

2016 USED OIL & HOUSEHOLD HAZARDOUS WASTE TRAINING & CONFERENCE

SacHazTracker

A Web Based Solution To An Age Old Problem

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Waste Management Program Manager
County of Sacramento

SacHazTracker

Need: A more automated way to log and charge for Residential HHW and CESQG loads at County facilities.

Fiscal Year	Loads	Unknown Addresses	Staff Hours (Data Entry)	Est. Data Cost
2008/09	14,825	2,082	69	\$2,100
2009/10	16,495	2,088	67	\$2,300
2010/11	16,489	1,521	65	\$2,900
2011/12	16,136	1,369	60	\$2,800

County of Sacramento Household Hazardous Waste Program
Customer Survey Form NARS
 Version for Koster as well!
 Date: SEP 24 2010
 Initials: MC Zip Code: 95602 Street #: 66124 Street Name: Holly St City: Citrus Heights
 95621

CEISQC - Receipt of Deposit and Tracking Sheet

Part 1 - Business Information

Company Name: HERASLES LLC
 Physical Address of Business: 1100 N. HACKETT BLVD SUITE 200 City: SACRAMENTO State: CA Zip Code: 95834
 Billing Address (if different): _____ City: _____ State: _____ Zip Code: _____
 Contact Name: JOHN SCEL Phone: 916 743 9164

Part 2 - Waste Description

Waste Description	Quantity	Unit of Measure	Price Per Unit	Discard Cost
4" Fluorescent Tubes	750		96.40	\$108.00
Administrative Fee			\$25.95	
Total Cost				\$133.95

Part 3 - Certification by CESQC

CESQC wastes will be collected at:
 County of Sacramento
 North Area Recovery Station
 Permanent Household Hazardous Waste Collection Facility
 1458 Roseville Road, North Highlands, California 95610

The below signature certifies the DWMGR have received the above listed material from the CESQC listed above.
 Signed: Mark P. Stancil Date: 9/17/10

My signature below certifies that I represent the business listed in part 1 above and further certifies that this business generates less than 100 kilograms of hazardous waste per month and less than 1 kilogram of extremely hazardous waste per month. Further, my signature below certifies that the waste listed above and transferring to the CESQC Collection Program were generated within the District service area by the business listed above and that I have transferred these wastes to the County of Sacramento PHHWCP for proper management and disposal.

NAME: L P STANCIL Signature: [Signature] Date: 9/17/10

For these forms (paying by journal voucher, please use):
 Commission: 1872975000 WWS # WS445HHWP-24
 60-CESQC00000000

Current Method was hand written forms with manual verification of jurisdiction for each address (fairly time consuming) with unit pricing for each material beginning in Feb. 2008 (rather than typical \$70/load).

- Automate process to include:
 - Point of Sale style of data entry
 - Automatic jurisdiction determination through GIS data
 - Detect frequent repeat customers (business customers) that may be masquerading as Residential HHW



June 2010 **SacHazTracker** was born!

- Software developed by in-house County IT staff
- Cost to develop: \$30,000
- System went live in July 2012
- Features include:
 - Multi-site capabilities
 - ID Swipe (Driver's License) or Manual Entry if license not present or refusal
 - Residential or Business functionality
 - Repetitive load check ability for business identification
 - GIS jurisdiction verification of address
 - Specific account assignability



**SacHazTracker logo
designed in-house**



Residential Transaction Entry Screen



SacHazTracker

Household Hazardous Waste Collection

[Collect](#) | [Search](#)

Kiefer Individual

Customer Information

License Presented

CDL#

License Current

Customer

CA

Source Same

Vehicle Information

Make

Model

License Plate

Trailer Number

Materials

<input type="text"/>	▲	ea 4' Fluorescent Tubes	\$1.37/ea
<input type="text"/>	▲	ea 8' Fluorescent Tubes	\$2.55/ea
<input type="text"/>	▲	gal Acids (gal)	\$21.90/gal
<input type="text"/>	▲	lb Acids (lbs)	\$2.58/lb
<input type="text"/>	▲	ea Aerosols	\$1.70/ea
<input type="text"/>	▲	gal Antifreeze	\$1.40/gal
<input type="text"/>	▲	ea Auto Batteries (\$5.11)/ea	
<input type="text"/>	▲	lb Broken CRTS	\$0.54/lb
<input type="text"/>	▲	gal Caustics (gal)	\$16.14/gal
<input type="text"/>	▲	lb Caustics (lbs)	\$1.90/lb
<input type="text"/>	▲	ea Compact Fluorescent, Metal Halide, Sodium Vapor, Halogen, & LED Lamps	\$1.62/ea
<input type="text"/>	▲	lb E-Waste Commercial Copiers	\$0.18/lb
<input type="text"/>	▲	lb E-Waste Commercial Mixed	\$0.18/lb
<input type="text"/>	▲	ea Fire Extinguishers (Empty)	\$0.77/ea

Unlisted Material Unlisted Cost

Save Cancel

Business Transaction Entry Screen



SacHazTracker

Household Hazardous Waste Collection

[Collect](#) | [Search](#)

Kiefer Business

Customer Information

License Presented
 License Current

CDL#

Customer

CA

Source Same

Vehicle Information

Make
Model
License Plate
Trailer Number

Business Information

Existing Business:
Business Name
EPA ID#
Address
Business Phone
Business Notes

Materials

- ea 4' Fluorescent Tubes \$1.37/ea
- ea 8' Fluorescent Tubes \$2.55/ea
- gal Acids (gal) \$21.90/gal
- lb Acids (lbs) \$2.58/lb
- ea Aerosols \$1.70/ea
- gal Antifreeze \$1.40/gal
- ea Auto Batteries (\$5.11)/ea
- lb Broken CRTS \$0.54/lb
- gal Caustics (gal) \$16.14/gal
- lb Caustics (lbs) \$1.90/lb
- ea Compact Fluorescent, Metal Halide, Sodium Vapor, Halogen, & LED Lamps \$1.62/ea
- lb E-Waste Commercial Copiers \$0.18/lb
- lb E-Waste Commercial Mixed \$0.18/lb
- ea Fire Extinguishers (Empty) \$0.77/ea

