

RESOLUTION NO. \_\_\_\_\_

A RESOLUTION AUTHORIZING THE ADMINISTRATOR FOR THE DEPARTMENT OF PUBLIC WORKS TO APPLY FOR, AND IF AWARDED, ACCEPT A REIMBURSABLE HOUSEHOLD HAZARDOUS WASTE OPERATION AND MAINTENANCE GRANT FROM THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION TO OPERATE THE HOUSEHOLD HAZARDOUS WASTE FACILITY FOR UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000.00), IN ADDITION TO ACCEPTING A GRANT TO PURCHASE RECOMMENDED UPGRADES, IN THE AMOUNT OF TWENTY-FOUR THOUSAND THREE HUNDRED THIRTY-TWO AND 60/100 DOLLARS (\$24,332.60).

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BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, TENNESSEE, That the Administrator for the Department of Public Works is hereby authorized to apply for, and if awarded, accept a reimbursable Household Hazardous Waste Operation and Maintenance Grant from the Tennessee Department of Environment and Conservation to operate the household hazardous waste facility for up to \$100,000.00, in addition to accepting a grant to purchase recommended upgrades, in the amount of \$24,332.60.

ADOPTED: \_\_\_\_\_, 2015

/mem

# City of Chattanooga



## Resolution/Ordinance Request Form

Date Prepared: 10/27/2015

Preparer: Jason Silvers

Department: Public Works

Brief Description of Purpose for Resolution/Ordinance: Res./Ord. # \_\_\_\_\_ Council District # \_\_\_\_\_

A resolution to authorize the Administrator of the Department of Public Works to apply for and, if awarded, accept a reimbursable Household Hazardous Waste Operation and Maintenance Grant from the Tennessee Department of Environment and Conservation to operate the household hazardous waste facility for up to \$100,000.00 in addition to accepting a grant to purchase recommended upgrades in the amount of \$ 24,332.60.

Name of Vendor/Contractor/Grant, etc.	<u>State of Tennessee</u>	New Contract/Project? (Yes or No)	_____
Total project cost \$	<u>124,333</u>	Funds Budgeted? (YES or NO)	<u>No</u>
Total City of Chattanooga Portion \$	<u>0</u>	Provide Fund #	<u>6020</u>
City Amount Funded \$	<u>0</u>	Provide Cost Center	<u>124102</u>
New City Funding Required \$	<u>0</u>	Proposed Funding Source if not budgeted	_____
City's Match Percentage %	<u>0%</u>	Grant Period (if applicable)	<u>1/1/2016 thru 12/31/2016</u>

List all other funding sources and amount for each contributor.

<u>Amount(s)</u>	<u>Grantor(s)</u>
\$124,332.60	State of Tennessee, Tennessee Department of Environment and Conservation
\$	_____
\$	_____

Agency Grant Number \_\_\_\_\_

CFDA Number if known \_\_\_\_\_

Other comments: (Include contingency amount, contractor, and other information useful in preparing resolution)

Approved by:   
DESIGNATED OFFICIAL/ADMINISTRATOR

Reviewed by: FINANCE OFFICE

Please submit completed form to @budget, City Attorney and City Finance Officer

Revised: October, 2011



STATE OF TENNESSEE  
 DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
 Division of Solid Waste Management  
 312 Rosa L. Parks Avenue, 14<sup>th</sup> Floor  
 Nashville, TN 37243

**GRANT APPLICATION**

- RECYCLING EQUIPMENT       USED OIL       WASTE REDUCTION       OTHER: HMW OPERATION AND MAINTENANCE

Return Application to Above Address

APPLICANT INFORMATION:

Name of Agency/Organization: City of Chattanooga  
 Address: 900 E 10th St  
Chattanooga, TN 37403

Name and telephone number of person responsible for all grant activities (i.e. bidding, purchasing):

Name: Joan Silver  
 Telephone: (423) 643-6845  
 Fax Number: (423) 643-6876  
 FEIN#: \_\_\_\_\_

TYPE OF ORGANIZATION:

- County  
 Municipality  
 Solid Waste Authority  
 Planning Region  
 For-Profit Organization  
 Corporation  
 Proprietorship  
 Partnership  
 Not-for-Profit Organization  
 Other (please specify) \_\_\_\_\_

FOR NON PROFIT ORGANIZATIONS:

Chartered in Tennessee Yes [ ] No [ ]  
 Date of Charter: \_\_\_\_\_  
 IRS Classification: \_\_\_\_\_  
 Attach a copy of approval letter for charter or  
 501(c) (3) exemption.

