
Grand Total	547,615	168,769	142,691	11,060	445	870,580

- The El Cerrito HHW Facility continues to collect significantly more batteries and lamps than the Richmond facility.
- The El Cerrito Recycling Center collects batteries, lamps, sharps, and pharmaceuticals during all six operating days; where Richmond collects only 4 days per week. The Recycle-Only HHW facility operated by El Cerrito and then transferred to the Tuesday HHW facility.
- The sharps and pharmaceuticals collected under the Door-to-Door program are almost entirely collected from the kiosks located around the service area.
- The “Other” waste includes contaminated absorbents, fire extinguishers, mercury-containing equipment, smoke alarms, and PCB wastes.

POUNDS AND WASTE TYPES COLLECTED FY 2021-2022

- Latex and Oil-based paint reflect a large portion of material collected and are collected as part of the PaintCare Stewardship program.
- Flammable/Poisons make up another large portion of material collected. This waste stream includes Paint-Related Material (PRM), caulking, roofing tar, pesticides, fertilizers, and others.
- E-Waste is the 3rd largest portion collected.

HHW WASTE TYPES COLLECTED 2021-2022



TEMPORARY HHW EVENT PARTICIPATION 2021 & 2022

Participation for Temporary Events						
Period	6/26/2021	8/28/2021	9/18/2021	6/25/2022	8/27/2022	9/24/2022
Location	Hercules	El Sobrante	Richmond	Hercules	El Sobrante	Richmond
El Cerrito	2	24	11	2	4	2
El Sobrante	5	217	13	5	210	9
Hercules	570	7	9	380	20	5
Pinole	171	111	3	157	118	3
Richmond	3	267	380	2	103	345
San Pablo		104	36	3	109	3
Crockett	44			38	2	
Kensington						
Port Costa	3					
Rodeo	96	3		63	1	1
Tormey	1					
Other Residential	1	4			3	
TOTAL	896	737	452	650	570	368

TEMPORARY HHW EVENT POUNDS COLLECTED 2021 & 2022

Event Date	6/26/2021	8/28/2021	9/18/2021	6/25/2022	8/27/2022	9/24/2022
Waste Collected/Pounds	Hercules	El Sobrante	Richmond	Hercules	El Sobrante	Richmond
HHW	21,720	22,637	13,724	20,555	14,856	10,427
E-waste	15,990	11,722	6,430	15,990	7,000	5,300
PaintCare	23,000					
PaintCare, Latex		15,693	11,828	14,327	9,000	10,000
PaintCare, Oil-based		3,810	2,004	3,971	3,200	7,600
Total (pounds)	60,710	53,862	33,986	54,843	34,056	33,327

Event Date	6/26/2021	8/28/2021	9/18/2021	6/25/2022	8/27/2022	9/24/2022
Waste Collected	Hercules	El Sobrante	Richmond	Hercules	El Sobrante	Richmond
Participants	896	737	452	650	570	368
Pounds collected	60,710	53,862	33,986	54,843	34,056	33,327
Pounds per participant	68	73	75	84	60	91

- Although participation at the 2022 events was less than the 2021 events, the amount of waste per participant significantly increased, specifically for the Hercules and Richmond events
- The California limit to transport HHW to a HHW program is 15 gallons or 125 pounds per trip.

TEMPORARY HHW EVENT PARTICIPATION 2022 COMPARED TO 2021, 2020 AND 2019

HERCULES	Participants
2022	650
2021	896
2020	1,032
2019	559

EL SOBRANTE	Participants
2022	570
2021	737
2020	832
2019	306

RICHMOND	Participants
2022	368
2021	452
2020	806
2019	379

2022 participation is comparable to 2019
(Before COVID-19 Pandemic)

HERCULES EVENT – JUNE 25, 2022

HERCULES CORPORATE YARD



EL SOBRANTE EVENT – AUGUST 27, 2022

HILLTOP CHURCH OF CHRIST



Clean Earth staff preparing for the event with a safety meeting.



RICHMOND EVENT – SEPTEMBER 24, 2022

GALILEO CLUB



REUSE PROGRAM AMOUNTS AND ANNUAL COST SAVINGS

YEAR	2016	2017	2018	2019	2020	2021	2022 YTD
Pounds	17,303	30,024	19,778	31,097	19,130	17,509	13,748
Cost Savings	\$13,842	\$30,004	\$21,242	\$28,673	\$17,703	\$19,822	\$15,902

- Richmond Facility Only
- Some materials received are in good condition – set aside for public to take (ReUSE) – instead of disposal
- Not all collected HHW is eligible for reuse (e.g., batteries, e-waste, lamps, sharps, used oil)
- Saves significant costs
 - Approximately \$15,902 for 2022 YTD
 - Using an estimate of \$0.80 per pound for disposal

ARCHITECTURAL PAINT STEWARDSHIP PROGRAM

- The West County HHW program has been participating in the Architectural Paint Stewardship program (PaintCare) which funds the management of architectural paint.
- In addition, there are two PaintCare sponsored drop-off locations in the RecycleMore service area
 - Kelly-Moore in San Pablo
 - Westlake Hardware in Pinole.
- **For 2021/2022**
 - **Total lbs collected: 292,668**
 - **Savings: \$152,268**