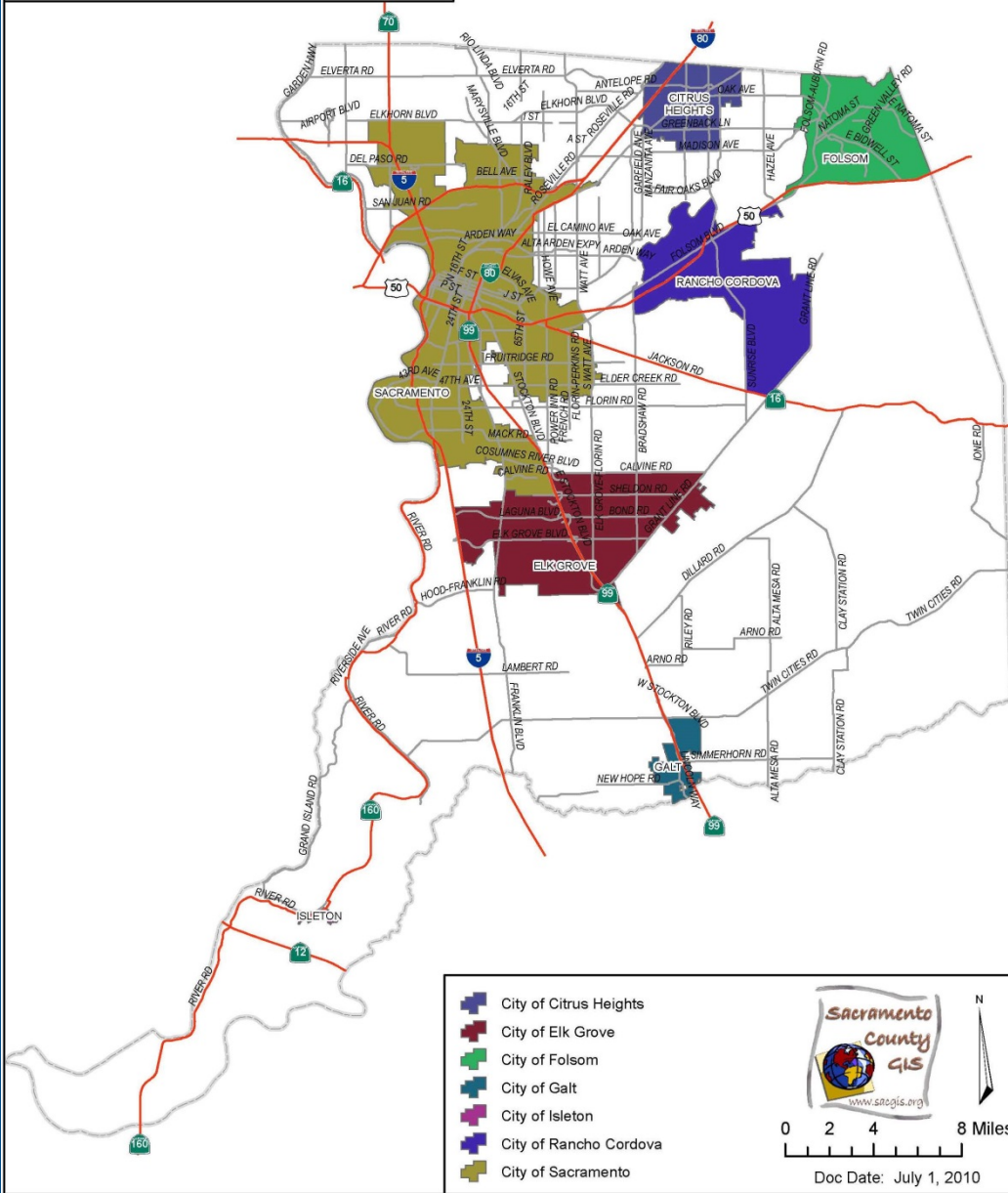
Unlisted Material

Unlisted Cost

Load being processed



CITIES

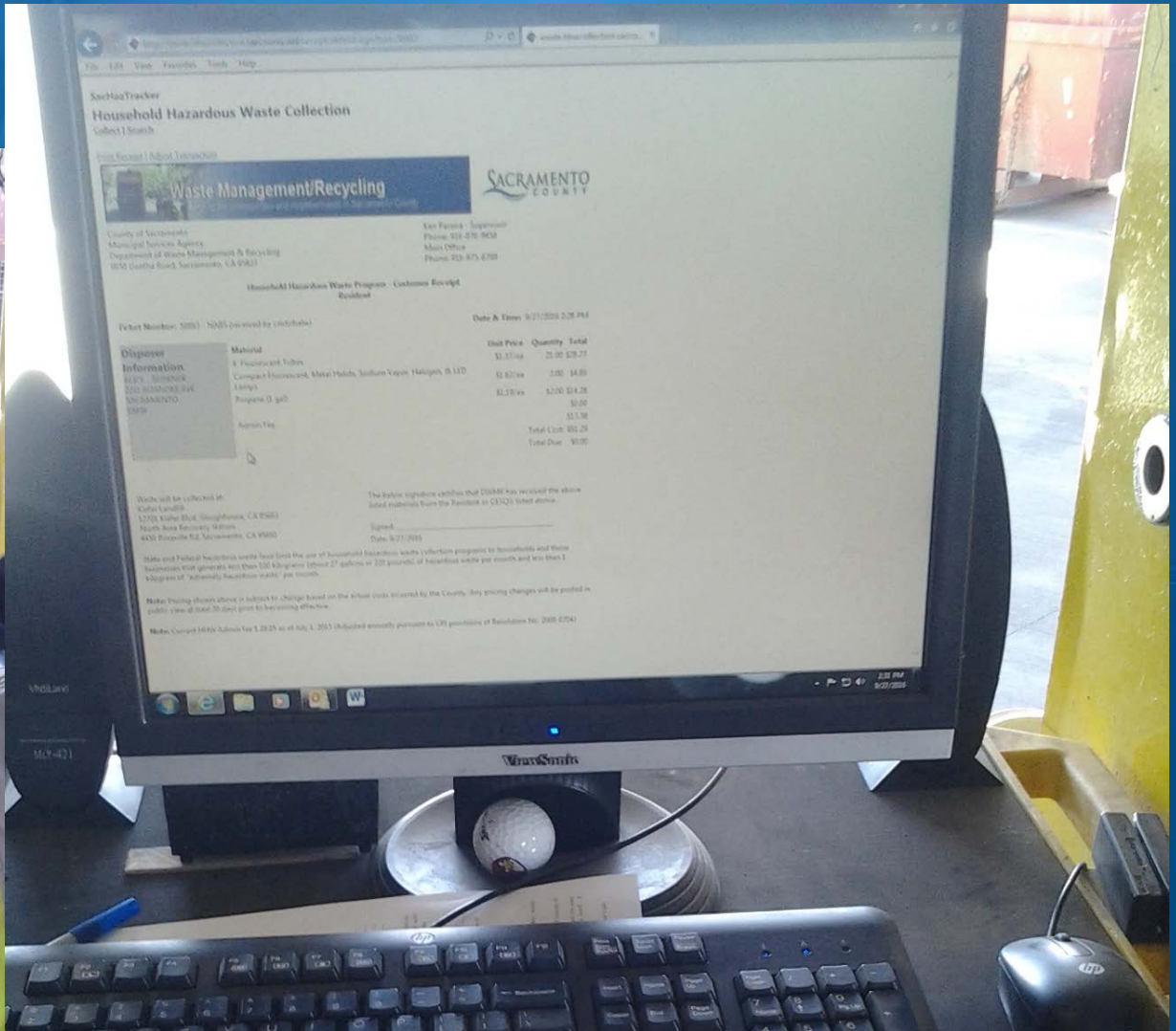
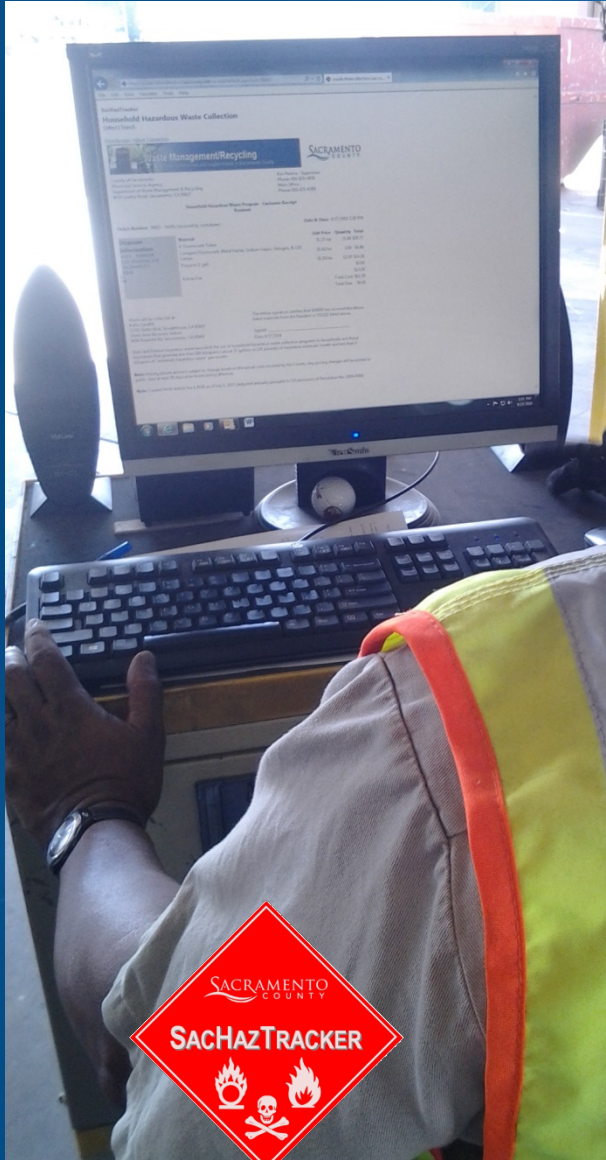


GIS Mapping

SacHazTracker verifies the actual jurisdiction of the source address.



Receipt Screen Load fully processed!



In order to charge more accurate costs for each load of residential HHW received by the County, the County did the following:

- Staff began development a sophisticated cost model for unit pricing of material types in 2012 based on a Time-In-Motion study.
- Disposal and Transportation costs were charged by unit by material. All other costs were embedded in a flat Admin Fee.
- Costs were broken down into:
 - Unit cost for Transportation and Disposal/Recycling by Contractor
 - Unit cost for County staff to handle/lab pack based on Time In Motion study
 - CPI adjusted flat Admin Fee charged on each load to cover all unassigned costs (unassigned labor and consumables).
- Administrative Fee changed in 2015 to dynamic fee based on actual costs, rather than CPI adjusted. 50% of unassigned labor and all unassigned consumables distributed across all materials.

