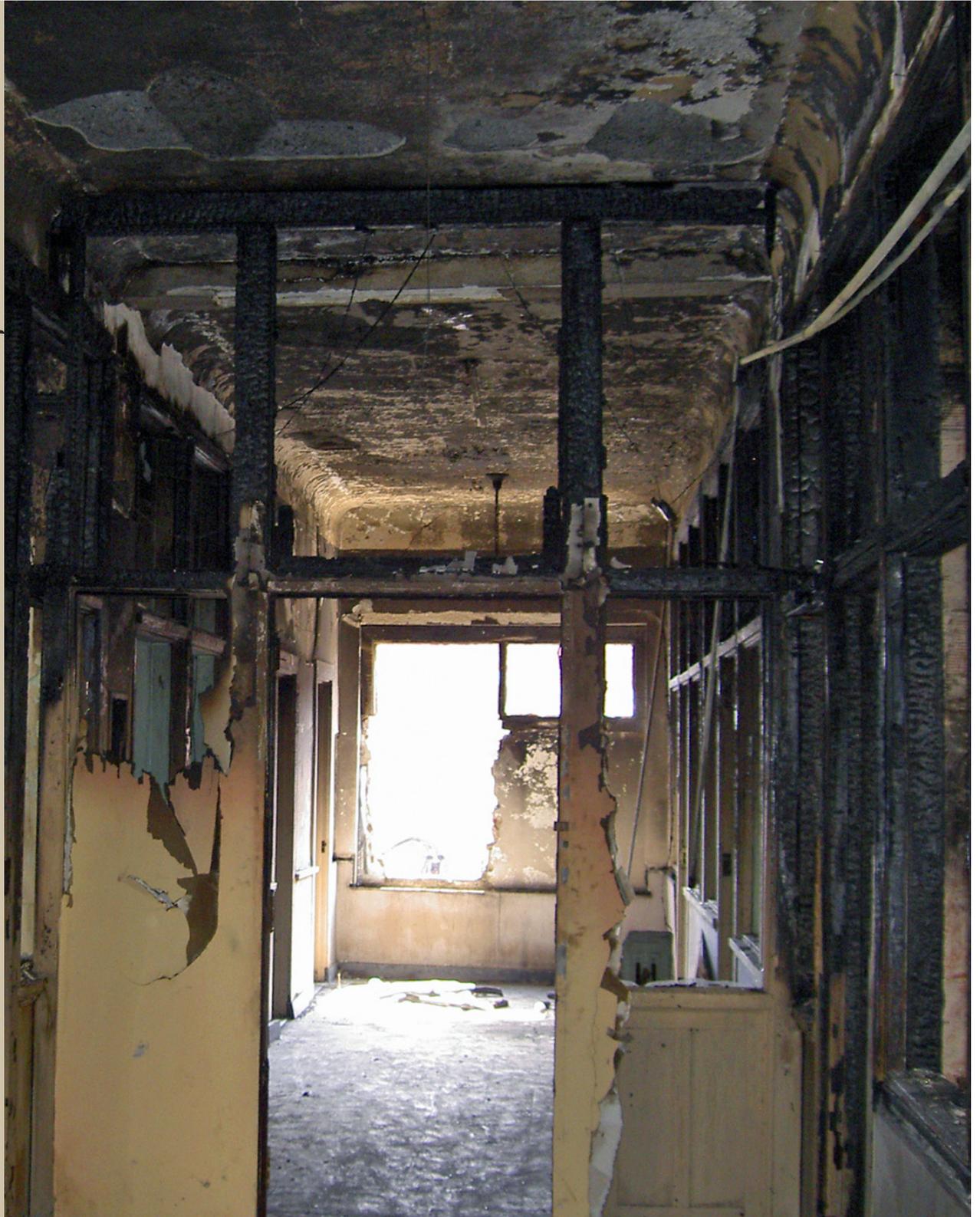


Hazardous Waste Management Commission Report

October through December 2012

Quarterly Report



Hazardous Waste Management Commissioners

Michael Foresman, Chair
Andrew Bracker, Vice Chair
James "Jamie" Frakes
Elizabeth Aull
Deron Sugg
Charles "Eddie" Adams

"The goal of the Hazardous Waste Program is to protect human health and the environment from threats posed by hazardous waste."

For more information

**Missouri Department of Natural Resources
Hazardous Waste Program**

P.O. Box 176, Jefferson City, MO 65102-0176

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Past issues of the Hazardous Waste Management Commission Report are available online at www.dnr.mo.gov/env/hwp/quarterlyreport.htm.



**Missouri Department of Natural Resources
Hazardous Waste Program**

Letter from the Director

This quarter brings to a close another calendar year. While we tend to focus more on the state and federal fiscal years, our calendar year gives us an opportunity to reflect on what the program has accomplished in the previous 12 months. In addition to our quarterly reporting of activities, you will find several articles dedicated to a discussion of some of the program's yearly accomplishments. There has been a lot of work accomplished this past year and I am very proud of the staff and their efforts.

In addition, you may also notice the format of this report has changed slightly from past editions. While the Hazardous Waste Program is comprised of seven sections, there are four main activity areas we will look to highlight in these reports: Remediation, Compliance/Enforcement, Permitting and Tanks. While this is very similar to the previous format, the Remediation Activities Section of the report will contain updates from the Brownfields, Superfund and Federal Facilities Sections, rather than providing a stand-alone report for each of these sections.

I hope you enjoy reading this edition of the Quarterly Report and agree that a significant amount of progress was made this year. We are certainly looking forward to another successful year!

Thank you,



David J. Lamb

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Federal Facilities

Another Productive Year for the Federal Facilities Section

In 2012, the Federal Facilities Section continued to successfully coordinate with the department and federal agencies. Much of what this section does, in regard to remediation oversight, requires many key players. Our section managers and staff as well as officials from the U.S. Department of Energy and the U.S. Department of Defense all play a part in federal facility cleanups.

Section staff participated in a number of national workgroups providing great information to staff and also offering a place for department staff to share their views and give input. The section actively participates in a number of workgroups within the Association of State and Territorial Solids Waste Management Officials, or ASTSWMO.

ASTSWMO's mission is to enhance and promote effective State and Territorial programs for waste and materials management, to encourage environmentally sustainable practices and to affect relevant national waste and materials management policies. Section staff participation includes a policy group, technical group and community involvement group. Staff participate in conference calls, attend meetings and create informative documents for the State of Missouri and the other states and territories. The section also supports other groups that provide opportunities for the State of Missouri to learn and contribute to technical and policy issues including those created by the Interstate Technology and Regulatory Council, State and Territorial Working Group and the Environmental Council of States.

Site specific objectives for the year were also met and exceeded. Long-Term Stewardship met a number of milestones, including:

1. All institutional controls have been implemented at the Department of Energy Weldon Spring Site.
2. A five-year review has been completed for the Former Richards-Gebaur Air Force Base.
3. Annual inspections were completed for St. Louis based Jefferson Barracks Post Dumping Ground and Forest Park Recreation Camp.

Supplemental environmental projects were also a part of section activities. Fort Leonard Wood installed additional wells through the implementation of a project resulting from improper soil disposal at the Fort Crowder Site.

Remedial actions were still a major part of the section's activities. Hematite Radioactive Site, near Festus, continued to make progress by hauling away 14,000 cubic yards of radioactive-contaminated soil from burial pits at the site. This contaminated soil was moved by rail to a licensed facility in Idaho. At the Formerly Utilized Sites Remedial Action Program, or FUSRAP site, progress was made at Building 101. The 57,000 square foot building was completely demolished. The total amount of debris and contaminated soil removed on completion is about 46,000 cubic yards.



