

Introduced by \_\_\_\_\_ Council Bill No. R 176-13

**A RESOLUTION**

authorizing a license agreement with Clean Energy for design, construction, operation and maintenance of a compressed natural gas (CNG) fueling station on City-owned property located at 1900 Lake Ridgeway Drive.

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The City Manager is hereby authorized to execute a license agreement with Clean Energy for design, construction, operation and maintenance of a compressed natural gas (CNG) fueling station on City-owned property located at 1900 Lake Ridgeway Drive. The form and content of the agreement shall be substantially as set forth in "Exhibit A" attached hereto and made a part hereof as fully as if set forth herein verbatim.

ADOPTED this \_\_\_\_\_ day of \_\_\_\_\_, 2013.

ATTEST:

\_\_\_\_\_  
City Clerk

\_\_\_\_\_  
Mayor and Presiding Officer

APPROVED AS TO FORM:

\_\_\_\_\_  
City Counselor

COMPRESSED NATURAL GAS VEHICLE  
FUELING STATION LICENSE AGREEMENT

This Agreement (the "Agreement") is made and entered into as of September 3, 2013 ("Effective Date") by and between the CITY OF COLUMBIA, a Missouri municipal corporation ("City") and CLEAN ENERGY, a California corporation ("CE"). City and CE are sometimes referred to in this Agreement individually as a "Party" or jointly as "Parties."

In consideration of the mutual promises, covenants, and agreements herein contained, the sufficiency of which is hereby agreed to by the Parties, the Parties hereto agree as follows:

ARTICLE 1  
CONDITION PRECEDENT; SCOPE OF AGREEMENT & DEFINITIONS

1.1 Condition Precedent to the Obligations of the Parties. The obligations of the City and CE under this Agreement are subject to the City's completion of the work specified in Exhibit IV ("City Work"). The City must complete the City Work in accordance with the final approved construction drawings and plans ("Drawings and Plans") and in a manner reasonably satisfactory to CE. The City shall notify CE, in writing, upon the completion of the City Work. CE shall have ten (10) business days to review and inspect the City Work after receipt of such notice. If within such ten (10) business day period, CE submits to the City reasonable requests for modifications of the City Work to comply with the Drawings and Plans, the City shall diligently prosecute such requested modifications to the City Work to completion and notify CE upon completion of such modifications. All obligations of the City under this Agreement which require the expenditure of funds are conditional upon the availability of funds budgeted and appropriated for that purpose.

1.2 Intent. This Agreement expresses the terms and conditions pursuant to which the City authorizes CE to design, construct, operate and maintain a compressed natural gas fueling station on property owned by the City located at 1900 Lake Ridgeway Drive, Columbia, Missouri 65202 for use by the City and other Third Party Users, and for no other purpose.

1.3 Definitions. As used in this Agreement, the following terms and expressions shall have the indicated meanings:

"Agreement" means this document and any and all exhibits attached hereto.

"BTU" means British Thermal Unit.

"CE" means Clean Energy acting by and through its employees, officers, affiliates, subcontractors and authorized agents.

“City” means City of Columbia, Missouri, acting by and through its employees, officers and authorized agents, with its principal office at City Hall, 701 East Broadway, Columbia, Missouri 65205.

“City Vehicles” means CNG Vehicles owned and/or operated by the City.

“CNG” means pipeline quality natural gas, compressed for vehicle use.

“CNG Vehicle(s)” means motor vehicles powered by internal combustion engines using CNG as a primary fuel.

“Environmental Laws” means any present or future federal, state, or local statute, regulation, order, directive, or other requirement of a governmental authority relating to the protection of public health, safety, and the environment. “Environmental Laws” include, by way of example and without limitation, the Comprehensive Environmental Response, Compensation and Liability Act; the Hazardous Materials Transportation Act; the Resources Conservation and Recovery Act; the Toxic Substance Control Act; the Clean Air Act; the Clean Water Act; the Hazardous Substance Control Act; the Emergency Planning and Right-to-Know Act; the Occupational Safety and Health Act; the Underground Tank Act; and any so-called “Super-Fund” or “Super-Lien” laws

“Gasoline Gallon Equivalent” (“GGE”) means a conversion of one gallon of gasoline to its energy equivalent as a measure of volume of natural gas, which is 124,800 BTU/gallon.

“Hazardous Substance” means any hazardous substances, hazardous wastes, hazardous materials, pollutants, or contaminants as such terms are defined in any “Environmental Laws” and associated regulations including, by way of example and without limitation, (1) any substance the presence of which requires or may later require notification, investigation or remediation under any Environmental Laws; (2) any substance that is toxic, explosive, corrosive, flammable, infectious, radioactive, carcinogenic, mutagenic, or otherwise hazardous and is or becomes regulated by any governmental agency, authority, board, commission, department, or instrumentality of the United States, any state of the United States, or any political subdivision within any state; (3) any substance that contains gasoline, diesel fuel, or other petroleum hydrocarbons or volatile organic compounds; (4) any substance that contains polychlorinated biphenyls (PCBs), asbestos or urea Formaldehyde foam insulation; and (5) any substance that contains or emits radioactive particles, waves, or materials, including, without limitation, radon gas.

“Party” or “Parties” means CE and City, in their respective capacities as parties to this Agreement.

"Premises" means an approximately 23,000 square foot portion of the real property owned\_ by City and located at 1900 Lake Ridgeway Drive, Columbia, Missouri 65202 upon which the Station will be constructed and operated as set forth in Exhibit I.

"Station" means the facility for refueling CNG Vehicles designed, constructed, operated and maintained by CE as more fully described in Exhibit II.

"Therm" means 100,000 British Thermal Units.

"Third Party Users" means CNG Vehicles owned and/or operated by entities other than the City.

## ARTICLE 2 RESPONSIBILITIES OF CE

2.1 Station. At its sole cost, CE shall design, construct, operate and maintain the Station on the Premises, and shall be responsible for obtaining all necessary permits from federal, state, and local authorities relating to the design, construction, operation and maintenance of the Station\_(the "Approvals"). CE shall use all commercially reasonable efforts to obtain the Approvals, and shall notify the City immediately upon receipt of said Approvals (the "Approval Date"). CE shall present its plans to the Department of Public Works in order to obtain concurrence in the site plan prior to its formal submission to the City for approval, and the City and its departments will use reasonable efforts to expeditiously provide comments and advise with respect to such site plans. The Station shall be located on the Premises as shown in Exhibit I. The Station shall include a dispenser designed for public access (the "Public Dispenser") for Third Party Users, as shown in Exhibit I. .

2.2 CNG Service to City. For the duration of this Agreement, CE shall be responsible for the procurement and compression of natural gas to provide the Station with CNG to fuel City's Vehicles and will invoice the City in accordance with the rates set forth in Exhibit III; however, the City shall have the option to enter into its own agreements for the procurement of natural gas at market rates to the extent that CE and the City are able to work together to reasonably implement this option.

2.3 CNG Service to Third-Party Users. CE shall provide the Station with CNG to fuel Third Party User vehicles and will bill the Third-Party Users at rates set in CE's sole and absolute discretion. Unless otherwise agreed to by the Parties, fueling of the City's Vehicles shall take priority over fueling vehicles of Third-Party Users.

2.4 Maintenance. CE shall maintain the Station in accordance with the following requirements:

2.4.1 Routine Maintenance. CE shall provide scheduled, routine



maintenance service for the term of this Agreement and shall repair, or replace, any defective parts or equipment at its expense. "Routine Maintenance" means "any and all maintenance recommended or required by the equipment manufacturers, by codes and regulations, and by current industry best practices." CE will provide a proposed maintenance schedule indicating the frequency and duration of scheduled site visits and tasks to be performed prior to any CNG being sold. CE shall also perform other necessary maintenance or repairs, including emergency repairs, at its expense, in order to keep the Station operating. However, any maintenance or repair costs incurred due to damage, abuse or neglect by City's personnel shall be billed to City at CE's then-existing rates.

2.4.2 Scheduling. The Station is designed with redundant compression equipment to prevent an inability to dispense CNG, therefore maintenance services that require the Station to be out of operation in its entirety are unlikely. In the event that it is necessary for the Station to be completely out of operation for planned maintenance services that are expected to take more than four (4) hours, CE and City shall coordinate a mutually agreeable time for such services.

2.4.3 Service Calls. CE shall be available to provide emergency repair service on a 24-hour, 7-day per week basis, and will provide an emergency contact telephone number to City. In the event of an emergency at the Station, CE shall respond within four (4) hours following notification by City, and will use reasonable efforts to restore the operation of the Station as soon as is feasible. CE utilizes service technicians that are employees of CE. CE's maintenance technician based in the St. Louis, Missouri service area will provide maintenance support for the Station. CE may also utilize service technicians based in Kansas City, Missouri and beyond to provide support for the Station. The Station will be remotely monitored 24-hours daily by CE. Remote monitoring capability allows CE to identify, diagnose, and correct most system malfunctions prior to detection by users of the Station.

2.5 Training. CE shall offer reasonable training programs to educate City's personnel as to the procedures for the safe and efficient use of the Station, including, without limitation, procedures relating to safe vehicle fueling, troubleshooting and appropriate emergency procedures, specifically to include fire protection and response.

2.6 Compliance with Law. In performing the obligations under this Agreement, CE shall comply with all applicable federal, state and local laws, regulations, ordinances and rulings, including (but not limited to) those pertaining to health, safety, employment and environmental matters.

2.7 Utility Service Charges. CE shall be responsible for payment of all utility service charges for utility service consumed at the Station during the Term (including, without limitation, electricity, water, waste disposal, refuse collection and other utility-type services furnished to CE or the Station).

2.8 CE's Costs. Except as specified in this Agreement, or as may be

separately agreed to by City and CE, CE shall not charge City for other costs incurred in providing the services described in this Article. CE shall be responsible for the ad valorem or possessory interest taxes relating to the Station.

2.9 Access to Records and Audits. Within ten (10) days of a written request from the City, CE shall provide the City with reasonable access to its invoicing and fuel consumption records for the Station. Any and all review of such records shall be done at the City's sole cost and expense. As used herein, "Audit" shall mean a comprehensive review of the charges assessed and services performed under this Agreement.

2.9.1 Upon thirty (30) days written notice, the City shall have the right, through its authorized representative(s), to perform an Audit. Within the 30-day period described above, the Parties shall reasonably agree upon the scope of the Audit, the documents and processes to be reviewed, and the time, place, and manner in which the Audit shall be performed. CE agrees to provide Audit support, including reasonable access to and use of its facilities (e.g. conference rooms, telephones, copying machines). City shall pay all reasonable out-of-pocket costs for the use of CE's facilities.

2.9.2 Each Party shall bear the cost of its own expenses in connection with the conduct of the Audit, unless City seeks data or information that is not kept by CE during the normal course of its business, in which case City shall pay any costs for the compilation, creation, or production of such data or information.

2.9.3 Adjustments, credits, or payments shall be made, and any correction action shall commence, within thirty (30) days from the City's receipt of the final audit report to compensate for any errors or omissions which are disclosed by such Audit and are agreed to by the Parties. One percent (1%) or the highest interest rate allowable by law for commercial transactions, whichever is lower, shall be assessed and shall be computed on any adjustments, credits or payments if the audit establishes an overpayment or underpayment of greater than two percent (2%) of the actual amount due by compounding monthly from the time of the error or omission to the day of payment or credit. In no case, however, will any adjustments, credits, or payments be made for errors or omissions that occurred more than two (2) years prior to the audit request date.

2.9.4 Neither the right to Audit, nor the right to receive an adjustment, shall be affected by any statement to the contrary appearing on checks or otherwise, unless such statement expressly waiving such right appears in writing, is signed by the authorized representative of the City, and is delivered to CE in a manner provided by this Agreement.

2.9.5. This Section 2.9 shall survive expiration or termination of this Agreement for a period of two (2) years after expiration or termination of this Agreement.

2.10 Maintenance of Premises. CE shall maintain the Premises and the real

property in the vicinity of the Station in a clean, safe, and good condition suitable for CNG Vehicle refueling use, including the ingress to, and egress from, the Station.

2.11 Station Security. CE shall install security cameras at the Station to monitor activity at and near the fueling lanes and compression equipment. If viewable via weblink, CE shall make available to City any camera-feeds from the Station. CE shall ensure the area inclusive of the Station compression equipment, fuel storage and natural gas dryer remain locked and only accessible by CE and those authorized to access such areas by CE.

2.12 Environmental. Notwithstanding any other provisions of this Agreement, and in addition to any and all other requirements of this Agreement or any other covenants, representations, or warranties of CE, CE expressly covenants, warrants and represents to City, in connection with CE's operations on the Premises, the following:

2.12.1 CE is knowledgeable of and agrees to comply with all applicable federal, state, and local environmental laws, ordinances, rules, regulations, and orders that apply to CE's facilities or operations at the Premises and acknowledges that such environmental laws, ordinances, rules, regulations, and orders change from time to time, and CE agrees to keep informed of any such future changes.

2.12.2 CE, its officers, agents, servants, employees, invitees, independent contractors, successors, or assigns will not discharge or spill any Hazardous Substance, as defined herein, into any component of the storm drainage system or onto any paved or unpaved area within the boundaries of the Premises. CE shall be responsible to arrange for and pay the costs of proper disposal of any and all Hazardous Substances resulting from the CNG station construction, operation, and maintenance during the term of this Agreement. Disposal of Hazardous Substances on the Premises is strictly prohibited. Storage and use of Hazardous Substances on the Premises is prohibited except: CE may store and use Hazardous Substances on the Premises in a safe and prudent manner and in accordance with the requirements of all applicable environmental laws those kinds and quantities of Hazardous Substances that are normally used in conducting the activities permitted under this Agreement. CE shall provide City with a copy of any application for a permit for use or storage of Hazardous Substances on the Premises from any regulatory agency responsible for enforcement of environmental laws. CE shall also provide a copy of any permit received from such agency. CE agrees to provide City, within 10 days after City's request, copies of all hazardous waste permit application documentation, permits, monitoring reports, transportation, responses, storage and disposal plans, material safety data sheets and waste disposal manifests prepared or issued in connection with CE's use of the Premises.

2.12.3 In addition to any and all other requirements of CE to indemnify and hold City harmless contained in this Agreement, CE agrees to hold harmless and indemnify City for any violation by CE of such applicable federal, state, and local environmental laws, ordinances, rules, regulations, and orders and for any non-compliance by CE with any permits issued to CE pursuant to such environmental laws, which hold harmless and indemnity will

include but not be limited to, enforcement actions to assess, abate, remediate, undertake corrective measures, and monitor environmental conditions and for any monetary penalties, costs, expenses, or damages, including natural resource damages, imposed against CE, its employees, invitees, suppliers, or service providers or against City by reason of CE's violation or non-compliance.

2.12.4 CE shall be solely and fully liable for: (a) any use of Hazardous Substances on the Premises, by CE, CE's officers, agents, employees, contractors, permittees or invitees; and (b) any Hazardous Substance release which is caused by or results from the activities of CE, CE's officers, agents, employees, contractors, permittees or invitees on the Premises,

2.12.5 CE agrees to cooperate with any investigation, audit, or inquiry by City or any governmental agency regarding possible violation of any environmental law or regulation upon the Premises. CE, at CE's sole cost and expense, shall promptly investigate and remediate in accordance with requirements of all applicable environmental laws any release or danger of release of Hazardous Substance on the Premises, including, but not limited to, into soil, groundwater, or the City's sewage or storm drainage system which was caused or results in whole or in part from the activities of CE, CE's officers, agents, employees, contractors, permittees or invitees. In addition to all other rights and remedies of the City hereunder, if CE does not promptly commence and diligently pursue to remediate any such release or danger of release of Hazardous Substances, City, in its discretion, may pay to have same remediated and CE shall reimburse City within fifteen (15) business days of City's demand for payment. The failure to commence remediation and provide City with a schedule for diligent completion of the remediation within thirty (30) days after discovery of such release or danger of release of Hazardous Substance shall constitute *prima facie* evidence of failure to promptly commence remediation. The demand for payment by City shall be *prima facie* evidence that the expense incurred was necessary and reasonable and that such expense was incurred by City on behalf of CE.

2.12.6 CE shall be solely and fully responsible for notifying the appropriate public agencies of any Hazardous Substance release which is caused by or results from the activities of CE, CE's officers, agents, contractors, permittees or invitees on the Premises. CE shall notify City of any Hazardous Substance release which occurs on the Premises and is caused by or results from the activities of CE, CE's officers, agents, employees, contractors, permittees or invitees, regardless of whether the release is in a quantity that would otherwise be reportable to a public agency. CE agrees that any notice of violation, notice of non-compliance, or other enforcement action of the nature described herein will be provided to City within 24 hours of receipt by CE or CE's agent.

2.12.7 CE's discharge, spill or introduction of any Hazardous Substance onto the Premises or into any component of City's sanitary or storm drainage systems will, if not remedied by CE with all due dispatch, at the sole discretion of City, be deemed a default and cause for termination of this Agreement by City, subject to notice and cure. Such termination

will not relieve CE of or from liability for such discharge or spill.

2.12.8 At the end of the Agreement, CE will dispose of all solid and hazardous wastes and containers in compliance with all applicable regulations. Copies of all waste manifests will be provided to City at least 30 days prior to the end of the Agreement. At the end of the Agreement, CE shall fully restore the Premises, to substantially similar condition it was in prior to the Agreement.

2.12.9 CE agrees that all remedies of City as provided herein with regard to violation of any federal, state, and local environmental laws, ordinances, rules, regulations, or orders will be deemed cumulative in nature and will survive termination of this Agreement.

2.12.10 In entering this Agreement, City expressly relies on the covenants, representations, and warranties of CE as stated herein.

### ARTICLE 3 CITY'S RESPONSIBILITIES

3.1 Work to be Performed by City. At its sole cost and expense, the City shall complete all of the City Work.

3.2 Protection of CE Property. City shall install fencing around the compressor compound to protect the Premises and the Station, provided, however, that City shall have no obligation to insure the same or to indemnify CE for loss or damage thereof, except as expressly provided in the indemnification provision provided below.

3.3 Refueling Vehicles. City employees shall refuel its CNG Vehicles. City will provide appropriate training and supervision for employees, including, but not limited to, scheduling attendance at all appropriate training sessions provided by CE.

3.4 Utilities Installation. City shall pay any connection or installation fees associated with installing utility service at the Station, including gas, electricity, and telephone lines. The installation of all such utility services must be in compliance with the Drawings and Plans.

3.5 Compliance with Law. In performing its obligations under this Agreement, City shall comply in all material respects with all applicable federal, state and local laws, regulations, ordinances and rulings, including, but not limited to, those pertaining to health, safety, employment and environmental matters.

3.6 Payment of CE Billings. City shall pay each invoice submitted by CE within thirty (30) days following receipt of the invoice by City. For purposes of this Section, receipt shall be defined as five (5) days after the invoice is mailed by CE. Any payments not made when due shall accrue interest on the unpaid amount at a rate of 12% per annum,

calculated from the date payment is due to and including the date payment is received by CE.

3.7 City's Costs. Except as otherwise specified in this Article, or as may be separately agreed to in writing by City and CE, City shall not charge CE for the materials or labor utilized in providing the services provided in this Article. City shall be responsible for all taxes (including, without limitation, any real property taxes and assessments) relating to the Premises contemplated in this Article.

#### ARTICLE 4 LICENSE TO USE PREMISES

4.1 Permitted Use. To enable CE to fulfill its obligations set forth herein, City hereby licenses and permits CE to use the Premises and grants the right of ingress to and egress from the Premises to CE, CE's employees, agents, servants, customers, vendors, suppliers, patrons and invitees for the purposes contemplated hereby in accordance with the terms and conditions of this Agreement. City shall not levy any rent, charge, lien or encumbrance not expressly provided for in this Agreement against CE for the use of the Premises or the Station.

4.2 Clear Title. City is, and shall remain during the Term (as defined below) of this Agreement, the owner or lessee of the Premises, and shall not allow any lien or encumbrance affecting the Station or CE's performance hereunder. CE shall be the owner of the Station, and its parts and equipment. Subject to prior written consent from the city (which consent shall not be unreasonably withheld), CE shall have the right to grant a lien or encumbrance against its right, title and interest in the Station or its equipment to a third party for financing purposes; provided, however, that CE shall not permit any liens or encumbrances of any kind to be placed on the Premises, and shall promptly discharge, at its expense, any and all mechanic's, laborer's or materialman's liens, encumbrances or charges against the Premises or the Station related to its performance under this Agreement.

4.3 Sale, Abandonment or Removal. Unless otherwise agreed to by the Parties in writing, upon termination or expiration of this Agreement, CE shall be obligated to either: (i) sell the Station to City on mutually agreeable terms; (ii) remove the Station at CE's sole expense (including any and all merchandise, equipment, furnishings, fixtures, machinery and tools relating to the Station), from the Premises, which shall be restored in all material respects to their condition as of the date of this Agreement, including the removal of any underground piping unless otherwise requested by City; or (iii) with the City's written consent, abandon the same in place by quitclaiming all of its right, title and interest therein to City.

4.4 Pre-Existing Conditions. For a period of ninety (90) days from the Effective Date, CE shall have the right to inspect and conduct an environmental assessment of the Premises. Nothing in this Article will be construed to make CE liable in any way for any contamination or release of Hazardous Substances affecting the Premises that occurred prior to CE's entry upon or occupancy of the Premises by CE or that occurred as a result of the actions of City or any of its employees, agents, or contractors. CE has been given a copy of the report dated

December 5, 2012, prepared by Midwest Environmental Consultants and entitled Phase 1 Environmental Site Assessment, CNG Fueling Station attached hereto as Exhibit V and incorporated herein, documenting the environmental status of the Premises. Such report is incorporated herein by reference and shall serve as the baseline report of the environmental condition of the Premises on the Effective Date of this Agreement. The Parties acknowledge and agree that City shall have the right to continue environmental monitoring activities during the Term of this Agreement. City reserves the right to construct groundwater monitoring wells and collect soil and water samples on the Premises as may be required by state and local environmental regulatory agencies.

4.5 Environmental Inspection at End of Agreed Term. At least 120 days before the expiration or early termination of the initial Term, or renewal Terms, if any, as provided herein, CE will conduct an environmental inspection and examination of the Premises. City's staff may also conduct a site inspection.

4.5.1 If warranted by the findings of CE or City's inspection or if requested by the City, a compliance audit or site assessment will be performed within the aforementioned time period by a qualified professional acceptable to the City and report the findings to the City. The cost for professional consulting or engineering services required for such audit will be at the expense of CE. If a site assessment is conducted, CE agrees to pay all associated laboratory and testing fees incurred to test and analyze samples collected during the site assessment process. City may also choose to conduct the compliance audit or site assessment. If the results of the assessment indicate that Premises have been impacted by the release of Hazardous Substances or hazardous waste is detected, CE will immediately take such action as is necessary and will provide a substantial guaranty in a form and content acceptable to City that CE will clean up the contamination at its own expense, at no expense to City, and in accordance with applicable federal, state, and local law to the extent that it is obligated to do so by virtue of the foregoing provisions of this Article.

4.6.2 If City is unable to lease or use the Premises during the period of a cleanup due to the environmental condition of the Premises that is the result of CE's negligence or willful misconduct, CE will pay for lost rent to City up to a maximum of six (6) months, in addition to any other damages for which CE may be liable.

4.5.3 The firm conducting cleanup work must be approved by City, and the methodology used by such firm will be consistent with engineering practices and methods required by the state of Missouri or the United States government and be reasonably acceptable to City.

4.6 City's Right of Entry. In addition to the City's use of the Premises as provided in Section 2.2 hereof and as otherwise provided in this Agreement, provided that the City does not unreasonably interfere with CE's operation of the Station, the City shall have the right to enter the Premises at any time to assess emergency, environmental, or safety issues, and with not less than twenty-four (24) hours prior written notice to CE, to complete the City Work or to determine if the Premises is in a commercially reasonable condition and that CE is in

compliance with this Agreement.

## ARTICLE 5 TERM AND TERMINATION

5.1 Term. The initial term ("Initial Term") of this Agreement shall commence on the Effective Date and end on the fifteenth (15<sup>th</sup>) anniversary of the date City first purchases CNG from the Station (the "Commencement Date"). Within ten (10) days of the initial purchase of CNG, CE shall confirm the date of the Commencement Date to City in writing. This Agreement shall automatically renew under the applicable terms and conditions as set forth in this Agreement for one or more additional terms ("Continuation Term") of five (5) years each unless: (i) CE or City gives notice of cancellation to the other party at least six (6) months prior to such renewal date; or (ii) City exercises its options under Sections 5.2, 5.3, or 5.4 of this Agreement. For purposes of this Agreement, the Initial Term and all Continuation terms are referred to herein as the "Term."

5.2 Station Transfer Option. Upon the expiration of the Term, City has the option to require CE to transfer ownership of the Station to the City free and clear of all liens and encumbrances and provide City a bill of sale for the Station. To exercise this option, City must notify CE that City intends to exercise its option at least six (6) months prior to the expiration of the Term, and notify CE that City desires to enter into a mutually agreeable operations, maintenance and retail agreement with CE prior to the expiration of the Term pursuant to terms set forth in Exhibit III. In the event that City exercises this option, CE shall cooperate fully in the station ownership transition, including executing, acknowledging, and delivering any and all such instruments and documents as may be reasonably necessary and coordination of scheduling with the City.

5.3 Termination of Agreement and Removal of Station Option. Upon the expiration of the Term, the City has the option to require CE to dismantle and remove the Station and all of CE's equipment from the Premises. To exercise this option, City must notify CE that City intends to exercise its option at least six (6) months prior to the expiration of the Term. In the event that City exercises this option, CE shall cooperate fully in the station removal, including executing, acknowledging, and delivering any and all such instruments and documents as may be reasonably necessary and coordination of scheduling with the City.

5.4 Upon the expiration of the Term the City as allowed by law and subject to City Council approval may offer to sell the Premises and all associated rights of the City to CE for the then fair market value and other terms to be mutually agreed upon between the parties.

5.5 Termination for Breach. Notwithstanding the above, upon a material breach of this Agreement, either Party shall have the right to terminate this Agreement, for cause, upon fifteen (15) days written notice and opportunity to cure to the other Party, provided, however, that where it is not commercially reasonable to fully effect a cure to the other Party within the fifteen (15) day period set forth above, the Party in breach shall not be deemed to be in



default of the Agreement and subject to termination for cause where it commences implementation of the cure within such fifteen (15) day period and thereafter proceeds diligently to cure the breach.

## ARTICLE 6

### PUBLIC DISPENSER, COMPENSATION AND PAYMENT TO CITY

6.1 Use of Station by Non-City Vehicles. During the Term, CE will use commercially reasonable efforts to market the Station to Third Party Users and sell CNG fuel to the Third Party Users at a price determined by CE in its sole and absolute discretion (the "Retail Rate"). The Parties agree to reasonably cooperate with respect to joint marketing efforts and activities for the recruitment of Third Party Users.

6.2 Royalty. Except as expressly stated in this Agreement, CE's only payment to the City for the license of the Premises shall be the Royalty Payment set forth in this Section 6.2. CE shall pay to the City \$0.05 per GGE for all GGEs of CNG sold to Third Party Customers from the Station ("Royalty Payment"). Royalty Payments will be paid to the City on a quarterly basis within thirty (30) days following the end of each calendar quarter. CE shall provide a quarterly report detailing total GGE dispensed with breakout of City GGE consumed and third party GGE consumed. Such Royalty Payments shall be subject to annual CPI increases as set forth in Exhibit III.

## ARTICLE 7

### PURCHASE OF CNG AND VOLUMETRIC EXCISE TAX CREDIT

7.1 Pricing of CNG. CE shall provide City with CNG at a price per Gasoline Gallon Equivalent as described on Exhibit III. By signing this Agreement, City hereby represents to CE that it will use 100% of the CNG purchased from the Station solely for vehicle use.

7.2 Station Usage. Except with respect to private fleet customers, CE shall not dispense CNG to Third-Party Users from any CNG station through which CE retails CNG other than the Station within the city limits of Columbia, Missouri for a the period of 24 months following the Effective Date, unless authorized by the City to do so. If CE does not comply with the terms of the preceding sentence, the City will not be required to purchase the Minimum Commitment (as defined below) set forth in Exhibit III of this Agreement. For the avoidance of doubt, CE shall be entitled to dispense CNG from any CNG station through which CE retails CNG within the city limits of Columbia, Missouri at any time, including during the 24 month period specified in this Section, if such stations are for private fleet customers and are not public access CNG stations.

7.3 Volumetric Excise Tax Credit. Subject to the availability of the Volumetric Excise Tax Credit ("VETC"), CE, during the Term hereof, shall file for VETC for CNG purchased by the City and Third Party Users from the Station. Within thirty (30) days of

CE's receipt of VETC proceeds for sales of CNG from the Station to the City, CE shall remit to the City 100% of the VETC proceeds on CNG purchased by City for City Vehicles. CE shall retain 100% of the VETC proceeds for sales of CNG from the Station to Third Party Users. City understands and acknowledges that the legislation authorizing VETC will expire on December 31, 2013 and that no VETC revenue will be realized after December 31, 2013 without renewal of the legislation.

## ARTICLE 8 EXCISE, SALES AND USE TAXES

8.1 CE is currently required to, or may be required in the future to, collect and remit certain federal, state and local taxes, including fuel use taxes, fees and assessments on CNG sold at the Station, subject to certain exemptions. City shall be responsible for all such applicable excise, sales and use taxes, fees and assessments related to its purchases of CNG under this Agreement. If City qualifies for an exemption from one or all of these taxes, City shall furnish to CE appropriate certification authorizing non-payment of the applicable tax or taxes. If City fails to maintain its exemption status, or for any other reason City's exemption becomes invalid without notifying CE thereof, City shall indemnify CE for all taxes, penalties and interest on any nonpayments and underpayments of taxes.

## ARTICLE 9 INDEMNIFICATION AND LIMITATION OF LIABILITY

9.1 To the fullest extent allowed or imposed by law, except to the extent that liabilities arise from CE's or its employees, agents, contractors or subcontractors' negligence or willful misconduct, City agrees to indemnify, defend and protect CE and its officers, directors, agents and employees from and against and hold CE and its officers, directors, agents and employees harmless and free from any and all liability, loss, cost, expense or obligation, including without limitation reasonable attorneys' fees, court costs and other expenses, including without limitation, those of appeal, on account of or arising out of, injury to or death of any person or persons or damage to or loss of use of property, from whatever cause, occurring during the Term as a result of negligence or willful misconduct by City or its employees or agents or material breaches of this Agreement by City.

9.2 To the fullest extent allowed or imposed by law, except to the extent that liabilities arise from City's or its employees, agents, contractors or subcontractors' negligence or willful misconduct, CE agrees to indemnify, defend and protect City and its officers, directors, agents and employees from and against and hold City and its officers, directors, agents and employees harmless and free from any and all liability, loss, cost, expense or obligation, including without limitation reasonable attorneys' fees, court costs and other expenses, including without limitation, those of appeal, on account of or arising out of, injury to or death of any person or persons or damage to or loss of use of property, from whatever cause, occurring during the Term related in any way to the construction, use, operation or maintenance of the Station by CE (except for any aspect of Station operation attributable to City or its employees or agents),

negligence or willful misconduct by CE or its employees or agents or material breaches of this Agreement by CE.

9.3 Indemnification Procedure. In the event any action is commenced or claim is made or threatened against an indemnified party, hereunder (“Indemnatee”) as to which the other party (“Indemnitor”) is obligated to indemnify Indemnatee or hold it harmless, Indemnatee shall promptly notify Indemnitor of such event and Indemnitor shall assume the defense of, and may settle, that part of any such claim or action commenced or made against Indemnatee which relates to Indemnitor’s indemnification and Indemnitor may take such other steps as may be necessary to protect itself. Indemnitor shall not be liable to Indemnatee on account of any settlement of any such claim or litigation affected without Indemnitor’s consent. The right of Indemnitor to assume the defense of any action shall be limited to that part of the action commenced against Indemnatee which relates to Indemnitor’s obligation of indemnification and holding harmless.