1	2	3	A	B	C	D
	1		Employee	Job Name	Task Name	Act Hrs
	2				Grand Total	12630
	3				Z001 - Regular Time Total	10515.5
+	62				Z010 - Overtime Paid Total	34.5
+	66				Z011 - Overtime CTO Total	8
+	69				Z061 - Training / Seminar Total	48
+	75				Z110 - Vacation Total	836
+	91				Z120 - Sick Leave Self Total	100.5
+	99				Z121 - Sick Leave Family Total	193
+	104				Z130 - CTO - Taken Total	310
+	118				Z150 - Holiday Total	392
+	136				Z151 - Holiday - XMas / NY Total	20
+	142				Z220 - Jury Duty Total	112
+	145				Z230 - Family Death Leave Total	16
+	147				Z281 - Union Time - Grievances Total	4.5
+	149				Z300 - Wellness Incentive Day Total	40
+	156					
	157					

Staff hours for Special Waste Staff evaluated each year for distribution in Cost Model.

	A	B	C	D	E
1	April 2015 - March 2016		Factored Hrly	Indirect Hrly	
2	Special Waste Labor Rate (Asst Waste Mgt Specialist Lv 2)	\$ 67.81	\$ 67.81	\$ -	
3	Total Vehicle Loads/Year (SQL report)	13,880			
4	Special Waste Staff Hours - Annual Total	12,630	do not include OOC hours (Z020)		
5	Special Waste Staff Hours - Annual Training and Leave Hours Only	2,072	(Z061,110,120,121,130,140,150,151,220,300)		
6	Special Waste Staff Hours - E-Waste	1,253	wbs element		
7	Special Waste Staff Hours - Load Check NARS	527	wbs element		
8	Special Waste Staff Hours - Load Check KLF	918	wbs element		
9					
10	Admin Labor Rate (Executive Secretary)	\$ 54.75			
11	Staff Hours - Annual Total	48			
12	Admin Labor Rate (Accounting Technician)	\$ 51.87			
13	Staff Hours - Annual Total	72			
14					
15					
16					
17	Clean Harbors Staff Hours - Annual Total	351.5			
18	Clean Harbors Hourly Rate	\$ 40.95			
19					
20	CLEAN HARBORS				
21	Dropped Material Type	Unit Cost	Quantity		
22	BOX4 (Fluorescent Tube Box)	\$ 8.51	153		
23	BOX8 (Fluorescent Tube Box)	\$ 12.20	30		
24	DM55CSTL	\$ 43.05			
25	DM55STL	\$ 43.05			
26	DM55POLY	\$ 43.05			
27	DM5POLY	\$ 22.00			
28	DMFLEXBN	\$ 74.55			
29	SAMPH1-14	\$ -			
30	DM2POLY	\$ 7.00			
31					
32	CLEAN HARBORS				
33	"General" Dropped Materials	Total Cost			
34	GLVNIT14	\$ 2,077.35			
35	SORBSPEED	\$ -			

Plug-ins setup in model to be easily updated each year for pricing updates.

Dynamic Administrative Fee established to cover costs not assignable to a specific material or activity.

	A	B	C	D	E	F
1	Hourly Rate = SW staff	\$ 67.81				
2						
3	Check In/Off Load Cost					
4	Check-in/off-load Minutes/Load	2				
5	Total Vehicle Loads/Year (form 303)	13,880				
6	Total Annual Hours	462.67				
7	Annual Cost	\$ 31,373.43				
8	\$/load	\$ 2.26				
9						
10	Special Waste Labor Cost					
11	Total SW Staff Hours	12,630.00		29 RAGS	\$ 61.00	
12	Packaging/Testing Hours	2,525.63	Unit Material	30 PLACARDS	\$ -	
13	Check In/Off Load Hours	462.67	Admin Fee	31 SORBPAD	\$ -	
14	Training and Leave Hours	2,072.00	Admin Fee	32 STRIPSKI	\$ -	
15	E-Waste Hours	1,253.00	Removed f	33 SHRINKWRAP	\$ 192.00	
16	Load Check NARS Hours	527.00	Removed f	34 BOX3	\$ 1,040.00	
17	Load Check KLF Hours	918.00	Removed f	35 Other Gloves	\$ 693.00	
18	Remaining Hours	4,871.71	Unit Material proportionate material	36 Other Drums	\$ 680.00	
19	50%	2,435.85	Unit Material proportionate material	37 LINDRUMYEL	\$ 140.00	
20				38 General Dropped Total	\$ 7,117.27	
21	"General" Dropped Materials	Cost		39 Unit Cost - Material Specific	\$ 30,800.23	
22	GLVNIT14	\$ 2,077.35		40 Total CH Dropped ALL	\$ 38,278.48	
23	SORBSPEED	\$ -		41 Admin Fee	\$ 360.98	
24	SORBVERM	\$ 1,890.00		42		
25	TPDU	\$ 343.92		43 8hr Training	\$ 2,400.00	used oil reimbursement - do not include in costs
26	GLVLTH	\$ -		44		
27	PPETYWHITE	\$ -		45 Admin Fee Components	Per load	
28	DMPALDOT	\$ -		46 Accounting Staff	\$ 0.46	
29	RAGS	\$ 61.00		47 Dropped Material Costs	\$ 0.54	
30	PLACARDS	\$ -		48 Check-in/Off Load Hours	\$ 2.26	
31				49 SW Training and Leave Hours	\$ 10.12	
32				50	\$ 13.38	