Investigation is another important component of section duties. At West Lake Landfill the section provided comments about numerous documents related to the further investigation of the radiologically contaminated portion of the landfill. Section staff also provided support for numerous USDA Former Grain Bin sites located around the state. The section provided oversight at three grain bin sites on phase I and phase II investigations. Also, the section provided oversight for an injection pilot project to evaluate in-situ chemical reduction technology as a remedial option.



Radioactive transportation and material shipments duties were added to the section due to the passing of Missouri Revised Statute 260.392 and Missouri House Bill 1251. These bills put into law that shipments of radioactive materials are subject to a fee when traveling in or through Missouri.

There are five categories of radioactive material or waste:

1. High-level radioactive waste.
2. Transuranic radioactive waste.
3. Highway route controlled quantity shipments.
4. Spent nuclear fuel.
5. Low-level radioactive waste.

The fees will be used by the department, Health and Senior Services, Public Safety and Transportation for purposes related to:

- Escorts.
- Inspections.
- Security planning.
- Coordination of emergency response capability.
- Education and training of state, county and local emergency responders.
- Purchase and maintenance of necessary equipment.
- Environmental radiation monitoring.
- Oversight of any environmental remediation necessary as a result of an incident involving a shipment of radioactive material and administrative costs incurred by the agencies.

The section processed payments for 110 shipments of highway route controlled quantities and low-level shipments, including 48 trains and 270 trucks. The section also assisted in the training of first responders along corridors where the radioactive transportation will occur.

The Federal Facilities Section continues to move forward the cleanup of federal facility sites throughout Missouri by being actively involved with the remediation of specific sites, participating in workgroups and expanding the mission of the section to include radioactive shipments.

Brownfields/Voluntary Cleanup Program Certificates of Completion

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.

Through the Brownfields/Voluntary Cleanup Program, private parties agree to clean up a contaminated site and are offered some protection from future state and federal enforcement action at the site in the form of a "no further action" letter or "certificate of completion" from the State.

The program issued 10 certificates of completion for various sites from October through December 2012. This brings the total number of certificates of completion to 673.

North Park – Phase II – Berkeley

The North Park site located at the NE Corner of I-70 and I-170 in Berkeley includes the northern portion of 600 acres, with North Hanley Road and the Maline Creek forming the southern boundaries. The environmental concerns of this portion of the property included asbestos and miscellaneous waste within on-site structures; miscellaneous solid waste within and around residential buildings; petroleum hydrocarbon contamination from an unknown spill; polychlorinated biphenyl, or PCBs, and miscellaneous hydrocarbons from a former power house.

Asbestos was removed from on-site buildings and disposed, along with miscellaneous buried debris, 55-gallon drums of oil and PCB-containing light ballasts. Approximately 150 tons of petroleum-contaminated soil was excavated and disposed from the area known as the Lurch Avenue spill. Confirmation samples revealed concentrations of contaminants in the soil were below residential risk-based target levels. A soil management plan was filed in the property's change of title. The soil management plan is an informational notice how to manage any debris on the site that might be excavated in the future.



The department determined the site is safe for its intended use.

Isle of Capri Casino – Cape Girardeau

The Isle of Capri Casino (proposed site) site is located at 777 N. Main St., in Cape Girardeau. This site consists of 58 individual mixed residential, vacant, commercial and former industrial parcels situated on approximately 19 acres located to the northeast and east of the intersection of Mill and Lormier streets. The parcels are currently owned by Isle of Capri Casinos Inc., with the exception of parcel 3; it is owned by the City of Cape Girardeau. The city conducted an assessment of parcel 3 since the property was used as an auto repair and gasoline station. Site assessments performed as part of the proposed casino redevelopment project have identified and recognized environmental conditions including former and existing gasoline stations, automotive and engine repair shops, clandestine drug labs, cleaners and launderers, furniture repair shops, historical manufactured gas plant and electrical substation operations, a shoe factory and a salvage yard.

Site investigations indicated arsenic and lead detected in soil samples above the Missouri Risk-Based Corrective Action default target levels. Benzo(a)pyrene and naphthalene were also detected above the default target levels in one soil sample. Volatile organic compounds and semi-volatile organic compounds exceeded default target levels in groundwater samples and additional soil and groundwater delineation was recommended to determine the vertical and horizontal extent of the exceedances. A site characterization report and tier 1 risk assessment were performed for the chemicals of concern identified in the soil and groundwater at the site. The tier 1 risk assessment indicates there are no completed pathways for soil and groundwater. The site will be restricted to non-residential use. The department determined the site is safe for its intended use.

The Isle of Capri Casino has been granted a license to construct and operate a floating casino on this location by the Missouri Gaming Commission.

Chouteau Crossing - Lot B – St. Louis

The Chouteau Crossing - Lot B site located at 2319 Chouteau Ave. in St. Louis is a 4.605 acre parcel of the Chouteau Crossing site with an approximately 80,000 square foot building. The site was developed in 1929 when the Missouri Boiler and Tank Company established its operations. The company operations included the manufacturing of tanks, pressure vessels and a repair and refabrication service. The site operated in this same capacity through 1995. Since 1995 the site has been used for truck parking and storage for plumbing supplies.

Four underground storage tanks were removed prior to the site being enrolled in the Brownfields/Voluntary Cleanup Program. Two additional underground storage tanks were discovered during site construction and removed.

Investigations showed elevated levels of mercury, arsenic, diesel and oil range hydrocarbons and polycyclic aromatic hydrocarbons, or PAHs, were present in its soil. Asbestos-containing material and lead-based paint were found in the building.

PAHs were found in surface soil at levels exceeding residential risk-based target levels. The risk assessment showed representative concentrations of all PAHs were below the risk-based target levels with the exception of benzo(a)pyrene, which exceeded non-residential risk-based target levels. A cap has been placed over certain areas that reduces the representative concentration of exposed benzo(a)pyrene to below the non-residential risk-based target levels. An environmental covenant placed in the chain of command restricts site use to nonresidential and requires the cap be kept in place and maintained.



Asbestos-containing material and lead-based paint were abated from the building, but some lead-based paint was left in the building, either enclosed or encapsulated. An operations and maintenance plan that governs inspection and maintenance of the lead-based paint was filed in the chain of title for the property. The department determined the site is safe for its intended use.

Independence Regional Entrepreneurial Center – Independence

The Independence Regional Entrepreneurial Center site located at 1509-1515 West Truman Rd. in Independence is a hospital complex dating to an original building, also known as the Independence Sanitarium, constructed in 1908. Three expansion buildings, a parking garage and two parking lots were added over the years. The site was complex and contained several recognized environmental conditions, such as radioactive and hazardous materials use, an incinerator, laboratories, generators, an underground storage tank in temporary closure, printing, hydraulic elevators, boiler and transformers. Asbestos and lead-based paint were also suspected to be present throughout the buildings.

Heavy metals were detected in the soil, and its extent was identified. Asbestos-containing material, lead-based paint as well as other possible hazardous materials, such as fluorescent lights and ballasts, were removed and properly disposed. As metals remain in the soil above residential target levels, an environmental covenant is in effect to ensure continued non-residential land use. The site is to be used as a business incubator.

Artesian Ice & Cold Storage - Plant A – St. Joseph

The Artesian Ice & Cold Storage - Plant A site located at 202-204 Main Street in St. Joseph appears to have been developed by at least 1883. The east buildings were constructed between 1883 and 1902. Historical building occupants have included a cracker manufacturer, candy factory, biscuit company, pot pie manufacture and cold storage. Prior to the current-day buildings, Western Fuel Company, a coal yard, wood piles and dwellings were located on the northeastern portion of the site. Black Snake Creek was located on the western portion of the site. The west building, or Building 6, and parking area were constructed in 1967.