To the best of my knowledge and belief, all data in this application are true and correct. The document has been duly authorized by the governing body of the applicant.

Print or Type Name of Authorized Representative

Signature

Telephone: \_\_\_\_\_

Title

Date

E-Mail Address (required if available)

Form 226

3. Describe your plan for funding the continuation of the program or funding those costs not fully funded by the grant. Identify sources of revenue, such as CESQG fees, out of county resident fees, tax revenue, tipping fee revenue, etc. *See attachment*
4. Applicants requesting funding for facility improvements and equipment purchases should establish a maintenance plan and a capital improvement fund to replace the equipment at the end of its useful life. Describe your plan and schedule for maintenance of the facility and equipment and for establishing a capital improvement fund for maintenance, repair, or replacement of the equipment and facility. *See attachment*
5. What is the plan for evaluating the implementation and outcome of the proposed project and who is the person responsible for performing the evaluation? *See attachment*

Narrative Prepared by: Juan Silva

Name of Preparer's Organization: City of Chattanooga

Telephone: (423) 643-6845

E-mail address: jsilva@chattanooga.gov

Quote Acknowledgement Print



**Watco Industrial Flooring Inc.**  
 11 Hawthorn Parkway  
 Vernon Hills, IL 60061  
 Tel: 1.855.627.6350 Fax: 1.855.627.6351  
 www.watcofloors.com Email: info@watcofloors.com

<u>Quote No.</u> SQ-17277	
<u>Date</u> 10/2/2015	<u>Customer Number</u> 030864
<u>Agent Code</u> LLEN	

Email: jelliver@chattanooga.gov  
Fax: 423-843-8845

Invoice Address  
 City of Chattanooga  
 900 E 11Th St

Delivery Address  
 City of Chattanooga  
 900 E 11Th St

Chattanooga  
 TN  
 37403

Chattanooga  
 TN  
 37403

<u>Payment Terms</u> To be confirmed	<u>Due Date</u> To be confirmed	<u>Your Reference</u>	<u>Contact Name</u> WIR SILVER
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Item Number	Description	Quantity	Unit Price	Total						
C250584	Safety Coat Plus® - Silver Gray 50 sq. ft. kit	1 Each	150.00	150.00						
F260001	Camletch® Acid Etch - 1 gal.	1 Each	39.00	39.00						
F230013	Bio-D Floor Degreaser 1.3 gal 1.3 GAL	1 Each	25.80	25.80						
<table border="0" style="width: 100%;"> <tr> <td style="text-align: right;"><u>Goods Total:</u></td> <td style="text-align: right;">\$214.80</td> </tr> <tr> <td style="text-align: right;"><u>Tax Amount:</u></td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td style="text-align: right;"><u>Quote Total:</u></td> <td style="text-align: right;">\$214.80</td> </tr> </table>				<u>Goods Total:</u>	\$214.80	<u>Tax Amount:</u>	\$0.00	<u>Quote Total:</u>	\$214.80	
<u>Goods Total:</u>	\$214.80									
<u>Tax Amount:</u>	\$0.00									
<u>Quote Total:</u>	\$214.80									



1780 Corporate Drive  
 Norcross, GA 30093-2958  
 LOCAL: 470-362-7016  
 TOLL FREE: (800) 532-0435  
 FAX: 470-362-7018  
 www.argus-hazco.com

October 19, 2015

Quote Number: CITCHA101915MW-08062495  
 Customer: 1018992

Jason Silvers  
 Phone: 423-643-6845  
 City Of Chattanooga Public Wks  
 900 E 11th St  
 Chattanooga, TN 37403-3203  
[jsilvers@chattanooga.gov](mailto:jsilvers@chattanooga.gov)