9.4 Neither Party shall have any liability to the other Party for special, consequential, or incidental damages, except however in connection with a claim made against either party by a third party, provided that such claim arises out of or results from the negligence or willful misconduct or any other claim within the scope of the indemnity obligation of CE or City, as applicable, under this Agreement.

9.5 Force Majeure. In an event or condition constituting a “Force Majeure” – including but not limited to, an act of God, civil unrest, epidemic, natural disaster, strikes, labor trouble, riots, power failures, shortages of labor or materials, war, acts of terrorism, governmental laws, regulations, or restrictions, and action or inaction by government bodies – prevents or delays a Party from performing or fulfilling an obligation under this Agreement (hereinafter referred to as “Force Majeure”), the Party shall not be deemed in default of its obligation hereunder. A delay beyond a Party’s control automatically extends the time, in an amount equal to the period of the delay, for the Party to perform the obligations under this Agreement. The parties shall prepare and sign an appropriate document acknowledging any extension of time under this Paragraph. If CE claims Force Majeure, CE shall notify City within 24 hours after it learns of the existence of a Force Majeure condition, and will also provide City with an estimate, if one can be reasonably made, of the anticipated Force Majeure Period. CE will also notify City within 24 hours after the Force Majeure condition has terminated. CE shall agree to use commercially reasonable efforts to correct whatever events or circumstance cause the Force Majeure event.

## ARTICLE 10 INSURANCE

City and CE shall each procure at their respective expense, and maintain in full force and effect during the term of this Agreement, including any renewals, with insurance carriers rated at least A-6 or Better as listed in A.M. Best’s Insurance Report and admitted to do business in the state where the Station is located, the following primary insurance in at least the

minimum amounts specified, with the other respective Party named in the commercial general liability policy (or excess liability or umbrella liability policy, if applicable) and the automotive liability policy as an additional insured and including a transfer of rights or waiver of subrogation endorsement. Such insurance, excluding workers compensation, shall be endorsed to require at least thirty (30) days' written notice to the other respective Party of cancellation. City and CE shall each provide the other with evidence of contractual liability.

(1) Commercial General Liability Insurance, including coverage at least as broad as the latest version of the Insurance Service Office Commercial General Liability coverage (occurrence form CG001) to a combined single limit of not less than \$10,000,000. Excess liability or umbrella liability coverage may be used to evidence or provide limits in addition to primary limits of no less than \$1,000,000 on the commercial general liability policy.

(2) Commercial Automobile Liability Insurance, including owned, non-owned and hired automobiles covering bodily injury and property damage, to a combined single limit of \$1,000,000.

(3) Workers Compensation and Employers Liability

(i) Workers compensation in compliance with applicable state and federal laws.

(ii) Employers liability in compliance with state and federal laws with a limit of not less than \$1,000,000.

CE shall procure at its expense, and maintain in full force and effect during the term of this Agreement, including any renewals, with insurance carriers rated at least A-6 or Better as listed in A.M. Best's Insurance Report and admitted to do business in the state where the Station is located, the following primary insurance in at least the minimum amounts specified. Such insurance shall be endorsed to require at least thirty (30) days' written notice to the City of cancellation.

Environmental Liability Insurance or Pollution Insurance against loss for bodily injury; property damage, including loss of use of damaged property or of property that has not been physically injured or destroyed; cleanup costs; and defense, including cost and expenses incurred in the investigation, defense, or settlement of claims; all in connection with any loss arising from any discharge or release of Hazardous Materials by the operation or activities of CE, its officers, employees. Coverage shall be maintained in an amount of not less than \$5,000,000 per loss, with an aggregate of not less than \$5,000,000 per loss. If Pollution Insurance coverage is written on a claims-made basis, CE covenants and warrants that any retroactive date applicable to coverage under the policy precedes the commencement date of the Agreement and that

continuous coverage will be maintained, or an extended discovery period will be exercised, for a period of five (5) years beginning from the expiration or early termination of the Agreement.

The requirements for carrying the foregoing insurance shall not derogate from the provisions of indemnification as set forth in this Agreement.

City shall send certificates of insurance evidencing such coverage within thirty (30) days after the date of this Agreement to:

Clean Energy  
4575 MacArthur Court  
Suite 800  
Newport Beach, California 92660  
Attn: Ms. Barbara Johnson  
Fax: (949) 724-1397  
Email: [bjohnson@cleanenergyfuels.com](mailto:bjohnson@cleanenergyfuels.com)

CE shall send certificates of insurance evidencing such coverage within thirty (30) days after the date of this Agreement to:

1 S. 7<sup>th</sup> (Gentry Building)  
P.O. Box 6015  
Columbia, Missouri 65205  
Attn: Ms. Sarah Perry, Risk Manager  
Fax: (573) 874-7492

## ARTICLE 11 DESIGNATED REPRESENTATIVES AND NOTICES

11.1 Representatives. Each Party hereby designates the following as its representative (and its "Designated Representative" for dispute resolution purposes) for the administration of this Agreement:

CE:	Mr. Peter J. Grace 4675 MacArthur Court Suite 800 Newport Beach, CA 92660
Telephone:	(949) 437-1000
Fax:	(949) 437-1131
City:	Mr. John Glascock 701 East Broadway 3 <sup>rd</sup> Floor P.O. Box 6015

Columbia, Missouri 65205  
Telephone: (573) 874-7253  
Fax: (573) 874-7132

11.2 Notices. Except for CITY's request for service calls, which may be made by telephone, notices pertaining to this Agreement shall be in writing and shall be transmitted either by personal delivery, facsimile, or by overnight delivery carrier and shall be deemed to be delivered upon receipt. The addresses set forth below shall be the addresses used for notice purposes unless written notice of a change of address is given:

CE: Clean Energy  
4575 MacArthur Court  
Suite 800  
Newport Beach, California 92660  
Attn: Mr. Peter J. Grace  
Fax: (949) 437-1131

City: 701 East Broadway  
3<sup>rd</sup> Floor  
P.O. Box 6015  
Columbia, Missouri 65205  
Attn: Mr. John Glascock  
Fax: (573) 874-7132

## ARTICLE 12 MISCELLANEOUS

12.1 Assignment. Neither Party shall have the right to assign its rights or obligations hereunder without obtaining the prior written consent of the other Party (which consent shall not be unreasonably withheld), and any attempted assignment without such prior written consent shall be void; provided that such consent shall not be necessary in the context of an acquisition of either party by asset sale, merger, change in control or operation of law. Permitted assigns and successors in interest shall have the benefit of, and shall be bound by, all terms and conditions of this Agreement. Notwithstanding anything contained herein to the contrary, either Party may assign this Agreement to such Party's parent corporation, an entity under common control with the Party, or a wholly-owned subsidiary of the Party without the consent of the other Party.

12.2 Headings. The headings in this Agreement are for convenience and reference only, and shall not affect the interpretation of this Agreement.

12.3 No Joint Venture. CE shall perform its duties herein as an independent contractor. Nothing contained herein shall be considered to create the relationship of employer

and employee, partnership, joint venture or other association between the Parties, except as principal and independent contractor agent.

12.4 Waiver. No waiver by either Party of any one or more defaults by the other Party in the performance of any provisions of this Agreement shall operate or be construed as a waiver of any other default or defaults, whether of a like or different character. No waiver or modification of this Agreement shall occur as the result of any course of performance or usage of trade.

12.5 Severability. If any provision of this Agreement or the application thereof to any person or circumstances shall to any extent be held in any proceeding to be invalid or unenforceable, the remainder of this Agreement shall be valid and enforceable to the fullest extent permitted by law, but only if, and to the extent, such enforcement would not materially and adversely alter the Parties' essential objectives as expressed herein.

12.6 Governing Law, Forum and Venue. This Agreement shall be governed by, interpreted, and enforced in accordance with the laws of the State of Missouri and/or the laws of the United States, as applicable. The venue for all litigation arising out of or relating to this Agreement shall be Boone County, Missouri or the United States Western District of Missouri. The parties hereto irrevocably agree to submit to the exclusive jurisdiction of such courts in the State of Missouri and waive any defense of forum non conveniens.

12.7 Additional Documents. The Parties agree to execute and to deliver to each other any and all other additional documents and to take any additional steps reasonably necessary to complete, to document and to carry out the business transaction contemplated by this Agreement.

12.8 Negotiated Transaction. The drafting and negotiation of this Agreement has been participated in by all of the Parties. For all purposes, this Agreement shall be deemed to have been drafted jointly by each of the Parties.

12.9 Representation regarding Authority to Sign Agreement. Each of the representatives of the Parties signing this Agreement warrants and represents to the other that he, she or it has the actual authority to sign this Agreement on behalf of the Party for whom he, she or it is purporting to represent.

12.10 Entire Agreement. This Agreement and its exhibits contain the entire agreement between the Parties and it supersedes any prior written or oral agreements between the Parties concerning the subject matter of this Agreement. There are no representations, agreements, or understandings between the Parties relating to the subject matter of this Agreement which are not fully expressed within this Agreement and its exhibits.

12.11 Binding Effect. This Agreement shall be binding upon and inure to the benefit of the respective heirs, successors, assigns, affiliates and personal representatives of the

Parties.

12.12 Modification. No modification, amendment, or waiver of any provisions of this Agreement or any of the rights or obligations arising hereunder shall be valid unless in writing and executed by both parties

12.13 Further Assurances. All of the Parties to this Agreement agree to perform any and all further acts as are reasonably necessary to carry out the provisions of this Agreement.

12.14 No Waiver of Immunities. In no event shall the language of this Agreement constitute or be construed as a waiver or limitation of the City's rights or defenses with regard to applicable sovereign, governmental, or official immunities and protections as provided by federal and state constitution or law.

12.15 Missouri Sunshine Law. Nothing in this agreement shall be construed to supersede, conflict with or otherwise defeat any provision of the Missouri Revised Statutes Chapter 610 Governmental Bodies and Records (Missouri Sunshine Law).

12.16. Employment of Unauthorized Aliens Prohibited. CE agrees to comply with Missouri State Statute section 85.530 in that they shall not knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the state of Missouri.

12.16.1 As a condition for the award of this contract the CE shall, by sworn affidavit and provision of documentation, affirm its enrollment and participation in a federal work authorization program with respect to the employees working in connection with the contracted services. The CE shall also sign an affidavit affirming that it does not knowingly employ any person who is an unauthorized alien in connection with the contracted services.

12.16.2 CE shall require each subcontractor to affirmatively state in its contract with CE that the subcontractor shall not knowingly employ, hire for employment or continue to employ an unauthorized alien to perform work within the state of Missouri. CE shall also require each subcontractor to provide contractor with a sworn affidavit under the penalty of perjury attesting to the fact that the subcontractor's employees are lawfully present in the United States.

12.17 TIGER Grant – Option to Purchase or Enhance Station. City has applied for a Transportation Investment Generating Economic Recovery ("TIGER") Discretionary Grant from the United States Department of Transportation. In the event that City is awarded the TIGER Grant, City may exercise the option to purchase the Station for a period of 18 months following the Commencement Date, and/or renegotiate enhancements to the Station and make associated adjustments to the pricing structure in Exhibit III. The terms of this agreement will remain in force, unless otherwise agreed to by both Parties in writing. The City shall retain CE to carry out the retail construction, modifications and/ or enhancements of the Station and for



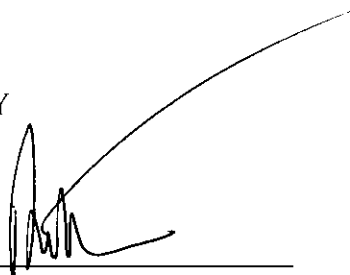
Operation and Maintenance of the Station for the Initial Term and any subsequent renewal periods. In the event CE does not receive a written update from the City by December 1, 2013, the Parties will proceed with this Agreement with the understanding that the City did not receive the TIGER Grant.

[The remainder of this page has intentionally been left blank.]

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be signed by their duly authorized representatives, effective as of the date first set forth above.

CLEAN ENERGY

By:

  
\_\_\_\_\_  
Peter J. Grace  
Senior Vice President, Sales &  
Finance

CITY OF COLUMBIA, MISSOURI

By:

\_\_\_\_\_  
Mike Matthes, City Manager

ATTEST:

\_\_\_\_\_  
Sheela Amin, City Clerk

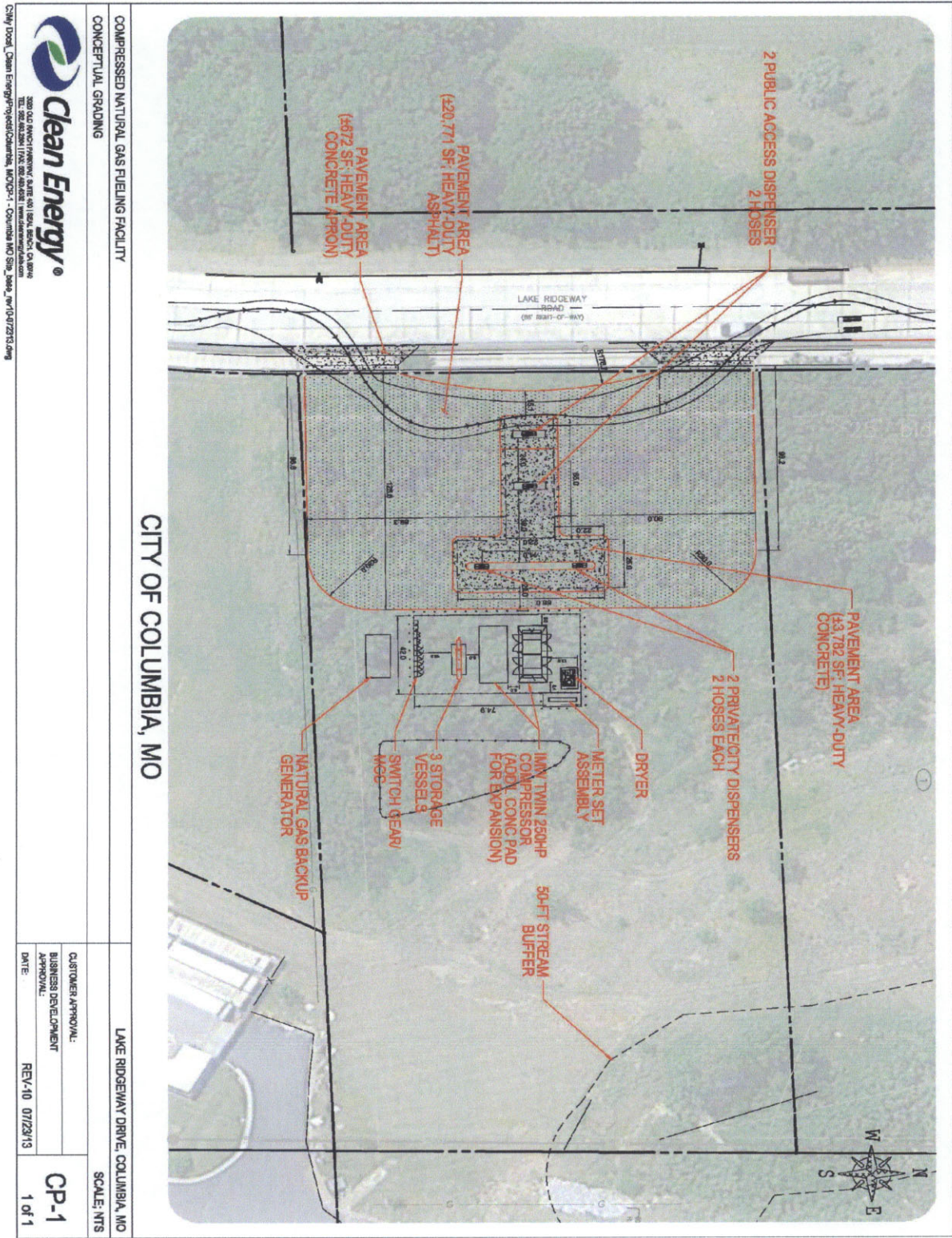
APPROVED AS TO FORM:

\_\_\_\_\_  
Nancy Thompson, City Counselor

CERTIFICATION: I hereby certify that this Contract is within the purpose of the appropriation to which it is to be charged, Account No. \_\_\_\_\_, and that there is an unencumbered balance to the credit of such account sufficient to pay therefor.

\_\_\_\_\_  
John Blattell, Director of Finance

# **Exhibit I** **The Premises and Station Location**



**Exhibit II**  
**Station Equipment**

- Twin IMW50 compressor skid, which includes two, four stage, 250 hp electric driven compressors, capable of providing approximately 501 scfm each at an inlet pressure of 50 psig, for a total output of 1,002 SCFM.
- One (1) PSB single tower natural gas dryer with on-skid regeneration
- One (1) electronic, three line, ¾" valved, high flow ESD/Priority control panel
- Three (3) ASME storage vessels (11,500 scf each)
- One (1) Kraus Encore "S" high flow, three line, twin hose dispenser for Third-Party Users. Dispenser will include a card reader-in-display and video screen for on-site fueling training for customers. The dispenser will include one (1) heavy-duty hose and one (1) light-duty hose. The future fueling island for Third-Party Users will be plumbed for a second dispenser of similar specification
- Two (2) Kraus high flow, twin hose fleet dispensers for City use, equipped with one (1) remote card reader
  - o One (1) City dispenser will include one (1) heavy-duty hose and one (1) light-duty hose
  - o One (1) City dispenser will include two (2) light-duty hoses
- Electric generator connection
- Switch gear and motor control center (MCC)
- One (1) canopy covering both fueling islands
- Equipment start up and testing

**Exhibit III**  
**CNG Pricing for City's CNG from the Station**

CE will offer the City preferred CNG pricing as set forth herein.

From the Commencement Date through the tenth (10<sup>th</sup>) anniversary of the Commencement Date, the price per GGE for the City's purchases of CNG for City Vehicles from the Station shall be determined by the following formula:

Delivered Cost of Gas ("DCOG") + the Margin Price (as defined below) + all applicable federal, state and local taxes, fees and assessments = City's price per GGE of CNG.

The DCOG will consist of the commodity cost plus all costs incurred to deliver the natural gas to the Station including, but not limited to transportation charges, utility charges, and all associated charges, taxes, and fees, less any commodity cost credits, refunds, or reimbursements and less the cost of any natural gas that is not actually compressed and delivered for fueling to vehicles (e.g. due to CE system inefficiencies or leakages attributable to CE). The DCOG will vary month-to-month depending on natural gas market conditions. To calculate DCOG, CE shall divide the total cost of gas delivered (based on gas utility and gas supplier invoices) for a given month by the number of GGEs delivered. Backup documentation of the calculated DCOG shall be provided with the City's monthly invoice from CE.

The Margin Price will be in accordance with the tiered structure presented below. Each tier will be based upon the Monthly Consumption. The "Monthly Consumption" shall mean the aggregate amount of CNG in GGEs purchased from the Station by the City and Third Party Users in any applicable calendar month during the Term of the Agreement.

The Margin Price will be as follows:

<b>Monthly Consumption (GGE)</b>	<b>Margin Price</b>
<b>Minimum 15,000</b>	<b>\$1.25</b>
<b>15,001 – 35,000</b>	<b>\$1.15</b>
<b>35,001 – 55,000</b>	<b>\$1.05</b>
<b>&gt;55,001</b>	<b>\$0.95</b>

From the tenth (10<sup>th</sup>) anniversary of the Commencement Date until the end of Term and any subsequent renewals, the Margin Price per GGE for the City's purchases of CNG for City Vehicles from the Station shall be reduced by fifty (50) cents subject to any applicable CPI increases as set forth below.

The Margin Price will be subject to annual CPI increases as follows: Beginning January 1, 2015, and on each January 1<sup>st</sup> thereafter during the Term of this Agreement, including any renewals, the Margin Price per GGE of CNG charged by CE and any Royalty Payments set forth in Article 6 of this Agreement shall be increased by the change in the United States Bureau of Labor Statistics Consumer Price Index for All Urban Consumers, Midwest Urban, All Items (1982-84=100) from the Effective Date of this Agreement for the first such adjustment, or the date of the last adjustment for each subsequent adjustment, through the date of the current adjustment.

### **Minimum Commitment**

In the event that the Monthly Consumptions is below 15,000 GGEs (the “Minimum Commitment”) during any month during the Term of this Agreement, including any renewals, City shall be charged the following amount during any such month in addition to the amount payable for its actual GGE purchases:

[The Minimum Commitment – [Monthly Consumption] x the applicable Margin Price per GGE then in effect].

### **Operations, Maintenance and Retail Agreement**

Pursuant to Section 5.2 of the Agreement, in the event that CE and the City have entered into an operations, maintenance and retail agreement of at least five (5) years after the Initial Term, the fees in such agreement shall be subject to the following terms:

(1) Fees Based on Sales to the City – City shall be entitled to a further reduction of 10% off the Margin Price in effect as of the last day of the Initial Term. By way of example, in the event City’s Margin Price was \$0.60 on the last day of the Initial Term, the City shall be entitled to a further discount of 10% off the \$0.60 Margin Price for the initial five (5) year renewal term (subject to any applicable CPI increases as set forth herein).

(2) Fees Based on Sales to Third-Party Users – City and CE shall split net revenues on a 50% - 50% basis after deducting necessary operations and maintenance charges/expenses (including, but not limited to, marketing costs, utility costs, credit card fees/charges, third party billing and collection, applicable taxes, etc.).

**Exhibit IV**  
**Work to be Performed by City**

- City will remove all trees, vegetation and vegetation roots from the Premises
- City will deliver the Premises in a condition clear of all debris graveled, leveled, and ready for construction
- City will grade the Premises to the grade specified in the approved construction Drawings and Plans and will be responsible for the site survey
- City will ensure the Premises is graded to provide adequate watershed and to prevent any water ponding or hazards on any usable surface of the Premises
- 
- City will install any necessary underground drainage equipment
- City will be responsible for all asphalt paving for areas of ingress/egress and travel as it is depicted in the final, City-approved construction Drawings and Plans
- City will provide materials for, and will construct all drive aprons, parkway islands and curb and guttering except for that required to install the fueling islands
- City will be responsible for all design, materials and labor associated with construction of roads, driveways, curbs and gutters that are constructed to provide access to areas of the Premises or adjacent to the Premises that are not being utilized to support the basic function and operation of the CNG station.
- City will grade and construct any earthen berms that are to serve as natural barriers for sound or aesthetics of the Station
- City will plant any trees, shrubs or other vegetation that is to serve as a natural barrier between adjacent properties
- City will be responsible for coordinating with the local gas utility to provide a natural gas pipeline within twenty (20) feet or less of the CNG compressor compound. The pipeline shall be capable of providing no less than 50 psig, with sufficient volume to support the specified equipment and up to 500,000 GGE annually
- City will be responsible for delivering electrical service within twenty (20) feet or less of the CNG compressor compound. The electrical service must be capable of no less than 480-volt, 3-phase, 60hz and 1200 amps
- City will provide one freshwater spigot within twenty (20) feet of the compressor compound
- City will be responsible for the coordination and supply of a dedicated telephone line(s) within 20' feet of the compressor compound to be utilized for monitoring of station equipment and alarms and/or credit card processing
- Excavation shall be performed at specified location as required per the approved drawings. Care shall be taken not to excavate below the bottom level of footings. All footings shall be placed on undisturbed natural earth
- City shall notify CE of any potential trenching or excavating problems prior to start of construction.
- Material used for backfill shall be capable of meeting the engineer's compaction

- requirements, including but not limited to a compaction rate of 95%
- City is responsible for testing and inspection of materials placed by the City



**Exhibit V**

**Phase I Environmental Site Assessment  
(Next Page)**

# **Phase I Environmental Site Assessment**

## **CNG Fueling Station**

December 5, 2012

### **Prepared For:**

City of Columbia

P.O. Box 7236

Columbia, MO 65205



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## ES – EXECUTIVE SUMMARY

**Note:** MEC has prepared this executive summary solely to provide a general overview. **Do not rely on this executive summary** for any purpose except that for which it was prepared. **Rely ONLY on the full report** for information about findings, opinions, recommendations and other concerns.

### ES.1 Findings

Section 4.1 Comprehensive Environmental Response, Compensation, and Liability System (CERCLIS) No Further Remedial Action Planned (NFRAP) list identified one CERCLIS-NFRAP site within the ASTM 0.5-mile search radius from the Property.

Section 4.1 Resource Conservation Recovery Act (RCRA) Generators list identified the west adjoining property as RCRA small quantity generator (SQG) site.

Section 4.1 State Leaking Underground Storage Tanks (LUST) list identified one LUST site within the ASTM 0.5-mile search radius from the Property.

### ES.2 Opinion

Section 4.1 CERCLIS-NFRAP list identified one CERCLIS-NFRAP site within the ASTM 0.5-mile search radius from the Property. The site was reviewed and should have no impact on the Property.

Section 4.1 RCRA Generator list identified the west adjoining property as RCRA SQG site. The site was reviewed and should pose no risk to the Property.

Section 4.1 State LUST list identified one LUST site within the ASTM 0.5-mile search radius from the Property. The site was reviewed and should pose no risk to the Property.

### ES.3 Conclusions

This Phase I Environmental Site Assessment has been performed in conformance with the scope and limitations of ASTM Practice E 1527-05 on the Property located near the intersection of Lake Ridgeway Rd. and Vandiver Drive, Columbia, Boone County, Missouri, Section 5, Township 48 North, Range 12 West. Any exceptions to, or deletions from this practice are described in Section 10 of this report. This assessment did not reveal evidence of ASTM Practice E 1527-05 recognized environmental conditions in connection with the Property.

## **1. INTRODUCTION**

### **1.1 Purpose**

The ASTM E 1527-05 "Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process" was used as guidance for the site assessment of the property. The purpose of this Phase I environmental assessment was to determine if there are any *recognized environmental conditions* on the property. A *recognized environmental condition*, as defined by ASTM E 1527-05, is "the presence or likely presence of any hazardous substance or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substance or petroleum products into structures on the property or into the ground, ground water or surface water of the property."

### **1.2 Detailed Scope of Services**

The detailed scope of services for this Phase I ESA includes four components: records review; site reconnaissance; interviews with present or past owners, operators or occupants of the property and local officials; and evaluation and reporting of findings. Neither vapor intrusion determination or physical sampling or testing of materials (e.g., soil, water, air, building materials) is included in the scope of services.

A representative of Midwest Environmental Consultants (MEC) conducted a site visit December 5, 2012. The site was observed by foot to verify existing conditions. A search of federal and state agencies records was conducted on November 28, 2012, to meet the specific search requirements of ASTM E 1527-05. People with first-hand knowledge of the site were interviewed to determine current and past uses of the properties.

### **1.3 Significant Assumptions**

There were no significant assumptions made with regard to the performance of the Phase I ESA.

### **1.4 Limitation of Assessment**

The Phase I ESA is not a comprehensive site characterization. The scope of a Phase I ESA is limited to those matters in ASTM E 1527-05 described above. For the limited purposes of the Phase I ESA, MEC reviewed certain federal, state and local records, conducted interviews and visually observed the subject property; however, MEC is not responsible for the accuracy of those records and information. Thus, while MEC's conclusions contained in this report are given in good faith and to the best of MEC's ability, MEC makes no warranty or guarantee of the work product, expressed or implied, and accepts no legal responsibility for the client's use of this report.

The ESA included observation of adjacent properties to the extent practicable since permission was not granted to be upon these properties. The review of the Property was limited to federal, state, and local record searches, interviews, and visual observations.

### **1.5 Special Terms and Conditions**

There are no special terms and conditions associated with this ESA.

### **1.6 User Reliance**

Reliance on this Phase I ESA by any other party other than The City of Columbia is forbidden without the express written permission of MEC. The effective date of the ESA is December 5, 2012, the date of the site visit. According to ASTM E 1527-05 "Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process, 4. Significance

and Use, 4.6 Continued Viability of Environmental Site Assessment" the report is valid for 180 days if the transaction or acquisition occurs within that time period, starting with the effective date of the report. If the transaction or acquisition occurs between 180 days and 1 year of the effective date of the report it must be updated in accordance with Section 4.6 of the ASTM standard.

## **2. SITE DESCRIPTION**

### **2.1 Location and Legal Description**

The subject property being assessed (hereinafter referred to as "the Property") is located near the intersection of Lake Ridgeway Rd. and Vandiver Drive in Columbia, Missouri. The Property includes approximately 2 acres according to The City of Columbia and is currently owned by Central Concrete Company. The Property is generally located in Section 5, Township 48 North, Range 12 West, Boone County, Missouri.

A site map depicting the location of the Property is included as Figure 1 (**Appendix 1**). Figure 1 is a portion of the Columbia Quadrangle adapted from the United States Geologic Survey (USGS) topographic map (7.5-minute series).

### **2.2 Site and Vicinity General Characteristics**

The Property elevation is generally 735 feet above mean sea level, with a general topographic gradient to the southeast according to the EDR Radius Map and based on visual observation of the Property. Land use surrounding the project site is generally described as commercial.

Local physical setting information was provided in the EDR Radius Map™ Report with GeoCheck®, which is included as **Appendix 2**. Local physical setting data include geologic and soil composition information in the general area of the Property.

Pennsylvanian-age rock of the Des Moinesian series apparently forms the uppermost bedrock unit beneath the site. Soil component for this area of Columbia is the Keswick silt loam described as moderately well-drained soils with slow infiltration rates.

### **2.3 Current Use of the Property**

The Property is currently undeveloped.

### **2.4 Description of Structures, Roads or Other Improvements on the Site**

There are currently no structures, roads or other improvements on the site.

The following utilities are provided to the Property:

- Columbia Water and Light supplies electricity
- City of Columbia supplies water
- City of Columbia provides wastewater collection and treatment
- Ameren UE provides natural gas

### **2.5 Current Uses of the Adjoining Properties**

Adjoining properties are defined in ASTM E 1527-05 as, "any real property or properties the border of which is contiguous or partially contiguous with that of the property, or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public

thoroughfare separating them.” Current uses of adjoining properties are discussed below. More detailed historical research for adjoining properties is included in Section 4.

**North Adjoining Property**

Undeveloped land adjoins the property to the north.

**South Adjoining Property**

Undeveloped land and Bass Pro Shop parking lot adjoin the Property to the south.

**East Adjoining Property**

Bass Pro Shop adjoins the Property to the east.

**West Adjoining Property**

AAF International adjoins the Property to the west across Lake Ridgeway Rd.

**3. USER PROVIDED INFORMATION**

The following information was provided by the ESA User, which may be the owner, prospective buyer, lender, tenant, or manager of the Property. Eric Evans, Fleet Supervisor for The City of Columbia, was interviewed via email December 10, 2012. The interview is included in **Appendix 3**.

**3.1 Title Records**

Title records were not provided by the user.

**3.2 Environmental Liens or Activity and Use Limitations**

According to Mr. Evans, there are no environmental liens or use limitations with respect to the Property to his knowledge.

**3.3 Specialized Knowledge**

Mr. Evans has no specialized knowledge or experience related to the Property.

**3.4 Commonly Known or Reasonably Ascertainable Information**

Ms. Evans indicated he has no commonly known or reasonably ascertainable information with respect to environmental issues related to the Property.

**3.5 Valuation Reduction for Environmental Issues**

Mr. Evans believes the purchase price of the Property reflects fair market value and has not been devalued for environmental issues.

**3.6 Owner, Property Manager, and Occupant Information**

The Property is currently owned by Central Concrete Company.

**3.7 Reason for Performing Phase I**

The User is performing the ESA for risk management purposes prior to the purchase of the Property.