SacHazTracker

Material	Unit	Packaging/Testing Time					Unit Labor Cost	Annual Packaging / Testing Labor + Shopped + Dropped Costs	Total Unit Cost	Proportional distribution of 100% of "other" hours inc. Clean Harbors	Total ALL costs (inc. Clean Harbors and %(OTHER) labor costs)	New unit cost (w 100% of "other" hrs assigned) - Based on SHIPPED	Quantity TRACKED in SQL	Difference between TRACKED and SHIPPED	TRACKED % of SHIPPED	New unit cost (w 100% of "other" hrs assigned) - Based on TRACKED	Proportional distribution of (OTHER) % of "other" hours inc. Clean Harbors	Total ALL costs (W+AA)	New unit cost (w (OTHER)% of "other" hrs assigned) - Based on TRACKED	New unit cost (w (OTHER)% of "other" hrs assigned) - Based on SHIPPED	New Unit Pricing Table Cost (calculated) USE THIS	
		Sec	Min	Hrs	Total Annual Hrs	Annual Labor Cost																
Motor Oil (gal)	gal	30	0.50	0.008	215.94	\$ 14,642.72	\$ 0.57	\$ 4,823.52	\$ 0.19	446.58	\$ 20,176.44	\$ 0.78	25,184	(729)	97%	\$ 0.80	238.31	\$ 20,176.44	\$ 0.80	\$ 0.78	\$ 0.78	Shipped
Oil Filters (ea)	ea	10	0.17	0.003	8.80	\$ 596.48	\$ 0.19	\$ 1,641.48	\$ 0.52	18.19	\$ 2,266.88	\$ 0.72	1,255	(1,912)	40%	\$ 1.81	9.71	\$ 2,266.88	\$ 1.81	\$ 0.72	\$ 0.72	Shipped
Antifreeze (gal)	gal	30	0.50	0.008	20.00	\$ 1,356.20	\$ 0.57	\$ 2,676.20	\$ 1.12	41.36	\$ 4,098.18	\$ 1.71	2,928	528	122%	\$ 1.40	22.07	\$ 4,098.18	\$ 1.40	\$ 1.71	\$ 1.40	Shipped
Latex Paint (gal) (Program Product)	gal	20	0.33	0.008	137.54	\$ 9,326.29	\$ 0.38	\$ 9,326.29	\$ 0.38	284.44	\$ 19,104.91	\$ 0.77	60,671	35,915	245%	\$ 0.31	151.79	\$ 19,104.91	\$ 0.31	\$ 0.77	\$ 0.31	Tracked
Latex Paint (gal) (Unlabeled or Leaking, Non-Program Product)	gal	60	1.00	0.017	32.59	\$ 2,209.81	\$ 1.13	\$ 7,273.41	\$ 3.72	67.40	\$ 9,590.41	\$ 4.90	3,231	1,276	165%	\$ 2.97	35.97	\$ 9,590.41	\$ 2.97	\$ 4.90	\$ 2.97	Tracked
Flammable Paint (gal) (Program Product)	gal	20	0.33	0.008	46.33	\$ 3,277.48	\$ 0.38	\$ 3,277.48	\$ 0.38	99.96	\$ 6,713.93	\$ 0.77	1,710	(6,990)	20%	\$ 3.93	53.34	\$ 6,713.93	\$ 3.93	\$ 0.77	\$ 0.77	Shipped
Flammable Paint (gal) (Unlabeled or Leaking, Non-Program Product)	gal																					Tracked
AND		60	1.00	0.017	84.12	\$ 5,704.02	\$ 1.13	\$ 23,145.72	\$ 4.59	173.96	\$ 29,126.39	\$ 5.77	7,081	2,034	140%	\$ 4.11	92.83	\$ 29,126.39	\$ 4.11	\$ 5.77	\$ 4.11	
Flammable Liquids (pourable) (gal) SEE ROW 37	gal																					
Auto Batteries (ea)	ea	20	0.33	0.008	15.58	\$ 1,056.52	\$ 0.38	\$ (15,431.73)	\$ (5.50)	32.22	\$ (14,323.97)	\$ (5.11)	980	(1,825)	35%	\$ (14.62)	17.20	\$ (14,323.97)	\$ (14.62)	\$ (5.11)	\$ (5.11)	Shipped
Household Batteries (lb)	lb	20	0.87	0.015	407.63	\$ 27,641.48	\$ 0.99	\$ 44,031.98	\$ 1.57	843.02	\$ 73,014.12	\$ 2.61	15,595	(12,405)	56%	\$ 4.68	449.87	\$ 73,014.12	\$ 4.68	\$ 2.61	\$ 2.61	Shipped
Button Batteries (lb)	lb	365												(1,045)	0%							
U-Tube Fluorescent and Circular Lamps (ea)	ea	25	0.42	0.007	4.31	\$ 292.48	\$ 0.47	\$ 516.08	\$ 0.83	8.92	\$ 822.75	\$ 1.32	621	(0)	100%	\$ 1.32	4.76	\$ 822.75	\$ 1.32	\$ 1.32	\$ 1.32	N/A
Fluorescent Tubes (ft)	ft								\$ 0.29			\$ 0.48				\$ 0.54			\$ 0.54	\$ 0.48	\$ 0.48	Shipped
Fluorescent Tubes 4 ft. (ea)	ea	10	0.17	0.003	493.78	\$ 33,482.92	\$ 0.19	\$ 50,754.47	\$ 0.58	1,021.17	\$ 85,861.36	\$ 1.37	158,096	(19,663)	89%	\$ 1.61	544.94	\$ 85,861.36	\$ 1.59	\$ 1.37	\$ 1.37	Shipped
Fluorescent Tubes 8 ft. (ea)	ea								\$ 0.97			\$ 2.55				\$ 3.03			\$ 2.98	\$ 2.55	\$ 2.55	Shipped
Compact Fluorescents, Metal Halide, Sodium Vapor, Halogen, and LED Lamps (ea)	ea	25	0.42	0.007	88.07	\$ 5,971.88	\$ 0.47	\$ 14,222.34	\$ 1.12	182.13	\$ 20,483.86	\$ 1.62	10,970	(1,712)	87%	\$ 1.87	97.19	\$ 20,483.86	\$ 1.87	\$ 1.62	\$ 1.62	Shipped
Non-PCB Ballasts (lb)	lb	15	0.25	0.004	3.55	\$ 240.73	\$ 0.28	\$ 971.28	\$ 1.14	7.34	\$ 1,223.68	\$ 1.44	1,227	375	144%	\$ 1.00	3.92	\$ 1,223.68	\$ 1.00	\$ 1.44	\$ 1.00	Tracked
Propane (1 gal)	ea	15	0.25	0.004	16.67	\$ 1,130.17	\$ 0.28	\$ 3,591.17	\$ 0.90	34.47	\$ 4,776.15	\$ 1.19	1,037	(2,963)	26%	\$ 4.61	18.39	\$ 4,776.15	\$ 4.61	\$ 1.19	\$ 1.19	Shipped
Propane (5 gal)	ea	30	0.50	0.008	15.00	\$ 1,017.15	\$ 0.57	\$ 1,017.15	\$ 0.57	31.02	\$ 2,083.63	\$ 1.16	450	(1,350)	25%	\$ 4.63	16.55	\$ 2,083.63	\$ 4.63	\$ 1.16	\$ 1.16	Shipped
Mercury (lb)	lb	15	0.25	0.004	1.88	\$ 126.01	\$ 0.28	\$ 1,095.16	\$ 2.46	3.84	\$ 1,227.29	\$ 2.75	98	(348)	22%	\$ 12.52	2.05	\$ 1,227.29	\$ 12.52	\$ 2.75	\$ 2.75	Shipped
Poison-Liquids (gal)	gal	35	0.58	0.010	525.00	\$ 35,600.25	\$ 0.66	\$ 98,028.00	\$ 15.43	1,085.74	\$ 135,354.91	\$ 21.31	29,589	(8,992)	83%	\$ 25.56	579.41	\$ 135,354.91	\$ 25.56	\$ 21.31	\$ 21.31	Shipped
Poison-Solids (lb)	lb								\$ 1.82			\$ 2.51	15,420			\$ 3.01			\$ 3.01	\$ 2.51	\$ 2.51	Shipped
Acids (gal)	gal	40	0.67	0.011	83.33	\$ 5,650.83	\$ 0.75	\$ 13,399.98	\$ 15.19	172.34	\$ 19,324.89	\$ 21.90	4,165	(3,157)	58%	\$ 37.82	91.97	\$ 19,324.89	\$ 37.82	\$ 21.90	\$ 21.90	Shipped
Acids (lb)	lb								\$ 1.79			\$ 2.58	178			\$ 4.45			\$ 4.45	\$ 2.58	\$ 2.58	Shipped