Jason:

Thank you for your interest in Argus-Hazco. Argus-Hazco provides the experience, expertise and equipment required to help solve your specific industrial-hygiene, environmental, respiratory, sampling, monitoring, confined-space and safety challenges. This quote contains information about the products and services requested:

Number	Description	Qty	UOM	Unit Price	Ext Price
RKI72-2102RK	BEACON 200 CONTROLLER	1	EA	\$2495.00	\$2495.00
RKI61-1000RK	REMOTE MOUNT LEL SENSOR	1	EA	\$550.00	\$550.00
RKI65-2515RK	SENSOR O2 EXPLOSION PROOF W/I-BOX	1	EA	\$495.00	\$495.00
RKI61-1000RK-04	SENSOR LEL W/EXPLOSION PROOF J-BOX CAL ADAPTER/SPL GRD	1	EA	\$400.00	\$400.00
RKI52-0005RK	RKI HORN FEDERAL SIGNAL 350- WBX CLASS 1 DIV 2	1	EA	\$685.00	\$685.00
RKI51-0030RK	RKI STROBE LIGHT RED 115VAC EDWARDS IOSTNR-N5 CLASS1 D2	1	EA	\$865.00	\$865.00

Merchandise Total: \$3770.00

Argus-Hazco has solutions to your needs, both simple and complex. We look forward to working with you on your Sales, Rental, Repair, or Consultation needs. This quote is valid for 30 Days and is subject to Availability and Prior Credit Approval. THIS IS ONLY QUOTE FOR MERCHANDISE AND SERVICES. THIS QUOTE DOES NOT INCLUDE ANY FREIGHT CHARGES OR APPLICABLE TAXES.

Terms: Net 30 Days  
 F.O.B.: Shipping Point  
 Freight Terms: Prepay & Add  
 Delivery: 4 Weeks  
 Expiration Date: 30 Days

If you have any questions please give me a call.

Sincerely,  
 USD - HOUSE ACCOUNTS

Account Executive



422 ALEXANDERSVILLE RD  
 WYATTSBURG, OH 45342-3658  
 LOCAL: 937-824-4400  
 TOLL-FREE: (800) 332-0435  
 FAX: 937-824-4444  
 www.argus-hazco.com

October 19, 2015

Quote Number: 01006137  
 Customer: 1020881

Jason Silvers  
 Phone: 423-643-6845  
 City Of Chattanooga  
 900 E 11th St  
 Chattanooga, TN 37403-3203

Jason Silvers:

Thank you for your interest in Argus-Hazco. Argus-Hazco provides the experience, expertise and equipment required to help solve your specific industrial-hygiene, environmental, respiratory, sampling, monitoring, confined-space and safety challenges. This quote contains information about the products and services requested:

Number	Description	Qty	UOM	Unit Price	Ext Price
ELEC-LABOR	LABOR AND PARTS FOR ARGUS-HAZCO'S ELECTRICIANS (RMW) TO MOUNT, PROGRAM, AND TERMINATE A GAS DETECTION SYSTEM FOR CITY OF CHATTANOOGA IN TN. SYSTEM CONSISTS OF BEACON 110, O2 SENSOR AND LEL SENOR. ARGUS-HAZCO'S ELECTRICIAN WILL ASSIST IN TESTING AND CALIBRATING SYSTEM. ARGUS-HAZCO'S ELECTRICIAN WILL ABSORB ALL THEIR EXPENSES (HOTEL, FOOD, TRAVEL, ETC) FOR THIS PRICE. THIS PRICE IS FOR 2 PEOPLE FOR AN ESTIMATE 2 DAYS ON SITE	1	EA	\$10238.00	\$10238.00
LABOR-FIELD	LABOR AND PARTS FOR ARGUS-HAZCO'S EMPLOYEE TO ASSIST ELECTRICIAN AND MOUNT, PROGRAM, AND TERMINATE, CALIBRATE, AND TEST GAS DETECTION SYSTEM. ARGUS-HAZCO MANUFACTURE'S RECOMMENDATIONS. ARGUS-HAZCO WILL TEST ALL RELAYS, LIGHTS, AND ALARMS USING RELAY LOGIC. ARGUS-HAZCO WILL PROVIDE ON-SITE TRAINING TO CITY OF CHATTANOOGA. ARGUS-HAZCO'S WILL ABSORB ALL THEIR EXPENSES (HOTEL, FOOD, TRAVEL, ETC) FOR THIS PRICE. THIS PRICE IS FOR 2 PEOPLE FOR AN ESTIMATE 2 DAYS ON SITE	1	EA	\$2800.00	\$2800.00