Site investigations indicated fill-soil concentrations of arsenic, lead and benzo(a)pyrene above the Missouri Risk-Based Corrective Action default target levels in the parking lot on the western portion of the site. Additional investigations of the concentrations of arsenic and lead were reported above the non-residential risk based target levels for the surficial soil. Benzo(a)pyrene was detected at concentrations above the default target levels and residential risk based target levels but below non-residential risk based target levels. The soil samples with the elevated concentrations were collected from the fill material. Soil samples collected from the soil below the fill material did not have concentrations above the background levels. Generally, detected metals and poly aromatic hydrocarbons, or PAHs, decreased within the observed rubble fill.

Based on the tier 1 risk assessment, metals and PAHs soil contamination has been characterized and the representative concentrations are below the pathway specific tier 1 risk based target levels for non-residential use and construction worker use. A soil management plan has been developed to properly manage affected soils if encountered during future on-site activities. The department determined the site is safe for its intended use.

Artesian Ice & Cold Storage Company Inc. made application to the Missouri Department of Natural Resources Brownfields/Voluntary Cleanup Program in response to soil contamination identified through a phase I environmental site assessment.

Nor-Am Cold Storage is the current operator of the site. The proposed future use of the site is to remain similar to the current operations

Artesian Ice & Cold Storage - Plant B – St. Joseph

The Artesian Ice & Cold Storage - Plant B site located at 2700 Stockyards Expressway, St. Joseph was developed around 1926. The previous site owner stated that originally the site was operated by Palmolive Peet Company. In 1917, the site was bought by St. Joseph Ice Manufacturing and by 1932 it was listed as Artesian Ice & Cold Storage Company in the historical city directories. Since 2009, Nor-Am Cold Storage has used the site for cold storage. The current building was constructed in several different phases.

Previous site investigations of soil and groundwater indicated concentrations of lead, arsenic and polynuclear aromatic hydrocarbons above the Missouri Risk Based Corrective Action residential risk-based target levels. Fill material was observed in a couple areas of the site. Black staining and tar-like substances were noted during the advancement of boring on the northeast portion of the site. Various concentrations of arsenic, lead, benzo(a)pyrene and naphthalene were also detected in groundwater, including some concentrations above the residential risk-based target levels.

The groundwater samples were analyzed for dissolved lead. The lead concentration does not appear to be from an on-site release and may be associated with natural concentrations, as metals are naturally occurring. The source area of the observed impact and detected concentrations appears to be either associated with historical dumping in the area or migration of impact from an off-site source.

The sampled groundwater was reportedly laboratory filtered and preserved prior to extraction and analysis, so there is a potential of matrix interference; a sample of characteristics that interferes with test method execution where reliable data cannot be generated. The groundwater samples were collected from temporary well points and not from a developed monitoring well.

A tier 1 risk assessment was performed and the representative concentrations are below the pathway specific tier 1 risk-based target levels for non-residential use and construction worker use. A soil management plan was prepared to properly manage affected soil if encountered during future on-site activities. The department determined the site is safe for its intended use.

Nor-Am Cold Storage is the current owner/operator of the site and will continue to use the site for the same business.

Artesian Ice & Cold Storage - Plant C – St. Joseph

The Artesian Ice & Cold Storage - Plant C site located at 3400 Stockyards Expressway in St. Joseph* was listed as St. Joseph Foods Inc. in 1963 and later listed as St. Joseph Woods in 1969 and 1974. An interview with a previous owner indicated the original building on the site was used to manufacture jelly and jams. This building burned down and was rebuilt by St. Joseph Woods and used as a gun stock storage. The previous owner also stated the northern portion of the current-day freezer was built in 1993; following the removal of the previous building. Several years after that, the southern portion of the site was purchased and an addition to the building was constructed in 2000.

Site investigations indicated ammonia nitrogen and nitrate-nitrite were detected in the groundwater samples above the Missouri Risk Based Corrective Action default target levels and Environmental Protection Agency maximum contaminant levels. Four permanent monitoring wells were installed for the collection of groundwater samples after the site characterization. After several rounds of groundwater sampling, the ammonia nitrogen and nitrate-nitrite impact to groundwater appears to be coming from an off-site source and has stable trends. The department determined the site is safe for its intended use.

Nor-Am Cold Storage is the current operator of the site and the proposed future use is to remain similar to current operations.

***Note:** The city directory indicates 3207 Highway 759 as an apparent former site address.

Artesian Ice & Cold Storage - Plant D – St. Joseph

The Artesian Ice & Cold Storage - Plant D site located at 2800 Stockyards Expressway in St. Joseph appears to have been developed with several railroad spurs by around 1927. Additionally, the surrounding area appears to have been developed with industrial facilities also around 1926. A 1962 aerial photograph shows the railroad spurs, a possible small structure on the northeast corner of the site and unidentifiable materials located on the east portion of the site. Missouri Valley Veneer appears to have been developed on the site since between 1962 and 1969 with two current-day structures and two additional small structures south and southwest of the warehouse building. The previous site owner stated the site was originally developed by the Walnut Group to manufacture and store veneer products. In the 1990s, Artesian Ice & Cold Storage removed the two small buildings located southwest of the warehouse building. The previous site owner indicated there were large concrete vats filled with gravel located west of the warehouse building.

Five soil borings were taken during the investigation. Soil and groundwater samples were collected and fill material was observed in several areas. The metal and polycyclic aromatic hydrocarbons concentrations reported in the on-site fill material appear to be similar to fill materials on developed industrial land. Lead was detected in one of the soil samples above the Missouri Risk Based Corrective Action residential risk-based target levels. The lab analysis of the soil samples analyzed for the remaining compounds indicated concentrations were either not detected above the lab detection limits or were below the default target levels. The groundwater samples analyzed for metals either did not have concentrations above the lab detection limits or below the default target levels with the exception of lead. Lead was detected at concentrations above the default target level. The groundwater samples analyzed for dissolved lead were reportedly lab filtered and preserved prior to extraction and analysis. There is a potential of matrix interference as the groundwater samples were collected from temporary sampling points and not from a developed monitoring well. These lead concentrations do not appear to be from an on-site release and may be associated with natural concentrations.

Based on a tier 1 risk assessment, lead soil contamination has been characterized and the representative concentrations are below the pathway specific tier 1 risk-based target levels for non-residential use and construction worker use. A soil management plan has been developed to properly manage affected soils if encountered during future on-site activities. The department determined the site is safe for its intended use.

Nor-Am Cold Storage is the current owner/operator of the site and will continue to use the site for the same business.

The Former Gooch Brake Site – Kansas City

The former Gooch Brake site is located at 506 Grand Blvd in Kansas City. This brick and concrete block building was built in 1965 on .19-acres. The property served functions as auto repair shops, a bag company, a catering business, moving company, and a truck equipment and brake repair company. Prior to the current improvements, the site included a single-family home, poultry and egg house, horse stable, junk yard, blacksmith and restaurant. Three underground storage tanks were noted on the east side of the site on 1939 and 1951 historic maps during the phase I environmental site assessment.

A total of six soil borings were taken to determine the soil contamination. The representative concentration of benzene from samples obtained at these six borings was below the applicable target level for non-residential land use. The continued non-residential use of this site will be ensured through the use of an environmental covenant. The department determined the site is safe for its intended use.

