

# Adams County Household Chemical Roundup Program

2009 Annual Report

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## Executive Summary

The Adams County Household Chemical Roundup Program serves the residents of Adams County, including the Cities of Brighton, Commerce City, Federal Heights, and Thornton, by providing an opportunity for the disposal of hazardous chemicals from their homes in a safe, legal, and environmentally-sound manner. This provides an outlet for wastes that might otherwise end up in our creeks, stormwater systems, sanitary sewers, and septic systems, or be disposed of illegally on others' property. Removing these products from residents' homes also reduces the potential for accidental poisoning. Throughout the year, the Household Chemical Roundup Program provides information to the public about ways to reduce the generation of household hazardous waste, including ways to recycle and dispose of items that should not be poured down the drain or put in the trash. The Adams County Household Chemical Roundup Program is operated by the Tri-County Health Department under contract to sponsoring jurisdictions including Adams County, the Cities of Brighton, Commerce City, Federal Heights, and Thornton.

In 2009, the Program operated two Household Chemical Roundups. The Household Chemical Roundups are one-day events where household hazardous wastes are collected from homeowners in Adams County. A total of 832 vehicles participated in the Roundups, collecting waste from an estimated 957 households. Over 34 tons of hazardous materials were collected, including 2,580 gallons of hazardous liquids (oil, antifreeze, flammable liquids, and reactive chemicals), 5,833 pounds of pesticides, 65 pounds of mercury-containing devices, and over 20 tons of paint and paint products. An additional 324 tires, 249 gas cylinders, 163 automotive batteries, and 19,512 pounds of electronic waste were also recycled.

The 2009 Adams County Household Chemical Roundup Program incurred \$107,543.52 in expenses which includes a \$46,881.38 disposal cost for hazardous and non-hazardous waste from the two events. Total program cost per participating household for the 2009 Adams County Household Chemical Roundup season was \$100.82. The cost to sponsoring jurisdictions was also offset by participants' donations of \$10,081.70 (about \$12.12 per vehicle) and a contribution of \$1,000 from Tetra Tech Inc.

The Program's success is dependent on the support of numerous agencies, corporations, and individuals. Sponsoring agencies included the Cities of Brighton, Commerce City, Federal Heights, Thornton, and Adams County. The following organizations also contributed significant resources to the Program: Hyland Hills Park and Recreation District, Metro Wastewater Reclamation District, South Adams County Water and Sanitation District, Tetra Tech Inc., and Starbucks Coffee Company. Please thank them for their contribution to the Program.

The Tri-County Health Department looks forward to operating the Adams County Household Chemical Roundup Program again in 2010, and will strive to continue offering high-quality services to its citizens in the most efficient manner possible.

### *Attachments:*

- *A. Participation Summary*
- *B. Waste Collection Summary*
- *C. Financial Statement*

## Attachment A. Participation Summary

A total of 832 vehicles participated in the Household Chemical Roundups, collecting waste from an estimated 957 households. (It is estimated that each vehicle brings wastes from 1.15 households.) A complete list of how many households participated (per sponsoring jurisdiction) is presented in Figure 1 below. Figure 2 shows annual participation at the Household Chemical Roundup events from 2000 – 2009.