#### 4. RECORDS REVIEW

##### 4.1 Standard Environmental Record Sources

The standard ASTM E 1527-05 file search of federal and state records was conducted. Information was obtained from Environmental Data Resources, Inc. A map showing identified sites and a list search summary are included in **Appendix 2**.

**The federal ASTM record search addresses the following records and/or lists:**

National Priorities List (NPL). The NPL identifies sites for priority cleanup under the Superfund Program. No sites were identified within the ASTM 1.0-mile search radius from the Property.

National Priorities Delist (DNPL). The DNPL identifies sites that have been deleted from the NPL where no further response is appropriate. No sites were identified within the ASTM 0.5-mile search radius from the Property.

CERCLIS. CERCLIS contains information that has been reported to the United States Environmental Protection Agency (USEPA) pursuant to CERCLA on sites that may contain hazardous waste. No sites were identified within the ASTM 0.5-mile search radius from the Property.

One CERCLIS site was identified in the orphan summary; however, the site was reviewed and was not within the specified search distance. A site is considered "orphaned" if it cannot be located on the radius map because of insufficient information.

CERCLIS - NFRAP. The CERC-NFRAP list provides information on hazardous waste sites that have been removed from the EPA's CERCLIS database. One CERC-NFRAP site was identified within the ASTM 1.0-mile search radius from the Property.

Three CERC-NFRAP sites were identified in the orphan summary; however, the sites were reviewed and were not within the specified search distance.

RCRA TSD CORRACTS and non-CORRACTS Lists. The RCRA TSD CORRACTS and TSD non-CORRACTS lists contain information on sites that treat, store, or dispose of hazardous wastes. Those RCRA sites, which are undergoing corrective actions, are listed on the CORRACTS list. No CORRACTS sites were identified within the ASTM 1.0-mile search radius from the Property and no non-CORRACTS sites were identified within the ASTM 0.5-mile search radius from the Property.

RCRA Generators List. The RCRA Generator list contains information on sites that generate either small or large quantities of hazardous waste. The west adjoining property was identified in the EDR report as RCRA SQG site.

Two RCRA SQG sites, 12 RCRA No Longer Regulated (NLR) sites, and two RCRA Conditionally Exempt Small Quantity Generator (CESQG) sites were identified in the orphan summary; however, the sites were reviewed and were not within the specified search distance.

Emergency Response Notification System (ERNS). The ERNS list provides information on sites where releases of hazardous substances or oil products have occurred. The search distance is the Property, and it was not listed.

**The state ASTM record search addresses the following records and/or lists:**

State lists of hazardous waste sites identified for investigation or remediation (State Priority List or SPL). The Missouri Department of Natural Resources (MDNR) Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites contains information on hazardous waste sites in Missouri. No sites were identified within the specified ASTM 1.0-mile search distance radius from the Property.

State landfill and/or solid waste disposal site lists. The list identifies landfills that are active or inactive. No sites were identified within the ASTM 0.5-mile search radius from the Property.

State LUST lists. The LUST list identifies underground storage tank sites where the tanks have leaked. One LUST site was identified within ASTM 0.5-mile search distance from the Property.

Two LUST sites were identified in the orphan summary; however, the sites were reviewed and were not within the specified search distance.

State LAST lists. The LAST list identifies AST sites where the tanks have leaked. No LAST sites were identified in the EDR report within the ASTM 0.5-mile search radius from the Property.

One LAST site was identified in the orphan summary; however, the site was reviewed and was not within the specified search distance.

State registered UST/AST lists. The UST and AST lists identify sites where USTs and/or ASTs currently operate or have been removed. No UST or AST sites were identified within the ASTM search radius, which is the Property or adjoining property.

Four UST sites and seven AST sites were identified in the orphan summary; however, the sites were reviewed and were not within the specified search distance.

VCP sites. The list identifies sites participating in the Voluntary Cleanup Program. No sites were identified within the ASTM 0.5-mile search radius from the Property.

US & State Brownfields Sites. MDNR maintains a list of those sites under remediation using federal and/or State Brownfield grants. No sites were identified within the 0.5-mile search radius from the Property.

State Institutional Control/Engineering Control Registries. These registries, when available, list sites that have had identified hazardous materials releases and as a result have had institutional controls or engineering controls imposed upon them in the form of a legal instrument (e.g., deed restriction). MDNR maintains an Activities and Use Limitations (AUL) database that includes these sites. No sites were listed within the ASTM search distance, which is the Property.

Manufactured Gas Plants. EDR maintains a proprietary database of coal gas plants (manufactured gas plants). No sites were within 1.0-mile from the Property.

#### 4.2 Additional Environmental Records Sources

Other databases were searched that are not specifically required by the ASTM standard, but are included based on professional judgment of the environmental professional. These include Dry Cleaners and State Spills.

Dry Cleaners. The State of Missouri established a Drycleaners Environmental Response Trust Fund (DERT). The MDNR conducted extensive searches for properties that are or once were used for dry cleaning operations. No drycleaners sites were identified in the record search.

One Drycleaners site was identified in the orphan summary; however, the site was reviewed and was not within the specified search distance.

State Spills. This supplemental database lists environmental response activity by the Department of Natural Resources. The search distance is the Property and it was not identified in the record search.

#### 4.3 Physical Setting Source(s)

The current USGS Columbia 7.5 Minute Topographic Map from 1981, showing the area of the Property, was reviewed. See 4.4.4 Topographic Maps below for details on the findings.

#### 4.4 Historical Use Information on the Property and Adjoining Properties

Sources consulted to obtain information on the Property and adjoining properties include city directories, aerial photographs, fire insurance maps, and topographic maps.

Based on a review of historical use information, the Property has always been undeveloped.

##### 4.4.1 City Directories

City Directories are developed each year and list the street, street number and occupant of the property. The directories provide an idea of past use of the Property and surrounding properties. The EDR-City Directory Abstract for 2005 and 2012 were reviewed. The Property was not identified in any of the directories reviewed. Surrounding properties were predominantly commercial in all directories reviewed. The EDR-City Directory Abstract can be found in **Appendix 4**.

##### 4.4.2 Aerial Photographs

Historical aerial photographs, dated 1945, 1965, 1967, 1974, 1992, 1995, 2005, 2006, and 2007 were obtained from EDR and are included in **Appendix 4**. The photographs provide some detail of the features on the Property and surrounding properties. Based on a review of historical aerial photographs, the Property has always been undeveloped. Development of the west adjoining property (AAF International) was first identified in the 1992 aerial and development of the east adjoining property (Bass Pro Shop) was first identified in the 2006 aerial.

##### 4.4.3 Sanborn Maps

Sanborn Maps were originally developed to help the insurance industry to determine fire risks of structures. The maps provide details of buildings (i.e., size, shape, construction, windows, and door locations), use of the building, property boundaries, street names, building address numbers, fire protection information, and other features. Sanborn Maps for this area of Columbia are not available.

#### **4.4.4 Topographic Map Review**

The USGS 1981 Columbia Quadrangle map, Figure 1, was developed from an aerial photograph taken in 1965 and field checked in 1967. Historical structures, roads, and other developments from earlier USGS base map data are usually transferred forward to the newer map. In the 1981 topographic map, no structures were identified on the Property or adjoining properties. Six other historical topographic maps were reviewed:

- 1894 Jefferson City quadrangle
- 1940 Columbia quadrangle
- 1950 Columbia quadrangle (1:62500 scale)
- 1950 Columbia quadrangle (1:24000 scale)
- 1967 Columbia quadrangle
- 1974 Columbia quadrangle

The 1884 topographic map was not detailed enough to identify any detail on the Property or adjoining properties. In the remaining topographic maps, no structures were identified on the Property or adjoining properties. The topographic maps are included in **Appendix 4**.

### **5. SITE RECONNAISSANCE**

A representative of MEC conducted a site visit on December 5, 2012.

#### **5.1 Hazardous Substances, Petroleum Products and Other Products with Identified Uses**

No hazardous substances in connection with identified uses were observed on the Property.

#### **5.2 Hazardous Substances, Petroleum Products and Other Products with Unidentified Uses**

No hazardous substances in connection with unidentified uses were observed on the Property.

#### **5.3 Storage Tanks**

MEC looked for signs of underground storage tanks such as fill pipes, vent pipes, or fuel islands and signs of above ground tanks such as concrete cradles and stilt bases, during the site walk. There were no indications of above ground or underground storage tanks noted on the Property.

#### **5.4 Indications of Polychlorinated Biphenyls (PCBs)**

PCBs may be found in electrical equipment (transformer, capacitors, etc.) and hydraulic systems. There were no PCB-containing electrical equipment or hydraulic systems observed on the Property.

#### **5.5 Indications of Solid Waste Disposal**

There were no indications of solid waste disposal observed on the Property.

#### **5.6 Other Conditions of Concern**

##### **5.6.1 Storm Water/Wastewater**

Storm water runoff from the Property generally drains to the southeast based on visual observation of the Property.

#### **5.6.2 Wells**

According to EDR there are two USGS wells and five state registered wells within 1.0-mile of the Property.

#### **5.6.3 Pits, Ponds, and Lagoons**

Pits, ponds, or lagoons used for the treatment of commercial or industrial waste were not observed on the Property.

#### **5.6.4 Stained Soils and Surfaces**

Stained soils were not observed on the Property.

#### **5.6.5 Fill Material**

It did not appear fill material had been brought to the Property.

#### **5.7 Photographs of the Site**

Photographs of the Property and adjoining properties, with captions to identify photograph location, are included as **Appendix 5**.

### **6. INTERVIEWS**

#### **6.1 Interview with Owner**

Cooper Snyder, Central Concrete Co. and current owner of the Property was interviewed via email on December 12, 2012. Mr. Snyder indicated Central Concrete Co. has owned the Property since approximately 1995. He is not aware of any chemicals or petroleum products on the Property and indicated the Property has always been undeveloped.

#### **6.2 Interviews with Site Manager**

A site manager was not interviewed.

#### **6.3 Interviews with Occupants**

No occupants were interviewed.

#### **6.4 Interviews with Local Government Officials**

City of Columbia Fire Department was contacted on December 10, 2012. According to a response by Battalion Chief Brad Fraizer, "The City of Columbia Fire Marshal's Division has found no records regarding solid and hazardous waste permits and flammable contents permits, underground storage tank records, investigation reports, emergency response incidents/reports for the subject site located on 2 acres of land near Bass Pro Shop in Columbia, MO."

#### **6.5 Interviews with Others**

No others were interviewed.

### **7. FINDINGS**

Section 4.1 CERCLIS-NFRAP list identified one CERCLIS-NFRAP site within the ASTM 0.5-mile search radius from the Property:

- AAF International located at 2100 Nelwood Drive.

Section 4.1 RCRA Generator list identified the west adjoining property as RCRA SQG site:

- AAF International located at 2100 Nelwood Drive.

Section 4.1 State LUST list identified one LUST site within the ASTM 0.5-mile search radius from the Property:

- UPS located at 2501 Vandiver Drive.

## 8. OPINION

Section 4.1 CERCLIS-NFRAP list identified one CERCLIS-NFRAP site within the ASTM 0.5-mile search radius from the Property:

- AAF International located at 2100 Nelwood Drive – The original finding of unreported contaminants first occurred in August 1980. During a site inspection conducted in September 1983, the site was assigned a NFRAP status. Because of the age of the “incident” and because of its status, it should pose no risk to the Property.

Section 4.1 RCRA Generator list identified the west adjoining property as RCRA SQG site:

- AAF International located at 2100 Nelwood Drive, has reportedly been cited with several minor violations; however, each violation has achieved compliance. If waste streams continue to be handled properly, this site should pose no risk to the Property.

Section 4.1 State LUST list identified one LUST site within the ASTM 0.5-mile search radius from the Property:

- UPS, located at 2501 Vandiver Drive, permanently closed and removed three USTs in November 1990. All risk and closure requirements were adequately evaluated and a No Further Action (NFA) letter dated June 8, 2000 was issued by MDNR; therefore, the site should pose no risk to the Property.

## 9. CONCLUSIONS

This Phase I Environmental Site Assessment has been performed in conformance with the scope and limitations of ASTM Practice E 1527-05 on the Property located near the intersection of Lake Ridgeway Rd. and Vandiver Drive, Columbia, Boone County, Missouri, Section 5, Township 48 North, Range 12 West. Any exceptions to, or deletions from this practice are described in Section 10 of this report. This assessment did not reveal evidence of ASTM Practice E 1527-05 recognized environmental conditions in connection with the Property.

## 10. DEVIATIONS

There are no significant deviations with respect to this Phase I environmental site assessment.

#### 11. SIGNIFICANT DATA GAPS

There are no significant data gaps with respect to this Phase I environmental site assessment.

#### 12. ADDITIONAL SERVICES

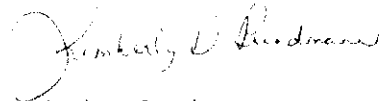
There were no additional services performed.

#### 13. REFERENCES

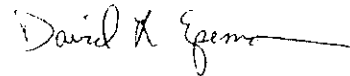
References are cited throughout the report and include city directories, aerial photographs, USGS topographic maps (**Appendix 4**), fire insurance maps, and the EDR Radius Map (**Appendix 2**).

#### 14. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

The site visit was completed by David L. Epema and the Phase I ESA report was completed by Kimberly D. Pundmann with MEC's Jefferson City, Missouri office. I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *Property*. I have developed and performed all appropriate inquiry in conformance with the standards and practices set forth in 40 CFR Part 312. Ms. Pundmann's and Mr. Epema's resumes are included in **Appendix 6**.



Kimberly D. Pundmann  
Environmental Scientist  
Environmental Professional



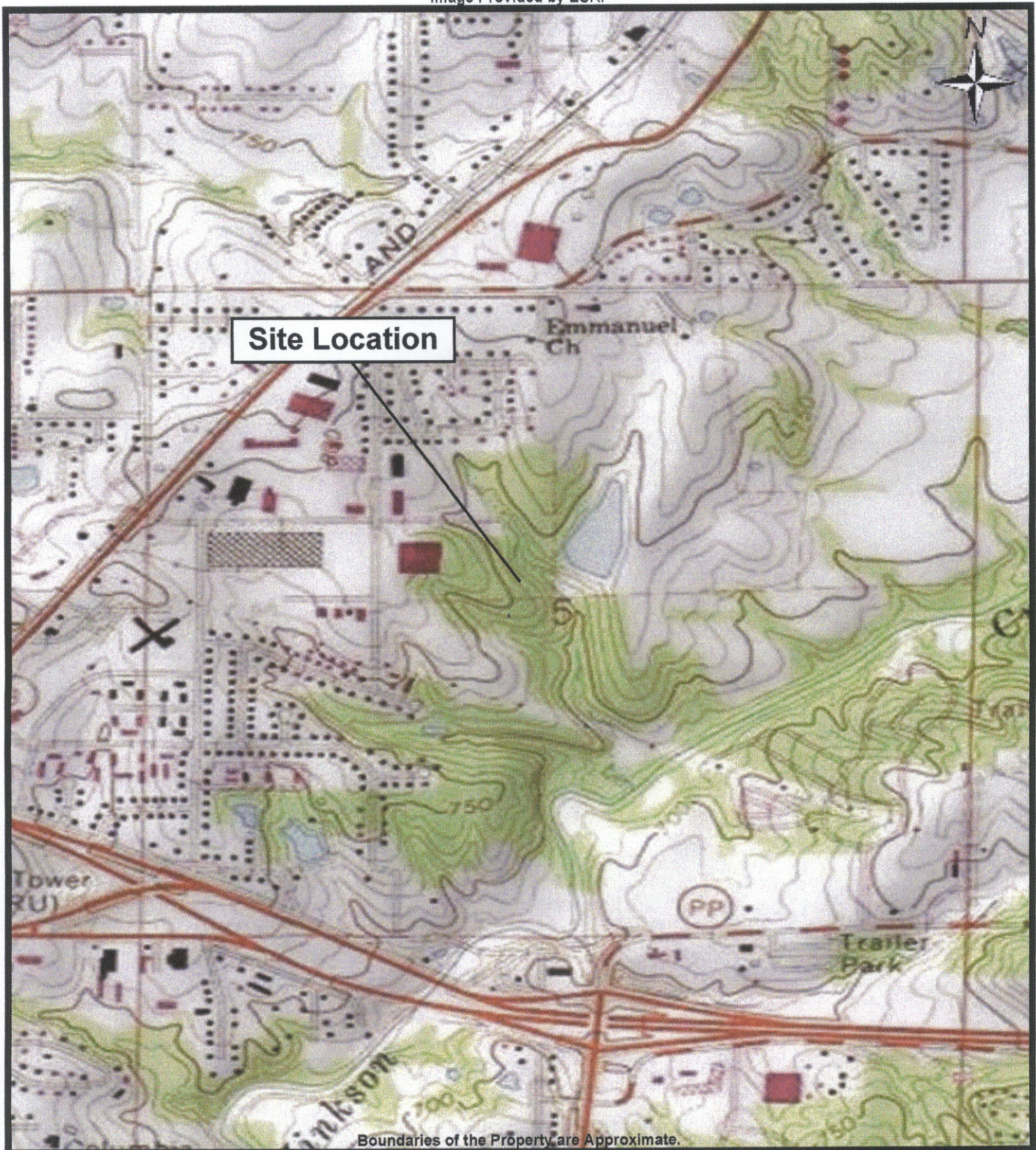
David L. Epema  
Sr. Environmental Scientist  
Environmental Professional

## **APPENDIX 1**

### **Site Location Map**



Image Provided by ESRI



Boundaries of the Property are Approximate.



Figure 1 - Site Location Map  
CNG Fueling Station  
South 2 Acres of Lot 20 - Centerstate Plat 1  
Columbia, MO 65202

PREPARED FOR: City of Columbia  
PROJ. MGR: D. Epema  
DRAWN BY: K. Pundmann

DATE: 12/03/2012  
PROJ. #: Phase I ESA



## **APPENDIX 2**

### **Regulatory Records Documentation**

**EDR Report–Radius Map with GeoCheck®**

**City of Columbia - CNG Fueling Station**

Lake Ridgeway Rd. / Vandiver Dr.

Columbia, MO 65202

Inquiry Number: 3464739.2s

November 28, 2012

## **The EDR Radius Map™ Report with GeoCheck®**



440 Wheelers Farms Road  
Milford CT 06461  
Toll Free 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

LAKE RIDGEWAY RD. / VANDIVER DR.  
COLUMBIA, MO 65202

#### COORDINATES

Latitude (North):	38.9717000 - 38° 58' 18.12"
Longitude (West):	92.2938000 - 92° 17' 37.68"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	561177.3
UTM Y (Meters):	4313665.5
Elevation:	735 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	38092-H3 COLUMBIA, MO
Most Recent Revision:	1982

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2009, 2010
Source:	USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### *Federal NPL site list*

NPL..... National Priority List

## EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System  
FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls  
LUCIS..... Land Use Control Information System

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

SHWS..... Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF..... Permitted Facility List

### ***State and tribal leaking storage tank lists***

LAST..... Leaking Aboveground Storage Tanks  
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

AST..... Aboveground Petroleum Storage Tanks  
INDIAN UST..... Underground Storage Tanks on Indian Land  
FEMA UST..... Underground Storage Tank Listing

### ***State and tribal institutional control / engineering control registries***

AUL..... Sites with Controls

## EXECUTIVE SUMMARY

### *State and tribal voluntary cleanup sites*

INDIAN VCP..... Voluntary Cleanup Priority Listing  
VCP..... Voluntary Cleanup Program Site Listing

### *State and tribal Brownfields sites*

BROWNFIELDS..... Brownfields Site List

### ADDITIONAL ENVIRONMENTAL RECORDS

#### *Local Brownfield lists*

US BROWNFIELDS..... A Listing of Brownfields Sites

#### *Local Lists of Landfill / Solid Waste Disposal Sites*

ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
HIST LF..... Solid Waste Facility Database List  
SWRCY..... Solid Waste Recycling Facilities  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

#### *Local Lists of Hazardous waste / Contaminated Sites*

US CDL..... Clandestine Drug Labs  
DEL SHWS..... Registry Sites Withdrawn or Deleted  
CDL..... Environmental Emergency Response System  
US HIST CDL..... National Clandestine Laboratory Register

#### *Local Land Records*

LIENS 2..... CERCLA Lien Information

#### *Records of Emergency Release Reports*

HMIRS..... Hazardous Materials Information Reporting System  
SPILLS..... Environmental Response Tracking Database

#### *Other Ascertainable Records*

RCRA-NonGen..... RCRA - Non Generators  
DOT OPS..... Incident and Accident Data  
DOD..... Department of Defense Sites  
FUDS..... Formerly Used Defense Sites  
CONSENT..... Superfund (CERCLA) Consent Decrees  
ROD..... Records Of Decision  
UMTRA..... Uranium Mill Tailings Sites  
MINES..... Mines Master Index File  
TRIS..... Toxic Chemical Release Inventory System  
TSCA..... Toxic Substances Control Act  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

## EXECUTIVE SUMMARY

HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
UIC.....	Underground Injection Wells Database
DRYCLEANERS.....	Drycleaners in Missouri Listing
MO RRC.....	Certified Hazardous Waste Resource Recovery Facilities
NPDES.....	Permitted Facility Listing
AIRS.....	Permit Facility Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
COAL ASH.....	Coal Ash Disposal Sites
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing
EPA WATCH LIST.....	EPA WATCH LIST
PRP.....	Potentially Responsible Parties
PCB TRANSFORMER.....	PCB Transformer Registration Database
2020 COR ACTION.....	2020 Corrective Action Program List
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List

### EDR PROPRIETARY RECORDS

#### ***EDR Proprietary Records***

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List



## EXECUTIVE SUMMARY

(NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/28/2011 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AAF INTERNATIONAL - COLUMBIA P	2100 NELWOOD DRIVE	WNW 1/8 - 1/4 (0.184 mi.)	1	7

### ***Federal RCRA generators list***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/15/2012 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AAF INTERNATIONAL - COLUMBIA P	2100 NELWOOD DRIVE	WNW 1/8 - 1/4 (0.184 mi.)	1	7

### ***State and tribal leaking storage tank lists***

LUST: Leaking Underground Storage Tanks.

A review of the LUST list, as provided by EDR, and dated 10/23/2012 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNITED PARCEL SERVICE Date Of NFA Letter From DNR: 6/8/2000	2501 VANDIVER DR	WNW 1/4 - 1/2 (0.349 mi.)	3	20

### ***State and tribal registered storage tank lists***

UST: Underground Storage Tank Information.

A review of the UST list, as provided by EDR, and dated 10/23/2012 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

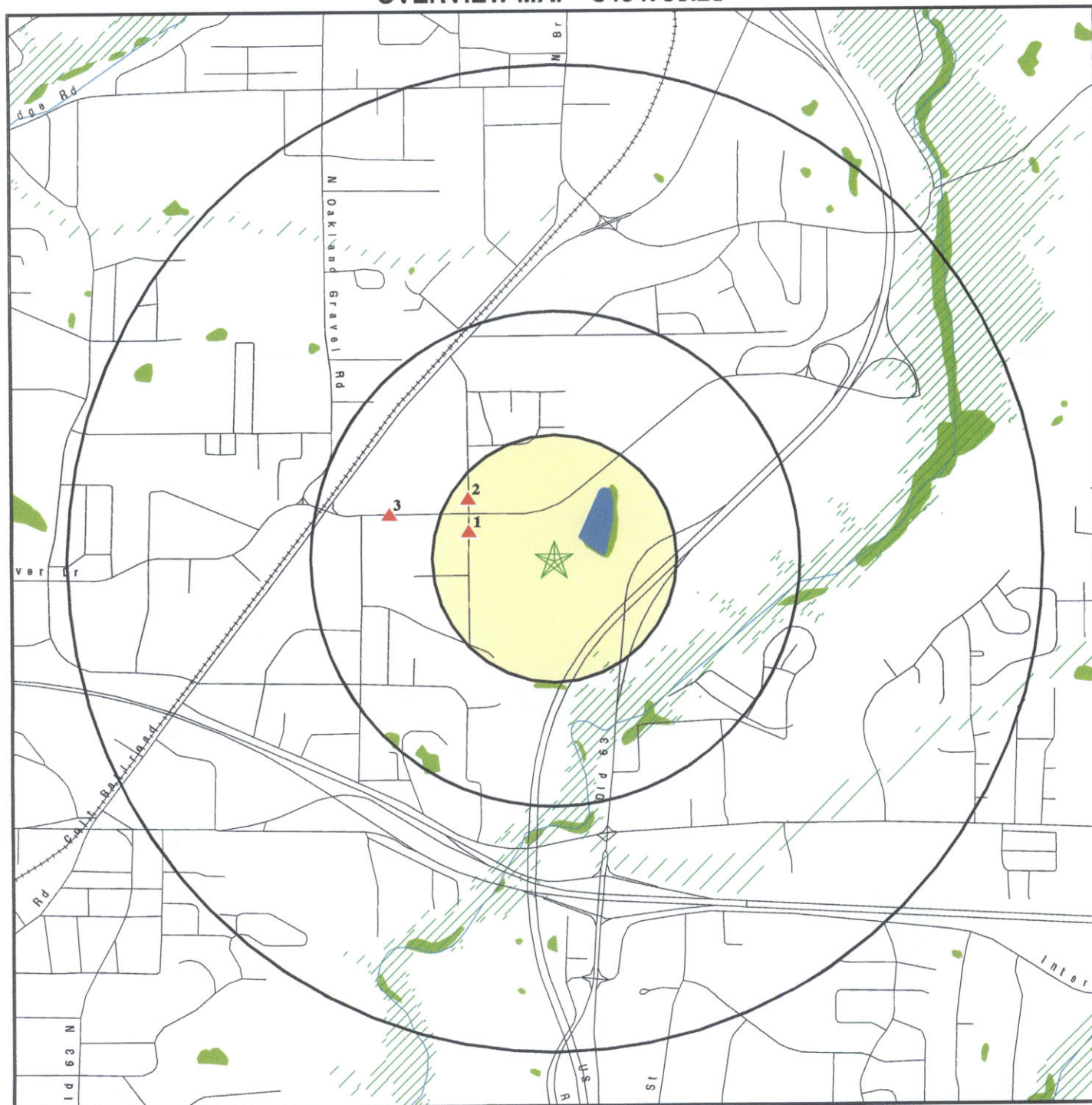
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LEBARON PARTNERSHIP	2210 NELLWOOD	NW 1/8 - 1/4 (0.215 mi.)	2	16

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 40 records.

<u>Site Name</u>	<u>Database(s)</u>
COLUMBIA MUNIC POWER-WP	FTTS
COLUMBIA MUNIC POWER-WP	HIST FTTS
DAVIS CLEANERS	DRYCLEANERS
UNIVERSITY OF MISSOURI (EX) RIFLE	CERCLIS
WILLIAMS PIPE LINE CO - COLUMBIA	CERCLIS-NFRAP,RCRA-SQG
ROUTE M DRUM	CERCLIS-NFRAP
UNIVERSITY OF MISSOURI - SOUTH FAR	CERCLIS-NFRAP
MURRAY & SONS GROCERY	LUST,UST
BOATMEN'S BANK	LUST,UST
MIDWAY OF COLUMBIA, INC	UST
MODOT JOB#J5U0675	UST
MIDWAY AUTO/TRUCK PLAZA	AST
PIASA MOTOR FUELS	AST
BREAKTIME #3001	AST
BREAK TIME 3020	AST
BEE LINE #4	AST
BREAK TIME #3003	AST
BREAKTIME #3112	AST
JOLLEY'S APCO	LAST
CENTRAL MISSOURI AUTOBODY	RCRA-SQG
WILLERT PRODUCTS INC	RCRA-NLR
SAFETY KLEEN CORP 5-042-01	FINDS,RCRA-NLR
HENDERSON IMPLEMENT CO	FINDS,RCRA-NLR
JOLLEYS SERVICE STATION	RCRA-NLR
UNIVERSITY OF MISSOURI COLUMBIA	RCRA-NLR
STUCKEYS DQ #117	RCRA-NLR
BREAK TIME #3003	RCRA-NLR
VIKING FREIGHT	RCRA-NLR
MID CITY LUMBER	RCRA-NLR
RYDER TRUCK RENTAL	RCRA-NLR
COLUMBIA COLLEGE GYMNASIUM LOT	RCRA-NLR
COLUMBIA M & R	RCRA-NLR
COLUMBIA MUNICIPAL POWER PLANT CIT	RCRA-CESQG
SIMON STEEL INC	FINDS,MANIFEST,RCRA-CESQG
3M COLUMBIA	TSCA
COLUMBIA CURB & GUTTER COMPANY	MLTS
3M COLUMBIA	ENG CONTROLS,INST CONTROL
THE LINKS OF COLUMBIA	ICIS
COLUMBIA COAL GAS	ICIS
MFA AGRI SVC - BOONE COUNTY	SSTS

# OVERVIEW MAP - 3464739.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

**SITE NAME:** City of Columbia - CNG Fueling Station  
**ADDRESS:** Lake Ridgeway Rd. / Vandiver Dr.  
 Columbia MO 65202  
**LAT/LONG:** 38.9717 / 92.2938

**CLIENT:** Midwest Environmental  
**CONTACT:** Kim Pundmann  
**INQUIRY #:** 3464739.2s  
**DATE:** November 28, 2012 3:18 pm



# DETAIL MAP - 3464739.2s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

▲ Sensitive Receptors

■ National Priority List Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

■ Oil & Gas pipelines from USGS

■ 100-year flood zone

■ 500-year flood zone

■ National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: City of Columbia - CNG Fueling Station  
 ADDRESS: Lake Ridgeway Rd. / Vandiver Dr.  
 Columbia MO 65202  
 LAT/LONG: 38.9717 / 92.2938

CLIENT: Midwest Environmental  
 CONTACT: Kim Pundmann  
 INQUIRY #: 3464739.2s  
 DATE: November 28, 2012 3:22 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>STANDARD ENVIRONMENTAL RECORDS</u></b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500		0	1	0	NR	NR	1
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		0	0	1	NR	NR	1
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
UST	0.250		0	1	NR	NR	NR	1

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
AUL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA-NonGen	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MO RRC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants	1.000		0	0	0	0	NR	0
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#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

1  
WNW  
1/8-1/4  
0.184 mi.  
972 ft.

AAF INTERNATIONAL - COLUMBIA PLANT  
2100 NELWOOD DRIVE  
COLUMBIA, MO 65202

CERC-NFRAP  
RCRA-SQG  
FINDS

1000369886  
MOD096718184

Relative:  
Higher

CERC-NFRAP:

Site ID: 0701094

Federal Facility: Not a Federal Facility

Actual:  
784 ft.

