

Used Oil/HHW Training &
Conference – April 9, 2015

Implementing a Successful Used Oil/ Filter Curbside Collection Program

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CAL POLY
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Learning Outcomes



After completing this workshop, participants will be better equipped to answer the following questions:

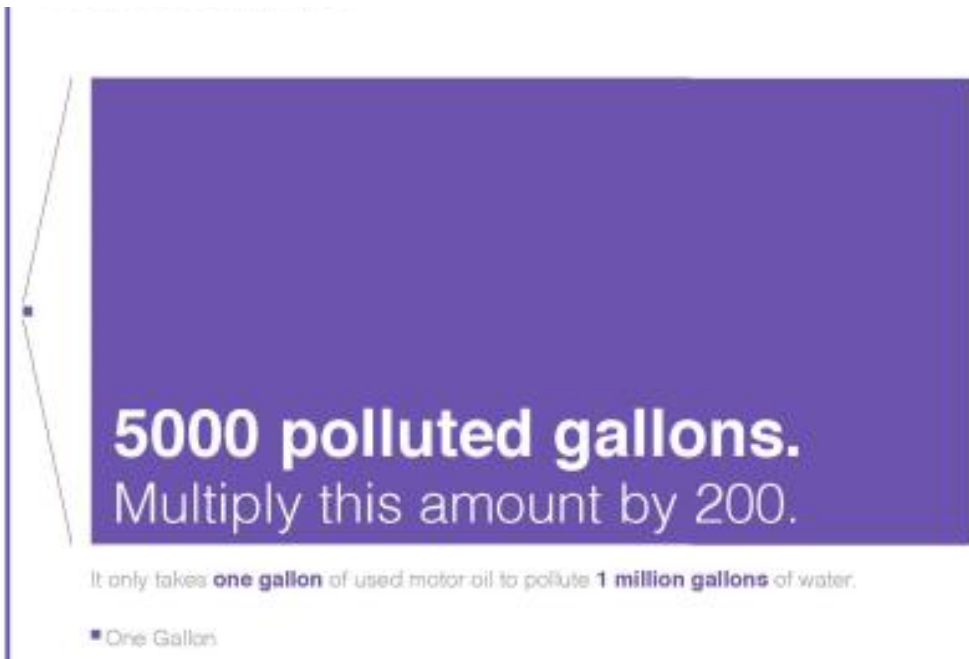
- What are the obstacles that impede implementation of a used oil/filter curbside collection program?
- What qualities and characteristics make a successful used oil/filter curbside collection program?
- What steps are involved in implementing a used oil/filter curbside collection program?

Outline of Workshop

- Introduction
 - Problem of improper disposal
 - Benefits of curbside collection (CC)
- Purpose and methodology of Cal Poly project
- Obstacles to implementation of used oil/filter CC - small group discussions
- Research findings to date (literature, survey, and interviews)
- Targeting Success - *Guidance for California Jurisdictions*
 - Overview of guidance document
 - Review selected section as example
- Wrap-up



Why Worry About Improper Disposal of Used Oil and Filters?



- Environmental damage
 - 1 gallon of oil can pollute 1 million gallons of water
- Loss of valuable resources
 - Used oil can be re-used
 - Filters contain recyclable oil and steel

Why Worry About Improper Disposal of Used Oil and Filters?

(continued)

- Estimated improper disposal by DIYers in 2003-04
 - nearly 14 million gallons of used oil (44% of oil consumed)
 - Between 10-24 million used filters (41-96% of filters disposed), each containing more than 10 ounces of used oil



Source: Public Research Institute, San Francisco State University (SFSU), 2005

Why Curbside Collection of Used Oil and Filters?

In collecting used oil and oil filters -

convenience for the DIYer is critical

- and curbside collection is almost as convenient as throwing used oil and filters in the trash!



Curbside collection and collection at drop-off centers (including certified collection centers) are complementary, but curbside collection is typically more convenient

Why Curbside Collection of Used Oil and Filters?