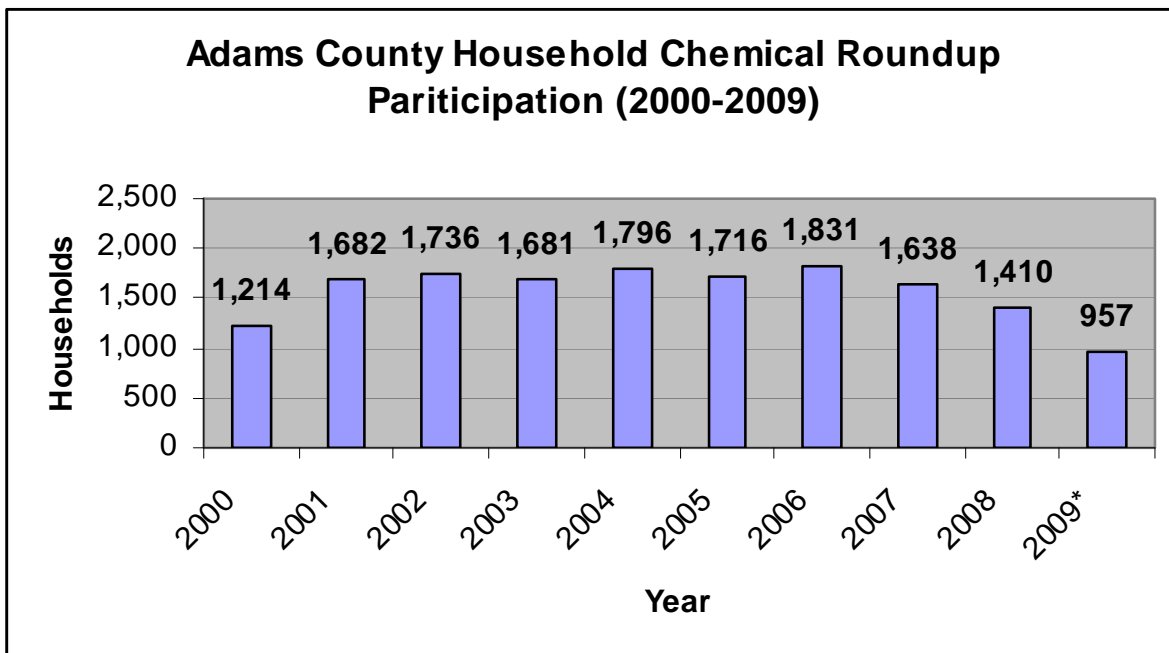
Figure 1. Participation Summary

| Participating Households              | 2007         | 2008         | 2009*      | Water World 2009 | Thornton IMC 2009 |
|---------------------------------------|--------------|--------------|------------|------------------|-------------------|
| Adams County                          | 424          | 343          | 266        | 84               | 182               |
| Brighton                              | 135          | 137          | 98         | 31               | 67                |
| Commerce City                         | 84           | 104          | 70         | 27               | 43                |
| Federal Heights                       | 70           | 50           | 36         | 28               | 8                 |
| Northglenn**                          | 406          | 270          | N/A        | N/A              | N/A               |
| Thornton                              | 496          | 494          | 469        | 144              | 325               |
| Other                                 | 23           | 12           | 18         | 7                | 11                |
| <b>Total Participating Households</b> | <b>1,638</b> | <b>1,410</b> | <b>957</b> | <b>321</b>       | <b>636</b>        |

\*Only two events were held in 2009. Three events were held in 2007 and 2008.

\*\*City of Northglenn was not a sponsoring jurisdiction in 2009. As a result, Northglenn residents were ineligible to participate in the 2009 events.

Figure 2. Household Chemical Roundup Participation (2000-2009)



\*Only 2 events were held in 2009. Three events were held all other years.

## Attachment B. Waste Collection Summary

Over 34 tons of hazardous materials were collected at the Roundup events in 2009, including 2,580 gallons of hazardous liquids (oil, antifreeze, flammable liquids, and reactive chemicals), 5,833 pounds of pesticides, 65 pounds of mercury-containing devices, and over 20 tons of paint and paint products. An additional 324 tires, 249 gas cylinders, 163 automotive batteries, and 19,512 pounds of electronic waste were also recycled.