Merchandise Total: \$13038.00

**Notes:**

- Installations will be performed at City of Chattanooga in TN.
- If any information given to Argus-Hazco by the City of Chattanooga was incorrect, the City of Chattanooga may be charged for the additional parts and \$95 per hour/per person labor rate to correct the problem.
- Argus-Hazco can work 7:30 AM to 3:30 PM Monday through Friday.
- The equipment and the installation have to be explosion proof.
- The City of Chattanooga is responsible for providing a safe work environment for the installation.
- There will be no lifts that are required for installation.

- Argus-Hazco's electrician will supply any ladders that are required.
- Argus-Hazco's electrician will supply explosion proof enclosure for the Beacon 200.
- If there are any additional requirements dictated by the City of Chattanooga at the time of installation, or if there is any additional equipment required to make the system operational, the City of Chattanooga may be charged for the additional parts and \$95 per hour/per person labor rates.
- The City of Chattanooga will supply clear access to work areas.
- There will be no training classes that Argus-Hazco must attend.
- The wire from the controller to the each transmitter will be 4 conductor, 18 gauge, shielded.
- New lights and horns will be 120VAC. Light will activate at low alarm. Horn will activate at high alarm.
- Transmitter 1 (O2) will be less than 10 feet from the Beacon 200.
- Transmitter 2 (LEL) will be less than 20 feet from the Beacon 200.
- 11VAC audible will be less than 20 feet from the Beacon 200.
- 110VAC light will be less than 20 feet from the Beacon 200.
- The City of Chattanooga will provide 120 VAC 20AMP isolated breaker in their power panel for system. Argus-Hazco electrician will pull all conduit and wire from the breaker to control panel. Power panel will be inside concrete building and does not require explosion proof outside the building. There will be one cinder block wall the Argus-Hazco electrician will need to drill through. Power panel is no more than 15 feet from where the control panel.
- Conduit will be 1/2" or 3/4 rigid.

Argus-Hazco has solutions to your needs, both simple and complex. We look forward to working with you on your Sales, Rental, Repair, or Consultation needs. THIS IS ONLY A QUOTE FOR MERCHANDISE AND SERVICES. THIS QUOTE DOES NOT INCLUDE ANY FREIGHT CHARGES OR APPLICABLE TAXES. Please verify all below information: including Tax Status for Ship To Address. If the Tax Status is Non-Taxable, you MUST INCLUDE a Copy of the State specific Tax Certificate.

Terms: To Be Determined  
 F.O.B.: Shipping Point  
 Expiration Date: November 30, 2015  
 Taxable Status: Taxable

If you have any questions please give me a call.

Sincerely,

*Clint Anderson*

Clint Anderson  
 Director of Service  
 Cell: 706-372-0732  
 Email: [canderson@argus-hazco.com](mailto:canderson@argus-hazco.com)  
 ca/js



1780 Corporate Drive  
 Norcross, GA 30093-2958  
 LOCAL: 470-362-7016  
 TOLL-FREE: (800) 332-0435  
 FAX: 470-362-7018  
 www.argus-hazco.com

October 21, 2015

Quote Number: CITCHA101915M1W-08002624  
 Customer: 1020881

Jason Silvers  
 Phone: 423-643-6845  
 City Of Chattanooga  
 900 E 11th St  
 Chattanooga, TN 37403-3203  
[jsilvers@chattanooga.gov](mailto:jsilvers@chattanooga.gov)