Missouri Department of Natural Resources - Hazardous Waste Program

REMEDIATION



Metropolitan Lofts – St. Louis

The Metropolitan Lofts site at 500 N. Grand Avenue in St. Louis is located at the northeast corner of the intersection of Grand and Olive. It was constructed in 1902 and has eight stories and a basement. When enrolled in the Brownfields/Voluntary Cleanup Program, the building was vacant, with historical uses including office space and retail. No tenants were ever associated with the use, generation, storage or treatment of hazardous materials. Some varnish and paint containers were noted on one floor of the building and asbestos, lead-paint and other miscellaneous household hazardous wastes were noted throughout the building during inspection.

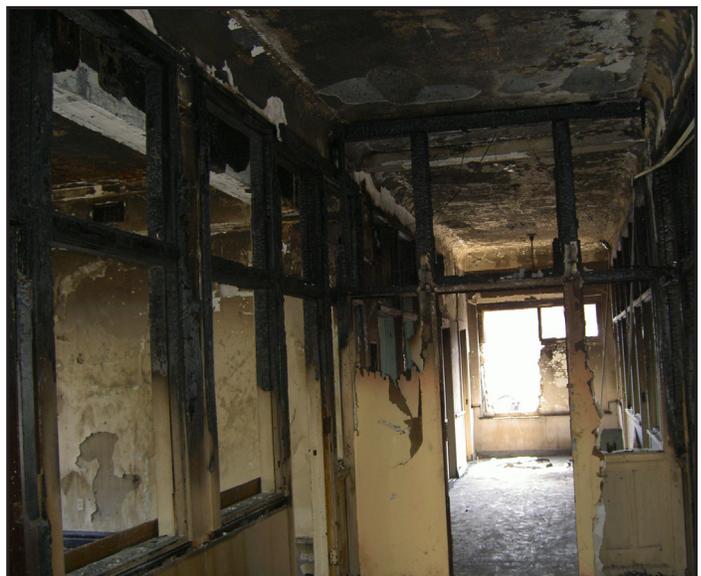
The following approximate amounts of asbestos-containing material were removed and properly disposed:

- 4,000 linear feet of pipe insulation.
- 95,000 sq. feet of floor tile and mastic.
- 70,000 square feet of ceiling tile mastic.
- 1,840 square feet of transite paneling.
- 12,000 square feet of window caulking.
- 3,000 square feet of miscellaneous asbestos-containing material.

Lead-based paint on the ceilings and support columns were encased in stud and drywall systems, walls, stairwell banisters and risers. Balusters were encapsulated and the paint dust covered floors were covered. An operation and maintenance plan is in place for the remaining lead-based paint. In addition, various miscellaneous household hazardous wastes were also disposed. The department determined the site is safe for its intended use.

More Information about Brownfields sites

For more information about these sites, call the Missouri Department of Natural Resources at 800-361-4827 or the Brownfields/Voluntary Cleanup Program at 573-526-8913.



Missouri Department of Natural Resources - Hazardous Waste Program

Sites in Brownfields/Voluntary Cleanup Program

	Active	Completed	Total
October	248	645	893
November	251	645	896
December	253	647	900

New Sites Received

October

Jordan Creek Realignment Project, Springfield
Sun Theater Building (Former), St. Louis

November

Des Peres Center, St. Louis
Baumann Safe Building, St. Louis

December

Heritage/AT&T Building (former), St. Louis
Crescent Feed Company, Inc, Springfield
Folgers Coffee Company (Former), Kansas City

Sites Closed

October

North Park - 4700 N Hanley, Berkeley
Isle of Capri Casino (proposed site), Cape Girardeau

November

Chouteau Crossing-Lot B, St. Louis
Independence Regional Entrepreneurial Center, Independence
Artesian Ice & Cold Storage - Plant A, St. Joseph
Artesian Ice & Cold Storage - Plant B, St. Joseph
Artesian Ice & Cold Storage - Plant C, St. Joseph
Artesian Ice & Cold Storage - Plant D, St. Joseph

December

Metropolitan Lofts, St. Louis
Gooch Brake (former), Kansas City

Drycleaning Environmental Response Trust Fund

The department’s Drycleaning Environmental Response Trust, or DERT, Fund provides funding for the investigation, assessment and cleanup of releases of chlorinated solvents from dry cleaning facilities. The two main sources of revenue for the fund are the dry cleaning facility annual registration surcharge and the quarterly solvent surcharge.

Registrations

The registration surcharges are due by April 1 of each calendar year for solvent used during the previous calendar year. The solvent surcharges are due 30 days after each quarterly reporting period.

Calendar Year 2011	Active Dry Cleaning Facilities	Facilities Paid	Facilities in Compliance
Jan. - March 2012	207	99	47.83%
April - June 2012	207	180	86.96%
July - Sept 2012	207	192	92.75%
Oct. - Dec. 2012	207	195	94.20%

Calendar Year 2012	Active Solvent Suppliers	Facilities Paid	Suppliers in Compliance
Jan. - March 2012	11	11	100%
April - June 2012	11	11	100%
July - Sept 2012	11	11	100%
Oct. - Dec. 2012	11	10	90.91%

Cleanup Oversight

Calendar Year 2011	Active	Completed	Total
Jan. - March 2012	24	10	34
April - June 2012	24	10	34
July - Sept 2012	25	11	36
Oct. - Dec. 2012	25	11	36

No New Sites Received or Closed

Missouri Department of Natural Resources - Hazardous Waste Program

Reimbursement Claims

The applicant may submit a reimbursement claim after all work approved in the work plan is complete and the fund project manager has reviewed and approved the final completion report for that work. The fund applicant is liable for the first \$25,000 of corrective action costs incurred.

	Received	Under Review	Paid/Processed
October	0	5	2
November	8	10	2
December	4	3	0

	Received	Under Review	Paid/Processed
October	\$0	\$52,819.70	\$41,677.20
November	\$105,635.25	\$100,040.58	\$26,228.25
December	\$48,837.79	\$9,875.37	\$0

Reimbursement Claims Processed:

Site Name	Location	Paid
Bright and Free Laundry & Dry Cleaners	St. Louis	\$17,855.25
Clayton Cleaners	St. Louis	\$27,107.70
Yorkshire Cleaners	Marlborough	\$22,942.50

Total reimbursements as of Dec. 31, 2012: \$2,115,356.31

DERT Fund Balance as of Dec. 31, 2012: \$ 982,203.04

Inspections and Assistance

Regional Office Hazardous Waste Compliance Efforts

Conducted 123 hazardous waste generator compliance inspections:

- 14 at large quantity generators.
- 51 at small quantity generators.
- 44 at conditionally exempt small quantity generators.
- 13 at E-waste recycling facilities.
- One targeted reinspection.

Conducted nine compliance assistance visits at hazardous waste generators.

Issued 46 letters of warning and one notice of violation requiring actions to correct violations cited during the 123 inspections conducted.

Received and investigated a total of 34 citizen concerns.

Hazardous Waste Compliance and Enforcement Efforts

Conducted seven inspections of commercial hazardous waste treatment, storage and disposal facilities.

One inspection resulted in the issuance of a notice of violation.

Resolved and closed three hazardous waste enforcement cases.

Issued five letters of intent to initiate enforcement action.

Finalized one settlement agreement.

Tanks Compliance and Enforcement Unit

The Tanks Compliance and Enforcement Unit staff continues to assist owners, operators and contractors with questions about the amended underground storage tank regulations. On a daily basis, questions are answered about how the regulations are interpreted and applied regarding closure requirements, assessing out-of-use tank systems, assessments to allow steel tanks to remain in use and reporting of underground storage tank, or UST, system tests and evaluations. These efforts are having positive results with the closure of out-of-use UST systems.