All of the preceding data flows into the master sheet that calculates the unit costs.

SacHazTracker

	A	J	L	M	N	O	P	Q	R	S	T	U
1	Material	Quantity Shipped Actual Unit	Conversion Factor (lbs/unit)	Unit	Packaging/Testing Time					Unit Labor Cost	Annual Packaging / Testing Labor + Dropped + Shipped Costs	Total Unit Cost
2					Sec	Min	Hrs	Total Annual Hrs	Annual Labor Cost			
3	Motor Oil (gal)	25,913	8.0	gal	30	0.50	0.008	215.94	\$ 14,642.72	\$ 0.57	\$ 4,823.52	\$ 0.19
4	Oil Filters (ea)	3,167	1.5	ea	10	0.17	0.003	8.80	\$ 596.48	\$ 0.19	\$ 1,641.48	\$ 0.52
5	Antifreeze (gal)	2,400	8.0	gal	30	0.50	0.008	20.00	\$ 1,356.20	\$ 0.57	\$ 2,676.20	\$ 1.12
6	Latex Paint (gal) (Program Product)	24,756	10.0	gal	20	0.33	0.006	137.54	\$ 9,326.29	\$ 0.38	\$ 9,326.29	\$ 0.38
7	Latex Paint (gal) (Unlabeled or Leaking, Non-Program Product)	1,955	10.0	gal	60	1.00	0.017	32.59	\$ 2,209.81	\$ 1.13	\$ 7,273.41	\$ 3.72
8	Flammable Paint (gal) (Program Product)	8,700	10.0	gal	20	0.33	0.006	48.33	\$ 3,277.48	\$ 0.38	\$ 3,277.48	\$ 0.38
9	Flammable Paint (gal) (Unlabeled or Leaking, Non-Program Product) AND Flammable Liquids (pourable) (gal) SEE ROW 37			gal	60	1.00	0.017	84.12	\$ 5,704.02	\$ 1.13	\$ 23,145.72	\$ 4.59
10												
11												
12		2,922	8.5	gal								
13												
14	Auto Batteries (ea)	2,805		ea	20	0.33	0.006	15.58	\$ 1,056.52	\$ 0.38	\$ (15,431.73)	\$ (5.50)
15	Household Batteries (lb)	27,998		lb	20	0.87	0.015	407.63	\$ 27,641.48	\$ 0.99	\$ 44,031.98	\$ 1.57
16	Button Batteries (lb)	1,045		lb	365							
17	U-Tube Fluorescent and Circular Lamps (ea)	621		ea	25	0.42	0.007	4.31	\$ 292.48	\$ 0.47	\$ 516.08	\$ 0.83
18	Fluorescent Tubes (ft)			ft								\$ 0.29
19	Fluorescent Tubes 4 ft. (ea)			ea								\$ 0.58

The unit costs for labor are calculated based on quantities from the preceding April – March period.