Jason:

Thank you for your interest in Argus-Hazco. Argus-Hazco provides the experience, expertise and equipment required to help solve your specific industrial-hygiene, environmental, respiratory, sampling, monitoring, confined-space and safety challenges. This quote contains information about the products and services requested:

Number	Description	Qty	UOM	Unit Price	Ext Price
*MISCITEM	NEDERMAN MODULAR FILTER SYSTEM w/PERMANENT VENTING & EXPLOSION PROOF MOTOR <i>For extracting particles &amp; gases in chemical handling areas</i>	1	EA	\$5000.00	\$5000.00
*MISCITEM	INSTALLATION	1	EA	\$2000.00	\$2000.00

Merchandise Total: \$7000.00

Argus-Hazco has solutions to your needs, both simple and complex. We look forward to working with you on your Sales, Rental, Repair, or Consultation needs. This quote is valid for 30 Days and is subject to Availability and Prior Credit Approval. THIS IS ONLY QUOTE FOR MERCHANDISE AND SERVICES. THIS QUOTE DOES NOT INCLUDE ANY FREIGHT CHARGES OR APPLICABLE TAXES.

Terms: To Be Determined  
 F.O.B.: Shipping Point  
 Freight Terms: Prepay & Add  
 Delivery: 4 Weeks  
 Expiration Date: 30 Days

If you have any questions please give me a call.

Sincerely,  
 David Fogarty  
[dfogarty@argus-hazco.com](mailto:dfogarty@argus-hazco.com)  
 770-843-1638

# Purchase Order BLANKET



City of Chattanooga  
101 East 11th Street, Suite G13  
Chattanooga, TN 37402

VENDOR	Vendor Number: Vendor Alternate ID: 25192
	Environmental Enterprises Inc 4650 Spring Grove Ave Cincinnati, OH 45232

PO Date: 23-AUG-12 Buyer: William Tucker FOB: DESTINATION Terms: Immediate	Purchase Order Number <b>517043</b>  INVOICES: Direct Invoices in DUPLICATE to the invoice address shown below.
---	--

SHIP TO	

M666Z	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor		Requisition Number	Est./Number
Line Nbr	Item ID - Item Description	Quantity	Unit
		Unit Price	Total
Requisition No. 61261 Ordering Dept.: Public Works Buyer: William Tucker Telephone: 423-757-0649 Email: tucker_w@chattanooga.gov ..... This shall be a twelve (12) month blanket contract to supply Household Hazardous Waste Disposal Services as needed by the Public Works Department. The contract term may be renewed for four (4) additional twelve (12)-month terms under the same terms and conditions by mutual agreement. The City of Chattanooga and the Contractor may bilaterally extend the Contract by providing written confirmation of agreement by both parties at least 30 days prior to the Contract's current expiration date. ..... Approved by City Council on August 14, 2012 ..... Vendor Contact Information:  Vendor Name: Environmental Enterprises, Inc. Contact Person: Brian J. DePeel Tel.: 800-850-3587 Fax: 513-853-3597 Email: bdepeel@eentenv.com Street Address: 4650 Spring Grove Avenue City, State, Zip: Cincinnati, OH 45232 .....			

NOTICE

This Purchase Order ("Agreement") is a binding agreement between the City of Chattanooga and the Vendor. This Purchase Order shall be governed by the following documents: (1) Purchase Order; (2) City of Chattanooga Purchase Order Standard Terms and Conditions; (3) Vendor's response to the bid or quotation; and (4) terms and conditions set forth in the bid or quotation, each of which is hereby incorporated herein by reference and becomes a part of this Agreement. In the event any conflict of terms arises, the terms controlling this Agreement shall be in the order provided hereinabove. This Purchase Order is valid only when signed or electronically approved by the Finance Officer.

Electronic approval is on record in the purchasing information system which asserts that unencumbered appropriation is available to meet the expenditure covered by this Purchase Order, and further authorizes payment upon proper certification of receipt of goods and/or services.