To satisfy federal law requiring states to have tank operator training, the Missouri Legislature passed a bill during the 2011 session for the Petroleum Storage Tank Insurance Fund, or PSTIF, to initiate action for UST operator training. During its July 25, 2012, meeting, the PSTIF Board voted in favor of moving forward with the development of this federal requirement. Heather Peters will continue to serve as the liaison with PSTIF on this project, working with staff from the Tanks Section, other department programs and management to provide input and support

During October through December 2012, staff created 13 enforcement records for UST sites that had lapsed financial responsibility coverage. UST owners or operators subject to financial responsibility requirements must have a financial mechanism to clean up a site if a release occurs, to correct environmental damages and to compensate third parties for injury to their property and themselves. Releases can be costly and financial responsibility is an important component in protecting the health and property of tank owners or operators and neighbors. Staff resolved 21 enforcement cases, including 16 that also had financial responsibility violations. The unit also referred nine facilities to the Attorney General's Office to take action for continuing financial responsibility violations.

Polychlorinated Biphenyl Inspector

The inspector conducted 20 compliance inspections at various types of facilities throughout the state. The inspector's reports are forwarded to the U.S. EPA Region 7, which has authority for taking any necessary enforcement action regarding Polychlorinated Biphenyls according to the Toxic Substances Control Act.

Hazardous Waste Transporter Inspector

The inspector conducted 13 commercial vehicle inspections, during which one vehicle was placed out of service. The inspector also wrote up four other Department of Transportation safety violations. Currently, the inspector is putting seven percent of inspected trucks out of service for safety violations. As part of the Commercial Vehicle Safety Association's protocol, the department sends the inspection reports to the Missouri State Highway Patrol. The transporter must certify to the patrol the violations were corrected.

The inspector sent 49 letters to inactive, unregistered or conditionally exempt small quantity generators that shipped either small or large quantities of hazardous waste. These facilities are required to register as generators with the department.

As of Dec. 31, 2012, there were 264 licensed hazardous waste transporters in Missouri. The number of licensed hazardous waste transporters has slowly increased over the past two years.

Missouri Pesticide Collection Program

During summer and fall 2012, the department's Hazardous Waste Program and Environmental Services Program staff oversaw the Missouri Pesticide Collection Program. The Missouri Pesticide Collection Program is part of a Supplemental Environmental Project funded by Walmart in settlement of a hazardous waste enforcement case and executed by a contractor, The Environmental Company. The settlement agreement was signed in March 2012 and required that \$1,050,000 be spent to provide an opportunity for farmers and households in Missouri to properly dispose of their waste pesticides and herbicides.

The collection events for 2012 were completed in October with more than 68,000 pounds of waste collected from nine different locations across the state with about half of the funds expended. On Jan. 7, 2013, Walmart officially requested to extend the program through 2013. Collection events for 2013 are scheduled to begin on March 9, 2013. Currently, Hazardous Waste Program and the Environmental Services Program employees are working on planning for the events including selecting the locations and advertising.

The dates and cities for the upcoming events are:

- March 9, 2012 – West Plains.
- March 23, 2012 – Mexico.
- April 6, 2013 – Maryville.
- April 20, 2013 – Trenton.
- May 18, 2013 – Elsberry.
- June 1, 2013 – Lamar.
- June 15, 2013 – Salem.
- June 29, 2013 – Clinton.

The events will only continue as long as funds remain, so all of these events may not occur.

For more information or questions about the pesticide collection program, visit www.dnr.mo.gov/env/hwp/pesticide or contact Andrew Reed at 573-526-2736.

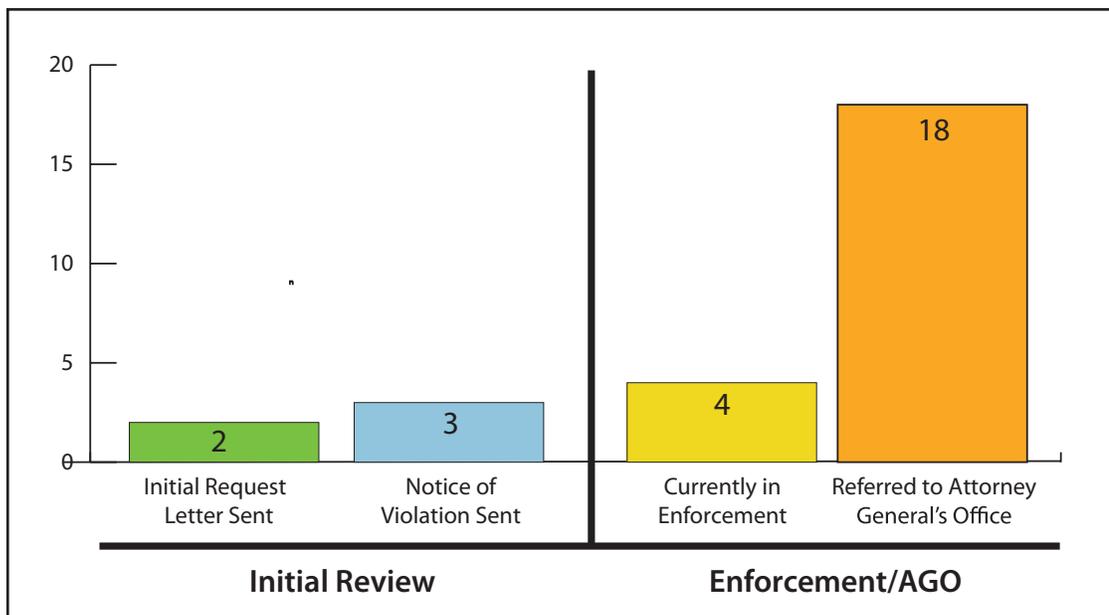
Girton Propane Services – Clay Center, Kansas

Girton Propane Services is a hazardous materials transporter located in Clay Center, Kansas. Girton transported hazardous waste from Lone Star Industries in Cape Girardeau without first obtaining a Missouri hazardous waste transporter license. The company was issued a notice of violation in August 2010. The company provided a response in which they stated they had accidentally allowed the license to expire.

As a result of the violation the company was assessed a \$500 civil penalty, and an additional \$1,000 in cost recovery, paid to the Hazardous Waste Program, for failing to obtain a Missouri hazardous waste transporter license. All of these penalties were to be paid up-front. The company and the department finalized this agreement with an administrative order of consent signed Dec. 13, 2012. The civil penalties and cost recovery were received by the accounting program on Nov. 26, 2012.

Financial Responsibility Update

Financial Responsibility Status	Number of Facilities
Initial Request Letter Sent	2
Notice of Violation Sent	3
Currently in Enforcement	4
Referred to Attorney General's Office	18
Total Number of Facilities with Unknown Financial Responsibility	27



Permit Modifications List Available Online

Facilities or businesses that actively treat, dispose of, or store (for periods longer than allowed by the hazardous waste generator regulations) hazardous waste in Missouri must get a hazardous waste permit. The permit lists what kinds of hazardous waste the facility is allowed to handle and how the waste is managed. It also contains the facility's operating conditions and closure, corrective action and financial assurance requirements.

The department or the facility can make changes to the hazardous waste permit throughout its life. Permit modifications are labeled as Class 1, 2, 3 or department-initiated, depending on how much they change the original permit conditions. The public is invited to review the Department of Natural Resources' list of all completed hazardous waste permit modifications for calendar year 2012. The permit modifications list is online at www.dnr.mo.gov/env/hwp/permits/publications.htm.

For more information or a hard copy of the list, contact the department's Hazardous Waste Program, Permits Section, at 800-361-4827. Hearing and speech impaired individuals may reach the department through Relay Missouri at 800-735-2966.