Findings from SFSU report (2005)



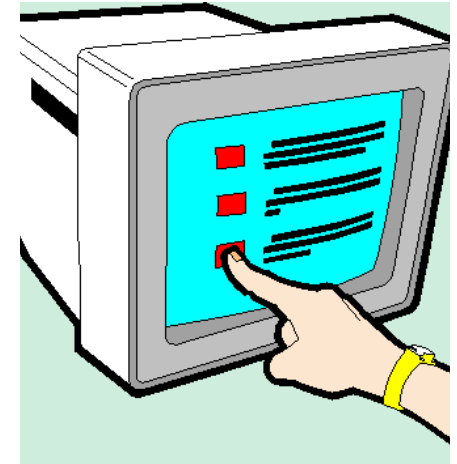
- Making curbside collection widely available reduces the rate of improper disposal more than making collection at drop-off centers (including certified collection centers) very convenient
- Because of the high level of convenience it offers, “curbside collection ... can reduce improper disposal to zero where it is widely available”

Cal Poly Study

- **PURPOSE:** To identify the obstacles facing local jurisdictions in implementing a successful and sustainable used/filter curbside collection program
- **PRODUCT:** A list of qualities or characteristics that would make a jurisdiction more likely to be successful in implementing a used oil/filter curbside collection program
- **DISSEMINATION:** Results to be shared widely throughout California in the hope of fostering the establishment of new programs and increased participation in existing programs

Methodology

- Literature review
- Online survey of local jurisdictions
- Follow up / interviews
- Analysis of demographics
- Preparation of report and training/support materials
- Provision of training/support



Small Group Discussion – Jurisdictions with Existing Used Oil/Filter Curbside Collection

- First, individually jot down a list of up to 5 obstacles your jurisdiction has had to overcome or still faces in implementing a used oil/filter curbside collection program
- Then, join a small group to discuss obstacles identified on your and other participants' lists, and ways of overcoming them



Small Group Discussion – Jurisdictions without Existing Used Oil/Filter Curbside Collection



- First, individually jot down a list of up to 5 obstacles you believe your jurisdictions would face in implementing a used oil/filter curbside collection program at this time
- Then, join a small group to discuss obstacles identified on your and other participants' lists, and ways of overcoming them

Findings to Date - Survey & Interviews

- Purpose
- Types of questions
- Numbers
 - About 240 surveyed
 - 141 completed responses
 - Follow-up interviews with more than 20 jurisdictions



Obstacles – Real or Perceived

Most broadly cited or observed

- Frame of mind
- Costs anticipated to be too high
- Fear of spills/environmental damage and/or of rainfall contaminating the oil
- Quantities for collection anticipated to be too low
- Resistance from haulers
- Perception that CC doesn't make sense in a dispersed rural community



Obstacles – Real or Perceived

Less broadly cited or observed

- Inertia
- Perception that “majority of jurisdictions with curbside have low success ratings”
- Administrative burden anticipated to be too high
- Perception that existing drop-off centers (certified collection centers, ABOPs, etc.) are convenient and adequate without adding CC program
- “No companies proposed oil collection when we put out an RFP” (for renewed garbage collection) - “it is not a priority for our jurisdiction”
- “Not aware of significant illegal disposal”
- “Very little demand from citizens”
- Belief that collecting curbside would be at expense of certified collection centers
- More demand for HHW program than for used oil/filter program
- Perception that certified collection centers collect much more oil than curbside despite extensive CC advertising

Key Elements of Successful CC Programs



- Leadership
- Frame of mind
- Networking
- Features
 - Willingness of hauler to participate
 - At least break even financially
 - Simplicity, convenience, and normalcy for households
 - Effective outreach