# Purchase Order BLANKET



City of Chattanooga  
101 East 11th Street, Suite G13  
Chattanooga, TN 37402

<b>VENDOR</b>	Vendor Number: Vendor Alternate ID: 25192
	Environmental Enterprises Inc 4650 Spring Grove Ave Cincinnati, OH 45232

PO Date: 23-AUG-12 Buyer: William Tucker FOB: DESTINATION Terms: Immediate	Purchase Order Number <b>517043</b>  INVOICES: Direct Invoices in DUPLICATE to the invoice address shown below.
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<b>SI-ATO</b>	

<b>MC 042</b>	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor		Requestion Number			Bill Number
Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
1	Mobilization	0.00	Each	\$ 2,600,000	\$ 0.00
2	Chemist	0.00	Hour	\$ 0.0000	\$ 0.00
3	Technician	0.00	Hour	\$ 0.0000	\$ 0.00
4	Flammable Liquid	0.00	Pound	\$ 0.2100	\$ 0.00
5	Flammable Solids	0.00	Pound	\$ 1.2500	\$ 0.00
6	Acidic Material	0.00	Pound	\$ 1.0500	\$ 0.00
7	Caustic Material	0.00	Pound	\$ 1.0500	\$ 0.00
8	Oxidizing Material	0.00	Pound	\$ 1.0900	\$ 0.00
9	Poisonous Material	0.00	Pound	\$ 1.0500	\$ 0.00
10	Latex Paint	0.00	Pound	\$ 0.2200	\$ 0.00

~~~~~NOTICE~~~~~

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# Purchase Order BLANKET



City of Chattanooga  
101 East 11th Street, Suite G13  
Chattanooga, TN 37402

|        |                                                                                |
|--------|--------------------------------------------------------------------------------|
| VENDOR | Vendor Number:<br>Vendor Alternate ID: 25192                                   |
|        | Environmental Enterprises Inc<br>4650 Spring Grove Ave<br>Cincinnati, OH 45232 |
| CITY   |                                                                                |
|        |                                                                                |

|                                                                                     |                                                                                                                                |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| PO Date: 23-AUG-12<br>Buyer: William Tucker<br>FOB: DESTINATION<br>Terms: Immediate | Purchase Order Number<br><b>517043</b><br><br>INVOICES: Direct Invoices in<br>DUPLICATE to the Invoice<br>address shown below. |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|

|             |                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------|
| M E - 6 4 7 | Accounts Payable Division<br>City of Chattanooga<br>101 East 11th Street, Suite 101<br>Chattanooga, TN 37402 |
|-------------|--------------------------------------------------------------------------------------------------------------|

| Requestor |                            | Requisition Number |       | Line Number          |
|-----------|----------------------------|--------------------|-------|----------------------|
| Line Nbr  | Item ID - Item Description | Quantity           | Unit  | Unit Price           |
| 11        | Non-Flammable Liquid       | 0.00               | Pound | \$ 0.3300            |
| 12        | Solvent Based Paint        | 0.00               | Pound | \$ 0.3200            |
| 13        | Aerosol/Compressed Gas     | 0.00               | Pound | \$ 0.8500            |
| 14        | Alkaline Batteries         | 0.00               | Pound | \$ 0.8000            |
| 15        | Electronics                | 0.00               | Pound | \$ 0.2800            |
| 16        | Mercury Bulbs              | 0.00               | Each  | \$ 1.0000            |
| 17        | Other (specify)            | 0.00               | Pound | \$ 1.0000            |
|           |                            |                    |       | <b>TOTAL: \$ 480</b> |

NOTICE

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Electronic approval is on record in the purchasing information system which asserts that unencumbered appropriation is available to meet the expenditure covered by this Purchase Order, and further authorizes payment upon proper certification of receipt of goods and/or services.

# CITY OF CHATTANOOGA

## HHW OPERATION AND MAINTENANCE GRANT

Attachment 1  
Technical Narrative  
Household Hazardous Waste

### I. Project Description

1. The City of Chattanooga is proposing multiple upgrades to its existing permanent Household Hazardous Waste facility. These upgrades were based upon recommendations issued by Special Waste Associates in their 'Report on City of Chattanooga HHW Collection Facility Visit' dated November 2014 & February 2015. These upgrades include installing gas monitoring and alarms system, ventilation, and applying chemical resistant coating to the staging area's floor. Our goals include increased participation and corresponding tonnage and a decreased amount of non-acceptable or unidentifiable materials coming into the facility. Our objectives include additional training for persons on site, adding a City position, Hazardous Waste Technician to assist with the transport and handling of materials, increased number of days open (moving from 1 day per month to 5 days per week), and increased education.