Permits 2012 - A Year in Review

Each year, the Permits Section coordinates with the U.S. Environmental Protection Agency to prioritize activities at hazardous waste facilities subject to the section's oversight. The section and EPA jointly negotiate general activity goals for the section. These general goals are listed in the *Performance Partnership Grant Work Plan*, an overarching plan that covers the department's air, water and hazardous waste programs. Specific current and future goals for the Permits Section and EPA's hazardous waste staff were also negotiated and are contained in a related document called the *Multi-Year Facility Planning Strategy*. Together these documents guide the section in planning resources and performing activities for the current and future federal fiscal years.

The *Multi-Year Facility Planning Strategy* includes goals anticipated to be accomplished if all of the section's staff positions are filled and all projects go relatively smoothly. The *Multi-Year Facility Planning Strategy* is a "living" document. Projected tasks and project completion dates are routinely updated for a variety of reasons, such as staff turnover and resources, facility bankruptcy, permit appeals, corrective action dispute resolution, investigation findings leading to additional work, public comments, and intervening short-term priorities. The section routinely updates EPA about the status of the section's goals based on the most recent information available and coordinates new projected completion dates with EPA for any delayed goals.

At the end of each federal fiscal year, the section prepares a report for EPA documenting progress about all planned and unplanned activities during that fiscal year. The report focuses mainly on permitting, corrective action and groundwater inspection, and evaluation activities. The following summary information is taken from the 2012 federal fiscal year report, which includes Oct. 1, 2011 through Sept. 30, 2012.

Federal Fiscal Year 2012 Hazardous Waste Permitting Activities

The section coordinated, both internally and with EPA, on the priority of individual projects and tasks as dictated by the National Corrective Action Prioritization System and Overall Priority Ranking System ranking for each facility, as well as goals established by the federal Government Performance and Results Act of 1993. Facility rankings are periodically revised to reflect current environmental and section/EPA project priorities. During 2012, the section did not adjust any facility rankings, but did adjust certain priorities in response to the Government Performance and Results Act goals and the needs of the regulated facilities.

During federal fiscal year 2012, the section completed the following permitting-related activities:

- Five emergency permits: four to the U.S. Army Corps of Engineers/Local Levee districts to manage undetonated explosives related to opening the New Madrid floodway on the Mississippi River, and one to Dyno-Nobel to facilitate timely handling and disposition of explosives contaminated buildings.
- 16 class 1 permit modifications without prior director approval.
- 10 class 1 permit modifications with prior director approval.
- Two class 3 permit modifications: one to Buzzi Unicem/Lone Star and one to U.S. Department of Energy/U.S. General Services Administration - Bannister Federal Complex. Both modifications substantially updated many conditions in these previously-issued permits.
- Four temporary authorizations: one to Green America Recycling LLC, one to Lake City Army Ammunition Plant and two to EBV Explosives Environmental Co.

During federal fiscal year 2012, the section made progress on the reissuance of 14 hazardous waste management facility permits and completion of four closures. Though not complete, the section also worked on three additional class 3 permit modification requests (EBV, Green America and Waste Express) that will substantially update many conditions in these previously-issued permits. The section also resolved the Exide hazardous waste management facility permit appeal. The Doe Run Company withdrew its 2010 hazardous waste management facility permit appeal for the Buick Smelter, which was accepted by the Administrative Hearing Commission in June 2012.

Federal Fiscal Year 2012 Corrective Action Activities

During federal fiscal year 2012, the section made progress on many corrective action activities related to site investigation, monitoring and remediation. The section completed final remedy construction at Beazer East Inc. - Kansas City and the Kansas City International Airport Maintenance Base (MCI) - Kansas City.

The section approved an interim groundwater monitoring work plan for Bayer CropScience - Kansas City and a corrective measures study report for BASF Corp. - Palmyra. The section also approved other work plans and reports for incremental/phased work done in support of longer-term corrective action investigation and cleanup goals at several facilities.

EPA, in coordination with the state, previously developed a format for facility "Ready for Anticipated Use" determination to demonstrate environmental progress at facilities. EPA requested the section incorporate "Ready for Anticipated Use" documentation preparation goals in the current Performance Partnership Grant Agreement. The commitment to prepare Ready for Anticipated Use documentation at appropriate times was included in the Performance Partnership Grant Agreement but not the *Multi-Year Facility Planning Strategy*. The section continues to track Ready for Anticipated Use status and prepare Ready for Anticipated Use documentation for facilities during the corrective action process. The Ready for Anticipated Use determinations are one of a continuum of ongoing EPA initiatives that are essentially an unfunded federal mandate.

Federal Fiscal Year 2012 Groundwater Activities

As part of the *Performance Partnership Grant Work Plan*, the State is obligated by its EPA hazardous waste program authorization to conduct periodic groundwater evaluations at selected hazardous waste facilities. These evaluations are conducted at corrective action facilities with active groundwater monitoring programs and facilities with active and closed land disposal units such as landfills and surface impoundments, where groundwater contamination is present or needs to be monitored to detect releases. These evaluations come in two forms, the comprehensive groundwater monitoring evaluation and the operation and maintenance inspection. The comprehensive groundwater monitoring evaluation is an overarching evaluation of the facility's groundwater monitoring systems and programs. The operation and maintenance inspection is more focused on the examination of groundwater sampling plans, procedures and monitoring well maintenance issues. In each case, the section assesses compliance with the applicable groundwater monitoring regulations and permit conditions. The section continues to coordinate these evaluations with the department's Division of Geology and Land Survey and Environmental Services Program. Each evaluation includes the collection of split groundwater samples to compare and verify the results of samples collected and analyzed by the facility.

During federal fiscal year 2012, no comprehensive groundwater monitoring evaluations were scheduled. Five operation and maintenance reports are typically scheduled for each federal fiscal year. All field work for the five operation and maintenance reports scheduled for federal fiscal year 2012 was completed; however the associated reports were not finalized during the federal fiscal year. These reports are projected to be complete by the middle of federal fiscal 2013, along with four other operation and maintenance reports that were carryovers from 2010 and 2011. The delays in report finalization are mainly the result of staff turnover and competing priorities.

In addition to operation and maintenance reports and comprehensive groundwater monitoring evaluations, the section routinely performs a detailed review of groundwater reports submitted by the facilities, using comprehensive internal checklists. These reviews identify both minor and potentially significant shortcomings with report content or project issues. Since there has been a long history of these reviews and feedback to facilities, any shortcomings from current reviews are usually minor and are handled by including the findings in the facility's next operation and maintenance report or comprehensive groundwater monitoring evaluation. The section sends significant issues that might influence the representative nature of groundwater samples or data, regulatory compliance or otherwise affect project progress to the facility when discovered, rather than waiting until the next operation and maintenance report or comprehensive groundwater monitoring evaluation. Regulatory compliance issues are of major concern and are handled promptly through appropriate enforcement actions.

Financial Assurance Activities

Owners and operators of facilities actively handling hazardous waste as a permitted treatment, storage or disposal facility and facilities with post-closure care or corrective action obligations under other regulatory instruments (e.g., consent orders) are required to meet certain financial assurance and third party liability requirements. This ensures they will have enough funds set aside to close their facility, cleanup any releases of hazardous wastes or hazardous constituents and compensate third parties for bodily injury or property damage resulting from the release of those wastes or constituents, even if the facility declares bankruptcy.