NPL Status: Not on the NPL

Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID: 7358852.00000

Person ID: 7271582.00000

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY

Date Started: Not reported

Date Completed: 08/01/1980

Priority Level: Not reported

Action: SITE INSPECTION

Date Started: 09/01/1983

Date Completed: 09/01/1983

Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE

Date Started: Not reported

Date Completed: 09/01/1983

Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT

Date Started: 09/01/1983

Date Completed: 09/01/1983

Priority Level: Low priority for further assessment

RCRA-SQG:

Date form received by agency: 11/23/2011

Facility name: AMERICAN AIR FILTER INTERNATL

Facility address: 2100 NELWOOD DR  
COLUMBIA, MO 65202-2392

EPA ID: MOD096718184

Contact: GARY WISNER

Contact address: 2100 NELWOOD DR  
COLUMBIA, MO 65202-2392

Contact country: US

Contact telephone: (573) 886-3100

Telephone ext.: 243

Contact email: GWISNER@AAFINTL.COM

EPA Region: 07

Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AAF INTERNATIONAL - COLUMBIA PLANT (Continued)**

**1000359886**

Owner/Operator Summary:

Owner/operator name: AAF INTERNATIONAL  
Owner/operator address: 2100 NELWOOD DR  
COLUMBIA, MO 65202  
Owner/operator country: US  
Owner/operator telephone: (573) 886-3100  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 11/09/1995  
Owner/Op end date: Not reported

Owner/operator name: AAF INTERNATIONAL  
Owner/operator address: ORMSBY PARK PL STE 600  
LOUISVILLE, KY 40232  
Owner/operator country: US  
Owner/operator telephone: (502) 637-0275  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 11/24/2009  
Owner/Op end date: Not reported

Owner/operator name: AAF INTERNATIONAL  
Owner/operator address: ORMSBY PARK PL STE 600  
LOUISVILLE, KY 40232  
Owner/operator country: US  
Owner/operator telephone: (502) 637-0275  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 11/24/2009  
Owner/Op end date: Not reported

Owner/operator name: AAF INTERNATIONAL  
Owner/operator address: 2100 NELWOOD DR  
COLUMBIA, MO 65202  
Owner/operator country: US  
Owner/operator telephone: (573) 886-3100  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 11/09/1995  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AAF INTERNATIONAL - COLUMBIA PLANT (Continued)**

**1000359886**

Used oil transporter: No

Historical Generators:

Date form received by agency: 11/24/2009

Facility name: AMERICAN AIR FILTER INTERNATL

Site name: AMERICAN AIR FILTER INTERNATIONAL

Classification: Small Quantity Generator

Date form received by agency: 07/09/2004

Facility name: AMERICAN AIR FILTER INTERNATL

Site name: AAF INTERNATIONAL

Classification: Small Quantity Generator

Date form received by agency: 11/09/1995

Facility name: AMERICAN AIR FILTER INTERNATL

Site name: A A F INTERNATIONAL

Classification: Small Quantity Generator

Date form received by agency: 03/01/1994

Facility name: AMERICAN AIR FILTER INTERNATL

Site name: AMERICAN AIR FILTER

Classification: Large Quantity Generator

Date form received by agency: 08/05/1992

Facility name: AMERICAN AIR FILTER INTERNATL

Site name: AMERICAN AIR FILTER

Classification: Large Quantity Generator

Date form received by agency: 02/26/1990

Facility name: AMERICAN AIR FILTER INTERNATL

Site name: AMERICAN AIR FILTER

Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003

Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AAF INTERNATIONAL - COLUMBIA PLANT (Continued)

1000359886

DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D035  
Waste name: METHYL ETHYL KETONE

Waste code: F002  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U220  
Waste name: BENZENE, METHYL-

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D035  
Waste name: METHYL ETHYL KETONE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AAF INTERNATIONAL - COLUMBIA PLANT (Continued)

1000359886

Waste code: F002  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U220  
Waste name: BENZENE, METHYL-

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 10/14/2009  
Date achieved compliance: 12/07/2009  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2009  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: State Statute or Regulation  
Date violation determined: 10/14/2009  
Date achieved compliance: 12/07/2009  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2009  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 10/14/2009  
Date achieved compliance: 12/07/2009  
Violation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AAF INTERNATIONAL - COLUMBIA PLANT (Continued)

1000359886

Enforcement action: Not reported  
Enforcement action date: 10/30/2009  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - B10  
Area of violation: Generators - Pre-transport  
Date violation determined: 10/15/2003  
Date achieved compliance: 11/14/2003  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - B1  
Area of violation: Generators - General  
Date violation determined: 10/15/2003  
Date achieved compliance: 11/14/2003  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - E8  
Area of violation: Generators - Manifest  
Date violation determined: 10/15/2003  
Date achieved compliance: 11/14/2003  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - B9  
Area of violation: Generators - General  
Date violation determined: 10/15/2003  
Date achieved compliance: 11/14/2003  
Violation lead agency: State  
Enforcement action: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AAF INTERNATIONAL - COLUMBIA PLANT (Continued)

1000359886

Enforcement action date: 10/30/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - A5  
Area of violation: Generators - General  
Date violation determined: 10/15/2003  
Date achieved compliance: 11/14/2003  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - B8  
Area of violation: Generators - Pre-transport  
Date violation determined: 10/15/2003  
Date achieved compliance: 11/14/2003  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - E6  
Area of violation: Generators - Manifest  
Date violation determined: 10/15/2003  
Date achieved compliance: 11/14/2003  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - B13  
Area of violation: Generators - Pre-transport  
Date violation determined: 10/15/2003  
Date achieved compliance: 11/14/2003  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AAF INTERNATIONAL - COLUMBIA PLANT (Continued)**

**1000359886**

Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - D9  
Area of violation: Generators - Records/Reporting  
Date violation determined: 10/15/2003  
Date achieved compliance: 11/14/2003  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - B7  
Area of violation: Generators - General  
Date violation determined: 10/15/2003  
Date achieved compliance: 11/14/2003  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: 10/30/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 07/16/1991  
Date achieved compliance: 09/11/1991  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/10/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:  
Evaluation date: 10/14/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 12/07/2009  
Evaluation lead agency: State

Evaluation date: 10/14/2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AAF INTERNATIONAL - COLUMBIA PLANT (Continued)

1000369886

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 12/07/2009  
Evaluation lead agency: State

Evaluation date: 10/14/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: State Statute or Regulation  
Date achieved compliance: 12/07/2009  
Evaluation lead agency: State

Evaluation date: 10/15/2003  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 11/14/2003  
Evaluation lead agency: State

Evaluation date: 10/15/2003  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Manifest  
Date achieved compliance: 11/14/2003  
Evaluation lead agency: State

Evaluation date: 10/15/2003  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Records/Reporting  
Date achieved compliance: 11/14/2003  
Evaluation lead agency: State

Evaluation date: 10/15/2003  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 11/14/2003  
Evaluation lead agency: State

Evaluation date: 07/16/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 09/11/1991  
Evaluation lead agency: State

Evaluation date: 01/11/1985  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

FINDS:

Registry ID: 110012608856

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AAF INTERNATIONAL - COLUMBIA PLANT (Continued)**

**1000369886**

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY**

**2**  
**NW**  
**1/8-1/4**  
**0.216 mi.**  
**1136 ft.**

**LEBARON PARTNERSHIP**  
**2210 NELLWOOD**  
**COLUMBIA, MO 65202**

**UST** **U000751390**  
**N/A**

**Relative:**  
**Higher**

**UST:**

**Facility ID:**  
**Region:**

**ST0007768**  
**NE**

**Actual:**  
**778 ft.**

**Lat/Long:**  
**Lat/Long (dms):**

**39.04356 / -92.26568**  
**Not reported**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEBARON PARTNERSHIP (Continued)

U000751390

Easting: 560875.570  
Northing: 4314084.49  
Method Data Was Obtained: Street Centerline  
Accuracy Of Geospatial Data: 8  
Owner Of Geospatial Data: Hazardous Waste Program  
Amount Of Deviation In Accuracy: Not reported  
Deviation In Meters; Feet; Pdrop; Score: Not reported  
Geospatial Point Line Area Indicator: Not reported  
Geospatial Horizontal Reference Datum: Not reported  
Where Geospatial Data Collected On Site: Not reported  
Geospatial Source Data Location: Not reported  
Geospatial Data Collected By: VANCE, S  
Geospatial Elevation Method: Not reported  
Geospatial Elevation Reference Datum: Not reported  
Date Gis Data Collected: 06/30/2010

Tanks:

Owner:

Owner ID: OW04554  
Owner Name: LEBARON PARTNERSHIP  
Owner Address: 211 SAPPINGTON DRIVE  
Owner City, St, Zip: COLUMBIA, MO 65201  
Owner County Code: 19  
Owner Phone: 4455356  
Mail Was Not Deliverable: No  
Is Owner Active?: No  
Date Registration Received: Not reported  
Date Record Added: 1995-06-30 00:00:00  
Date Record Edited: Not reported  
Name of Person Editing Record: Not reported

Tank ID: 1  
Tank Double Wall: 0  
Tank Type: Below Ground  
**Tank Status: Removed**  
Meet 98 Update Requirements: No  
Date Tank Installed: 01/01/1968  
Tank Material: Steel  
Code for Tank Material Manufacturer: Not reported  
Code for Tank Installer: Not reported  
Other Type Of Tank Material: Not reported  
Tank Internal Protection: Not reported  
Other Tank Internal Protection: Not reported  
Tank Internal Protection Date: Not reported  
Tank External Protection: None  
Other Type Tank Extn Protec: Not reported  
Tank External Protec Date: Not reported  
Date Tank Last Used: 12/19/1991  
Date Tank Permanently Closed/ Removed: 12/17/1991  
Dt Tk Exp Brought InUse/Internal Tracking: Not reported  
Tank Fees Waived: Yes  
Expedite Closure On Tank?: No  
Responsible Person Expediting Closure: Not reported  
Temporary Status Verified Date: Not reported  
Admin Fee 585: Not reported  
Date Administratively Closed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEBARON PARTNERSHIP (Continued)**

**U000751390**

Date Record Added: 06/30/1995  
Date Record Edited: 07/23/2012  
Person Adding/Editing Record: KIRCHNER, M  
Date Of NFA Letter: 12/19/1991  
Is Tank Used For Emergency Generator: No  
Date Closure Notice Received: 09/20/1991  
Date Of Approval Letter: 1991-12-17 00:00:00  
Firm Closing Tank: ENVIRONMENTAL PROJECTS  
Date Closure Report Received: 1991-11-22 00:00:00  
Registration End Date: Not reported  
LockOut Flag: No  
Comments: BELIEVED LAST USED IN 1977

**Tank Compartment:**

Tank Compartment PK: 19543  
Tank PK: 19543  
Compartment No: 1  
Compartment Status: Removed  
Compartment Temp Verified Dt: Not reported  
Capacity: 2500  
Pipe Installation Dt: Not reported  
Pipe System: Not reported  
Pipe Material: 1  
Pipe Material Other: Not reported  
Pipe Protection: Not reported  
Pipe Protection Dt: Not reported  
Pipe Double Wall: 0  
Substance: Gasoline, Including Blends  
Substance Other: Not reported  
Hazardous Substance: Not reported  
Case Number: Not reported  
Mixture: 0  
Date of Last Use: 1991-12-19 00:00:00  
Spill Protection: 0  
Tanks Use: 0

**Owner:**

Owner ID: OW04554  
Owner Name: LEBARON PARTNERSHIP  
Owner Address: 211 SAPPINGTON DRIVE  
Owner City, St, Zip: COLUMBIA, MO 65201  
Owner County Code: 19  
Owner Phone: 4455356  
Mail Was Not Deliverable: No  
Is Owner Active?: No  
Date Registration Received: Not reported  
Date Record Added: 1995-06-30 00:00:00  
Date Record Edited: Not reported  
Name of Person Editing Record: Not reported

Tank ID: 2  
Tank Double Wall: 0  
Tank Type: Below Ground  
**Tank Status: Removed**  
Meet 98 Update Requirements: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEBARON PARTNERSHIP (Continued)

U000761390

Date Tank Installed:	01/01/1968	
Tank Material:	Steel	
Code for Tank Material Manufacturer:	Not reported	
Code for Tank Installer:	Not reported	
Other Type Of Tank Material:	Not reported	
Tank Internal Protection:	Not reported	
Other Tank Internal Protection:	Not reported	
Tank Internal Protection Date:	Not reported	
Tank External Protection:	None	
Other Type Tank Extn Protec:	Not reported	
Tank External Protec Date:	Not reported	
Date Tank Last Used:	12/19/1991	
Date Tank Permanently Closed/ Removed:	12/17/1991	
Dt Tk Exp Brought InUse/Internal Tracking:		Not reported
Tank Fees Waived:	Yes	
Expedite Closure On Tank?:	No	
Responsible Person Expediting Closure:	Not reported	
Temporary Status Verified Date:	Not reported	
Admin Fee 585:	Not reported	
Date Administratively Closed:	Not reported	
Date Record Added:	06/30/1995	
Date Record Edited:	Not reported	
Person Adding/Editing Record:	Not reported	
Date Of NFA Letter:	12/17/1991	
Is Tank Used For Emergency Generator:	No	
Date Closure Notice Received:	09/20/1991	
Date Of Approval Letter:	1991-12-17 00:00:00	
Firm Closing Tank:	ENVIRONMENTAL PROJECTS	
Date Closure Report Received:	1991-11-22 00:00:00	
Registration End Date:	Not reported	
LockOut Flag:	No	
Comments:	BELIEVED LAST USED IN 1977	

Tank Compartment:	
Tank Compartment PK:	19544
Tank PK:	19544
Compartment No:	1
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	1500
Pipe Installation Dt:	Not reported
Pipe System:	Not reported
Pipe Material:	1
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Dt:	Not reported
Pipe Double Wall:	0
Substance:	Gasoline, Including Blends
Substance Other:	Not reported
Hazardous Substance:	Not reported
Case Number:	Not reported
Mixture:	0
Date of Last Use:	1991-12-19 00:00:00
Spill Protection:	0
Tanks Use:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEBARON PARTNERSHIP (Continued)

U000751390

Tank Aug 2011:

Facility Id: ST0007768  
Tank Id: 2  
Site Usage: Not reported  
Risk Type: Not reported  
Soil Type: Not reported  
GW Flow: Not reported  
Offsite Impact: Not reported  
Free Product: Not reported  
Drinking Water: Not reported  
Closed Under: Not reported  
No Drinking Wells: No  
No Buildings: No  
Vapor Barrier: 0  
St Louis Mo: No  
Special Well Area: No  
Surface Cap: No  
No Excavation: No

Facility Id: ST0007768  
Tank Id: 1  
Site Usage: Not reported  
Risk Type: Not reported  
Soil Type: Not reported  
GW Flow: Not reported  
Offsite Impact: Not reported  
Free Product: Not reported  
Drinking Water: Not reported  
Closed Under: Not reported  
No Drinking Wells: No  
No Buildings: No  
Vapor Barrier: 0  
St Louis Mo: No  
Special Well Area: No  
Surface Cap: No  
No Excavation: No

3  
WNW  
1/4-1/2  
0.349 mi.  
1844 ft.

UNITED PARCEL SERVICE  
2501 VANDIVER DR  
COLUMBIA, MO 65201

LUST U001158864  
UST N/A

Relative:  
Higher

LUST:

Actual:  
777 ft.

Facility ID: ST0013470  
Region: NE - Northeast Regional Office  
Lat/Long (dms): 38 58 20 / 92 17 56  
Spill Number: Not reported  
Release Date: 10/20/1993  
Release Type: UNDERGROUND STORAGE TANK  
Date Cleanup Started: 05/05/1994  
Date Cleanup Finished: 05/03/2000  
Expedited: No  
Expedited Date: Not reported  
Expenditures From The American Recovery and Reinvestment Act of 2009: No  
Reopened Date: Not reported  
Number Of Remediation Monitoring Wells: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

**U001158864**

Active: No  
Date Of NFA Letter From DNR: 6/8/2000  
Date Record Meets Archive Criteria: Not reported  
Remediation ID: R004709  
Rank: Not reported  
Emergency Response Date: Not reported  
Emergency Cleanup Start: Not reported  
Referred To DGLS for Investigation: Not reported  
Contractor Performing Clean Up: 84  
RBCA NFA: No  
Project Manager: L  
Next Correspondence/Update With Fac: Not reported  
Date Added: 06/30/1995  
Date Record Edited: 06/07/2000  
Person Adding Or Editing Record: GARRETT, V  
Facility Sent To State Archive: Yes  
Date Remediation Unit Closed The File: Not reported  
Site Affectd By Funding Level From PSTIF: No  
General Comments: 1-26-00 vg rev CAR on OE of 110 tons soil. conf samples clean. MWs have been closed. NOFA can be issued.

**UST:**

Facility ID: ST0013470  
Region: NE  
Lat/Long: 38.97222 / -92.29889  
Lat/Long (dms): 38 58 20 / 92 17 56  
Easting: 560734.397  
Northing: 4313927.53  
Method Data Was Obtained: GPS, Carrier Phase, Static Mode (SA Off)  
Accuracy Of Geospatial Data: 8  
Owner Of Geospatial Data: Hazardous Waste Program  
Amount Of Deviation In Accuracy: Not reported  
Deviation In Meters; Feet; Pdrop; Score: Not reported  
Geospatial Point Line Area Indicator: Not reported  
Geospatial Horizontal Reference Datum: Not reported  
Where Geospatial Data Collected On Site: Not reported  
Geospatial Source Data Location: Not reported  
Geospatial Data Collected By: Not reported  
Geospatial Elevation Method: Not reported  
Geospatial Elevation Reference Datum: Not reported  
Date Gis Data Collected: Not reported

**Tanks:**

**Owner:**

Owner ID: OW02683  
Owner Name: UNITED PARCEL SERVICE  
Owner Address: 13818 RIDER TRAIL DRIVE  
Owner City, St, Zip: EARTH CITY, MO 63045 1204  
Owner County Code: Not reported  
Owner Phone: 3443615  
Mail Was Not Deliverable: No  
Is Owner Active?: Yes  
Date Registration Received: Not reported  
Date Record Added: 1995-06-30 00:00:00  
Date Record Edited: 2008-04-09 00:00:00  
Name of Person Editing Record: KIRCHNER, M

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001168864

Tank ID: 1  
Tank Double Wall: 0  
Tank Type: Below Ground  
**Tank Status: Removed**  
Meet 98 Update Requirements: No  
Date Tank Installed: 01/01/1966  
Tank Material: Steel  
Code for Tank Material Manufacturer: Not reported  
Code for Tank Installer: Not reported  
Other Type Of Tank Material: Not reported  
Tank Internal Protection: No  
Other Tank Internal Protection: Not reported  
Tank Internal Protection Date: Not reported  
Tank External Protection: Unknown  
Other Type Tank Extn Protec: Not reported  
Tank External Protec Date: Not reported  
Date Tank Last Used: 11/05/1990  
Date Tank Permanently Closed/ Removed: 11/05/1990  
Dt Tk Exp Brought InUse/Internal Tracking: Not reported  
Tank Fees Waived: No  
Expedite Closure On Tank?: No  
Responsible Person Expediting Closure: Not reported  
Temporary Status Verified Date: Not reported  
Admin Fee 585: Not reported  
Date Administratively Closed: Not reported  
Date Record Added: 06/30/1995  
Date Record Edited: Not reported  
Person Adding/Editing Record: Not reported  
Date Of NFA Letter: 11/05/1990  
Is Tank Used For Emergency Generator: No  
Date Closure Notice Received: 07/02/1990  
Date Of Approval Letter: 1990-11-05 00:00:00  
Firm Closing Tank: NEUMAYER EQUIPMENT CO,INC  
Date Closure Report Received: 1990-10-26 00:00:00  
Registration End Date: Not reported  
LockOut Flag: No  
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 34260  
Tank PK: 34262  
Compartment No: 1  
Compartment Status: Removed  
Compartment Temp Verified Dt: Not reported  
Capacity: 6000  
Pipe Installation Dt: Not reported  
Pipe System: Not reported  
Pipe Material: 1  
Pipe Material Other: Not reported  
Pipe Protection: Not reported  
Pipe Protection Dt: Not reported  
Pipe Double Wall: 0  
Substance: Gasoline, Including Blends  
Substance Other: Not reported  
Hazardous Substance: Not reported  
Case Number: Not reported  
Mixture: 0  
Date of Last Use: 1990-11-05 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001168864

Spill Protection: 0  
Tanks Use: 0

Owner:

Owner ID: OW02683  
Owner Name: UNITED PARCEL SERVICE  
Owner Address: 13818 RIDER TRAIL DRIVE  
Owner City,St,Zip: EARTH CITY, MO 63045 1204  
Owner County Code: Not reported  
Owner Phone: 3443615  
Mail Was Not Deliverable: No  
Is Owner Active?: Yes  
Date Registration Received: Not reported  
Date Record Added: 1995-06-30 00:00:00  
Date Record Edited: 2008-04-09 00:00:00  
Name of Person Editing Record: KIRCHNER, M

Tank ID: 2  
Tank Double Wall: 0  
Tank Type: Below Ground  
**Tank Status: Removed**  
Meet 98 Update Requirements: No  
Date Tank Installed: 01/01/1970  
Tank Material: Steel  
Code for Tank Material Manufacturer: Not reported  
Code for Tank Installer: Not reported  
Other Type Of Tank Material: Not reported  
Tank Internal Protection: No  
Other Tank Internal Protection: Not reported  
Tank Internal Protection Date: Not reported  
Tank External Protection: Unknown  
Other Type Tank Extn Protec: Not reported  
Tank External Protec Date: Not reported  
Date Tank Last Used: 11/05/1990  
Date Tank Permanently Closed/ Removed: 11/05/1990  
Dt Tk Exp Brought InUse/Internal Tracking: Not reported  
Tank Fees Waived: No  
Expedite Closure On Tank?: No  
Responsible Person Expediting Closure: Not reported  
Temporary Status Verified Date: Not reported  
Admin Fee 585: Not reported  
Date Administratively Closed: Not reported  
Date Record Added: 06/30/1995  
Date Record Edited: Not reported  
Person Adding/Editing Record: admin 8/5/98  
Date Of NFA Letter: 11/05/1990  
Is Tank Used For Emergency Generator: No  
Date Closure Notice Received: 07/02/1990  
Date Of Approval Letter: 1990-11-05 00:00:00  
Firm Closing Tank: NEUMAYER EQUIPMENT CO,INC  
Date Closure Report Received: 1990-10-26 00:00:00  
Registration End Date: Not reported  
LockOut Flag: No  
Comments: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001158864

Tank Compartment:  
Tank Compartment PK: 34261  
Tank PK: 34263  
Compartment No: 1  
Compartment Status: Removed  
Compartment Temp Verified Dt: Not reported  
Capacity: 8000  
Pipe Installation Dt: Not reported  
Pipe System: Not reported  
Pipe Material: 1  
Pipe Material Other: Not reported  
Pipe Protection: Not reported  
Pipe Protection Dt: Not reported  
Pipe Double Wall: 0  
Substance: Diesel  
Substance Other: Not reported  
Hazardous Substance: Not reported  
Case Number: Not reported  
Mixture: 0  
Date of Last Use: 1990-11-05 00:00:00  
Spill Protection: 0  
Tanks Use: 0

Owner:  
Owner ID: OW02683  
Owner Name: UNITED PARCEL SERVICE  
Owner Address: 13818 RIDER TRAIL DRIVE  
Owner City,St,Zip: EARTH CITY, MO 63045 1204  
Owner County Code: Not reported  
Owner Phone: 3443615  
Mail Was Not Deliverable: No  
Is Owner Active?: Yes  
Date Registration Received: Not reported  
Date Record Added: 1995-06-30 00:00:00  
Date Record Edited: 2008-04-09 00:00:00  
Name of Person Editing Record: KIRCHNER, M

Tank ID: 3  
Tank Double Wall: 0  
Tank Type: Below Ground  
**Tank Status: Removed**  
Meet 98 Update Requirements: No  
Date Tank Installed: 01/01/1966  
Tank Material: Steel  
Code for Tank Material Manufacturer: Not reported  
Code for Tank Installer: Not reported  
Other Type Of Tank Material: Not reported  
Tank Internal Protection: No  
Other Tank Internal Protection: Not reported  
Tank Internal Protection Date: Not reported  
Tank External Protection: Unknown  
Other Type Tank Extn Protec: Not reported  
Tank External Protec Date: Not reported  
Date Tank Last Used: 01/01/1987

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001168864

Date Tank Permanently Closed/ Removed: 07/22/1996  
Dt Tk Exp Brought In/Use/Internal Tracking: Not reported  
Tank Fees Waived: Yes  
Expedite Closure On Tank?: No  
Responsible Person Expediting Closure: Not reported  
Temporary Status Verified Date: Not reported  
Admin Fee 585: Not reported  
Date Administratively Closed: Not reported  
Date Record Added: 06/30/1995  
Date Record Edited: 09/27/2000  
Person Adding/Editing Record: PURVIS, K  
Date Of NFA Letter: 07/22/1996  
Is Tank Used For Emergency Generator: No  
Date Closure Notice Received: Not reported  
Date Of Approval Letter: Not reported  
Firm Closing Tank: Not reported  
Date Closure Report Received: Not reported  
Registration End Date: Not reported  
LockOut Flag: No  
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 34262  
Tank PK: 34264  
Compartment No: 1  
Compartment Status: Removed  
Compartment Temp Verified Dt: Not reported  
Capacity: 500  
Pipe Installation Dt: 1966-01-01 00:00:00  
Pipe System: 4  
Pipe Material: 1  
Pipe Material Other: Not reported  
Pipe Protection: Not reported  
Pipe Protection Dt: Not reported  
Pipe Double Wall: 0  
Substance: Used Oil  
Substance Other: Not reported  
Hazardous Substance: Not reported  
Case Number: Not reported  
Mixture: 0  
Date of Last Use: 1987-01-01 00:00:00  
Spill Protection: 0  
Tanks Use: 0

Owner:

Owner ID: OW02683  
Owner Name: UNITED PARCEL SERVICE  
Owner Address: 13818 RIDER TRAIL DRIVE  
Owner City,St,Zip: EARTH CITY, MO 63045 1204  
Owner County Code: Not reported  
Owner Phone: 3443615  
Mail Was Not Deliverable: No  
Is Owner Active?: Yes  
Date Registration Received: Not reported  
Date Record Added: 1995-06-30 00:00:00  
Date Record Edited: 2008-04-09 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001158864

Name of Person Editing Record: KIRCHNER, M

Tank ID: 4  
Tank Double Wall: 0  
Tank Type: Below Ground  
**Tank Status: Currently in use**  
Meet 98 Update Requirements: Yes  
Date Tank Installed: 10/01/1990  
Tank Material: Fiberglass  
Code for Tank Material Manufacturer: Not reported  
Code for Tank Installer: Not reported  
Other Type Of Tank Material: Not reported  
Tank Internal Protection: Not reported  
Other Tank Internal Protection: Not reported  
Tank Internal Protection Date: Not reported  
Tank External Protection: N/A  
Other Type Tank Extn Protec: Not reported  
Tank External Protec Date: Not reported  
Date Tank Last Used: Not reported  
Date Tank Permanently Closed/ Removed: Not reported  
Dt Tk Exp Brought InUse/Internal Tracking: Not reported  
Tank Fees Waived: No  
Expedite Closure On Tank?: No  
Responsible Person Expediting Closure: Not reported  
Temporary Status Verified Date: Not reported  
Admin Fee 585: Not reported  
Date Administratively Closed: Not reported  
Date Record Added: 06/30/1995  
Date Record Edited: 05/19/2011  
Person Adding/Editing Record: CORBIN, M  
Date Of NFA Letter: Not reported  
Is Tank Used For Emergency Generator: No  
Date Closure Notice Received: Not reported  
Date Of Approval Letter: Not reported  
Firm Closing Tank: Not reported  
Date Closure Report Received: Not reported  
Registration End Date: 2015-09-30 00:00:00  
LockOut Flag: No  
Comments: Not reported

Tank Compartment:  
Tank Compartment PK: 34263  
Tank PK: 34265  
Compartment No: 1  
Compartment Status: Currently in use  
Compartment Temp Verified Dt: Not reported  
Capacity: 10000  
Pipe Installation Dt: 1990-10-05 00:00:00  
Pipe System: 1  
Pipe Material: 2  
Pipe Material Other: Not reported  
Pipe Protection: 5  
Pipe Protection Dt: Not reported  
Pipe Double Wall: -1  
Substance: Diesel  
Substance Other: Not reported  
Hazardous Substance: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001158864

Case Number: Not reported  
Mixture: 0  
Date of Last Use: Not reported  
Spill Protection: -1  
Tanks Use: 0

Owner:

Owner ID: OW02683  
Owner Name: UNITED PARCEL SERVICE  
Owner Address: 13818 RIDER TRAIL DRIVE  
Owner City,St,Zip: EARTH CITY, MO 63045 1204  
Owner County Code: Not reported  
Owner Phone: 3443615  
Mail Was Not Deliverable: No  
Is Owner Active?: Yes  
Date Registration Received: Not reported  
Date Record Added: 1995-06-30 00:00:00  
Date Record Edited: 2008-04-09 00:00:00  
Name of Person Editing Record: KIRCHNER, M

Tank ID: 5  
Tank Double Wall: 0  
Tank Type: Below Ground  
**Tank Status:** **Currently in use**  
Meet 98 Update Requirements: Yes  
Date Tank Installed: 10/05/1990  
Tank Material: Fiberglass  
Code for Tank Material Manufacturer: Not reported  
Code for Tank Installer: Not reported  
Other Type Of Tank Material: Not reported  
Tank Internal Protection: Not reported  
Other Tank Internal Protection: Not reported  
Tank Internal Protection Date: Not reported  
Tank External Protection: N/A  
Other Type Tank Extn Protec: Not reported  
Tank External Protec Date: Not reported  
Date Tank Last Used: Not reported  
Date Tank Permanently Closed/ Removed: Not reported  
Dt Tk Exp Brought InUse/Internal Tracking: Not reported  
Tank Fees Waived: No  
Expedite Closure On Tank?: No  
Responsible Person Expediting Closure: Not reported  
Temporary Status Verified Date: Not reported  
Admin Fee 585: Not reported  
Date Administratively Closed: Not reported  
Date Record Added: 06/30/1995  
Date Record Edited: 05/19/2011  
Person Adding/Editing Record: CORBIN, M  
Date Of NFA Letter: Not reported  
Is Tank Used For Emergency Generator: No  
Date Closure Notice Received: Not reported  
Date Of Approval Letter: Not reported  
Firm Closing Tank: Not reported  
Date Closure Report Received: Not reported  
Registration End Date: 2015-09-30 00:00:00

Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001168864

LockOut Flag: No  
Comments: Not reported  
Tank Compartment:  
Tank Compartment PK: 34264  
Tank PK: 34266  
Compartment No: 1  
Compartment Status: Currently in use  
Compartment Temp Verified Dt: Not reported  
Capacity: 10000  
Pipe Installation Dt: 1990-10-05 00:00:00  
Pipe System: 1  
Pipe Material: 2  
Pipe Material Other: Not reported  
Pipe Protection: 5  
Pipe Protection Dt: Not reported  
Pipe Double Wall: -1  
Substance: Gasoline, Including Blends  
Substance Other: Not reported  
Hazardous Substance: Not reported  
Case Number: Not reported  
Mixture: 0  
Date of Last Use: Not reported  
Spill Protection: -1  
Tanks Use: 0

Owner:  
Owner ID: OW02683  
Owner Name: UNITED PARCEL SERVICE  
Owner Address: 13818 RIDER TRAIL DRIVE  
Owner City,St,Zip: EARTH CITY, MO 63045 1204  
Owner County Code: Not reported  
Owner Phone: 3443615  
Mail Was Not Deliverable: No  
Is Owner Active?: Yes  
Date Registration Received: Not reported  
Date Record Added: 1995-06-30 00:00:00  
Date Record Edited: 2008-04-09 00:00:00  
Name of Person Editing Record: KIRCHNER, M

Tank ID: 6  
Tank Double Wall: 0  
Tank Type: Below Ground  
Tank Status: Removed  
Meet 98 Update Requirements: No  
Date Tank Installed: 05/01/1987  
Tank Material: Steel  
Code for Tank Material Manufacturer: Not reported  
Code for Tank Installer: Not reported  
Other Type Of Tank Material: Not reported  
Tank Internal Protection: No  
Other Tank Internal Protection: Not reported  
Tank Internal Protection Date: Not reported  
Tank External Protection: None  
Other Type Tank Extn Protec: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001158864