SacHazTracker

	A	U	X	Y	Z
1	Material	Total Unit Cost	Proportional distribution of 100% of "other" hours inc. Clean Harbors	Total ALL costs (inc. Clean Harbors and 1/2(OTHER) labor costs)	New unit cost (w 100% "other" hrs assigned Based on SHIPPED)
2					
3	Motor Oil (gal)	\$ 0.19	446.58	\$ 20,176.44	\$ 0.19
4	Oil Filters (ea)	\$ 0.52	18.19	\$ 2,266.88	\$ 0.52
5	Antifreeze (gal)	\$ 1.12	41.36	\$ 4,098.18	\$ 1.12
6	Latex Paint (gal) (Program Product)	\$ 0.38	284.44	\$ 19,104.91	\$ 0.38
7	Latex Paint (gal) (Unlabeled or Leaking, Non-Program Product)	\$ 3.72	67.40	\$ 9,590.41	\$ 3.72
8	Flammable Paint (gal) (Program Product)	\$ 0.38	99.96	\$ 6,713.93	\$ 0.38
9					
10	Flammable Paint (gal) (Unlabeled or Leaking, Non-Program Product)				
11	AND	\$ 4.59	173.96	\$ 29,126.39	\$ 4.59
12	Flammable Liquids (pourable) (gal) SEE ROW 37				
13					
14					
15	Auto Batteries (ea)	\$ (5.50)	32.22	\$ (14,323.97)	\$ (5.50)
16	Household Batteries (lb)	\$ 1.57	843.02	\$ 73,014.12	\$ 1.57
17	Button Batteries (lb)				
18	U-Tube Fluorescent and Circular Lamps (ea)	\$ 0.83	8.92	\$ 822.75	\$ 0.83
19	Fluorescent Tubes (ft)	\$ 0.29			\$ 0.29
20	Fluorescent Tubes 4 ft. (ea)	\$ 0.58	1,021.17	\$ 85,861.36	\$ 0.58

	A	AH	AI	AJ	AL	AM	AR
1	Material	New unit cost (w (OTHER)% of "other" hrs assigned) - Based on TRACKED	New unit cost (w (OTHER)% of "other" hrs assigned) - Based on SHIPPED			New Unit Pricing Table Cost (calculated) USE THIS	
2							
3	Motor Oil (gal)	\$ 0.80	\$ 0.78			\$ 0.78	Shipped
4	Oil Filters (ea)	\$ 1.81	\$ 0.72			\$ 0.72	Shipped
5	Antifreeze (gal)	\$ 1.40	\$ 1.71			\$ 1.40	Tracked
6	Latex Paint (gal) (Program Product)	\$ 0.31	\$ 0.77			\$ 0.31	Tracked
7	Latex Paint (gal) (Unlabeled or Leaking, Non-Program Product)	\$ 2.97	\$ 4.90			\$ 2.97	Tracked
8	Flammable Paint (gal) (Program Product)	\$ 3.93	\$ 0.77			\$ 0.77	Shipped
9							Tracked
10	Flammable Paint (gal) (Unlabeled or Leaking, Non-Program Product)						
11	AND	\$ 4.11	\$ 5.77			\$ 4.11	
12	Flammable Liquids (pourable) (gal) SEE ROW 37						
13							
14							
15	Auto Batteries (ea)	\$ (14.62)	\$ (5.11)			\$ (5.11)	Shipped
16	Household Batteries (lb)	\$ 4.68	\$ 2.61			\$ 2.61	Shipped
17	Button Batteries (lb)						
18	U-Tube Fluorescent and Circular Lamps (ea)	\$ 1.32	\$ 1.32			\$ 1.32	N/A
19	Fluorescent Tubes (ft)	\$ 0.54	\$ 0.48			\$ 0.48	Shipped
20	Fluorescent Tubes 4 ft. (ea)	\$ 1.59	\$ 1.37			\$ 1.37	Shipped
21	Fluorescent Tubes 8 ft. (ea)	\$ 2.98	\$ 2.55			\$ 2.55	Shipped
22	Compact Fluorescents, Metal Halide, Sodium Vapor, Halogen, and LED Lamps (ea)	\$ 1.87	\$ 1.62			\$ 1.62	Shipped

The unit costs for each material is then evaluated based on "Tracked" vs. "Shipped" and the lessor value is used for the new pricing.

**Fees for Conditionally Exempt Small Quantity Generators (CESQG)
At North Area Recovery Station**

Unit Pricing Table
(Effective July 1, 2016)

Description	Unit Price	Description	Unit Price
Motor Oil (gal)	\$0.78/gal	Poison-Liquids (gal)	\$21.31/gal
Oil Filters (each)	\$0.72/ea	Poison-Solids (lb)	\$2.51/lb
Antifreeze (gal)	\$1.40/gal	Acids (gal)	\$21.90/gal
Latex Paint - Program Product (gal)	\$0.31/gal	Acids (lb)	\$2.58/lb
Latex Paint - Unlabeled or Leaking, Non-Program Product (gal)	\$2.97/gal	Aerosols (each)	\$1.70/ea
Flammable Paint - Program Product (gal)	\$0.77/gal	Flammable Liquids - Pourable (gal)	\$4.11/gal
Flammable Paint - Unlabeled or Leaking, Non-Program Product (gal)	\$4.11/gal	Flammable Liquids - Non-pourable (gal)	\$9.53/gal
Auto Batteries (each)	\$(5.11)/ea	Flammable Solids (lb)	\$9.98/lb
Household Batteries (lb)	\$2.61/lb	Oxidizers (lb)	\$2.98/lb
U-Tube Fluorescent & Circular Lamps (each)	\$1.32/ea	Oxidizers (gal)	\$25.35/gal
Fluorescent Tubes (ft.)	\$0.48/ft	Caustics (gal)	\$16.14/gal
Fluorescent Tubes 4 ft. (each)	\$1.37/ea	Caustics (lb)	\$1.90/lb
Fluorescent Tubes 8 ft. (each)	\$2.55/ea	Non-RCRA Waste - Liquids (gal)	\$1.64/gal
Compact Fluorescents, Metal Halide, Sodium Vapor, Halogen, & LED Lamps (each)	\$1.62/ea	Non-RCRA Waste - Solids (lb)	\$1.43/lb
Non-PCB Ballasts (lb)	\$1.00/lb	Sharps - Un-Rated Container (lb)	\$2.65/lb
Propane (1 gal)	\$1.19/ea	Sharps - Rated Container (lb)	\$1.06/lb
Propane (5 gal)	\$1.16/ea	Fire Extinguishers - Empty (each)	\$0.77/ea
Mercury (lb)	\$2.75/lb	Fire Extinguishers - Not Empty (each)	\$3.47/ea

HHW Admin Fee	\$13.38/load
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The new pricing is then published 30 days in advance before application to HHW or CESQG loads. Costs associated with Residential loads are charged to the Cities under contract, while CESQGs are charged at the time of delivery.