The facility owners and operators submit closure, post-closure or corrective action plans and cost estimates based on those plans and financial assurance instrument documents to the department. The section monitors the facility's financial health and conducts annual financial assurance reviews to make sure enough funding is available to cover the cost estimates for their activities. The section's goal was to conduct 43 financial reviews by the end of federal fiscal 2012. The section exceeded this goal by conducting 43 Resource Conservation and Recovery Act financial reviews and 20 trust reconciliations. In addition to these reviews, the section conducted six Resource Recovery financial assurance reviews. More information concerning financial assurance requirements is available in the *March 2009 Hazardous Waste Management Commission Report*, located online at www.dnr.mo.gov/env/hwp/commission/docs/hwmc-qt-rpt-2009-1st.pdf.

Data Management Activities

The section tracks, both internally and externally, all section activities and accomplishments. Internal tracking is done through the section's Master Task List database and the Division of Environmental Quality's Permit Action Management System database. External tracking is through EPA's Resource Conservation and Recovery Act Information, or RCRAInfo, database. EPA relies almost exclusively on the information entered into RCRAInfo to assess project progress and achievement of regional and national Government Performance and Results Act goals. The section enters permitting, corrective action, financial assurance, inspection, enforcement, institutional control and geographic information system, or GIS, information into RCRAInfo for all state-and joint-lead activities. The section negotiates additional data entry obligations with EPA and outlines them in the Performance Partnership Grant Work Plan.

The section typically enters data in RCRAInfo as soon as a milestone or goal is achieved, but in no case more than 30 days after the event has occurred or documentation regarding the event is received. As new entries are made, the section assesses the accuracy of historical state and EPA data. The section corrects errors for State and joint database entries and forwards potential corrections to EPA's database entries to EPA's Missouri State Coordinator for reconciliation by EPA.

Other Activities

The section uses the *Multi-Year Facility Planning Strategy* process to identify and prioritize major tasks associated with individual projects. The Multi-Year Facility Planning Strategy document does not capture the many "unplanned" activities that come about during the year including facility-proposed permit modifications and incremental/phased work done in support of the listed *Multi-Year Facility Planning Strategy* goals. Completion of some of the unplanned work can be substituted for equivalent planned work to address federal grant requirements for formal *Multi-Year Facility Planning Strategy* goals that could not be completed as planned.

In addition to facility-proposed permit modifications and phased or incremental work, unplanned activities include such things as facility-proposed interim measures, newly-identified Solid Waste Management Unit and area of concern investigations, ongoing involvement in national permitting and corrective action initiatives, permit modifications and state resource recovery certification and modification activities. The section reports all planned and unplanned activities that were completed to EPA in attachments to the section's comprehensive annual report.

Missouri Department of Natural Resources - Hazardous Waste Program

During federal fiscal year 2012, the section spent considerable time and resources on several activities related to the Department of Energy and General Services Administration, or GSA, Bannister Federal Complex Class 3 Permit Modification. The permits were modified to include the entire federal complex under the permits that originally regulated the Kansas City Plant, and add GSA as a permittee. Activities included weekly issues reports, weekly EPA/State technical staff teleconferences, bi-weekly community involvement team teleconferences, numerous website updates to make various documents available to the public, a public availability session and a public hearing. In the time since the modification became effective, the section has spent additional time reviewing documents required by the permit modification compliance schedule, including an original and revised community involvement plan; revised sampling and analysis plan; updated long-term operation, maintenance and monitoring plan; updated spill control/emergency plan and a polychlorinated biphenyl, or PCB, fate and transport study work plan.

The section also spent considerable time and resources following up on facility bankruptcy issues including review, approval and reconciliation of proposed expenditures of trust fund monies recovered during bankruptcy proceedings to perform facility maintenance and monitoring and providing post-bankruptcy information and technical support to department managers, legal staff and the Missouri Attorney General's office regarding bankruptcy-related issues.

The section spent considerable time and resources on bankruptcy issues related to the following companies:

- Doe Run (formerly ASARCO) Glover Smelter.
- Greenfield Environmental Trust LLC (formerly Tronox) - Kansas City.
- Greenfield Environmental Trust LLC (formerly Tronox) – Springfield.
- U.S. Liquids (formerly City Environmental) - Kansas City.

Section staff continue to routinely participate in monthly national EPA/State teleconferences including:

- EPA Groundwater Forum.
- State Hazardous Waste Forum
- National Enforcement Strategy for Corrective Action Workgroup.
- RCRA Financial Assurance Workgroup.
- RCRA Permit Writers Workgroup.
- RCRA Reuse and Brownfields Prevention Workgroup.
- RCRA/TSCA Remediation Workgroup.
- RCRAInfo Change Management Process Financial Assurance Expert and Permitting/Closure groups.
- RCRAInfo Data Workgroup.

Section staff also participate in two Association of State and Territorial Solid Waste Management Officials Hazardous Waste subcommittees:

- Program Operations Task Force and Corrective Action.
- Permitting Task Force.

Annual Underground Storage Tank Sources and Causes Report

The Tanks Section's *Annual Public Record Report* for the period of Oct. 1, 2011, through Sept. 30, 2012 was completed in December 2012. The department has placed this report on the online at www.dnr.mo.gov/env/hwp/tanks/tanks.htm. The report is located under the quick links. This report is also available by request to those without Internet access.

Subsection (c) of Section 1526 of the Energy Policy Act amended Section 9002 in Subtitle I of the Solid Waste Disposal Act to add requirements for states to maintain, update and make available to the public a record of underground storage tanks regulated under Subtitle I. EPA requires each state receiving funding under Subtitle I to meet the public record requirements. Subsection (d) of Section 9002 in Subtitle I requires EPA to prescribe the manner and form of the public record and says the public record of a state must include:

1. The number, sources and causes of underground storage tank releases in the state.
2. The record of compliance by underground storage tanks in the state with Subtitle I or a State program approved under Section 9004 of Subtitle I.
3. Data about the number of underground storage tank equipment failures in the state.

The first section of the report describes the number of underground storage tank facilities, individual regulated tanks, compliance rates in Missouri and an individual breakdown of the sources and causes of releases opened in federal fiscal 2012.

The website also includes reports about the sources and causes of Underground Storage Tank leaks for previous years. The first report was completed in December 2008.

Tanks Accomplishments for 2012

The Tanks Section held the Fifth Annual UST workshop as part of the Missouri Waste Coalition Conference in June. The topics of the workshop were training for new monitoring well regulations, new well driller website and database, and common issues with site characterization and risk assessment reports.

The Tanks Section and the Compliance and Enforcement Section are participating in the Planning Team for the National Tanks Conference to be held in Denver in September 2013.

Continued an expedited review process ensuring remediation reviews of high priority sites are completed in a timely manner.

Continued an initiative for closing tank sites that have been open for more than 20 years. The goal is to help provide additional information to the consultant to facilitate completion of these projects and help to achieve no further action status for these sites.

Valerie Garrett is participating on a workgroup for the International Technology and Regulatory Council on Petroleum Vapor Intrusion.

The Tanks and the Compliance and Enforcement Section provided technical assistance at the annual PACE convention in Kansas City in February. The convention is an annual Missouri owned marketers and convenience store officials trade show.

The Tanks Section continues to investigate drinking water contamination in Portageville and will conduct an investigation to determine the source of contamination.

In Buffalo, the Tanks Section has placed a filter on the well and will be looking for funding to perform source removal and well replacement.

Missouri Department of Natural Resources - Hazardous Waste Program

In Potosi, the Tanks Section is currently determining the source of the drinking water contamination. Public water has recently been made available to the residents, so no further use of filters on drinking water wells is necessary.

After complaints in Gravois Mills, the Tanks Section installed a carbon filtration system on the drinking water well and is evaluating the extent of benzene contamination in the drinking water.