Findings to Date – Demographic Analysis

- Purpose
- Regression analysis
- Vector analysis

Table 1: Top 30 Jurisdictions without outside collection programs

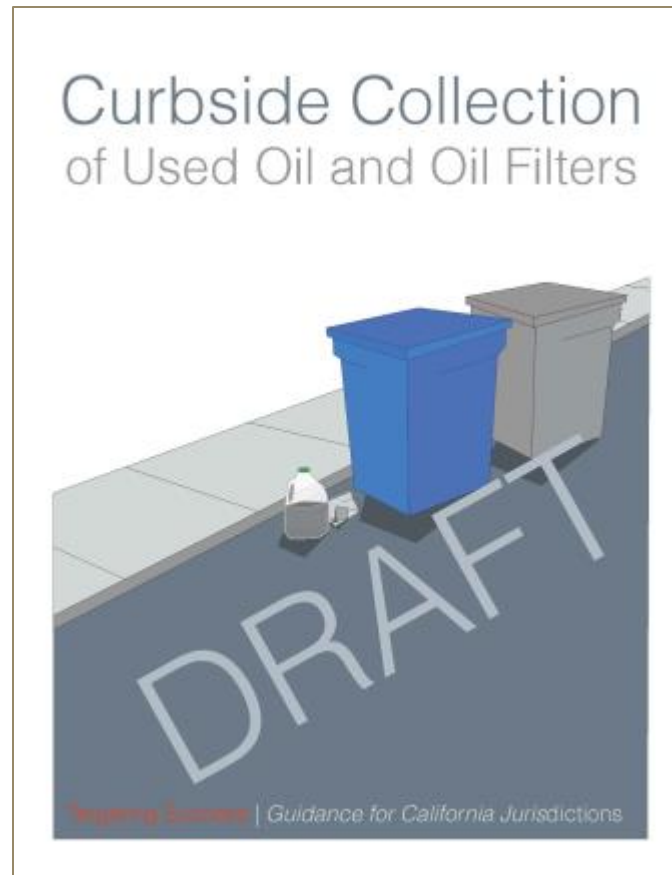
Rank	Jurisdiction	D	Rank	Jurisdiction	D
145	City of San Buenaventura (Ventura)	0.9040551	145	City of San Buenaventura (Ventura)	1.061752
172	City of Upland	0.8926853	172	City of Upland	1.096708
218	Santa Barbara County	0.9039356	183	City of Whittier	1.122252
231	Ventura County	1.0773014	115	City of Oceanside	1.175685
115	City of Oceanside	1.1025442	70	City of Glendora	1.314561
183	City of Whittier	1.1100043	151	City of San Marcos	1.498284
70	City of Glendora	1.2131339	44	City of Covina	1.794393
151	City of San Marcos	1.3811055	177	City of Vista	1.853533
27	City of Camarillo	1.5004821	47	City of Cypress	1.901475
177	City of Vista	1.7384042	87	City of Lake Forest	1.955925
44	City of Covina	1.7871921	112	City of Novato	2.031741
47	City of Cypress	1.8337008	215	San Joaquin County	2.084472
112	City of Novato	1.8765578	117	City of Ontario	2.189855
87	City of Lake Forest	1.9256237	82	City of La Mirada	2.346490
215	San Joaquin County	2.0406067	134	City of Rancho Cucamonga	2.414569
117	City of Ontario	2.1728759	88	City of Lakewood	2.421898
88	City of Lakewood	2.2027874	163	City of Simi Valley	2.526919
180	City of West Covina	2.2126679	125	City of Pico Rivera	2.536237
82	City of La Mirada	2.2424996	93	City of Longoc	2.569316
134	City of Rancho Cucamonga	2.3817944	131	City of Pomona	2.569567
30	City of Carson	2.4589535	218	Santa Barbara County	2.618101
105	City of Montebello	2.4646391	159	City of Santa Paula	2.637363
131	City of Pomona	2.4677617	50	City of Dixon	2.644500
154	City of Santa Barbara	2.4878807	51	City of Downey	2.763386
163	City of Simi Valley	2.5029012	6	City of Anaheim	3.018190
93	City of Longoc	2.5037942	231	Ventura County	3.056965
125	City of Pico Rivera	2.5167952	105	City of Montebello	3.061101
159	City of Santa Paula	2.5440996	169	City of Torrance	3.062477
132	City of Poway	2.5901084	89	City of Lancaster	3.068408
50	City of Dixon	2.5951581	119	City of Oxnard	3.185766