Tank External Protec Date: Not reported  
Date Tank Last Used: 10/20/1993  
Date Tank Permanently Closed/ Removed: Not reported  
Dt Tk Exp Brought InUse/Internal Tracking: Not reported  
Tank Fees Waived: No  
Expedite Closure On Tank?: No  
Responsible Person Expediting Closure: Not reported  
Temporary Status Verified Date: Not reported  
Admin Fee 585: Not reported  
Date Administratively Closed: Not reported  
Date Record Added: 05/29/1998  
Date Record Edited: 06/10/1998  
Person Adding/Editing Record: N\$PREWJ2  
Date Of NFA Letter: Not reported  
Is Tank Used For Emergency Generator: No  
Date Closure Notice Received: 07/13/1993  
Date Of Approval Letter: Not reported  
Firm Closing Tank: NEUMAYER EQUIPMENT  
Date Closure Report Received: Not reported  
Registration End Date: Not reported  
LockOut Flag: No  
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 34265  
Tank PK: 34267  
Compartment No: 1  
Compartment Status: Removed  
Compartment Temp Verified Dt: Not reported  
Capacity: 1000  
Pipe Installation Dt: Not reported  
Pipe System: 4  
Pipe Material: 1  
Pipe Material Other: Not reported  
Pipe Protection: Not reported  
Pipe Protection Dt: Not reported  
Pipe Double Wall: 0  
Substance: Used Oil  
Substance Other: Not reported  
Hazardous Substance: Not reported  
Case Number: Not reported  
Mixture: 0  
Date of Last Use: 1993-10-20 00:00:00  
Spill Protection: 0  
Tanks Use: 0

Owner:

Owner ID: OW02683  
Owner Name: UNITED PARCEL SERVICE  
Owner Address: 13818 RIDER TRAIL DRIVE  
Owner City, St, Zip: EARTH CITY, MO 63045 1204  
Owner County Code: Not reported  
Owner Phone: 3443615  
Mail Was Not Deliverable: No  
Is Owner Active?: Yes  
Date Registration Received: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001168864

Date Record Added: 1995-06-30 00:00:00  
Date Record Edited: 2008-04-09 00:00:00  
Name of Person Editing Record: KIRCHNER, M

Tank ID: 7  
Tank Double Wall: 0  
Tank Type: Below Ground  
**Tank Status: Removed**  
Meet 98 Update Requirements: No  
Date Tank Installed: 05/01/1985  
Tank Material: Steel  
Code for Tank Material Manufacturer: Not reported  
Code for Tank Installer: Not reported  
Other Type Of Tank Material: Not reported  
Tank Internal Protection: No  
Other Tank Internal Protection: Not reported  
Tank Internal Protection Date: Not reported  
Tank External Protection: None  
Other Type Tank Extn Protec: Not reported  
Tank External Protec Date: Not reported  
Date Tank Last Used: 10/20/1993  
Date Tank Permanently Closed/ Removed: Not reported  
Dt Tk Exp Brought InUse/Internal Tracking: Not reported  
Tank Fees Waived: No  
Expedite Closure On Tank?: No  
Responsible Person Expediting Closure: Not reported  
Temporary Status Verified Date: Not reported  
Admin Fee 585: Not reported  
Date Administratively Closed: Not reported  
Date Record Added: 05/29/1998  
Date Record Edited: 06/10/1998  
Person Adding/Editing Record: NSPREWJ2  
Date Of NFA Letter: Not reported  
Is Tank Used For Emergency Generator: No  
Date Closure Notice Received: 07/13/1993  
Date Of Approval Letter: Not reported  
Firm Closing Tank: NEUMAYER EQUIPMENT  
Date Closure Report Received: Not reported  
Registration End Date: Not reported  
LockOut Flag: No  
Comments: Not reported

Tank Compartment:  
Tank Compartment PK: 34266  
Tank PK: 34268  
Compartment No: 1  
Compartment Status: Removed  
Compartment Temp Verified Dt: Not reported  
Capacity: 1000  
Pipe Installation Dt: Not reported  
Pipe System: Not reported  
Pipe Material: 1  
Pipe Material Other: Not reported  
Pipe Protection: Not reported  
Pipe Protection Dt: Not reported  
Pipe Double Wall: 0  
Substance: Other

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001158864

Substance Other: NEW OIL  
Hazardous Substance: Not reported  
Case Number: Not reported  
Mixture: 0  
Date of Last Use: 1993-10-20 00:00:00  
Spill Protection: 0  
Tanks Use: 0

Tank Aug 2011:

Facility Id: ST0013470  
Tank Id: 1  
Site Usage: Not reported  
Risk Type: Not reported  
Soil Type: Not reported  
GW Flow: Not reported  
Offsite Impact: Not reported  
Free Product: Not reported  
Drinking Water: Not reported  
Closed Under: Not reported  
No Drinking Wells: No  
No Buildings: No  
Vapor Barrier: 0  
St Louis Mo: No  
Special Well Area: No  
Surface Cap: No  
No Excavation: No

Facility Id: ST0013470  
Tank Id: 3  
Site Usage: Not reported  
Risk Type: Not reported  
Soil Type: Not reported  
GW Flow: Not reported  
Offsite Impact: Not reported  
Free Product: Not reported  
Drinking Water: Not reported  
Closed Under: Not reported  
No Drinking Wells: No  
No Buildings: No  
Vapor Barrier: 0  
St Louis Mo: No  
Special Well Area: No  
Surface Cap: No  
No Excavation: No

Facility Id: ST0013470  
Tank Id: 4  
Site Usage: Not reported  
Risk Type: Not reported  
Soil Type: Not reported  
GW Flow: Not reported  
Offsite Impact: Not reported  
Free Product: Not reported  
Drinking Water: Not reported  
Closed Under: Not reported  
No Drinking Wells: No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED PARCEL SERVICE (Continued)

U001158864

No Buildings: No  
Vapor Barrier: 0  
St Louis Mo: No  
Special Well Area: No  
Surface Cap: No  
No Excavation: No

Facility Id: ST0013470  
Tank Id: 5  
Site Usage: Not reported  
Risk Type: Not reported  
Soil Type: Not reported  
GW Flow: Not reported  
Offsite Impact: Not reported  
Free Product: Not reported  
Drinking Water: Not reported  
Closed Under: Not reported  
No Drinking Wells: No  
No Buildings: No  
Vapor Barrier: 0  
St Louis Mo: No  
Special Well Area: No  
Surface Cap: No  
No Excavation: No

Facility Id: ST0013470  
Tank Id: 6  
Site Usage: Not reported  
Risk Type: Not reported  
Soil Type: Not reported  
GW Flow: Not reported  
Offsite Impact: Not reported  
Free Product: Not reported  
Drinking Water: Not reported  
Closed Under: Not reported  
No Drinking Wells: No  
No Buildings: No  
Vapor Barrier: 0  
St Louis Mo: No  
Special Well Area: No  
Surface Cap: No  
No Excavation: No

Facility Id: ST0013470  
Tank Id: 7  
Site Usage: Not reported  
Risk Type: Not reported  
Soil Type: Not reported  
GW Flow: Not reported  
Offsite Impact: Not reported  
Free Product: Not reported  
Drinking Water: Not reported  
Closed Under: Not reported  
No Drinking Wells: No  
No Buildings: No  
Vapor Barrier: 0  
St Louis Mo: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

**U001158864**

Special Well Area:	No
Surface Cap:	No
No Excavation:	No
Facility Id:	ST0013470
Tank Id:	2
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Count: 40 records.

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
COLUMBIA	1000188410	HENDERSON IMPLEMENT CO	3014 HWY 63 N	65202	FINDS,RCRA-NLR
COLUMBIA	1000224218	SAFETY KLEEN CORP 5-042-01	2405 HWY 63 N	65202	FINDS,RCRA-NLR
COLUMBIA	1000284099	WILLIAMS PIPE LINE CO - COLUMBIA	HWY 63 S	65201	CERCLIS-NFRAP,RCRA-SQG
COLUMBIA	1003876505	UNIVERSITY OF MISSOURI - SOUTH FAR	ROLLING SPRINGS RD	65201	CERCLIS-NFRAP
COLUMBIA	1004742168	SIMON STEEL INC	5881 SOUTH HWY 63	65201	FINDS,MANIFEST,RCRA-CESQG
COLUMBIA	1005482375	COLUMBIA CURB & GUTTER COMPANY	4105 I-70 DRIVE SE	65201	MLTS
COLUMBIA	1007106044	WILLERT PRODUCTS INC	RR 2 BOX 156 RICHLAND RT Z	65201	RCRA-NLR
COLUMBIA	1007106746	BREAK TIME #3003	1416 S OLD HWY 63	65201	RCRA-NLR
COLUMBIA	1007107014	RYDER TRUCK RENTAL	3511 RT PP	65201	RCRA-NLR
COLUMBIA	1007107237	COLUMBIA COLLEGE GYMNASIUM LOT	708 RANGELINE	65202	RCRA-NLR
COLUMBIA	1007109399	COLUMBIA M & R	1 M W HWY 63 ON PRATHERSVIL RD	65202	RCRA-NLR
COLUMBIA	1007109683	STUCKEYS DQ #117	3054 HWY J	65201	RCRA-NLR
COLUMBIA	1007110203	VIKING FREIGHT	1839 OLD HWY 49	65202	RCRA-NLR
COLUMBIA	1007264719	CENTRAL MISSOURI AUTOBODY	5353 N HWY 763	65202	RCRA-SQG
COLUMBIA	1008177797	COLUMBIA MUNIC POWER-WP	1501 BUSINESS LOOP EAST	65201	HIST FTTS
COLUMBIA	1008374044	MID CITY LUMBER	4709 PARIS	65201	RCRA-NLR
COLUMBIA	1010002658	COLUMBIA MUNIC POWER-WP	1501 BUSINESS LOOP EAST	65201	FTTS
COLUMBIA	1010786300	COLUMBIA MUNICIPAL POWER PLANT CIT	1501 BUS LOOP 70 E	65201	RCRA-CESQG
COLUMBIA	1010786347	JOLLEYS SERVICE STATION	5711 N HWY 763	65202	RCRA-NLR
COLUMBIA	1011489836	UNIVERSITY OF MISSOURI COLUMBIA	S HWY 63 AT NEW HAVEN RD	65201	RCRA-NLR
COLUMBIA	1011577673	COLUMBIA COAL GAS	INTERSECTION OF ASH & ORR STS	65201	ICIS
COLUMBIA	1012043248	ROUTE M DRUM	ROUTE M	65202	CERCLIS-NFRAP
COLUMBIA	1012052220	MFA AGRI SVC - BOONE COUNTY	2887 COUNTY RD 269	65202	SSTS
COLUMBIA	1012215517	THE LINKS OF COLUMBIA	CLARK LN/ST. CHARLES RD COL	65202	ICIS
COLUMBIA	1014197463	3M COLUMBIA	5400 RT. B	65202	TSCA
COLUMBIA	1014202231	UNIVERSITY OF MISSOURI (EX) RIFLE	1 MILE S. ON 65 FROM I-70	65201	CERCLIS
COLUMBIA	1014947966	3M COLUMBIA	ROUTE B	65202	ENG CONTROLS,INST CONTROL
COLUMBIA	A100270754	BREAKTIME #3112	6050 E. AB HWY.	65201	AST
COLUMBIA	A100343329	BEE LINE #4	912 S OLD HWY 63	65201	AST
COLUMBIA	A100343330	BREAK TIME #3003	1416 OLD HWY 63 S	65201	AST
COLUMBIA	A100343425	BREAK TIME 3020	1901 N HWY 763	65202	AST
COLUMBIA	A100343532	MIDWAY AUTO/TRUCK PLAZA	HWY 240 & I-70	65202	AST
COLUMBIA	A100343549	BREAKTIME #3001	901 HWY 63 N	65201	AST
COLUMBIA	A100361810	PIASA MOTOR FUELS	HWY 63 S	65201	AST
COLUMBIA	S106513931	JOLLEY'S APCO	5711 N HWY 763	65202	LAST
COLUMBIA	S106976428	DAVIS CLEANERS	HIGHWAY 40 AND ILLINOISE		DRYCLEANERS
COLUMBIA	U001158850	MURRAY & SONS GROCERY	HWY 63 N	65201	LUST,UST
COLUMBIA	U004109327	MIDWAY OF COLUMBIA, INC	6751 HWY 40 W	65202	UST
COLUMBIA	U004136928	MODOT JOB#J5U0675	HWY 763 & SHALIMAR DR	65201	UST
COLUMBIA	U004159410	BOATMEN'S BANK	5 OLD HWY 63 S	65201	LUST,UST

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

### STANDARD ENVIRONMENTAL RECORDS

#### *Federal NPL site list*

##### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 06/07/2012  
Date Data Arrived at EDR: 07/05/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 75

Source: EPA  
Telephone: N/A  
Last EDR Contact: 10/11/2012  
Next Scheduled EDR Contact: 01/21/2013  
Data Release Frequency: Quarterly

##### NPL Site Boundaries

###### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 3  
Telephone 215-814-5418

EPA Region 4  
Telephone 404-562-8033

EPA Region 5  
Telephone 312-886-6686

EPA Region 10  
Telephone 206-553-8665

EPA Region 6  
Telephone: 214-655-6659

EPA Region 7  
Telephone: 913-551-7247

EPA Region 8  
Telephone: 303-312-6774

EPA Region 9  
Telephone: 415-947-4246

##### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 06/07/2012  
Date Data Arrived at EDR: 07/05/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 75

Source: EPA  
Telephone: N/A  
Last EDR Contact: 10/11/2012  
Next Scheduled EDR Contact: 01/21/2013  
Data Release Frequency: Quarterly

##### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### *Federal Delisted NPL site list*

#### DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425 (e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 08/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 10/11/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

### *Federal CERCLIS list*

#### CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 11/28/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 03/11/2013
	Data Release Frequency: Quarterly

#### FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/09/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Varies

### *Federal CERCLIS NFRAP site List*

#### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time.

This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 11/28/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 03/11/2013
	Data Release Frequency: Quarterly

### *Federal RCRA CORRACTS facilities list*

#### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/19/2011  
Date Data Arrived at EDR: 08/31/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 132

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 11/12/2012  
Next Scheduled EDR Contact: 02/25/2013  
Data Release Frequency: Quarterly

### ***Federal RCRA non-CORRACTS TSD facilities list***

#### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: 913-551-7003  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

### ***Federal RCRA generators list***

#### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: 913-551-7003  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

#### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: 913-551-7003  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

#### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: 913-551-7003  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### *Federal institutional controls / engineering controls registries*

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/18/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/24/2012	Telephone: 703-603-0695
Date Made Active in Reports: 11/05/2012	Last EDR Contact: 11/05/2012
Number of Days to Update: 104	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/18/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/24/2012	Telephone: 703-603-0695
Date Made Active in Reports: 11/05/2012	Last EDR Contact: 11/05/2012
Number of Days to Update: 104	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 11/15/2012
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/04/2013
	Data Release Frequency: Varies

### *Federal ERNS list*

#### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/02/2012	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 04/03/2012	Telephone: 202-267-2180
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Annually

### *State- and tribal - equivalent CERCLIS*

#### SHWS: Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 06/06/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/07/2012	Telephone: 573-751-1990
Date Made Active in Reports: 07/18/2012	Last EDR Contact: 09/18/2012
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/17/2012
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### HWS DETAIL: Registry Annual Report

Each site is described in detail in this annual report and includes the following information: a general description of the site; a summary of any significant environmental problems at and near the site; a summary of any serious health problems in the immediate vicinity of the site; the status of any testing, monitoring or remedial actions in progress or recommended by the department.

Date of Government Version: 06/30/2011	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/16/2012	Telephone: 573-751-3176
Date Made Active in Reports: 04/11/2012	Last EDR Contact: 09/10/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/24/5007
	Data Release Frequency: Annually

### **State and tribal landfill and/or solid waste disposal site lists**

#### SWF/LF: Solid Waste Facility List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/12/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/13/2012	Telephone: 573-751-5401
Date Made Active in Reports: 07/18/2012	Last EDR Contact: 11/15/2012
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/04/2013
	Data Release Frequency: Quarterly

### **State and tribal leaking storage tank lists**

#### LUST: Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/23/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 11/02/2012	Telephone: 573-751-0135
Date Made Active in Reports: 11/13/2012	Last EDR Contact: 11/02/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Semi-Annually

#### LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 10/23/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 11/02/2012	Telephone: 573-751-6822
Date Made Active in Reports: 11/13/2012	Last EDR Contact: 11/02/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Quarterly

#### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012	Source: EPA Region 10
Date Data Arrived at EDR: 08/02/2012	Telephone: 206-553-2857
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 10/30/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Quarterly

#### INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/27/2012  
Date Data Arrived at EDR: 08/28/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 49

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012  
Date Data Arrived at EDR: 09/07/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012  
Date Data Arrived at EDR: 05/09/2012  
Date Made Active in Reports: 07/10/2012  
Number of Days to Update: 62

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 11/01/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011  
Date Data Arrived at EDR: 12/15/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 26

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011  
Date Data Arrived at EDR: 09/13/2011  
Date Made Active in Reports: 11/11/2011  
Number of Days to Update: 59

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012  
Date Data Arrived at EDR: 08/28/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 49

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Varies

### **State and tribal registered storage tank lists**

UST: Petroleum Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/23/2012  
Date Data Arrived at EDR: 11/02/2012  
Date Made Active in Reports: 11/14/2012  
Number of Days to Update: 12

Source: Department of Natural Resources  
Telephone: 573-751-0135  
Last EDR Contact: 11/02/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Semi-Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AST: Aboveground Petroleum Storage Tanks  
Registered Aboveground Storage Tanks.

Date of Government Version: 08/07/2012  
Date Data Arrived at EDR: 08/08/2012  
Date Made Active in Reports: 09/28/2012  
Number of Days to Update: 51

Source: Department of Agriculture  
Telephone: 573-751-7062  
Last EDR Contact: 11/01/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012  
Date Data Arrived at EDR: 05/02/2012  
Date Made Active in Reports: 07/16/2012  
Number of Days to Update: 75

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 11/01/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011  
Date Data Arrived at EDR: 12/15/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 26

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012  
Date Data Arrived at EDR: 08/03/2012  
Date Made Active in Reports: 11/05/2012  
Number of Days to Update: 94

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011  
Date Data Arrived at EDR: 05/11/2011  
Date Made Active in Reports: 06/14/2011  
Number of Days to Update: 34

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012  
Date Data Arrived at EDR: 08/28/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 49

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6137
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Quarterly

### INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012	Source: EPA Region 10
Date Data Arrived at EDR: 08/02/2012	Telephone: 206-553-2857
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Quarterly

### INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012	Source: EPA Region 9
Date Data Arrived at EDR: 09/07/2012	Telephone: 415-972-3368
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 39	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Quarterly

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 10/15/2012
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/28/2013
	Data Release Frequency: Varies

### *State and tribal institutional control / engineering control registries*

#### AUL: Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 09/20/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 10/18/2012	Telephone: 573-751-3176
Date Made Active in Reports: 11/13/2012	Last EDR Contact: 11/19/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 03/04/2013
	Data Release Frequency: Varies

### *State and tribal voluntary cleanup sites*

#### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012	Source: EPA, Region 1
Date Data Arrived at EDR: 10/02/2012	Telephone: 617-918-1102
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### VCP: Sites Participating in the Voluntary Cleanup Program

Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 09/20/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 10/18/2012	Telephone: 573-526-8913
Date Made Active in Reports: 11/13/2012	Last EDR Contact: 11/19/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 03/04/2013
	Data Release Frequency: Semi-Annually

### State and tribal Brownfields sites

#### BROWNFIELDS: Brownfields Site List

Brownfields are sites where redevelopment and reuse is hampered by known or suspected contamination with hazardous substances. While many brownfield sites are minimally contaminated, potential environmental liability can be a problem for owners, operators, prospective buyers and financial institutions. Because of the large number of these sites, their economic impact especially in heavily industrial areas is substantial.

Date of Government Version: 09/20/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 10/18/2012	Telephone: 573-526-8913
Date Made Active in Reports: 11/13/2012	Last EDR Contact: 11/19/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 03/04/2013
	Data Release Frequency: Semi-Annually

### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

#### US BROWNFIELDS: A Listing of Brownfields Sites

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. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 10/24/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/26/2012	Telephone: 202-566-2777
Date Made Active in Reports: 11/05/2012	Last EDR Contact: 09/24/2012
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/07/2013
	Data Release Frequency: Semi-Annually

#### Local Lists of Landfill / Solid Waste Disposal Sites

#### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/03/2012
Number of Days to Update: 137	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### HIST LF: Solid Waste Facility Database List

This database contains detailed information per site. It is no longer maintained by the Department of Natural Resources. For current information on solid waste facilities/landfills see the SWF/LF database.

Date of Government Version: 04/12/2005  
Date Data Arrived at EDR: 07/19/2006  
Date Made Active in Reports: 08/18/2006  
Number of Days to Update: 30

Source: Department of Natural Resources  
Telephone: 573-751-5401  
Last EDR Contact: 01/12/2009  
Next Scheduled EDR Contact: 04/13/2009  
Data Release Frequency: No Update Planned

### SWRCY: Solid Waste Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 11/05/2009  
Date Data Arrived at EDR: 12/23/2009  
Date Made Active in Reports: 01/21/2010  
Number of Days to Update: 29

Source: Department of Natural Resources  
Telephone: 573-526-3944  
Last EDR Contact: 09/19/2012  
Next Scheduled EDR Contact: 12/17/2012  
Data Release Frequency: Varies

### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 11/05/2012  
Next Scheduled EDR Contact: 02/18/2013  
Data Release Frequency: Varies

### Local Lists of Hazardous waste / Contaminated Sites

#### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/11/2012  
Date Data Arrived at EDR: 09/12/2012  
Date Made Active in Reports: 11/05/2012  
Number of Days to Update: 54

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 09/05/2012  
Next Scheduled EDR Contact: 12/17/2012  
Data Release Frequency: Quarterly

#### DEL SHWS: Registry Sites Withdrawn or Deleted

A list of sites that were removed from the Registry or for which Registry action was suspended due to cleanup.

Date of Government Version: 06/06/2012  
Date Data Arrived at EDR: 06/07/2012  
Date Made Active in Reports: 07/18/2012  
Number of Days to Update: 41

Source: Department of Natural Resources  
Telephone: 573-522-3710  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/17/2012  
Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### CDL: Environmental Emergency Response System

Incidents reported to the Department of Natural Resources where drug lab materials were involved.

Date of Government Version: 06/27/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/02/2012	Telephone: 573-751-3443
Date Made Active in Reports: 08/30/2012	Last EDR Contact: 09/21/2012
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Varies

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

### Local Land Records

#### LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/26/2012	Telephone: 202-564-6023
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 11/01/2012
Number of Days to Update: 80	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Varies

### Records of Emergency Release Reports

#### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/01/2012	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/03/2012	Telephone: 202-366-4555
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Annually

#### SPILLS: Environmental Response Tracking Database

Releases of hazardous substances reported to the department's Environmental Emergency Response (EER) section.

Date of Government Version: 06/27/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/02/2012	Telephone: 573-526-3349
Date Made Active in Reports: 08/30/2012	Last EDR Contact: 09/21/2012
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Semi-Annually

### Other Ascertainable Records

#### RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: 913-551-7003  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 11/06/2012  
Next Scheduled EDR Contact: 02/18/2013  
Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 10/18/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Semi-Annually

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 08/12/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 09/10/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/01/2012  
Date Data Arrived at EDR: 07/24/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 10/01/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012  
Date Data Arrived at EDR: 03/14/2012  
Date Made Active in Reports: 06/14/2012  
Number of Days to Update: 92

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 09/12/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Annually

### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 11/28/2012  
Next Scheduled EDR Contact: 03/11/2013  
Data Release Frequency: Varies

### MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011  
Date Data Arrived at EDR: 09/08/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 09/04/2012  
Next Scheduled EDR Contact: 12/17/2012  
Data Release Frequency: Semi-Annually

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 09/01/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 131

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 11/28/2012  
Next Scheduled EDR Contact: 03/11/2013  
Data Release Frequency: Annually

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 09/29/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 64

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 06/29/2012  
Next Scheduled EDR Contact: 01/07/2013  
Data Release Frequency: Every 4 Years

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 11/26/2012  
Next Scheduled EDR Contact: 03/11/2013  
Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 11/26/2012  
Next Scheduled EDR Contact: 03/11/2013  
Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 11/01/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011  
Date Data Arrived at EDR: 11/10/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 61

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 10/19/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010  
Date Data Arrived at EDR: 11/10/2010  
Date Made Active in Reports: 02/16/2011  
Number of Days to Update: 98

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 10/19/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Annually

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011  
Date Data Arrived at EDR: 07/15/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 60

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 09/05/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/02/2012	Telephone: 202-343-9775
Date Made Active in Reports: 11/05/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011	Source: EPA
Date Data Arrived at EDR: 12/13/2011	Telephone: (913) 551-7003
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 09/11/2012
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Quarterly

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009	Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011	Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 08/31/2012
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Biennially

### UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 08/24/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/28/2012	Telephone: 573-368-2183
Date Made Active in Reports: 10/17/2012	Last EDR Contact: 11/26/2012
Number of Days to Update: 50	Next Scheduled EDR Contact: 03/11/2013
	Data Release Frequency: Varies

### DRYCLEANERS: Drycleaners in Missouri Listing

A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/18/2012  
Date Data Arrived at EDR: 09/19/2012  
Date Made Active in Reports: 10/09/2012  
Number of Days to Update: 20

Source: Department of Natural Resources  
Telephone: 573-526-8913  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Varies

### RRC: Certified Hazardous Waste Resource Recovery Facilities

Facilities that take hazardous waste material, either from on-site or off-site, and make it re-usable.

Date of Government Version: 09/13/2012  
Date Data Arrived at EDR: 09/20/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 26

Source: Department of Natural Resources  
Telephone: 573-751-3176  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Semi-Annually

### NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 10/10/2012  
Date Data Arrived at EDR: 10/11/2012  
Date Made Active in Reports: 11/14/2012  
Number of Days to Update: 34

Source: Department of Natural Resources  
Telephone: 573-751-7023  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/21/2013  
Data Release Frequency: Varies

### AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 09/18/2012  
Date Data Arrived at EDR: 09/21/2012  
Date Made Active in Reports: 10/09/2012  
Number of Days to Update: 18

Source: Department of Natural Resources  
Telephone: 573-751-4817  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Varies

### INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 10/18/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Semi-Annually

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 10/22/2012  
Next Scheduled EDR Contact: 02/04/2013  
Data Release Frequency: Varies

### FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2012  
Date Data Arrived at EDR: 09/11/2012  
Date Made Active in Reports: 10/11/2012  
Number of Days to Update: 30

Source: Department of Natural Resources  
Telephone: 573-751-5401  
Last EDR Contact: 09/11/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Varies

### COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

Date of Government Version: 10/09/2012  
Date Data Arrived at EDR: 10/11/2012  
Date Made Active in Reports: 11/14/2012  
Number of Days to Update: 34

Source: Department of Natural Resources  
Telephone: 573-526-1825  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

### FINANCIAL ASSURANCE 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 09/05/2012  
Date Data Arrived at EDR: 09/07/2012  
Date Made Active in Reports: 10/09/2012  
Number of Days to Update: 32

Source: Department of Natural Resources  
Telephone: 573-751-3553  
Last EDR Contact: 09/05/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Varies

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011  
Date Data Arrived at EDR: 05/18/2012  
Date Made Active in Reports: 05/25/2012  
Number of Days to Update: 7

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 08/16/2012  
Next Scheduled EDR Contact: 11/26/2012  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010  
Date Data Arrived at EDR: 01/03/2011  
Date Made Active in Reports: 03/21/2011  
Number of Days to Update: 77

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 09/14/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Varies

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 10/16/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011  
Date Data Arrived at EDR: 10/19/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 11/02/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/20/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/28/2012	Telephone: 202-566-1917
Date Made Active in Reports: 11/05/2012	Last EDR Contact: 11/16/2012
Number of Days to Update: 69	Next Scheduled EDR Contact: 03/04/2013
	Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/13/2012	Telephone: 617-520-3000
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 11/12/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 02/25/2013
	Data Release Frequency: Quarterly

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/18/2012
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/28/2013
	Data Release Frequency: N/A

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/01/2012	Source: EPA
Date Data Arrived at EDR: 10/04/2012	Telephone: 202-564-6023
Date Made Active in Reports: 11/05/2012	Last EDR Contact: 10/04/2012
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Quarterly

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

##### Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/20/2012  
Date Data Arrived at EDR: 08/20/2012  
Date Made Active in Reports: 09/20/2012  
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 11/19/2012  
Next Scheduled EDR Contact: 03/04/2013  
Data Release Frequency: Annually

#### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2012  
Date Data Arrived at EDR: 08/09/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 55

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 11/07/2012  
Next Scheduled EDR Contact: 02/18/2013  
Data Release Frequency: Annually

#### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/23/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 57

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 10/22/2012  
Next Scheduled EDR Contact: 02/04/2013  
Data Release Frequency: Annually

#### Ri MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 06/22/2012  
Date Made Active in Reports: 07/31/2012  
Number of Days to Update: 39

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 11/26/2012  
Next Scheduled EDR Contact: 03/11/2013  
Data Release Frequency: Annually

#### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/19/2012  
Date Made Active in Reports: 09/27/2012  
Number of Days to Update: 70

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Oil/Gas Pipelines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

### **Electric Power Transmission Line Data**

Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### **AHA Hospitals:**

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### **Medical Centers: Provider of Services Listing**

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### **Nursing Homes**

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### **Public Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### **Private Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### **Daycare Centers: Licensed Child Care Facilities**

Source: Department of Health & Senior Services

Telephone: 573-751-2450

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### **Scanned Digital USGS 7.5' Topographic Map (DRG)**

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## **GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

### **STREET AND ADDRESS INFORMATION**

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## **GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

CITY OF COLUMBIA - CNG FUELING STATION  
LAKE RIDGEWAY RD. / VANDIVER DR.  
COLUMBIA, MO 65202

### **TARGET PROPERTY COORDINATES**

Latitude (North):	38.9717 - 38° 58' 18.12"
Longitude (West):	92.2938 - 92° 17' 37.68"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	561177.3
UTM Y (Meters):	4313665.5
Elevation:	735 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	38092-H3 COLUMBIA, MO
Most Recent Revision:	1982

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

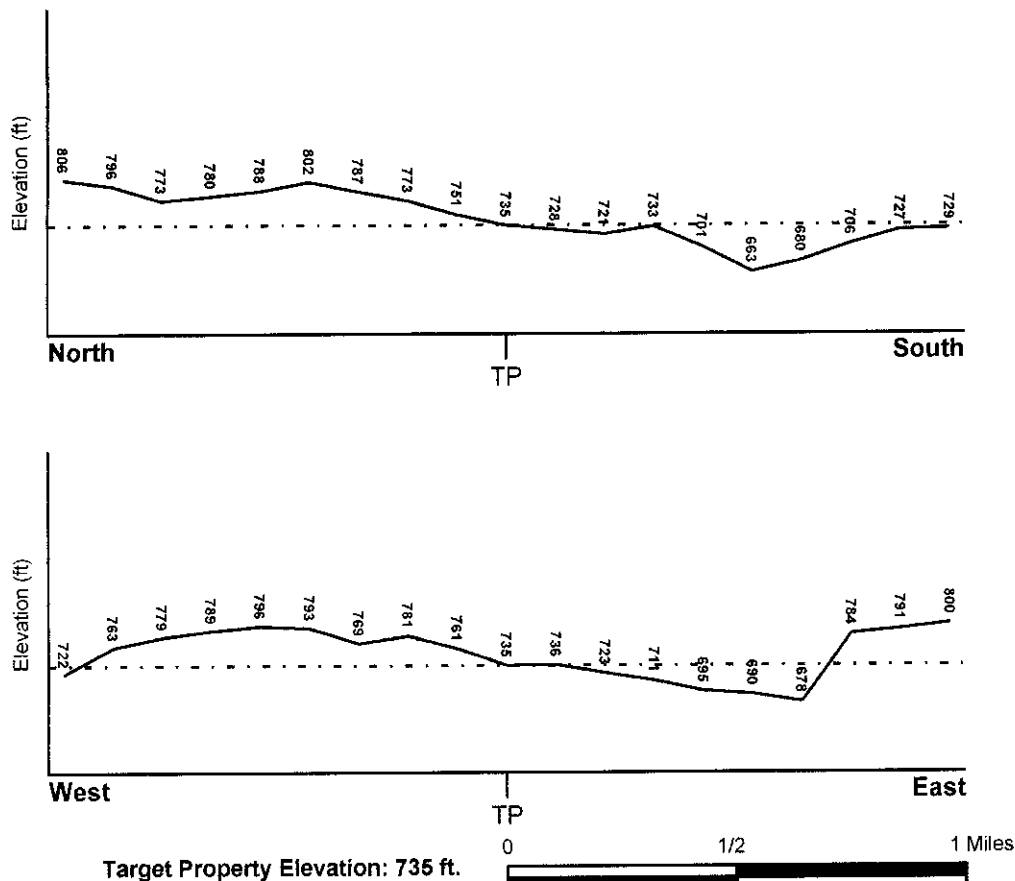
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### FEMA FLOOD ZONE