2. Once monies are received from the HHW Operation and Maintenance Grant for our intended upgrades, the City of Chattanooga will begin making necessary changes to its site beginning in early Spring 2016 with upgrades being completed prior to fall of 2016. The City of Chattanooga will also hire a full time Hazardous Waste Technician who will attend the facility 5 days a week.
3. As the City of Chattanooga already has a permanent facility these upgrades will not expand the site itself but will make the existing program safer in numerous respects both for the residents and for the contractors who collect, test, and package the hazardous materials. However, the City of Chattanooga is expanding its operations; moving from being open only one day per month to being open five days per week. The City estimates between 4,000 participants annually for the next two fiscal years increasing to 5,000 for the following three fiscal years. The facility will continue to serve all of the City of Chattanooga residents as well as all of the Hamilton County residents at no charge. The City of Chattanooga has approximately 59,000 distinct parcels with a demand of over 66,200. For the past two fiscal years, the City has averaged 929 residents attending the event.
4. The facility is located within the City's Wood Recycle Center located at 3925 North Hawthorne Street, Chattanooga, Tennessee 37406. The site will be open every week Tuesday through Saturday from 8:00 AM to 12:00 PM.
5. In support of the Solid Waste Plans 2015-2015, the site's purpose is to remove hazardous wastes from the general waste stream by accepting toxic materials that are

commonly stored within general households and to reduce contamination and increase space of the area landfill.

**II. Waste Management and Diversion**

1. Hazardous materials will be collected by a City Hazardous Waste Technician in addition to the City’s contractor who will test as needed, before storing in heavy duty plastic barrels labeled by type. Barrels are then marked by the lead chemist for shipping and then placed onto the contractor’s truck where it is then driven to contractor’s disposal site. City staff will not test any toxic/ hazardous material. Unidentified materials are not allowed.
2. Material types listed below as well as the tonnage. Estimated tonnage for the next five years will average 300 tons per year.

**i. Acceptable Materials**

Aluminum paint, antifreeze, cadmium/nickel batteries, calcium carbide, calcium polysulfide, corrosive lab pack alkaline, ethanol/nitrogen container, oil based paints, fire extinguishers, flammable (bulk), flammable (liquid), flammable (solid), flammable (solvent), Freon cylinders, helium cylinders, isocyanates, lab pack acid & acid compatibles, lab pack basic & basic compatibles for incineration, lab pack flammable, lab pack for mercury, lab pack for organics, lab pack for oxidizers, lab pack reactive flammables, lithium batteries, mercury, mixed batteries, motor oil, nitrous oxide, oxygen cylinders, part B nitrogen cylinder, PCB light ballast, poisonous material, propane tank, putty & adhesives, RCRA exempt consolidated solvent, RCRA exempt mixed aerosols, RCRA exempt pesticide liquids, solid pesticide lab pack, straight fluorescent tubes over 4 ft, and trichloroisocyan.

**ii. Tonnage for 2014**

| Month        | Year | HHW Tons Collected |
|--------------|------|--------------------|
| January      | 2014 | 2.6                |
| February     | 2014 | 1.5                |
| March        | 2014 | 1.8                |
| April        | 2014 | 3.2                |
| May          | 2014 | 3.4                |
| June         | 2014 | 3.7                |
| July         | 2014 | 5.1                |
| August       | 2014 | 2.9                |
| September    | 2014 | 3.3                |
| October      | 2014 | 2.5                |
| November     | 2014 | 1.7                |
| December     | 2014 | 3.1                |
| <b>TOTAL</b> |      | <b>34.8</b>        |

3. All contractor staff are required to meet and maintain specific training guidelines. A contingency plan is attached. The City of Chattanooga’s Recycling Coordinator who frequently oversees collection has a SWANA certification in Household Hazardous Waste