The Tanks Section applied for and received a grant of \$43,000 to conduct cleanup activities at seven former gasoline stations previously investigated with American Recovery and Reinvestment Act funds for which a responsible party does not exist. At these sites, action by the department are necessary to mitigate unacceptable human health and environmental risks posed by petroleum underground storage tanks. This project would fund work by the department and the department's hired contractors to reduce risks associated with these sites. Work began on the project in 2012 and will be completed in 2013.

Continued to refine the system for tracking financial responsibility to identify sites that previously could have fallen through the cracks. Maintained a high compliance rate of more than 99 percent for facilities with acceptable financial responsibility.

An automated registration form is in the works. The user will be able to generate a prefilled registration from a button in the Tanks database. This feature will be of great assistance to both department staff and the public.

Updated GIS data to conform to department standards.

Generated, processed and mailed the large fee cycle invoices for 2011 - 2016. Extra effort was made to reach the facilities and owners. Out of 285 invoices, only six facilities still have a balance due, resulting in a success rate of revenue collection of 97.9 percent.

Continued development of database enhancements and tracking systems: Remediation Mail Tracking was further developed in 2012. Remediation follow-up was added to the sections tracking system to ensure correspondence is dealt with in a prompt and consistent manner. This tracking system is directly linked to the mail log. The project manager is immediately notified as soon as the mail is received and entered. Added additional due dates to tracking system to ensure follow up is accomplished.

Continued a temporary closure initiative aimed at ensuring non-upgraded tanks are not in temporary closure beyond the 12 months allowed. This has led to permanent closure at many of these sites and a reduction of temporary closed tanks.

The Tanks Section continues to participate in an historic highways revitalization project and has identified several opportunities in Missouri for EPA targeted Brownfields assessments.

The Tanks Section produced the Fifth Annual Public Record Report to EPA in December 2012. This report includes the sources and causes of releases by tanks in Missouri.

The Tanks Section continued participation with the Underground Storage Tank ASTSWMO Federal Rulemaking Group. This group is tasked with providing regulatory and state input into rulemaking involving federal UST regulations.

The Tanks Section continued participation on ASTSWMO UST Task Force. This task force is responsible for providing the states viewpoint to EPA about tank issues. Also, the Tanks Section continued to participate in the ASTSWMO Program Information Exchange Committee to help plan ASTSWMO meetings

Missouri Department of Natural Resources - Hazardous Waste Program Tanks

TANKS

Laura Luther from the Tanks Section continued to participate in the ASTSWMO Leaking Underground Storage Tanks Task Force. This task force is responsible for providing the State's viewpoint to EPA about tank cleanup issues. Her involvement in this task force ended in March 2012.

Participated in the planning of a UST Forum in Washington D.C. in August 2012.

Continued use of contractors to help reduce turn-around times and conduct additional remediation reviews. This effort was funded through May.

The Tanks Section continued to maintain an average turn-around time of 37.7 days that meets section goals. This was accomplished even with vacancies of four project managers for the bulk of the year.

The Tanks Section was able to maintain a reduced turn-around time for closures of less than 25 days throughout much of 2012.

During calendar year 2012, the department accomplished the following work related to petroleum storage tanks:

- Properly closed 376 tanks.
- Reviewed 280 closure reports.
- Approved 145 closure notices.
- Conducted 38 closure inspections.
- Conducted five site investigations.
- Responded to 13 emergencies involving petroleum releases.
- Oversaw completion of 142 remediation sites.
- Issued 210 certificates of registration.
- A total of 145 new releases were reported during calendar year 2012.
- Remediation staff received 2,143 remediation documents and generated 1,521 response letters.
- Department staff were notified of 71 new installations at tank sites and received 62 new site registrations.
- Compliance and Enforcement Section staff resolved 98 cases involving violations.
- At the end of the 2012 calendar year, there were 266 active enforcement cases.
- Financial responsibility compliance was at 99.1 percent. This number reflects insurance coverage from both PSTIF and other private policies and statements.
- The department currently regulates 3,548 facilities with 9,299 active underground storage tanks.

The Tanks Section finalized, routed for review, signature, copied and mailed 2,153 documents.

**Petroleum Storage
Tanks Regulation
December 2012**

Staff Productivity	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	TOTAL
Documents received for review	158	184	160	207	164	128	0	0	0	0	0	0	1,001
Remediation documents processed	87	123	146	131	112	127	0	0	0	0	0	0	726
Closure reports processed	8	20	16	7	10	11	0	0	0	0	0	0	72
Closure notices approved	18	9	16	17	12	5	0	0	0	0	0	0	77
Tank installation notices received	7	10	2	5	2	6	0	0	0	0	0	0	32
New site registrations	2	7	9	5	3	2	0	0	0	0	0	0	28
Facility Data													
Total in use, out of use and closed USTs	40,425	40,441	40,478	40,501	40,511	40,522	0	0	0	0	0	0	
Total permanently closed USTs	31,072	31,095	31,146	31,173	31,185	31,221	0	0	0	0	0	0	
In use and out of use USTs	9,335	9,341	9,346	9,343	9,324	9,299	0	0	0	0	0	0	
Out of use USTs	836	843	850	837	832	840	0	0	0	0	0	0	
Total hazardous substance USTs	398	398	398	398	398	398	0	0	0	0	0	0	
Facilities with in use and out of use USTs	3,557	3,562	3,563	3,562	3,555	3,548	0	0	0	0	0	0	
Facilities with one or more tank in use	3,260	3,260	3,259	3,263	3,263	3,258	0	0	0	0	0	0	

Closures

Underground Storage Tanks	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	TOTAL	All Yrs
Closure Reports Reviewed	8	20	16	7	10	11	0	0	0	0	0	0	72	
Closure Notices Approved	18	9	16	17	12	5	0	0	0	0	0	0	77	
Number of Tanks Closed (Closure NFA)	30	23	51	27	12	17	0	0	0	0	0	0	160	

Cleanup

Underground Storage Tanks	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	TOTAL	All Yrs
UST release files opened this month	11	7	10	10	5	15	0	0	0	0	0	0	58	6,477
UST cleanups completed this month	4	12	23	11	6	6	0	0	0	0	0	0	62	5,576
Ongoing UST cleanups	907	905	894	892	892	901	0	0	0	0	0	0		
Aboveground Storage Tanks														
AST release files opened this month	3	1	1	0	3	0	0	0	0	0	0	0	8	455
AST cleanups completed this month	0	2	2	1	2	0	0	0	0	0	0	0	7	265
Ongoing AST cleanups	193	192	189	189	190	190	0	0	0	0	0	0		
Both UST and AST														
Total release files-both UST & AST	0	0	0	0	0	0	0	0	0	0	0	0	0	75
Cleanups completed-both UST & AST	1	0	1	0	0	0	0	0	0	0	0	0	2	46
Ongoing cleanups-both UST & AST	29	29	28	29	29	29	0	0	0	0	0	0		
Unknown Source														
Total release files-unknown source	0	0	0	0	0	0	0	0	0	0	0	0	0	215
Cleanups completed-unknown source	0	0	1	0	0	0	0	0	0	0	0	0	1	177
Ongoing cleanups-unknown source	18	16	15	14	13	12	0	0	0	0	0	0		
Documents Processed	87	123	146	131	112	127	0	0	0	0	0	0	726	
*Reopened Remediation Cases	1	1	0	0	0	0	0	0	0	0	0	0	2	76

Effective December 2008 tanks with unknown substance will be included in total figures. Some measures are re-calculated each month for all previous months to reflect items added or edited after the end of the previous reporting period.