Target Property County  
BOONE, MO

FEMA Flood  
Electronic Data  
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 2900360006B - FEMA Q3 Flood data

Additional Panels in search area: 2900360007B - FEMA Q3 Flood data  
2900360012B - FEMA Q3 Flood data  
2900360013B - FEMA Q3 Flood data

### NATIONAL WETLAND INVENTORY

NWI Quad at Target Property  
COLUMBIA

NWI Electronic  
Data Coverage  
YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u>	<u>GENERAL DIRECTION</u>
	<u>FROM TP</u>	<u>GROUNDWATER FLOW</u>
Not Reported		

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

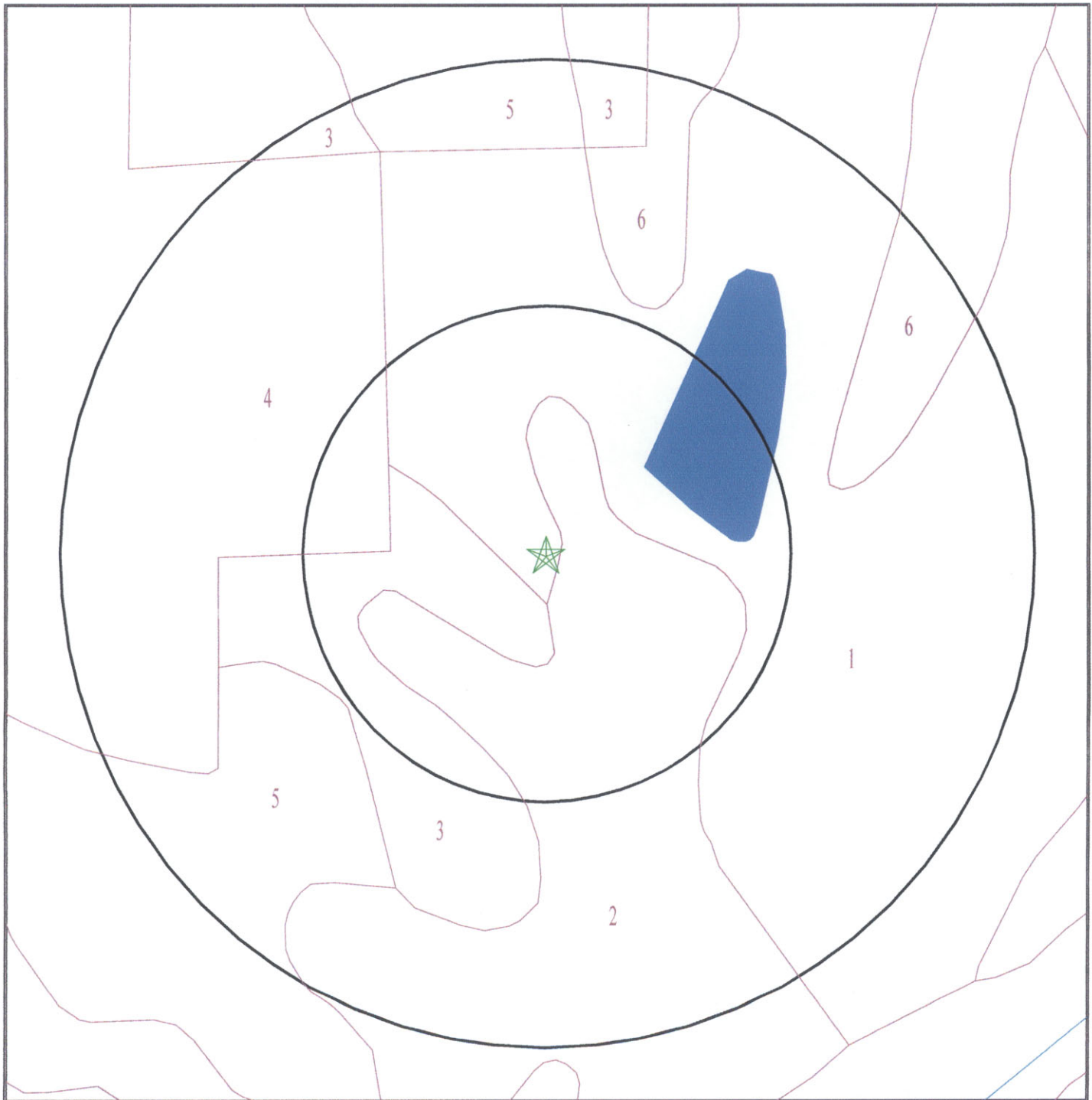
Era:	Paleozoic
System:	Pennsylvanian
Series:	Des Moinesian Series
Code:	PP2 (decoded above as Era, System & Series)

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 3464739.2s



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: City of Columbia - CNG Fueling Station  
ADDRESS: Lake Ridgeway Rd. / Vandiver Dr.  
Columbia MO 65202  
LAT/LONG: 38.9717 / 92.2938

CLIENT: Midwest Environmental  
CONTACT: Kim Pundmann  
INQUIRY #: 3464739.2s  
DATE: November 28, 2012 3:22 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

#### Soil Map ID: 1

Soil Component Name: Keswick

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 4.5
2	7 inches	20 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 4.5
3	20 inches	59 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: Keswick

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	silt loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 7.3 Min: 4.5
2	3 inches	53 inches	clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 7.3 Min: 4.5
3	53 inches	59 inches	clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 7.3 Min: 4.5

### Soil Map ID: 3

Soil Component Name: Weller

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.1
2	7 inches	12 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.1
3	12 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.1
4	46 inches	79 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.1

### Soil Map ID: 4

Soil Component Name: Urban land

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:  
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 5

Soil Component Name: Keswick

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 4.5
2	7 inches	20 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 4.5
3	20 inches	59 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 4.5

### Soil Map ID: 6

Soil Component Name: Weller

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.1
2	7 inches	12 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.1
3	12 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.1
4	46 inches	79 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.1

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS2557495	1/4 - 1/2 Mile WNW
7	USGS2557492	1/2 - 1 Mile SSW

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

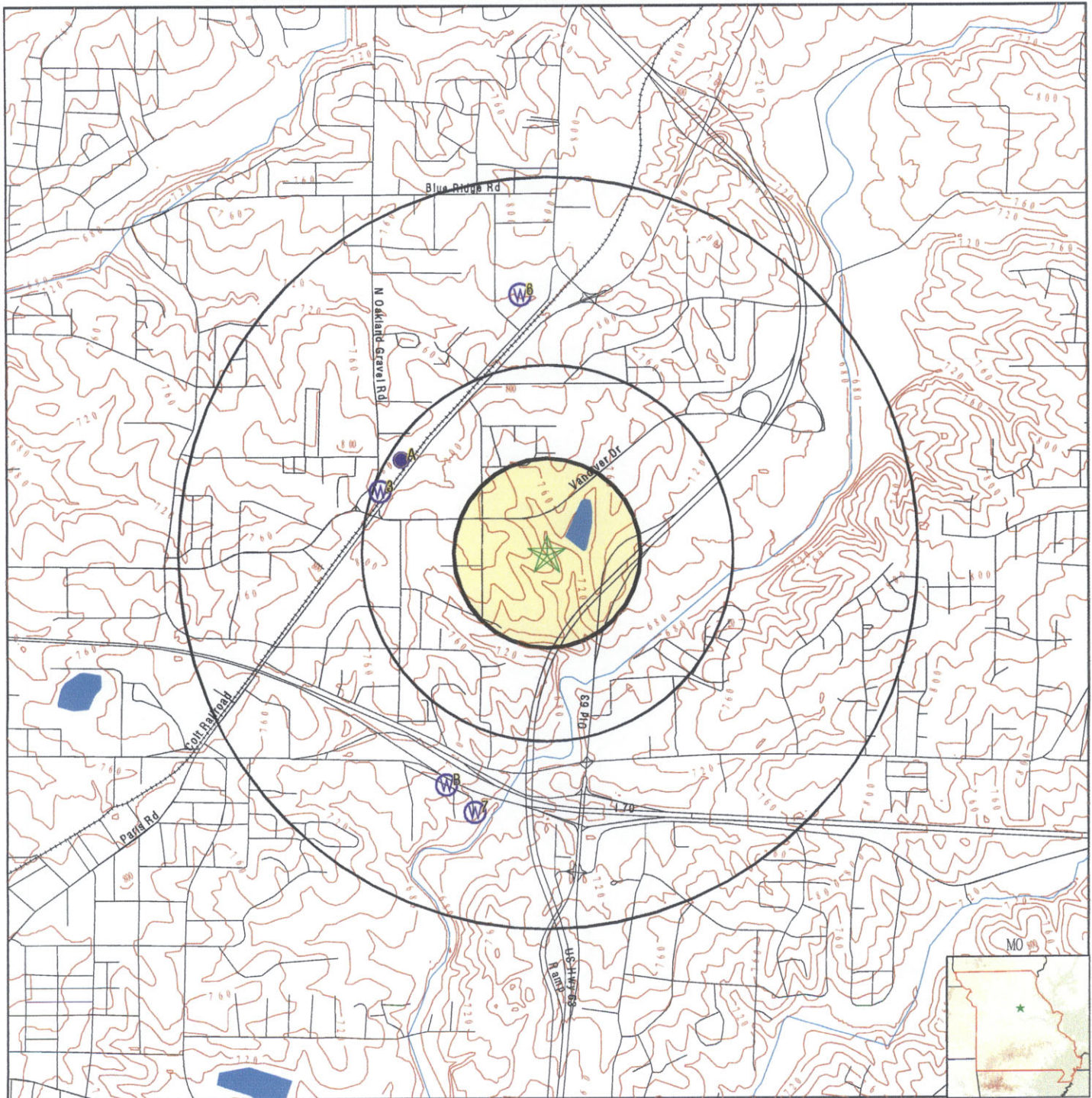
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	MOLOG1000021282	1/4 - 1/2 Mile NW
3	MO6000000005387	1/4 - 1/2 Mile WNW
B4	MOLOG1000021189	1/2 - 1 Mile SSW
B5	MO6000000005363	1/2 - 1 Mile SSW
6	MOLOG1000021346	1/2 - 1 Mile North

# PHYSICAL SETTING SOURCE MAP - 3464739.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells

**SITE NAME:** City of Columbia - CNG Fueling Station  
**ADDRESS:** Lake Ridgeway Rd. / Vandiver Dr.  
 Columbia MO 65202  
**LAT/LONG:** 38.9717 / 92.2938

**CLIENT:** Midwest Environmental  
**CONTACT:** Kim Pundmann  
**INQUIRY #:** 3464739.2s  
**DATE:** November 28, 2012 3:22 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

A1  
NW  
1/4 - 1/2 Mile  
Higher

MO WELLS MOLOG1000021282

Id:	010158	Located:	Not Reported
Notenough:	Not Reported	Scale:	100k
Locator:	VBProgram	Sname:	MISSOURI
Stabbrev:	MO	County:	BOONE
Utm x:	560584		
Utm y:	4314093		
Latitude:	38.97559		
Longitude:	-92.30061		
Qtr3:	SW	Qtr2:	NW
Qtr1:	NW		
Section:	5		
Tnsp:	48		
Tnspdir:	Not Reported		
Rng:	12		
Rngdir:	W		
Plssx:	561284		
Plssy:	4313576		
Location p:	146		
Elev:	806		
Idnum:	10158		
Swl:	0		
Quadrangle:	COLUMBIA	Site id:	MOLOG1000021282

## Header Information:

Id:	010158	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	BOONE
Fips:	019	Sname:	MISSOURI
Stabbrev:	MO	Qtr3:	SW
Qtr2:	NW	Qtr1:	NW
Section:	05	Tnsp:	48
Tnspdir:	N	Rng:	12
Rngdir:	W		
Latitude:	38.97559		
Longitude:	-92.30061		
Utm x:	560584		
Utm y:	4314093		
Quadmap na:	COLUMBIA	Ohio code:	38092H3
Limeas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	S
Typelog2:	Not Reported	Typelog3:	Not Reported
Ownerind:	1	Owner:	City of Columbia Well #11
Leasenam:	Old Well #5 (city's ref #)	Driller:	Layne-Western
Drdate:	1948/05/01	Permit:	Not Reported
Logdate:	1948/06/14	Logger:	McCracken
Elev:	806		
Elevbase:	S	Prodyld:	791
Gpmcfs:	G		
Depthbed:	0		
Sampsav:	0	Swla:	376
Swlb:	Not Reported		
Water at:	Not Reported		
Totdepth:	1200	Formation :	PENNSYLVANIAN SYSTEM
Formation1:	GASCONADE DOLOMITE		
Intcrdtp:	0		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Intordbt:	0	Aquclass:	Not Reported
Drawdown:	83	Reldate:	Not Reported
Confind:	0	Probnd2:	Not Reported
Probnd1:	Not Reported	Additional:	PUBLIC DRINKING WATER
Probnd3:	Not Reported	Add databa:	3010181
Alagny1:	PW	Add data 1:	Not Reported
Addition 1:	Not Reported	Add data 2:	Not Reported
Alnum2:	Not Reported	Rmkind:	Y
Add data 3:	Not Reported		
Remarks:	Columbia refers to this as Well #5		
C total:	605	C plugind:	N
C remarks:	GROUTED WITH 675 SX OF CEMENT		

### Construction Information:

Id:	010158	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	194805
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	105		
Cas1diam:	26		
Cas2dpth:	500		
Cas2diam:	20		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	0	Typgrr1:	G
Typgrr2:	Not Reported	Typgrr3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	N		
Szcashot:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	0
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubeptes:	Not Reported	Remarks:	GROUTED WITH 675 SX OF CEMENT
Other data:	Not Reported	Formation :	COTTER DOLOMITE
Formation1:	LOWER GASCONADE DOLOMITE		

### Strata Information:

Id:	010158	Stratordr:	4800
Fmtp:	0		
Fmbot:	102		
Formation :	PENNSYLVANIAN SYSTEM		
Primlith:	SHALE	Minlith:	LIMESTONE
Seclith:	SAND		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

## Strata Information:

Id:	010158	Stratordr:	28400
Fmtop:	102		
Fmbot:	330		
Formation :	MISSISSIPPIAN SYSTEM		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

## Strata Information:

Id:	010158	Stratordr:	31800
Fmtop:	102		
Fmbot:	255		
Formation :	OSAGEAN SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

## Strata Information:

Id:	010158	Stratordr:	32200
Fmtop:	102		
Fmbot:	255		
Formation :	KEOKUK-BURLINGTON LS. UNDIFF		
Primlith:	LIMESTONE	Minlith:	DOLOMITE
Secclith:	CHERT		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

## Strata Information:

Id:	010158	Stratordr:	33700
Fmtop:	255		
Fmbot:	330		
Formation :	KINDERHOOKIAN SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:		Stratordr:	34300
Id:	010158		
Fmtop:	255		
Fmbot:	330		
Formation :	CHOUTEAU GROUP		
Primlith:	LIMESTONE	Minlith:	DOLOMITE
Secclith:	CHERT		
Primmin:	ZnS		
Primocc:	3		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	34700
Id:	010158		
Fmtop:	255		
Fmbot:	275		
Formation :	SEDALIA FORMATION		
Primlith:	DOLOMITE	Minlith:	SILTSTONE
Secclith:	Not Reported		
Primmin:	ZnS		
Primocc:	2		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	35100
Id:	010158		
Fmtop:	330		
Fmbot:	385		
Formation :	DEVONIAN SYSTEM		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	36700
Id:	010158		
Fmtop:	330		
Fmbot:	385		
Formation :	MIDDLE DEVONIAN SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

## Strata Information:

Id:	010158	Stratordr:	36900
Fmtp:	330		
Fmbot:	385		
Formation :	CEDAR VALLEY LIMESTONE		
Primlith:	LIMESTONE	Minlith:	CHERT
Secclith:	SAND		
Primmin:	FES2		
Primocc:	1		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	385-400' DETRITAL		

## Strata Information:

Id:	010158	Stratordr:	39000
Fmtp:	400		
Fmbot:	1200		
Formation :	ORDOVICIAN SYSTEM		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

## Strata Information:

Id:	010158	Stratordr:	44300
Fmtp:	385		
Fmbot:	400		
Formation :	KRESS FORMATION		
Primlith:	SAND	Minlith:	Not Reported
Secclith:	CHERT		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

## Strata Information:

Id:	010158	Stratordr:	44300
Fmtp:	385		
Fmbot:	400		
Formation :	KRESS FORMATION		
Primlith:	SAND	Minlith:	Not Reported
Secclith:	CHERT		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:		Stratordr:	44800
Id:	010158		
Fmtp:	400		
Fmbot:	1200		
Formation :	CANADIAN (IBEXIAN) SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	45200
Id:	010158		
Fmtp:	400		
Fmbot:	425		
Formation :	POWELL DOLOMITE		
Primlith:	DOLOMITE	Minlith:	SAND
Seclith:	CHERT		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	45500
Id:	010158		
Fmtp:	425		
Fmbot:	650		
Formation :	COTTER DOLOMITE		
Primlith:	DOLOMITE	Minlith:	SAND
Seclith:	CHERT		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	45800
Id:	010158		
Fmtp:	650		
Fmbot:	800		
Formation :	JEFFERSON CITY DOLOMITE		
Primlith:	DOLOMITE	Minlith:	SAND
Seclith:	CHERT		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:			
Id:	010158	Stratordr:	45900
Fmtp:	765		
Fmbot:	775		
Formation :	"QUARRY LEDGE"		
Primlith:	DOLOMITE	Minlith:	CHERT
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:			
Id:	010158	Stratordr:	46000
Fmtp:	800		
Fmbot:	905		
Formation :	ROUBIDOUX FORMATION		
Primlith:	DOLOMITE	Minlith:	SANDSTONE
Seclith:	CHERT		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:			
Id:	010158	Stratordr:	46200
Fmtp:	905		
Fmbot:	1200		
Formation :	GASCONADE DOLOMITE		
Primlith:	DOLOMITE	Minlith:	SAND
Seclith:	CHERT		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:			
Id:	010158	Stratordr:	46300
Fmtp:	905		
Fmbot:	950		
Formation :	UPPER GASCONADE DOLOMITE		
Primlith:	DOLOMITE	Minlith:	SAND
Seclith:	CHERT		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:		Stratordr:	46300
Id:	010158		
Fmtp:	905		
Fmbot:	930		
Formation :	"RICHLAND DOLOMITE MEMBER"		
Prmlith:	DOLOMITE		
Sec lith:	Not Reported	Minlith:	SAND
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	46400
Id:	010158		
Fmtp:	950		
Fmbot:	1165		
Formation :	LOWER GASCONADE - VAN BUREN		
Prmlith:	DOLOMITE		
Sec lith:	CHERT	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	46500
Id:	010158		
Fmtp:	1165		
Fmbot:	1200		
Formation :	GUNTER SANDSTONE MEMBER		
Prmlith:	DOLOMITE		
Sec lith:	SANDSTONE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	46500
Id:	010158		
Fmtp:	1165		
Fmbot:	1200		
Formation :	GUNTER SANDSTONE MEMBER		
Prmlith:	DOLOMITE		
Sec lith:	SANDSTONE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:		Stratordr:	99900
Id:	010158		
Fmtop:	1200		
Fmbot:	1200		
Formation :	TOTAL DEPTH		
Primlith:	Not Reported	Miniith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Remarks:		Feature:	WC
Id:	010158	Fileid:	H
Agency:	GS		
Remarks:	Not Reported		

Remarks:		Feature:	WC
Id:	010158	Fileid:	C
Agency:	GS		
Remarks:	105' OF 26" SURFACE PIPE. 675 SACS OF CEMENT.		

**A2**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS USGS2567495**

Agency cd:	USGS	Site no:	385830092180501
Site name:	T48N R12W 05BBC1	EDR Site id:	USGS2557495
Latitude:	385830	Dec lat:	38.97503962
Longitude:	0921805	Coor meth:	M
Dec lon:	-92.30157183	Latlong datum:	NAD27
Coor accr:	M	District:	29
Dec latlong datum:	NAD83	County:	019
State:	29	Land net:	SWNWVWWS05 T48N R12W 5
Country:	US	Map scale:	24000
Location map:	COLUMBIA		
Altitude:	806.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri/Moreau. Missouri. Area = 3360 sq.mi.		
Topographic:	Not Reported	Date construction:	19480501
Site type:	Ground-water other than Spring	Mean greenwich time offset:	CST
Date inventoried:	Not Reported		
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	GASCONADE DOLOMITE		
Well depth:	1200	Hole depth:	1200
Source of depth data:	Not Reported		
Project number:	MO 79-0360	Daily flow data begin date:	0000-00-00
Real time data flag:	0	Daily flow data count:	0
Daily flow data end date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data begin date:	0000-00-00		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0  
 Water quality data end date: 0000-00-00  
 Ground water data begin date: 1948-05-01  
 Ground water data count: 4

Water quality data begin date: 0000-00-00  
 Water quality data count: 0  
 Ground water data end date: 1958-04-09

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-04-09	376		1953-11-20	334	
1950-04-15	325		1948-05-01	315	

3

WNW  
 1/4 - 1/2 Mile  
 Higher

MO WELLS MO6000000005387

Objectid: 2638  
 Logid: 010158  
 Pwssname: Columbia  
 Pwssid: 3010181105  
 Ipws: MO3010181105  
 Localname: Old Well #5, Mexico Gravel  
 Factype: City  
 Status: Abandoned  
 Ddlat: 38.97409  
 Ddlong: -92.30215  
 Mapname: Columbia  
 County: Boone  
 Mdnnum: 2  
 Aban: 0  
 Material: Consolidated  
 Form cd: Cotter  
 Form td: Gasconade  
 Totdepth: 1200  
 Topseal: Pump Base  
 Casedepth: 500  
 Casetype: Steel  
 Topcaseelv: 0  
 Caseheight: 0  
 Outcasesiz: 0  
 Scmsize: -9999  
 Yield: 750  
 Drawdown: 112  
 Pumptype: Vertical Turbine  
 Pumpdepth: 560  
 Meter: Not Reported  
 Voc: N  
 Chlor: Not Reported  
 Gwudisw: Not Reported  
 Surfdrain: Not Reported  
 Method: GPS, Static Mode  
 Locstatus: Not Verified  
 Lastupdate: 2008/03/05  
 Welldist: 0

Uniqueid: 102626  
 Wwmsid: Not Reported  
 Pwssid: 3010181  
 Ipws: MO3010181  
 Wellnum: 5  
 Wellid: 12311  
 Fed type: C  
 Fips: 29019  
 Mdnreg: Northeast  
 Drilldate: 1948  
 Plug: 0  
 Grndelev: 805  
 Botseal: Pressure Grout  
 Casesize: 20  
 Outcasedep: 0  
 Scmlength: -9999  
 Staticleve: 376  
 Head: 0  
 Pumptestda: 0  
 Pumpmanuf: Layne Western  
 Pumpcapaci: 750  
 Stdbypwr: Y  
 Nitrate: N  
 Filter: Not Reported  
 Stappr: Not Reported  
 Entry: Not Reported  
 Accuracy: 40  
 Verloc: N  
 Tweyrswa: 0  
 Site id: MO6000000005387

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

B4  
SSW  
1/2 - 1 Mile  
Lower

MO WELLS MOLOG1000021189

Id: 012240  
Notenough: Not Reported  
Locator: VBProgram  
Stabbrev: MO  
Utm x: 560767  
Utm y: 4312689  
Latitude: 38.96293  
Longitude: -92.29862  
Qtr3: NE  
Qtr1: NW  
Section: 8  
Tnsp: 48  
Tnspdir: Not Reported  
Rng: 12  
Rngdir: W  
Plssx: 561267  
Plssy: 4311963  
Location p: 147  
Elev: 711  
Idnum: 12240  
Swl: 0  
Quadrangle: COLUMBIA

Located: Not Reported  
Scale: 100k  
Sname: MISSOURI  
County: BOONE

Qtr2: NW

Site id: MOLOG1000021189

## Header Information:

Id: 012240  
Agencyname: GEOLOGICAL SURVEY (DGLS)  
Fips: 019  
Stabbrev: MO  
Qtr2: NW  
Section: 08  
Tnspdir: N  
Rngdir: W  
Latitude: 38.96293  
Longitude: -92.29862  
Utm x: 560767  
Utm y: 4312689  
Quadmap na: COLUMBIA  
Limeas: D  
Locator: VBProgram  
Typelog2: Not Reported  
Ownerind: 1  
Leasenam: Old Well #6 (city's ref #)  
Drldate: 1953/03/20  
Logdate: 1953/03/00  
Elev: 711  
Elevbase: S  
Gpmcfs: G  
Depthbed: 35  
Sampsav: 0  
Swlb: 187  
Water at: 180', 700-1025'  
Totdepth: 1100  
Formation1: EMINENCE DOLOMITE  
Intcrdtp: 0

Well type: Community Public Well  
County: BOONE  
Sname: MISSOURI  
Qtr3: NE  
Qtr1: NW  
Tnsp: 48  
Rng: 12

Ohio code: 38092H3  
Scale: 100k  
Typelog1: S  
Typelog3: Not Reported  
Owner: City of Columbia Well #12  
Driller: Layne-Western  
Permit: Not Reported  
Logger: Marinkovic, S.

Prodyld: 986

Swla: 275

Formation : WARSAW FORMATION

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Interdbt:	0	Aquclass:	Not Reported
Drawdown:	198	Reldate:	Not Reported
Confind:	0	Probind2:	Not Reported
Probind1:	Not Reported	Additional:	PUBLIC DRINKING WATER
Probind3:	Not Reported	Add databa:	3010181
Alagny1:	PW	Add data 1:	Not Reported
Addition 1:	Not Reported	Add data 2:	Not Reported
Alnum2:	Not Reported	Rmkind:	Y
Add data 3:	Not Reported		
Remarks:	on East Blvd - City refers to this as Well #6 - S OF HWY 40, JUST W OF HINKSON CREEK		
C total:	500	C plugind:	N
C remarks:	GROUTED WITH 700 SX OF CEMENT		

### Construction Information:

Id:	012240	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	195207
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	500		
Cas1diam:	20		
Cas2dpth:	0		
Cas2diam:	0		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	0	Typgtr1:	G
Typgtr2:	Not Reported	Typgtr3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltrat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	N		
Szcashol:	0		
Szbeicas:	15		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	0
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubeptes:	Not Reported	Remarks:	GROUTED WITH 700 SX OF CEMENT
Other data:	Not Reported	Formation :	COTTER DOLOMITE
Formation1:	EMINENCE DOLOMITE		

### Strata Information:

Id:	012240	Stratordr:	100
Fmtop:	0		
Fmbot:	35		
Formation :	RESIDUUM & TOP SOIL		
Primlith:	CLAY		
Secclith:	SAND	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:		Stratordr:	28400
Id:	012240		
Fmtp:	35		
Fmbot:	275		
Formation :	MISSISSIPPIAN SYSTEM		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	30800
Id:	012240		
Fmtp:	35		
Fmbot:	75		
Formation :	MERAMECIAN SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	31200
Id:	012240		
Fmtp:	35		
Fmbot:	75		
Formation :	WARSAW FORMATION		
Primlith:	DOLOMITE	Minlith:	CHERT
Secclith:	LIMESTONE		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	31800
Id:	012240		
Fmtp:	75		
Fmbot:	195		
Formation :	OSAGEAN SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:		Stratordr:	32200
Id:	012240		
Fmtop:	75		
Fmbot:	195		
Formation :	KEOKUK-BURLINGTON LS. UNDIFF		
Primlith:	CHERT	Minlith:	DOLOMITE
Secclith:	LIMESTONE		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	33700
Id:	012240		
Fmtop:	195		
Fmbot:	275		
Formation :	KINDERHOOKIAN SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	34300
Id:	012240		
Fmtop:	195		
Fmbot:	275		
Formation :	CHOUTEAU GROUP		
Primlith:	LIMESTONE	Minlith:	CHERT
Secclith:	DOLOMITE		
Primmin:	ZnS		
Primocc:	1		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	34700
Id:	012240		
Fmtop:	195		
Fmbot:	225		
Formation :	SEDALIA FORMATION		
Primlith:	DOLOMITE	Minlith:	SAND
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:		Stratordr:	35100
Id:	012240		
Fmtp:	275		
Fmbot:	305		
Formation :	DEVONIAN SYSTEM		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	36700
Id:	012240		
Fmtp:	275		
Fmbot:	305		
Formation :	MIDDLE DEVONIAN SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	36900
Id:	012240		
Fmtp:	275		
Fmbot:	305		
Formation :	CEDAR VALLEY LIMESTONE		
Primlith:	LIMESTONE	Minlith:	CHERT
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	CALLAWAY		

Strata Information:		Stratordr:	39000
Id:	012240		
Fmtp:	305		
Fmbot:	1050		
Formation :	ORDOVICIAN SYSTEM		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 44800  
Fmtop: 305  
Fmbot: 1050  
Formation : CANADIAN (IBEXIAN) SERIES  
Primlith: Not Reported  
Seclith: Not Reported Minlith: Not Reported  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 45500  
Fmtop: 305  
Fmbot: 525  
Formation : COTTER DOLOMITE  
Primlith: DOLOMITE  
Seclith: CHERT Minlith: SAND  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 45600  
Fmtop: 470  
Fmbot: 485  
Formation : "SWAN CREEK SANDSTONE"  
Primlith: DOLOMITE  
Seclith: SAND Minlith: CHERT  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 45600  
Fmtop: 470  
Fmbot: 485  
Formation : "SWAN CREEK SANDSTONE"  
Primlith: DOLOMITE  
Seclith: SAND Minlith: CHERT  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 45800  
Fmtop: 525  
Fmbot: 665  
Formation : JEFFERSON CITY DOLOMITE  
Primlith: DOLOMITE  
Secolith: CHERT Minlith: SAND  
Primmin: FES2  
Primocc: 2  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 46000  
Fmtop: 665  
Fmbot: 760  
Formation : ROUBIDOUX FORMATION  
Primlith: DOLOMITE  
Secolith: CHERT Minlith: SANDSTONE  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 46200  
Fmtop: 760  
Fmbot: 1050  
Formation : GASCONADE DOLOMITE  
Primlith: DOLOMITE  
Secolith: CHERT Minlith: SAND  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 46300  
Fmtop: 760  
Fmbot: 785  
Formation : "RICHLAND DOLOMITE MEMBER"  
Primlith: DOLOMITE  
Secolith: Not Reported Minlith: CHERT  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 46300  
Fmtop: 760  
Fmbot: 805  
Formation : UPPER GASCONADE DOLOMITE  
Primlith: DOLOMITE  
Seclith: CHERT Minlith: SAND  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 46400  
Fmtop: 805  
Fmbot: 1020  
Formation : LOWER GASCONADE DOLOMITE  
Primlith: DOLOMITE  
Seclith: CHERT Minlith: Not Reported  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 46500  
Fmtop: 1020  
Fmbot: 1050  
Formation : GUNTER SANDSTONE MEMBER  
Primlith: DOLOMITE  
Seclith: SAND Minlith: CHERT  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Strata Information:  
Id: 012240 Stratordr: 46500  
Fmtop: 1020  
Fmbot: 1050  
Formation : GUNTER SANDSTONE MEMBER  
Primlith: DOLOMITE  
Seclith: SAND Minlith: CHERT  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minmin: Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:		Stratordr:	46600
Id:	012240		
Fmtp:	1050		
Fmbot:	1100		
Formation :	CAMBRIAN SYSTEM		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	46700
Id:	012240		
Fmtp:	1050		
Fmbot:	1100		
Formation :	UPPER CAMBRIAN SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	46800
Id:	012240		
Fmtp:	1050		
Fmbot:	1100		
Formation :	EMINENCE DOLOMITE		
Primlith:	DOLOMITE	Minlith:	SAND
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:		Stratordr:	99900
Id:	012240		
Fmtp:	1100		
Fmbot:	1100		
Formation :	TOTAL DEPTH		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minmin:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Remarks:  
Id: 012240 Feature: WC  
Agency: GS Fileid: H  
Remarks: Not Reported

Remarks:  
Id: 012240 Feature: WC  
Agency: GS Fileid: C  
Remarks: 700 SX CEM;38'/26" SURFACE CSG.