concerning Conditionally Exempt Small Quantity Generators. The City's Hazardous Waste Technician will complete all required training by the State of Tennessee.

4. The City of Chattanooga has utilized a reuse program for materials such as pesticides, insecticides, fungicides, and applicable cleaners to be used by City personnel at its Wood Recycle Center. The City does not have an estimated cost of savings for reuse material at this time.
5. The City began its contract with Environmental Enterprises, Inc in 2012. The contract is a 12 month blanket contract and may be renewed for 4 additional years. Contract is attached detailing service costs. In 2017, the City of Chattanooga will begin its process of establishing a new contract in its bidding process.

### **III. Education Plan**

1. The City of Chattanooga promotes its household hazardous waste facility and collection days via its webpage, brochures, and Facebook page with the goal of bringing awareness of the program itself, the acceptable materials, and the purpose of collection, namely removing harmful chemicals/substances from the general waste stream and therefore the City's landfill.
2. The City of Chattanooga's Recycling Coordinator educates the public at special events and through the City's Facebook page the benefits of not placing household hazardous waste in their garbage cans as well as the broad range of acceptable materials the City collects. The target audience is both residents of the City of Chattanooga and those living in Hamilton County as the site allows each to bring their materials to be safely disposed of in an environmentally safe manner at no cost. Currently, Facebook posts are sent out monthly to twice a month notifying the site followers what the City's household hazardous waste collection entails.

3. Per the City of Chattanooga's Integrated Waste Management Plan:

#### **GOALS**

- i. To decrease the total amount of solid waste material generated in the waste stream while ensuring the protection of human health and natural resources.
  - ii. To increase tonnage of recyclable materials generated through automated curbside collection, recycle convenience centers, and household hazardous waste facility.
  - iii. To be in accordance with federal, state, and local laws.
4. The City of Chattanooga will enlist the service of its coordinator, manager, and directors on an as needed basis pertaining to education of its household hazardous waste facility.

### **IV. Project Sustainability**

1. Under the new guidelines set forth by the State of Tennessee, the City of Chattanooga will be classified as a Tier I Facility as listed in the State of Tennessee's Department of Environment and Conservation's Household Hazardous Waste Facility Operations and Maintenance Grant Program Application Manual for Fiscal Year 2015-2016. The City will

review approximately \$100,000.00 as the new reimbursement amount. Any costs that arise over the limit will be covered within the Public Works annual budget. Salaries would be approximately \$45,000.00 with supplies being \$500.00 annually; remainder will be put towards the professional fee, namely the contractor costs which make up the highest percentage of the annual cost. Quotes and specifications sheets for proposed improvements are attached.

2. The City of Chattanooga's bid process selects the lowest bidder ensuring that prospective savings are met at the start of the contract. Wastes taken to the City's household hazardous waste facility are removed from the waste stream and summarily save taxpayer money by removing associated transfer station and landfill costs. The City instructed the contractor to keep materials on site, safely stored within the confines of the facility, until the associated drums are full, saving the costs related to packing and transport. The contractor has a set mobilization fee which incorporates set up and personnel.
3. Supplementary costs not covered by a State grant or reimbursement will be covered within the Public Works annual budget which is derived solely from property taxes.
4. The City of Chattanooga will create a capital improvement fund for the upcoming fiscal budget year for materials purchased through the Tennessee Department of Environment and Conservation grant program as well as a maintenance plan to ensure that the received materials have a normal to extended life without unnecessary wear and tear.
5. Site improvements will be inspected by both the Sanitation Manager and Recycling Coordinator once they have been summarily completed. Inspection will include reviewing the newly established maintenance plan and evaluating the efficiency and utilization of acquired materials. Random audits of the contracting crew will be performed by both the Sanitation Manager and Recycling Coordinator.