	A	B	C	D	E	F	G	H	I	J
1	CESQG									
2		Current Pricing			Proposed Pricing			Increase / (Decrease)		
3	2014	Total Cost	Avg Cost/Load	Admin Fee	Total Cost	Avg Cost/Load	Admin Fee	Total Cost	Avg Cost/Load	Admin Fee
4	July	\$ 4,515.60	\$ 107.51	\$ 29.15	\$ 9,692.11	\$ 230.76	\$ 13.12	\$ 5,176.51	\$ 123.25	\$ (16.03)
5	August	\$ 3,590.50	\$ 119.68		\$ 8,285.13	\$ 276.17		\$ 4,694.63	\$ 156.49	
6	September	\$ 4,927.90	\$ 112.00		\$ 10,327.31	\$ 234.71		\$ 5,399.41	\$ 122.71	
7	October	\$ 4,424.55	\$ 100.56		\$ 10,757.26	\$ 244.48		\$ 6,332.71	\$ 143.93	
8										
9	City of Elk Grove									
10		Current Pricing			Proposed Pricing			Increase / (Decrease)		
11	2014	Total Cost	Avg Cost/Load	Admin Fee	Total Cost	Avg Cost/Load	Admin Fee	Total Cost	Avg Cost/Load	Admin Fee
12	July	\$ 1,224.85	\$ 34.02	\$ 29.15	\$ 815.64	\$ 22.66	\$ 13.12	\$ (409.21)	\$ (11.37)	\$ (16.03)
13	August	\$ 888.10	\$ 35.52		\$ 771.46	\$ 30.86		\$ (116.64)	\$ (4.67)	
14	September	\$ 808.90	\$ 38.52		\$ 771.11	\$ 36.72		\$ (37.79)	\$ (1.80)	
15	October	\$ 752.70	\$ 32.73		\$ 532.87	\$ 23.17		\$ (219.83)	\$ (9.56)	
16			\$ 35.20		\$ 28.35					
17	City of Sacramento									
18		Current Pricing			Proposed Pricing			Increase / (Decrease)		
19	2014	Total Cost	Avg Cost/Load	Admin Fee	Total Cost	Avg Cost/Load	Admin Fee	Total Cost	Avg Cost/Load	Admin Fee
20	July	\$ 8,245.10	\$ 37.82	\$ 29.15	\$ 7,671.06	\$ 35.19	\$ 13.12	\$ (574.04)	\$ (2.63)	\$ (16.03)
21	August	\$ 9,024.15	\$ 41.02		\$ 8,802.29	\$ 40.01		\$ (221.86)	\$ (1.01)	
22	September	\$ 8,270.55	\$ 39.57		\$ 7,942.04	\$ 38.00		\$ (328.51)	\$ (1.57)	
23	October	\$ 9,055.05	\$ 39.89		\$ 8,486.29	\$ 37.38		\$ (568.76)	\$ (2.51)	
24			\$ 39.58		\$ 37.65					
25	City of Rancho Cordova									
26		Current Pricing			Proposed Pricing			Increase / (Decrease)		
27	2014	Total Cost	Avg Cost/Load	Admin Fee	Total Cost	Avg Cost/Load	Admin Fee	Total Cost	Avg Cost/Load	Admin Fee
28	July	\$ 1,727.55	\$ 37.56	\$ 29.15	\$ 1,674.98	\$ 36.41	\$ 13.12	\$ (52.57)	\$ (1.14)	\$ (16.03)
29	August	\$ 1,610.75	\$ 39.29		\$ 1,663.39	\$ 40.57		\$ 52.64	\$ 1.28	
30	September	\$ 1,646.40	\$ 39.20		\$ 1,528.11	\$ 36.38		\$ (118.29)	\$ (2.82)	
31	October	\$ 1,638.95	\$ 39.97		\$ 1,504.11	\$ 36.69		\$ (134.84)	\$ (3.29)	
32			\$ 39.00		\$ 37.51					
33										

- From \$70/load of Residential HHW to an average of \$28-\$38 per load. Includes PaintCare Savings!
- With change in how hours were allocated, CESQG pricing increased, while Residential HHW decreased.
- More fair share of costs across all customers!

Results

Since implementing **SacHazTracker** in 2012 there has been:

- A significant reduction in admin data entry hours for data entry, from 60+ hrs/yr to approximately 6. From ~\$2,800/yr to ~\$300/yr, or a savings of **\$2,500/yr.**
- Unassignable loads (unknowns) reduced from ~2,000/yr to ~1,000/yr. At an average of \$32/load, or a net benefit of **\$32,000/yr.**
- CESQGs paid an average of \$160/load in FY 15/16 vs. the \$110/load they were paying in the prior FY.

Fiscal Year	Loads	Unknown Addresses	Staff Hours (Data Entry)	Est. Cost for Data Verification
2012/13	12,795	1,081	6	\$300
2013/14	13,441	860	6	\$300
2014/15	13,961	858	6	\$350
2015/16	14,005	917	6	\$325





Questions?

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