Pounds Collected	2016/17	2017/18	2018/19	2019/20	2020/21	2021/2022
Richmond, Latex Paint	120,299	119,928	65,713	65,765	136,280	129,475
El Cerrito, Latex Paint	NA	27,611	37,931	24,282	20,563	32,338
Temporary Events, Latex	7,677	46,909	42,052	19,297	63,537	41,848
Total Latex Paint	127,976	194,448	145,696	109,344	220,380	203,661
Richmond, Oil-based Paint	76,112	41,894	53,220	110,000	77,357	57,345
El Cerrito, Oil-based Paint		11,010	17,603	11,670	28,152	21,877
Temporary Events, Oil-Based	2,353	7,551	6,606	9,280	11,592	9,785
Total Oil-Based Paint	78,465	60,455	77,429	130,950	117,101	89,007

PaintCare Savings						
Latex Paint	\$63,988	\$97,224	\$72,848	\$54,672	\$110,190	\$101,831
Oil-based Paint	\$44,464	\$34,258	\$43,876	\$74,205	\$66,357	\$50,438
Total Savings	\$108,452	\$131,482	\$116,724	\$128,877	\$176,547	\$152,268



HOME-GENERATED SHARPS & PHARMACEUTICALS PROGRAM

- California adopted the Pharmaceutical and Sharps Waste Stewardship Program
- Offers safe and convenient disposal options for pharmaceutical drugs and home-generated sharps waste
- No cost to the consumer
- 3 Collection Opportunities
 - 1) El Cerrito Recycling Center
 - 2) Richmond HHW Facility
 - 3) Kiosk Collections (7 locations*)
- **Collection for 2021/2022**
 - Sharps = 11,452 total lbs.
 - Pharms = 7,760 total lbs.
 - **Total Collected: 19,212 lbs.**

* 2 Kiosks locations only collect Sharps

Location	Sharps	Pharmaceuticals	POUNDS
El Cerrito Recycling Center	3,864	4,536	8,400
Richmond HHW Facility	5,895	1,149	7,044
Kiosk Collection	1,693	2,075	3,768
GRAND TOTAL	11,452	7,760	19,212

West County Sharps & Pharmaceutical Collection

- 🏠 Household Hazardous Waste Facilities
- Ⓚ Existing Kiosks – Sharps & Pharmaceuticals
- Ⓜ MED-Project Pharmaceuticals ONLY
- Ⓣ Take-Back Pharmaceuticals ONLY (Pending)



HHW PROGRAM METRICS COMPARISONS

FY21/22	Richmond HHWCF	El Cerrito HHWCF	Events	Total
2022 Budget				\$1,385,536
Pounds	547,615	168,769	142,691	859,075
Participants	10,331	2,536 ¹	1,839	14,706
Operating Days	200	52	3	255
Cost/Participant				\$94.22
Cost/Pound				\$1.61
Pounds/Person	53.0	66.5	77.6	197.1
Pounds/day	2,738.1	3,245.6	47,563.7	53,547.3

- There are more pounds per person delivered to El Cerrito than Richmond (larger load size).
- There are even more pounds per person delivered at the Events.
- Richmond Operates 4 days a week; El Cerrito operates only on Tuesday.
- Cost Per Participant = \$94.22
- Cost Per Pound = \$1.61

HHW PROGRAM METRICS COMPARISONS, CON'T

ONE-DAY EVENTS:

The one-day events are the costliest option due to several factors including:

- Coordination with the site owners and documentation require staff time.
- Events require 30-40 staff for the day plus significant time spent preparing the site. (The permanent facilities operate with an average of three staff).
- Preparations for the event require public notification through postcard mailings and electronic notifications to the area.
- Local permit fees and the cost for off-duty officers adds some cost.
- The entire operating area needs to be covered with plastic as required by regulations. The cost of materials and labor is a significant cost.

METRICS REPORT HIGHLIGHTS

- Richmond and EL Cerrito Facilities:
 - Total Participation for Richmond and El Cerrito Facilities – DOWN 2%
 - 10,102 (2022 YTD*) compared to 12,867 (2021)
 - Participation by at least 14,706 residents is 16.5% usage rate using a service area population of 88,961 households.
- HHW Events:
 - Participation down from last year, but amount collected per person increased
 - 1,839 (2022) compared to 2,534 (2021)
 - Lbs. collected per person: 77.6 lbs. (2022) compared to 66.8 (2021)
- ReUSE Program YTD Savings \$15,902
- Paint Stewardship Program Cost Savings \$152,268
- Home-Generated Sharps/Pharms Program Collected 19,212 lbs.
- Top 3 Waste Classifications Collected
 1. Flammables/Poisons = 224,732 lbs.
 2. Latex Paint = \$206,803 lbs.
 3. E-Waste = 164,621 lbs.

* YTD = Data through October 31, 2022

ITEMS FOR FUTURE REVIEW

This analysis indicates some potential trends on HHW program participation that is worthy of future review including:

- Monitor impact and convenience of the Pharmaceutical and Sharps Product Stewardship implementation and potentially adjust service levels
- Review the level of repeat customers
- Evaluate the storage capacity of the El Cerrito Satellite HHW Facility
- Expand
- Review usage of the Door-to-Door program
- Review the Very Small Quantity Generator (VSQG) Program (For small businesses and non-profits)
- Monitor the residents of Kensington using the El Cerrito Satellite HHW Facility