Figure 3. Waste Collection Summary

| Waste Type   | Unit        | Water World 2009 | Thornton IMC 2009 | 2009 Total    |
|--|-------------|------------------|-------------------|---------------|
| Acids  | Gal.        | 93               | 63                | 156           |
| Aerosol Cans   | Lbs.        | 650              | 950               | 1,600         |
| Antifreeze   | Gal.        | 110              | 160               | 270           |
| Bases/Caustics                                       | Gal.        | 56               | 94                | 150           |
| Flammable Materials (liquids)                        | Gal.        | 34               | 440               | 474           |
| Flammable Materials (solids)                         | Lbs.        | 0                | 5                 | 5             |
| Mercury  | Lbs.        | 5                | 60                | 65            |
| Paint Products*                                      | Lbs.        | 13,525           | 27,950            | 41,475        |
| Pesticides/Herbicides (liquids)                      | Gal.        | 169              | 406               | 575           |
| Pesticides/Herbicides (solids)                       | Lbs.        | 531              | 700               | 1,231         |
| Toxic chemicals n.o.s.** (solids)                    | Lbs.        | 137              | 155               | 292           |
| Used Motor Oil                                       | Gal.        | 710              | 820               | 1,530         |
| Scrap Metal  | Lbs.        | 200              | 200               | 400           |
| Gas Cylinder   | Each        | 73               | 176               | 249           |
| Tires  | Each        | 66               | 258               | 324           |
| Vehicle Batteries                                    | Each        | 52               | 111               | 163           |
| Electronic Waste                                     | Lbs.        | 3,922            | 15,590            | 19,512        |
| <b>Total Waste Collected (Excluding Latex Paint)</b> | <b>Lbs.</b> | <b>10,898</b>    | <b>25,435</b>     | <b>36,333</b> |
| <b>Total Waste Collected***</b>                      | <b>Lbs.</b> | <b>22,148</b>    | <b>45,685</b>     | <b>67,833</b> |

\*Quantity for 2009 is based off an estimation of 450 lbs/cuyd

\*\*n.o.s. - not otherwise specified

\*\*\*Waste totals do not include gas cylinders, tires, vehicle batteries, or electronic waste.

## Attachment C. Financial Statement

Financial information for the 2009 Adams County Household Chemical Roundup Program is summarized below. The statement reflects expenses incurred by the Tri-County Health Department from November 1, 2008 through October 31, 2009.

| <b>ADAMS COUNTY HOUSEHOLD CHEMICAL<br/>ROUNDUP PROGRAM</b> |                     |
|--|---------------------|
| <b>FY 2009 EXPENSE AND REVENUE SUMMARY</b>                 |                     |
| <b>REVENUES</b>  |                     |
| Adams County   | \$ 27,153.07        |
| Brighton   | \$ 10,225.88        |
| Commerce City  | \$ 7,443.33         |
| Federal Heights  | \$ 3,965.14         |
| Thornton   | \$ 47,674.40        |
| Tetra Tech Inc.  | \$ 1,000.00         |
| Participant Donations (Water World)                        | \$ 3,232.00         |
| Participant Donations (Thornton IMC)                       | \$ 6,849.70         |
| <b>TOTAL REVENUES</b>                                      | <b>107,543.52</b>   |
| <b>EXPENSES</b>  |                     |
| <b>Wages + Benefits</b>                                    | <b>\$ 40,906.96</b> |
| <b>Operating Expenses and Supplies</b>                     |                     |
| Postage  | \$ -                |
| Equipment Rental   | \$ 730.80           |
| Local Travel   | \$ 537.35           |
| Vehicle Maintenance and Repairs                            | \$ 84.71            |
| Vehicle Gas & Oil  | \$ 274.89           |
| Staff Education  | \$ 16.67            |
| Membership and License Fees                                | \$ 75.00            |
| Subscriptions  | \$ 100.00           |
| Printing, Out Side   | \$ 2,938.32         |
| Publicity  | \$ 262.01           |
| Cell Phone   | \$ 113.33           |
| Business Meetings  | \$ 1,203.62         |
| Environmental Supplies                                     | \$ 1,106.35         |
| Office Supplies  | \$ 13.33            |
| <b>Subtotal Expenses and Supplies</b>                      | <b>\$ 7,456.38</b>  |
| <b>Services</b>  |                     |
| Hazardous Waste Disposal (Water World)                     | \$ 17,561.41        |
| Hazardous Waste Disposal (Thornton IMC)                    | \$ 26,413.47        |
| Waste & Records Disposal                                   | \$ 2,644.00         |
| Legal  | \$ 262.50           |
| Laboratory Analysis  | \$ -                |
| General  | \$ -                |
| <b>Subtotal Services</b>                                   | <b>\$ 46,881.38</b> |
| <b>Indirect</b>  | <b>\$ 12,298.80</b> |
| <b>TOTAL EXPENSES</b>                                      | <b>107,543.52</b>   |
| <b>NET (REVENUES - EXPENSES)</b>                           | <b>\$ -</b>         |