Table 2: Top 30 Jurisdictions without outside collection programs

Rank	Jurisdiction	D	Rank	Jurisdiction	D
70	City of Glendora	0.7986271	183	City of Whittier	0.9146412
231	Ventura County	0.8076655	70	City of Glendora	1.033524
183	City of Whittier	0.8363388	87	City of Lake Forest	1.0651065
87	City of Lake Forest	0.9454396	163	City of Simi Valley	1.1748936
27	City of Camarillo	0.9726006	82	City of La Mirada	1.2877926
163	City of Simi Valley	1.0827886	88	City of Lakewood	1.3064458
172	City of Upland	1.1489905	145	City of San Buenaventura (Ventura)	1.3972397
88	City of Lakewood	1.2314663	44	City of Covina	1.4532042
82	City of La Mirada	1.2497494	115	City of Oceanside	1.5086915
115	City of Oceanside	1.2961503	172	City of Upland	1.5411640
145	City of San Buenaventura (Ventura)	1.3563027	134	City of Rancho Cucamonga	1.5426369
134	City of Rancho Cucamonga	1.3833527	50	City of Dixon	1.6630628
44	City of Covina	1.3903019	47	City of Cypress	1.9193952
50	City of Dixon	1.5022997	231	Ventura County	2.283171
132	City of Poway	1.7126027	132	City of Poway	2.3375080
47	City of Cypress	1.7155022	117	City of Ontario	2.4093736
218	Santa Barbara County	1.7792104	215	San Joaquin County	2.6780236
180	City of West Covina	2.1362318	125	City of Pico Rivera	2.831316
30	City of Carson	2.1636740	112	City of Novato	2.8348412
117	City of Ontario	2.3192987	168	City of Thousand Oaks	2.840774
112	City of Novato	2.4518745	218	Santa Barbara County	2.8904489
215	San Joaquin County	2.4589351	51	City of Downey	3.0267471
151	City of San Marcos	2.5775991	23	City of Brentwood	3.0652500
125	City of Pico Rivera	2.7802889	151	City of San Marcos	3.1480880
119	City of Oxnard	2.9080488	119	City of Oxnard	3.1983845
177	City of Vista	2.9278674	177	City of Vista	3.2126572
23	City of Brentwood	2.9300065	159	City of Santa Paula	3.3292420
16	City of Beaumont	2.9346124	89	City of Lancaster	3.3535852
168	City of Thousand Oaks	2.9408046	93	City of Longoc	3.3541167
51	City of Downey	2.9732932	16	City of Beaumont	3.3701498

Targeting Success

Guidance for California Communities



Targeting Success

Draft Table of Contents



Table of Contents

- Purpose
- Why is This Important?
 - Importance of Preventing Improper Disposal
 - Superiority of Curbside Over Collection Centers + Other Considerations
- Steps Toward Implementing a Curbside Used Oil/Filter Collection Program
 - (01) Determine if Your Jurisdiction is a Good Candidate
 - (02) Identify Individual(s) Who will Lead Recycling Efforts
 - (03) Decide on Goals and Objectives
 - (04) Develop Support for Implementing Program
 - (05) If Private Hauler(s) Used, Contact to Discuss
 - (06) Determine Appropriate Program Elements for Your Jurisdiction
 - (07) Decide on Outreach Strategy
 - (08) Consider Community Based Social Marketing
 - (09) How will the Program be Financed?
 - (10) Address Legal and Administrative Requirements
 - (11) Ensure Your Program will be Sustainable
- Additional Information
 - Glossary + List of Acronyms
 - Notes Page

- Purpose
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Targeting Success

Draft Table of Contents (continued)

- Steps Toward Implementing a Used Oil/Filter Curbside Collection Program
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Targeting Success – Sample (Draft)

Determine if Your Jurisdiction is a Good Candidate

- Is there evidence to suggest that improper disposal of used oil and/or filters is a significant problem in your jurisdiction?
- Does the jurisdiction have demographic characteristics similar to those of jurisdictions currently offering successful programs and/or are there other jurisdictions nearby running successful programs?
- Are there populations - especially those living in single-family residences - that are not well served by drop-off centers?
- Is curbside collection of garbage (and possibly recyclables) already offered in all or some areas of your jurisdiction?

Next Steps

- Complete *Targeting Success* document and video
 - *Your input welcomed*
- Conduct workshops in northern, central, and southern regions of the state
 - *Let us know if your jurisdiction would welcome an invitation*
- Provide additional assistance/support as requested



For More Information or Support, and/or To Request an Invitation to a Workshop

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