**B5**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**MO WELLS MO6000000005363**

Objectid:	2637	Uniqueid:	102625
Logid:	012240	Wwmsid:	Not Reported
Pwssname:	Columbia	Pwssid:	3010181
Pwssidext:	3010181106	Ipws:	MO3010181
Ipwsext:	MO3010181106	Wellnum:	6
Localname:	Old Well #6, East Blvd.	Wellid:	12310
Factype:	City	Fed type:	C
Status:	Inactive		
Ddlat:	38.96261		
Ddlong:	-92.29904		
Mapname:	Columbia	Fips:	29019
County:	Boone	Mdnreg:	Northeast
Mdnnum:	2	Drilldate:	1952
Aban:	1976	Plug:	0
Material:	Consolidated		
Form cd:	Cotter		
Form id:	Eminence		
Totdepth:	1200	Grndelev:	709
Topseal:	Pump Base	Botseal:	Pressure Grout
Casedepth:	500	Casesize:	20
Casetype:	Steel		
Topcaseelv:	0		
Caseheight:	0	Outcasedep:	0
Outcasesiz:	0	Scrnlengh:	-9999
Scrnsiz:	-9999	Staticleve:	283
Yield:	750	Head:	0
Drawdown:	120	Pumptestda:	0
Pumptype:	Vertical Turbine	Pumpmanuf:	Layne Western
Pumpdepth:	560	Pumpcapaci:	750
Meter:	Not Reported	Stdbypr:	Y
Voc:	N	Nitrate:	N
Chlor:	Not Reported	Filter:	Not Reported
Gwudisw:	Not Reported	Stappr:	Not Reported
Surfdrain:	Not Reported	Entry:	Not Reported
Method:	GPS, Static Mode	Accuracy:	40
Locstatus:	Not Verified	Verloc:	N
Lastupdate:	2005/12/01	Tweyrswa:	0
Welldist:	0	Site id:	MO6000000005363



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

6  
North  
1/2 - 1 Mile  
Higher

MO WELLS MOLOG1000021346

Id: Notenough: Locator: Stabbrev: Utm x: Utm y: Latitude: Longitude: Qtr3: Qtr1: Section: Tnsp: Tnspdir: Rng: Rngdir: Plssx: Plssy: Location p: Elev: Idnum: Swl: Quadrangle:	000105 Not Reported VBProgram MO 561055 4314770 38.98166 -92.29511 C Not Reported 32 49 Not Reported 12 W 561255 4315182 582 785 105 0 COLUMBIA	Located: Scale: Sname: County:    Qtr2:         Site id:	Not Reported 100k MISSOURI BOONE   SW       MOLOG1000021346
--	--	--	--

Header Information:

Id: Agencyname: Fips: Stabbrev: Qtr2: Section: Tnspdir: Rngdir: Latitude: Longitude: Utm x: Utm y: Quadmap na: Lmeas: Locator: Typelog2: Ownerind: Leasenam: Drldate: Logdate: Elev: Elevbase: Gpmcfs: Depthbed: Sampsav: Swlb: Water at: Totdepth: Formation1: Intcrdtp:	000105 GEOLOGICAL SURVEY (DGLS) 019 MO SW 32 N W 38.98166 -92.29511 561055 4314770 COLUMBIA D VBProgram Not Reported 1 Not Reported Not Reported Not Reported 785 S Not Reported 40 0 Not Reported 760-775' 800 CANADIAN SERIES 0	Well type: County: Sname: Qtr3: Qtr1: Tnsp: Rng:  Ohio code: Scale: Typelog1: Typelog3: Owner: Driller: Permit: Logger:  Prodyld:  Swla:  Formation :	Community Public Well BOONE MISSOURI C Not Reported 49 12  38092H3 100k D Not Reported City of Columbia Well #6 Rummons, Cliff Not Reported Not Reported  Not Reported  283  PENNSYLVANIAN SYSTEM
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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Intordbt:	0	Aquaclass:	Not Reported
Drawdown:	Not Reported	Reldate:	Not Reported
Confind:	0	Probnd2:	Not Reported
Probnd1:	Not Reported	Additional:	PUBLIC DRINKING WATER
Probnd3:	Not Reported	Add databa:	3010181
Alagncy1:	PW	Add data 1:	Not Reported
Addition 1:	Not Reported	Add data 2:	Not Reported
Alnum2:	Not Reported	Rmkind:	N
Add data 3:	Not Reported	C plugind:	N
Remarks:	DRILLER'S LOG ONLY; 2 MI NE OF COLUMBIA, "ONE OF FIRST 3 WELLS DRILLED"		
C total:	450		
C remarks:	Not Reported		

## Construction Information:

Id:	000105	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	Not Reported
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	450		
Cas1diam:	0		
Cas2dpth:	0		
Cas2diam:	0		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	0	Typgrt1:	Not Reported
Typgrt2:	Not Reported	Typgrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	N
Dateabnd:	Not Reported		
Pigdpt1b:	0		
Pigdpt1t:	0		
Multcase:	N		
Szcashol:	150		
Szbeicas:	100		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfint:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubeapres:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	MISSISSIPPIAN SYSTEM
Formation1:	CANADIAN (IBEXIAN) SERIES		

## Strata Information:

Id:	000105	Stratordr:	0
Fmrtop:	80		
Fmbot:	450		
Formation :	NO SAMPLES		
Primlith:	Not Reported	Minlith:	Not Reported
Secclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

## Strata Information:

Id: 000105  
Fmtp: 40  
Fmbot: 80  
Formation : CHEROKEE GROUP  
Primlith: LIMESTONE  
Seclith: Not Reported  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Stratordr: 23400

Minlith: Not Reported

## Strata Information:

Id: 000105  
Fmtp: 450  
Fmbot: 550  
Formation : MISSISSIPPIAN SYSTEM  
Primlith: LIMESTONE  
Seclith: Not Reported  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported  
Minrocc: 0  
Rmk20: Not Reported

Stratordr: 28400

Minlith: Not Reported

## Strata Information:

Id: 000105  
Fmtp: 550  
Fmbot: 800  
Formation : ORDOVICIAN SYSTEM  
Primlith: CHERT  
Seclith: LIMESTONE  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported  
Minrocc: 0  
Rmk20: CAVERN 760' TO 775'

Stratordr: 39000

Minlith: SANDSTONE

## Strata Information:

Id: 000105  
Fmtp: 800  
Fmbot: 800  
Formation : TOTAL DEPTH  
Primlith: Not Reported  
Seclith: Not Reported  
Primmin: Not Reported  
Primocc: 0  
Secmin: Not Reported  
Secocc: 0  
Minrmin: Not Reported

Stratordr: 99900

Minlith: Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

7  
SSW  
1/2 - 1 Mile  
Lower

FED USGS USGS2657492

Agency cd:	USGS	Site no:	385802092190501
Site name:	T48N R12W 08BAB	EDR Site id:	USGS2557492
Latitude:	385742	Dec lat:	38.96170604
Longitude:	0921750	Coor meth:	M
Dec lon:	-92.29740539	Latlong datum:	NAD27
Coor accr:	F	District:	29
Dec latlong datum:	NAD83	County:	019
State:	29	Land net:	NWNENWS08 T48N R12W 5
Country:	US	Map scale:	24000
Location map:	COLUMBIA		
Altitude:	690.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri Moreau. Missouri. Area = 3360 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	195304
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined multiple aquifers		
Aquifer:	DRIFT		
Well depth:	1505	Hole depth:	1505
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	1953-04-29	Water quality data begin date:	1953-04-29
Ground water data begin date:	1953-11-20	Water quality data count:	1
Ground water data count:	1	Ground water data end date:	1953-11-20

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1953-11-20	347	

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: MO Radon

### Radon Test Results

Zipcode	Test Date	Result
65202	02/17/09	2.4
65202	02/19/08	< 0.3
65202	02/20/07	0.6
65202	02/20/07	< 0.3
65202	02/21/08	18.8
65202	02/21/09	2.7
65202	01/12/08	2.9
65202	01/12/08	13.9
65202	01/21/09	0.6
65202	01/27/07	1.3
65202	02/01/08	0.6
65202	02/02/09	< 0.3
65202	02/08/06	2.1
65202	02/09/08	0.6
65202	02/09/08	3.8
65202	02/09/09	0.5
65202	02/11/08	5.7
65202	02/12/09	5.6
65202	03/29/07	< 0.3
65202	03/29/08	4.6
65202	04/02/07	2.8
65202	04/11/08	249.6
65202	04/15/08	< 0.3
65202	04/25/08	1.5
65202	04/26/07	2.7
65202	04/26/07	< 0.3
65202	04/28/08	1
65202	02/24/07	27.8
65202	02/26/09	2.4
65202	03/01/08	< 0.3
65202	03/02/09	1.7
65202	03/08/08	< 0.3
65202	03/20/08	7.5
65202	05/17/06	7
65202	05/17/07	8.2
65202	05/17/08	< 0.3
65202	05/24/07	4.4
65202	06/01/07	2.5
65202	07/02/05	3.4
65202	07/18/08	5.8
65202	07/30/07	3.3
65202	08/11/08	0.9
65202	08/16/04	0.6
65202	08/16/04	3.2
65202	08/22/08	1.1
65202	08/25/04	0.7
65202		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

	08/30/04	18.8
65202	06/16/08	4.4
65202	06/19/07	6.1
65202	05/01/08	< 0.3
65202	05/02/08	9.7
65202	09/20/04	0.5
65202	09/20/04	12.1
65202	10/02/06	1.8
65202	10/23/04	9.2
65202	10/23/04	22.3
65202	11/03/03	7
65202	11/04/05	7.8
65202	11/07/06	4.3
65202	11/13/08	1.2
65202	11/24/07	1.9
65202	11/24/07	3.4
65202	12/08/07	7.5
65202	12/14/07	0.6
65202	12/26/06	1.6

Federal EPA Radon Zone for BOONE County: 2

Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 65202

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	11.900 pCi/L	0%	100%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Missouri Public Drinking Water Wells

Source: Department of Natural Resources

Telephone: 573-526-5448

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Database

Source: Department of Natural Resources

Telephone: 573-368-2143

### RADON

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration



## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STREET AND ADDRESS INFORMATION

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## **APPENDIX 3**

### **Interview Documentation**

**PHASE I ESA  
USER QUESTIONNAIRE**

As defined by the ASTM Designation E 1527-05, in order for one of the Landowner Liability Protections<sup>1</sup> offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the *user* of the Phase I ESA must provide the following information (if available):

Name of Property: Part of Lot 20, Center State

Person Completing Questionnaire: Eric E. Evans, City of Columbia Fleet Operations Manager

**1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).**

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law? No.

**2. Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).**

Are you aware of any AULs, such as engineering controls, land use restriction, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law? No.

**3. Specialized knowledge or experience of the person seeking to qualify for the Landowner Liability Protection (40 CFR 312.28).**

As the *user* of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? No.

---

<sup>1</sup> *Landowner Liability Protections, or LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* ("Common Elements" Guide) issued March 6, 2003.

**4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).**

Does the purchase price for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? Yes.

**5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.29).**

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as the *user*,

- a) Do you know the past uses of the property? No.
- b) Do you know of specific chemicals that are present or once were present at the property? No.
- c) Do you know of spills or other chemical releases that have taken place at the property? No.
- d) Do you know of any environmental cleanups that have taken place at the property? No.

**6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**

As the *user* of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination on the property? No.

## **APPENDIX 4**

### **Historical Research Documentation**

**City Directories  
Aerial Photographs  
Sanborn Map Search  
Historical Topographic Maps**

## City Directories

**City of Columbia - CNG Fueling Station**

Lake Ridgeway Rd. - Vandiver Dr.  
Columbia, MO 65202

Inquiry Number: 3464739.6  
December 14, 2012

## **The EDR-City Directory Image Report**

**Environmental Data Resources Inc**

440 Wheelers Farms Road  
Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## TABLE OF CONTENTS

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Executive Summary

Findings

City Directory Images

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2012	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1998	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1991	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1984	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1977	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1970	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1964	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory

### RECORD SOURCES

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## FINDINGS

### TARGET PROPERTY STREET

Lake Ridgeway Rd. - Vandiver Dr.  
Columbia, MO 65202

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

#### Lake Ridgeway Rd

2012	pg A1	Polk's City Directory	
2005	-	Polk's City Directory	Street not listed in Source
1998	-	Polk's City Directory	Street not listed in Source
1991	-	Polk's City Directory	Street not listed in Source
1984	-	Polk's City Directory	Street not listed in Source
1977	-	Polk's City Directory	Street not listed in Source
1970	-	Polk's City Directory	Street not listed in Source
1964	-	Polk's City Directory	Street not listed in Source

#### Vandiver Dr.

2012	pg A2	Polk's City Directory	
2005	pg A3	Polk's City Directory	
1998	-	Polk's City Directory	Target and Adjoining not listed in Source
1991	-	Polk's City Directory	Target and Adjoining not listed in Source
1984	-	Polk's City Directory	Target and Adjoining not listed in Source
1977	-	Polk's City Directory	Target and Adjoining not listed in Source
1970	-	Polk's City Directory	Target and Adjoining not listed in Source
1964	-	Polk's City Directory	Target and Adjoining not listed in Source

**FINDINGS**

**CROSS STREETS**

No Cross Streets Identified

## **City Directory Images**

Target Street

✓

Cross Street

-

Source

Polk's City Directory

Lake Ridgeway Rd

2012

**LAKE RIDGEWAY RD (COLUMBIA)**

**• ZIP CODE 65202 CAR-RT C074**

1802 BEDROOM EXPRESSIONS furniture-dirs- retail ...573-474-0651  
BIG SUR WATERBEDS water beds .....573-474-0651  
DENVER MATTRESS mattresses .....573-474-1073  
FURNITURE ROW SHOPPING CTR furniture-dirs- retail  
.....573-474-0128  
OAK EXPRESS furniture-dirs- retail .....573-474-0659

Vandiver Dr.

2012

..... 573-814-2144

• ZIP CODE 65202 CAR-RT C032

2201 A-1 PARTY PERFECT RENTALS party suppl renting

.....573-474-7881

A-1 RENTAL rental serv- stores &amp; yards .....573-474-7368

PARTY PERFECT rental serv- stores &amp; yards .....573-234-6674

.....

• ZIP CODE 65202 CAR-RT C074

2501 UPS CUSTOMER CTR mailing &amp; shipping serv

2510 B &amp; J PEEPERLESS restaurant equip suppl .....573-256-7747

DESIGNER KITCHEN &amp; BATHS kitchen cabinets &amp; equip hshld

.....573-474-2617

2701 PREMIER MOVING &amp; STORAGE CO storage- household &amp;

commercial .....573-474-6158

3200 IMPEX TECHNOLOGIES computer- software developers

.....573-814-3200

NEW DELI CAFE restaurants .....573-474-2200

SPRINT cellular telephones .....573-214-2410

3210 Mann Stephen K "T"

PRO FITNESS exercise &amp; phys fitness prog .....573-446-4348

3220 LONE STAR STEAKHOUSE &amp; SALOON restaurants

.....573-814-1225

3300 HILTON GARDEN INN hotels &amp; motels .....573-814-5464

3310 RUBY TUESDAY restaurants .....573-814-1461

3340 MENARDS home centers .....573-474-1502

**BUSINESSES 132****HOUSEHOLDS 119****VANWOOD WAY (COLUMBIA)**

Vandiver Dr. 2005

2112 BOONE COUNTY MILLWORK doors

.....573-814-1194

+ **PENNSYLVANIA DR ENDS**+ **N OAKLAND GRAVEL RD INTERSECTS**

2201 A-1 RENTAL rental serv- stores &amp; yards

.....573-474-7368

+ **RAILROAD CROSSES**+ **PARIS RD INTERSECTS**+ **SYLVAN LN INTERSECTS**

2501 UPS mailing &amp; shipping serv ..573-474-2257

2510 No Current Listing

• **ZIP CODE 65202 CAR-RT C020**

2701 SHOE-ME SCIENCE CTR nonclassified

establishments .....573-214-0210

+ **NELWOOD DR INTERSECTS****BUSINESSES 128****HOUSEHOLDS 190****VANWOOD WAY (COLUMBIA)**

## **Aerial Photographs**



**City of Columbia - CNG Fueling Station**

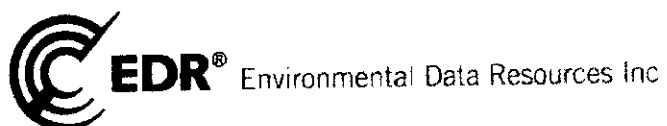
Lake Ridgeway Rd. / Vandiver Dr.

Columbia, MO 65202

Inquiry Number: 3464739.5

November 30, 2012

## **The EDR Aerial Photo Decade Package**



440 Wheelers Farms Road  
Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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**Date EDR Searched Historical Sources:**

Aerial Photography November 30, 2012

**Target Property:**

Lake Ridgeway Rd. / Vandiver Dr.

Columbia, MO 65202

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1945	Aerial Photograph. Scale: 1"=750'	Panel #: 38092-H3, Columbia, MO; Flight Date: February 14, 1945	EDR
1965	Aerial Photograph. Scale: 1"=500'	Panel #: 38092-H3, Columbia, MO; Flight Date: April 19, 1965	EDR
1967	Aerial Photograph. Scale: 1"=500'	Panel #: 38092-H3, Columbia, MO; Flight Date: February 09, 1967	EDR
1974	Aerial Photograph. Scale: 1"=750'	Panel #: 38092-H3, Columbia, MO; Flight Date: March 01, 1974	EDR
1992	Aerial Photograph. Scale: 1"=750'	Panel #: 38092-H3, Columbia, MO; Flight Date: February 26, 1992	EDR
1995	Aerial Photograph. Scale: 1"=500'	Panel #: 38092-H3, Columbia, MO; Composite DOQQ - acquisition dates: April 02, 1995	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 38092-H3, Columbia, MO; Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 38092-H3, Columbia, MO; Flight Year: 2006	EDR
2007	Aerial Photograph. Scale: 1"=500'	Panel #: 38092-H3, Columbia, MO; Flight Year: 2007	EDR



4432

EASTMAN TOPOGRAPHIC SAFETY

INQUIRY #: 3464739.5

YEAR: 1945

| = 750'







INQUIRY #: 3464739.5

YEAR: 1965

| = 500'





INQUIRY #: 3464739.5

YEAR: 1967

| = 500'







INQUIRY #: 3464739.5

YEAR: 1974

| = 750'







INQUIRY #: 3464739.5

YEAR: 1992

| = 750'



Environmental  
Data Systems, Inc.





INQUIRY #: 3464739.5

YEAR: 1995

| = 500'







INQUIRY #: 3464739.5

YEAR: 2005

| = 500'







INQUIRY #: 3464739.5

YEAR: 2006

| = 500'







INQUIRY #: 3464739.5

YEAR: 2007

| = 500'





## Sanborn Map Report

**City of Columbia - CNG Fueling Station**

Lake Ridgeway Rd. / Vandiver Dr.

Columbia, MO 65202

Inquiry Number: 3464739.3

November 28, 2012

**Certified Sanborn® Map Report**

## Certified Sanborn® Map Report

11/28/12

**Site Name:**

City of Columbia - CNG Fueling  
Lake Ridgeway Rd. / Vandiver  
Columbia, MO 65202

**Client Name:**

Midwest Environmental  
2009 E. McCarty Street  
Jefferson City, MO 65109



Environmental Data Resources Inc

EDR Inquiry # 3464739.3

Contact: Kim Pundmann

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Midwest Environmental were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

### Certified Sanborn Results:

**Site Name:** City of Columbia - CNG Fueling Station  
**Address:** Lake Ridgeway Rd. / Vandiver Dr.  
**City, State, Zip:** Columbia, MO 65202  
**Cross Street:**  
**P.O. #** 2510  
**Project:** Phase I ESA  
**Certification #** 722C-48EB-ABA6



Sanborn® Library search results  
Certification # 722C-48EB-ABA6

### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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## Historical Topographic Maps



**City of Columbia - CNG Fueling Station**

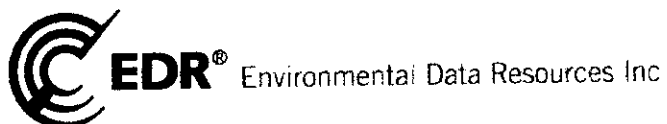
Lake Ridgeway Rd. / Vandiver Dr.

Columbia, MO 65202

Inquiry Number: 3464739.4

November 28, 2012

## **EDR Historical Topographic Map Report**



440 Wheelers Farms Road  
Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

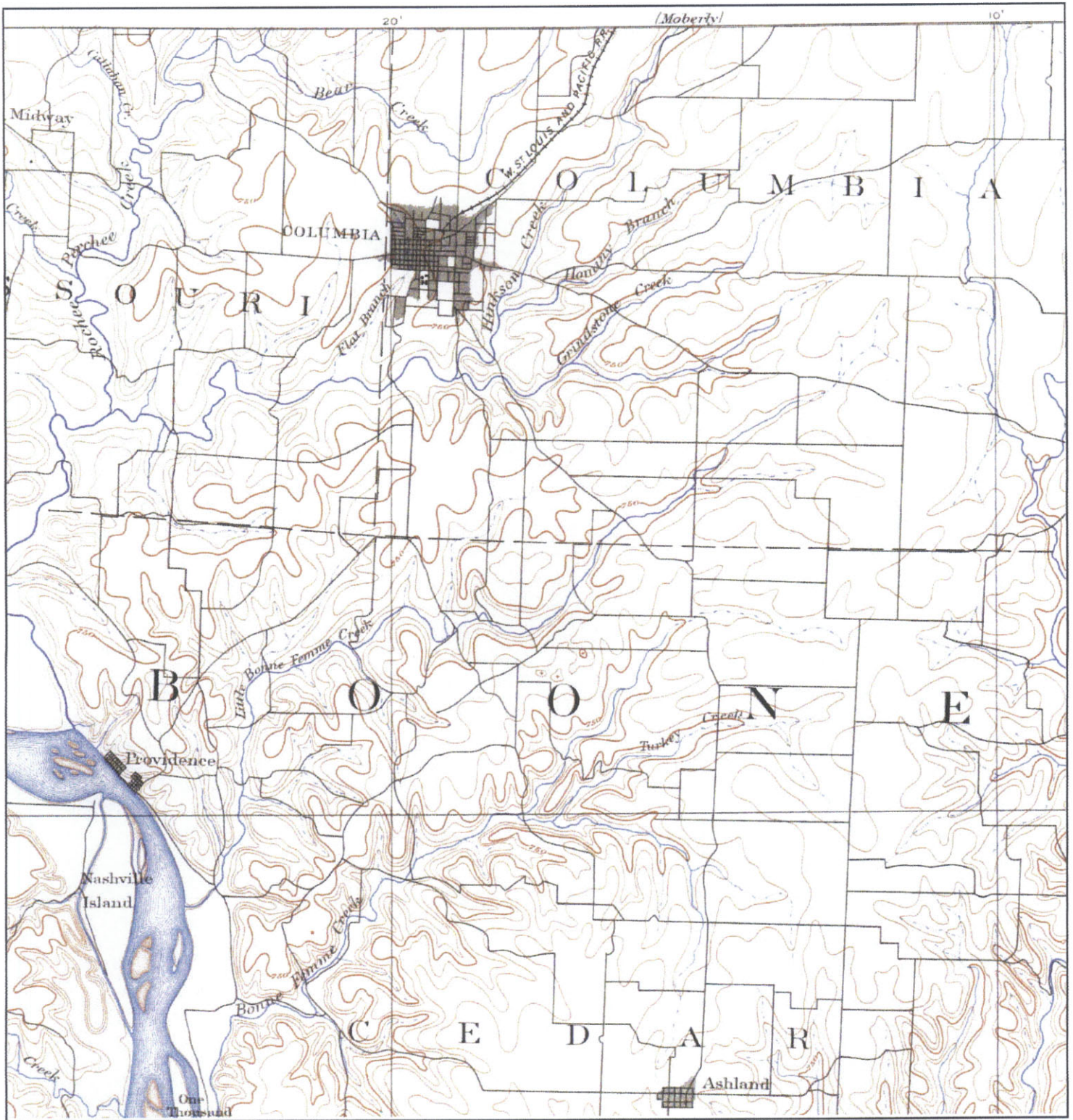
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# Historical Topographic Map



<p>N ↑</p>	<p><b>TARGET QUAD</b>  <b>NAME:</b> JEFFERSON CITY  <b>MAP YEAR:</b> 1894    <b>SERIES:</b> 30  <b>SCALE:</b> 1:125000</p>	<p><b>SITE NAME:</b> City of Columbia - CNG Fueling Station  <b>ADDRESS:</b> Lake Ridgeway Rd. / Vandiver Dr.  Columbia, MO 65202  <b>LAT/LONG:</b> 38.9717 / -92.2938</p>	<p><b>CLIENT:</b> Midwest Environmental  <b>CONTACT:</b> Kim Pundmann  <b>INQUIRY#:</b> 3464739.4  <b>RESEARCH DATE:</b> 11/28/2012</p>
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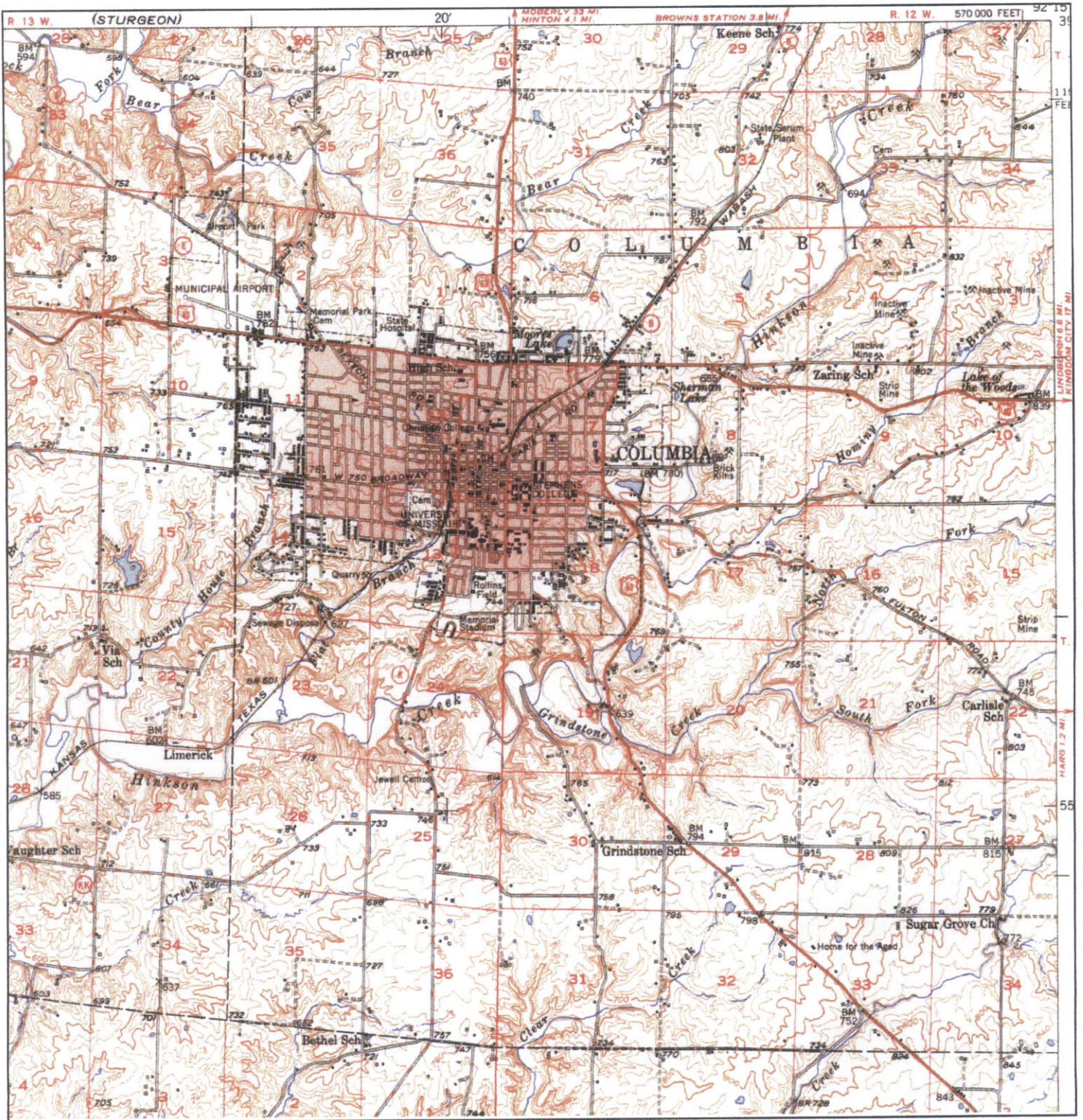
# Historical Topographic Map



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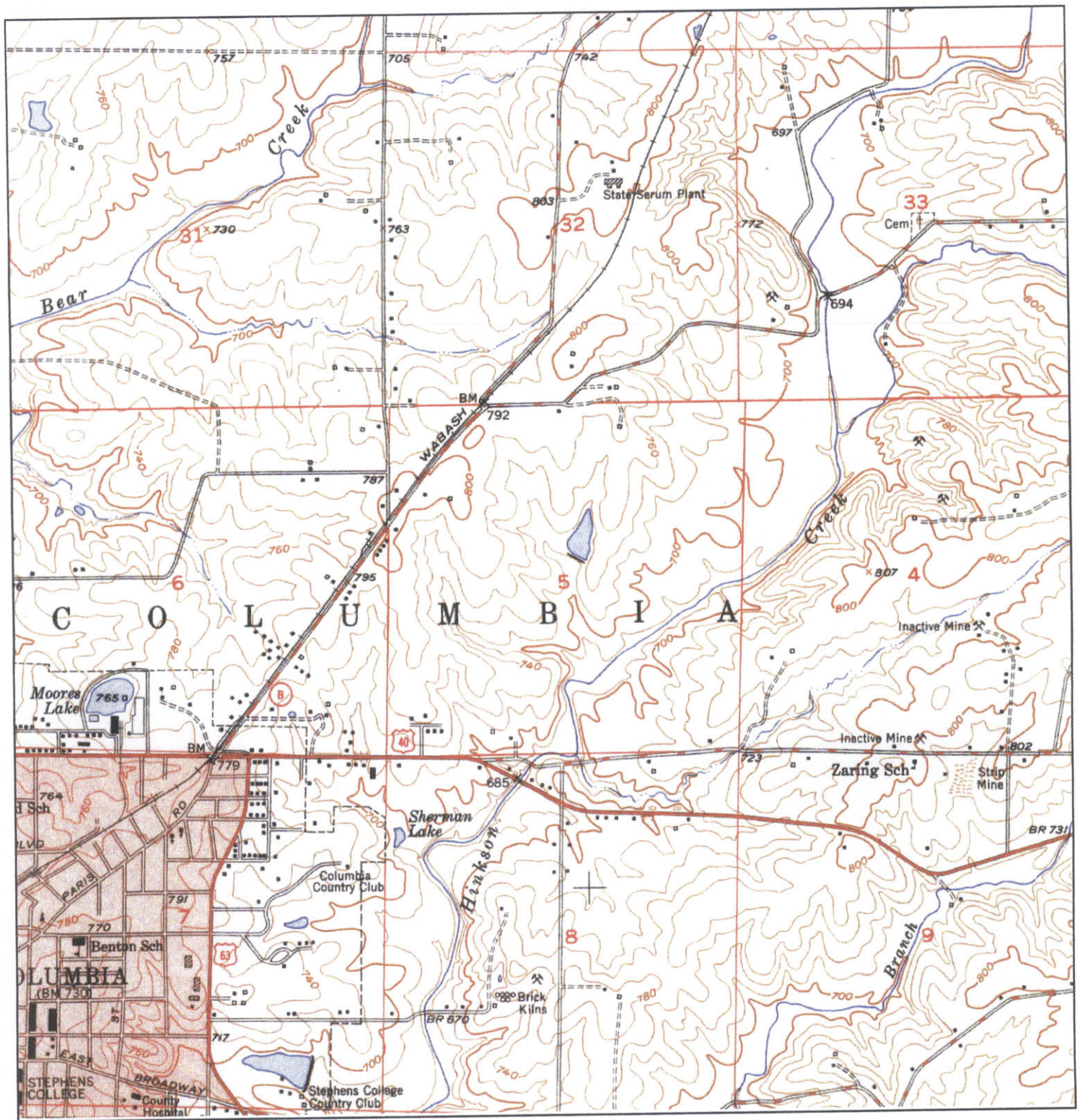
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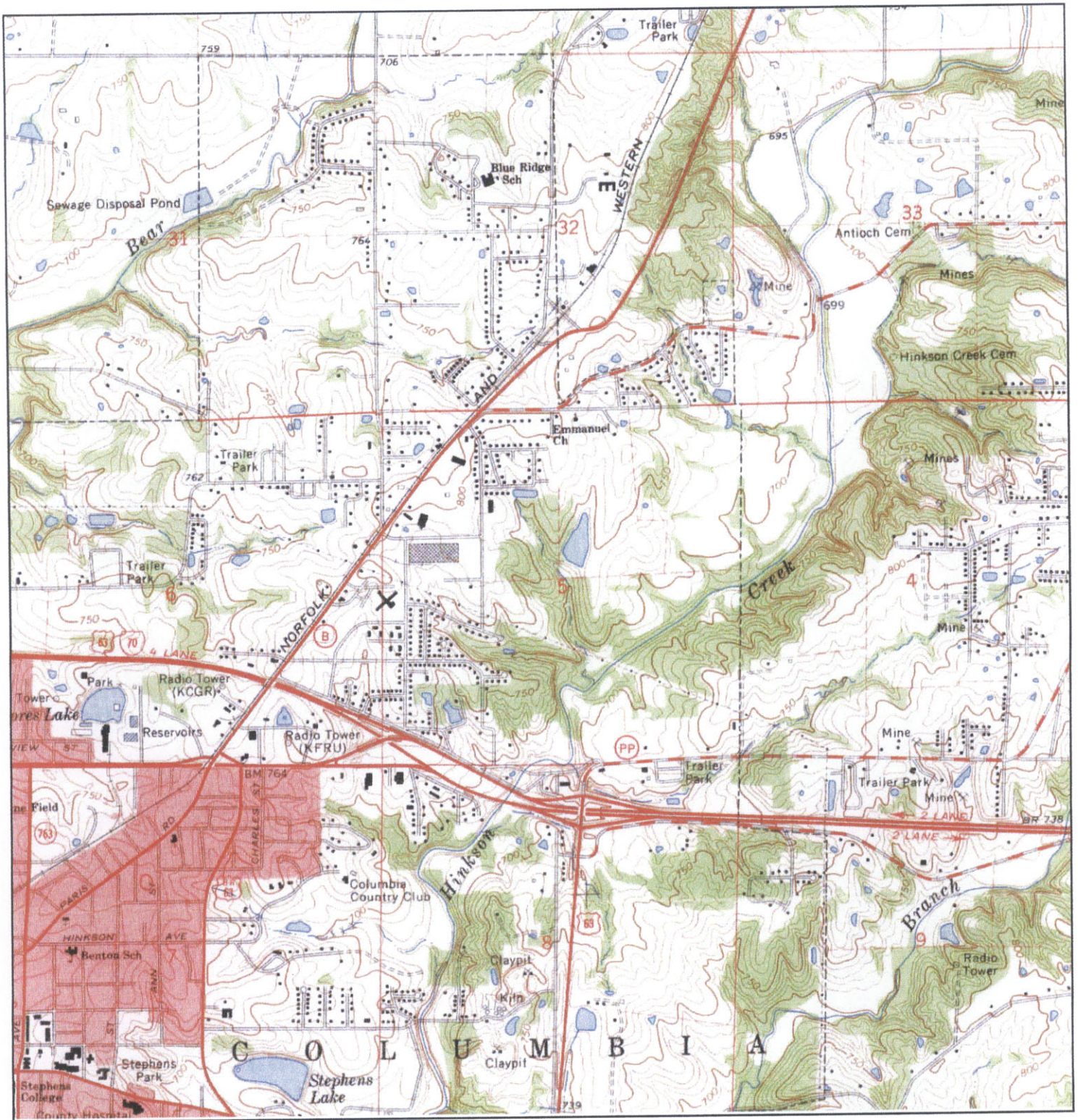
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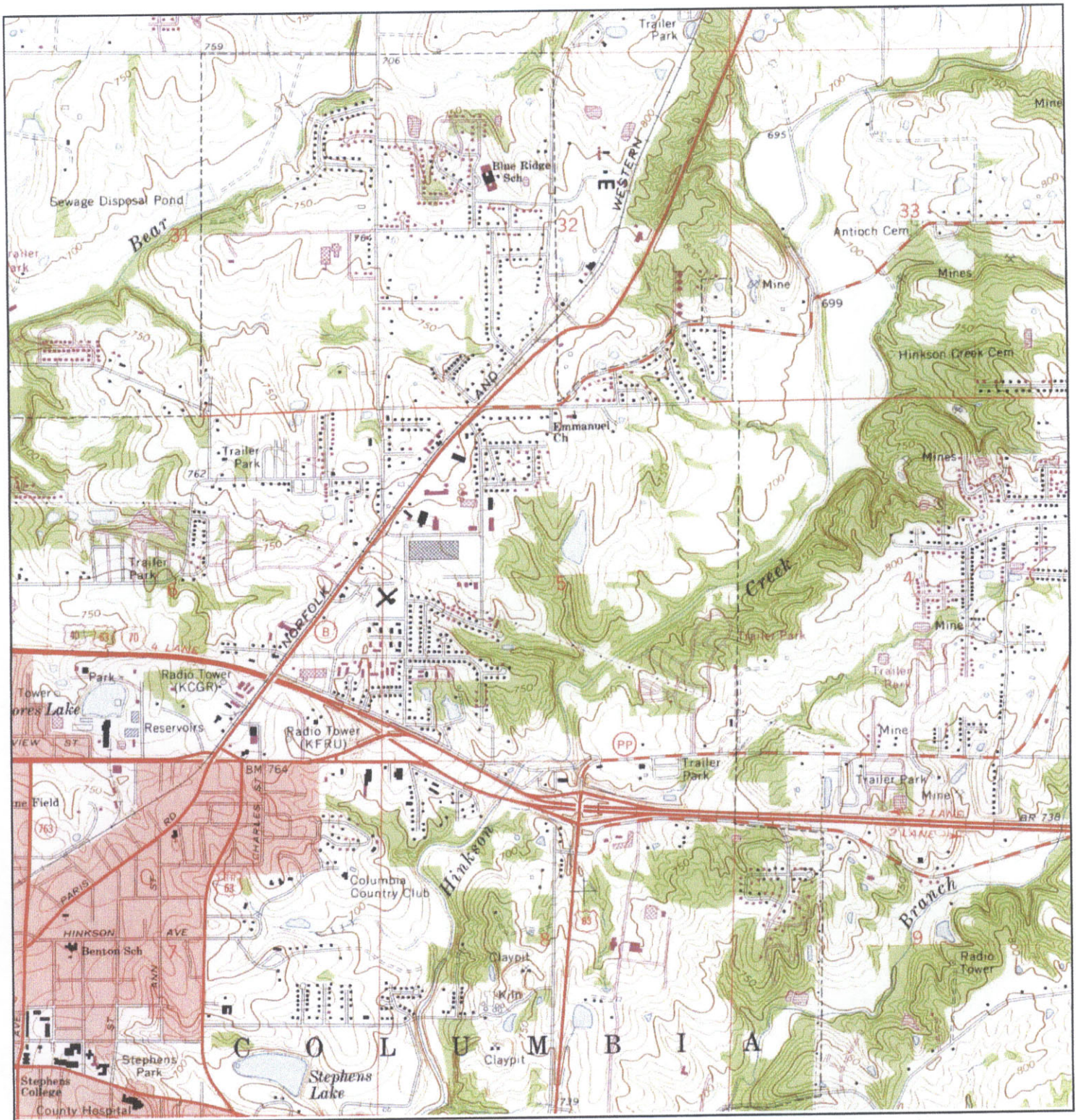
# Historical Topographic Map



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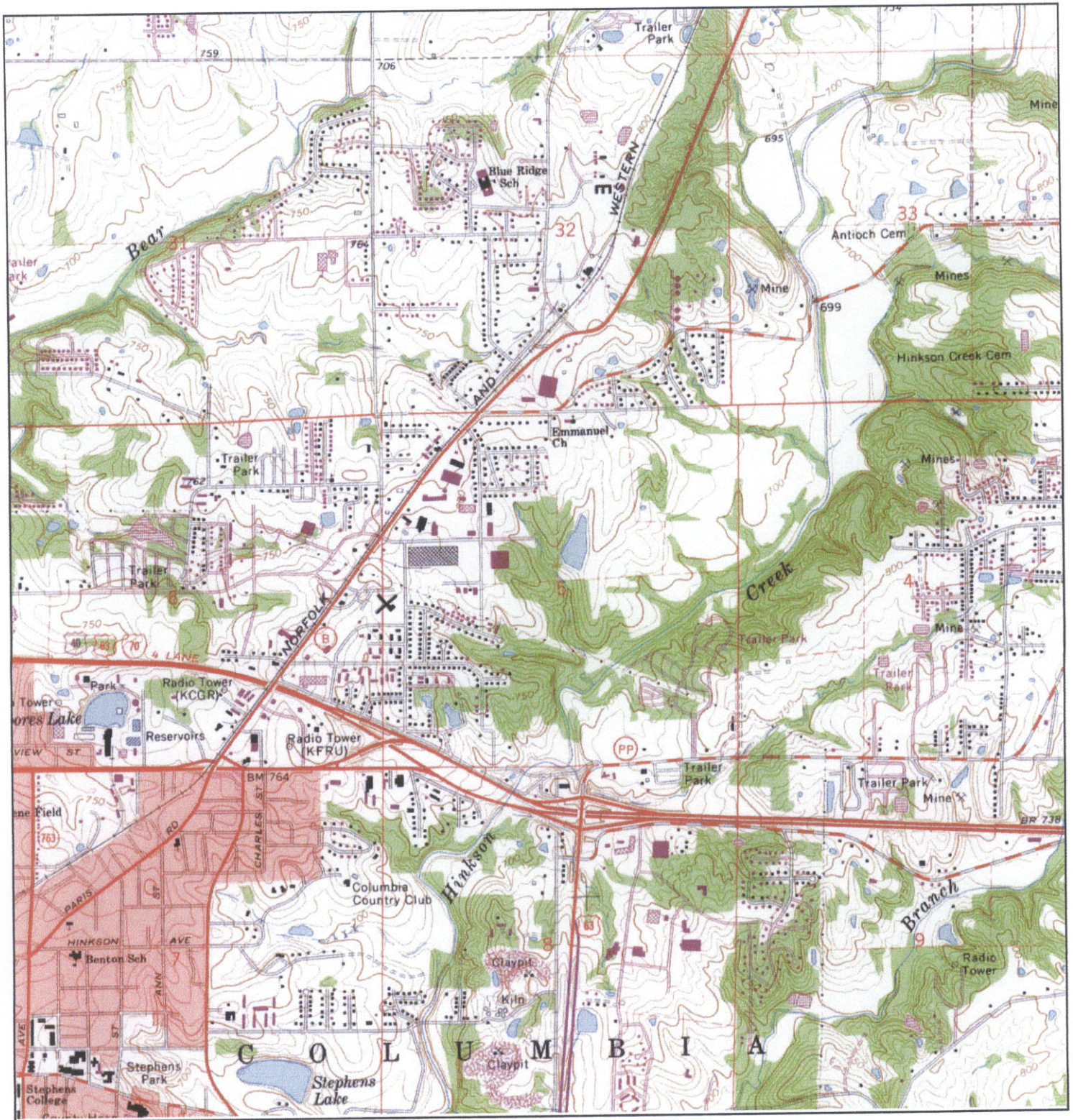
# Historical Topographic Map



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# Historical Topographic Map



<p>N ↑</p> <p>TARGET QUAD NAME: COLUMBIA MAP YEAR: 1981 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000</p>	<p>SITE NAME: City of Columbia - CNG Fueling Station ADDRESS: Lake Ridgeway Rd. / Vandiver Dr. Columbia, MO 65202 LAT/LONG: 38.9717 / -92.2938</p>	<p>CLIENT: Midwest Environmental CONTACT: Kim Pundmann INQUIRY#: 3464739.4 RESEARCH DATE: 11/28/2012</p>
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## **APPENDIX 5**

### **Photographs**



1. View of property



2. View of property interior





3. Southern property boundary



4. Adjacent property to south





5. Western property boundary



6. Adjacent property to west





9. Eastern property boundary



10. Adjacent property to east



## **APPENDIX 6**

### **Qualifications of Environmental Professional Resumes for Kimberly D. Pundmann and David L. Epema**

## Kimberly D. Pundmann

Environmental Scientist

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### Education

B.S. in Agricultural &  
Natural Resource  
Economics Colorado  
State University; 2000

### Certifications

OSHA 40-Hour HAZWOPER

Licensed Missouri Well  
Installer Permit #004421-  
M (restricted)

Asbestos Inspector  
(Missouri No.  
7020042109MOIR13361)

Ms. Pundmann has ten years of experience in a variety of environmental areas, including Phase I and Phase II Environmental Site Assessments; NEPA and environmental planning; underground storage tank closures and corrective action; vapor intrusion evaluation and mitigation; spill prevention containment and countermeasure (SPCC) plan preparation; and storm water pollution prevention plan (SWPPP) preparation.

**Environmental Site Assessments:** Ms. Pundmann has performed over 200 environmental site assessments in accordance with the ASTM – E 1527-05 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. Property types include industrial, municipal, commercial (including service stations), residential, and rural. The assessments are performed on property with respect to the contaminants within the scope of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) and petroleum products. Ms. Pundmann has performed assessments for both the public and private sector. More recently, assessments have been prepared for the following clients: Providence Bank, Boone County National Bank, Robert Rollings Architects, LLC, Plaza Real Estate, Bob McCosh, Atkins Investments, The Kroenke Group, State Fair Community College, and Lincoln University.

Ms. Pundmann has also conducted NEPA Environmental Assessments for clients throughout Missouri. These assessments were conducted in accordance with industry standards to provide sufficient evidence and analysis for a “Finding of No Significant Impact” determination. Ms. Pundmann has performed these assessments for Empire District Electric Company, Northeast Missouri Health Council (for grants issued by Health Resources Services Administration), and Lincoln University (for funds provided by U.S. Department of Agriculture), to name a few.

### Petroleum Storage Tank Management:

Miss Pundmann has site characterization and remediation activities in accordance with Missouri Department of Natural Resources risk based corrective action guidance. Her duties have included technical oversight of subsurface investigations involving the installation of groundwater and soil vapor monitoring wells. She has installed and sampled over 100 soil vapor monitoring wells.

Vapor intrusion (or “encroachment”) is an indoor air quality issue, which occurs when chemicals identified in contaminated soil and/or groundwater are released into the air of overlying buildings. Ms. Pundmann has been MEC’s expert in this growing area of environmental due diligence.

David L. Epema, CET  
Environmental Compliance Coordinator/Senior Environmental Scientist

---

**Education**

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AB Secondary Education,  
Biology Major, Chemistry  
Minor, Dordt College,  
Sioux Center, Iowa, 1979

40-Hour HAZWOPER

**Areas of Expertise**

---

- Project Management
- Environmental Compliance
- Environmental Permitting
- Health and Safety Compliance
- Site Assessment and Cleanup
- Training

**Certifications**

---

Certified Environmental  
Trainer (CET)

**Professional Organizations**

---

National Environmental  
Trainers Association

Missouri Waste Control  
Coalition

Associated Industries of  
Missouri

David Epema has 24 years of experience providing expert services in both the environmental and safety fields. He has served as a project manager for numerous multidisciplinary projects throughout the Midwest. In the course of his career he owned and operated a small business, was employed by leading environmental consulting firms and worked for the Missouri Department of Natural Resources. He is a Certified Environmental Trainer (CET) with special emphasis in the areas of hazardous materials and hazardous waste management. His broad range of project experience includes; health and safety coordinator, compliance audits, environmental site assessments, asbestos building inspection, and EH&S training to meeting EPA, OSHA, and DOT training requirements.

**PROFESSIONAL HISTORY**

- Project Manager for an innovative compliance service to midsize industries across Missouri (e.g., Alcan Cable, EPC - Columbia, Enduro Industries) in which he assists them maintain compliance with environmental and health and safety regulations.
- Performed hundreds of comprehensive environmental compliance audits for general industry, hazardous waste generators, and treatment, storage and disposal facilities.
- Provided expert witness testimony in court cases involving waste handling procedures.
- Project manager overseeing all aspects of the environmental permitting of industrial facilities.
- Health and Safety Coordinator for consulting firms and several midsize industrial clients across Missouri.
- Conducted OSHA compliance audits and provided recommendations for achieving compliance.
- Project manager for the identification and removal of hazardous substances from hundreds of businesses and residences following the Missouri River floods of 1993 and 1995.
- Managed site cleanups including Underground Storage Tank removals and hazardous materials releases.
- Conducted over 150 Phase I and Phase II Environmental Site Assessments throughout the Midwest.
- Delivered numerous presentations before large industry groups such as Associated Industries of Missouri, the Missouri Bar Association, and the Regional Commerce and Growth Association of St. Louis.

## David L. Epema, CET

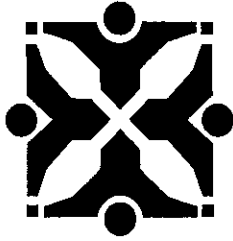
Environmental Compliance Coordinator/Senior Environmental Scientist

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- Provided numerous OSHA training courses including Hazard Communication, Lockout/Tagout, Confined Space, Emergency Response, Hearing Conservation, etc. for various industrial clients.
- Prepared and helped implement stormwater pollution prevention plans at various industrial facilities throughout the Midwest.
- Delivered individualized EPA, OSHA and DOT training programs specially tailored to specific facilities.
- Provided OSHA mandated 24-hour hazardous materials emergency response training (HAZWOPER) and 8-hour annual updates.

Prior to providing consulting services, Dave served as an environmental specialist with the Enforcement Section of the Missouri Department of Natural Resources Waste Management Program for five years. While with the MDNR, his services included the following:

- Provided advanced professional expertise in the administration of Missouri's Hazardous Waste Management Law and the Resource Conservation and Recovery Act (RCRA).
- Assisted the Missouri Attorney General's Office in enforcement of Missouri's hazardous waste laws and regulations.
- Coordinated sampling with MDNR Laboratory Services Program and coordinated inspection and enforcement activities with other federal, state, and local regulatory agencies.
- Conducted numerous hazardous waste compliance evaluation inspections and other field investigations as necessary to support elevated enforcement actions.
- Assisted regional office inspectors, central office staff and the regulated community in all areas of the hazardous waste regulations.
- Developed the enforcement unit's personnel training plan and assisted in training and development of new employees within the unit and regional offices.



Source: Public Works

Agenda Item No:

To: City Council  
From: City Manager and Staff

Council Meeting Date: Sep 3, 2013

Re: License Agreement with Clean Energy for Compressed Natural Gas Vehicle Fueling Station

#### **EXECUTIVE SUMMARY:**

Staff has prepared for Council consideration a resolution authorizing a License Agreement with Clean Energy to design, construct, operate and maintain a compressed natural gas (CNG) fueling station at their expense, on property owned by the City, located at 1900 Lake Ridgeway Drive. The station will be utilized by the City for city-owned vehicles and equipment, as well as third party customers. Per the agreement, the City will be required to purchase a minimum of 15,000 gallons per month; however CNG purchased by third party customers will count toward the 15,000 gallon requirement.

#### **DISCUSSION:**

The City of Columbia has been working with Clean Energy, a California based corporation, to build a CNG fueling station at 1900 Lake Ridgeway Drive, just off Vandiver Drive. The site was selected, approved by City Council in late 2012, and purchased for its proximity to a large natural gas main, and for easy access from major roadways (US 63 and Interstate 70).

The license agreement with Clean Energy stipulates their responsibilities which include the design, construction, operation and maintenance of a CNG station, obtaining all necessary federal, state and local permits, and submission of plans to the department of Public Works for review prior to its formal submission to the City for approval. Additionally, Clean Energy will be responsible for the procurement and compression of natural gas to provide the station with CNG, in order to fuel city vehicles as well as third party user vehicles. Clean Energy will pay for all utility service charges for utility service consumed at the station, and will provide training programs to educate City personnel as to procedures for the safe and efficient use of the station, and provide emergency repair service on a 24-hour, 7-day per week basis.

The City's responsibilities include preparing the site, installation of fencing around the compressor compound to protect the premises and the station, payment of connection or installation fees associated with installing utility service at the station, and fueling its own CNG vehicles. The City will be required to purchase a minimum of 15,000 gallons of CNG per month, for a 15 year period. At the end of the 15 year period, the City will have the option to automatically renew the agreement for one or more additional five year terms, transfer ownership of the station to the city for a fee, or dissolve the agreement and remove the station.

An environmental site assessment has been completed, and city forces have prepared the site for construction of the CNG station.

#### **FISCAL IMPACT:**

Per the agreement, a required 15,000 gallon consumption of CNG must be realized each month; however, staff anticipates consumption of over 200,000 gallons for just the first year, which will result in revenue to the City (refer to the attached Exhibit III for CNG pricing). Additionally, Clean Energy will pay the City \$0.05 per gallon for all CNG sold to third party customers from the station.

Fleet Enterprise revenue funded the purchase of the land as well as other miscellaneous expenses such as consulting engineering fees, environmental site assessment fee, and title and recording fees, for a total of \$309,202. Street Operations provided the labor and equipment for the site preparation.

#### **VISION IMPACT:**

<http://www.gocolumbiamo.com/Council/Meetings/visionimpact.php>

City Services will be efficient, effective and expanded. Use available technology to increase and improve City services offered to the community.

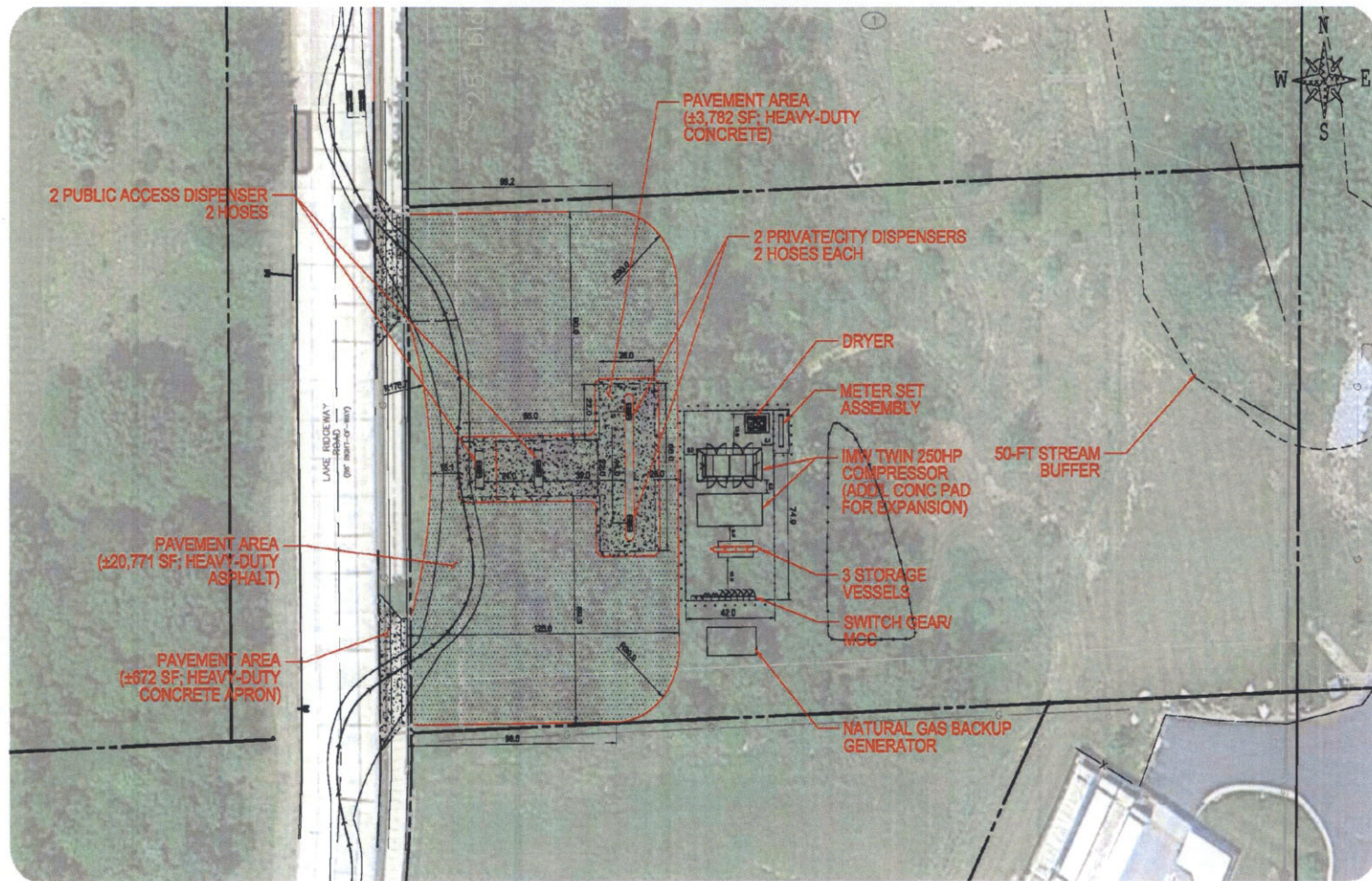
**SUGGESTED COUNCIL ACTIONS:**

Approve the resolution authorizing a License Agreement with Clean Energy for compressed natural gas vehicle fueling station.

FISCAL and VISION NOTES:					
City Fiscal Impact Enter all that apply		Program Impact		Mandates	
City's current net FY cost	\$309,202.00	New Program/ Agency?	Yes	Federal or State mandated?	No
Amount of funds already appropriated	\$350,000.00	Duplicates/Expands an existing program?	No	Vision Implementation impact	
Amount of budget amendment needed	\$0.00	Fiscal Impact on any local political subdivision?	Yes	Enter all that apply: Refer to Web site	
Estimated 2 year net costs:		Resources Required		Vision Impact?	Yes
One Time	\$0.00	Requires add'l FTE Personnel?	No	Primary Vision, Strategy and/or Goal Item #	3.4
Operating/ Ongoing	\$0.00	Requires add'l facilities?	Yes	Secondary Vision, Strategy and/or Goal Item #	3.4.1
		Requires add'l capital equipment?	Yes	Fiscal year implementation Task #	



# Exhibit I The Premises and Station Location



CITY OF COLUMBIA, MO

COMPRESSED NATURAL GAS FUELING FACILITY

CONCEPTUAL GRADING



3320 OLD RANCH PARKWAY, SUITE 400 | BOSTON, MA 02116  
TEL: 978.493.2884 | FAX: 978.493.4332 | www.cleanenergyfuel.com

C:\My Docs\Clean Energy\Projects\Columbia, MO\CP-1 - Columbia MO Site\_base\_rev10-072513.dwg

LAKE RIDGEWAY DRIVE, COLUMBIA, MO

SCALE: NTS

CUSTOMER APPROVAL:

BUSINESS DEVELOPMENT

APPROVAL:

DATE:

REV-10 07/23/13

CP-1

1 of 1

**Exhibit III**  
**CNG Pricing for City's CNG from the Station**

CE will offer the City preferred CNG pricing as set forth herein.

From the Commencement Date through the tenth (10<sup>th</sup>) anniversary of the Commencement Date, the price per GGE for the City's purchases of CNG for City Vehicles from the Station shall be determined by the following formula:

Delivered Cost of Gas ("DCOG") + the Margin Price (as defined below) + all applicable federal, state and local taxes, fees and assessments = City's price per GGE of CNG.

The DCOG will consist of the commodity cost plus all costs incurred to deliver the natural gas to the Station including, but not limited to transportation charges, utility charges, and all associated charges, taxes, and fees, less any commodity cost credits, refunds, or reimbursements and less the cost of any natural gas that is not actually compressed and delivered for fueling to vehicles (e.g. due to CE system inefficiencies or leakages attributable to CE). The DCOG will vary month-to-month depending on natural gas market conditions. To calculate DCOG, CE shall divide the total cost of gas delivered (based on gas utility and gas supplier invoices) for a given month by the number of GGEs delivered. Backup documentation of the calculated DCOG shall be provided with the City's monthly invoice from CE.

The Margin Price will be in accordance with the tiered structure presented below. Each tier will be based upon the Monthly Consumption. The "Monthly Consumption" shall mean the aggregate amount of CNG in GGEs purchased from the Station by the City and Third Party Users in any applicable calendar month during the Term of the Agreement.

The Margin Price will be as follows:

<b>Monthly Consumption (GGE)</b>	<b>Margin Price</b>
<b>Minimum 15,000</b>	<b>\$1.25</b>
<b>15,001 – 35,000</b>	<b>\$1.15</b>
<b>35,001 – 55,000</b>	<b>\$1.05</b>
<b>&gt;55,001</b>	<b>\$0.95</b>

From the tenth (10<sup>th</sup>) anniversary of the Commencement Date until the end of Term and any subsequent renewals, the Margin Price per GGE for the City's purchases of CNG for City Vehicles from the Station shall be reduced by fifty (50) cents subject to any applicable CPI increases as set forth below.

The Margin Price will be subject to annual CPI increases as follows: Beginning January 1, 2015, and on each January 1<sup>st</sup> thereafter during the Term of this Agreement, including any renewals, the Margin Price per GGE of CNG charged by CE and any Royalty Payments set forth in Article 6 of this Agreement shall be increased by the change in the United States Bureau of Labor Statistics Consumer Price Index for All Urban Consumers, Midwest Urban, All Items (1982-84=100) from the Effective Date of this Agreement for the first such adjustment, or the date of the last adjustment for each subsequent adjustment, through the date of the current adjustment.

### **Minimum Commitment**

In the event that the Monthly Consumptions is below 15,000 GGEs (the “Minimum Commitment”) during any month during the Term of this Agreement, including any renewals, City shall be charged the following amount during any such month in addition to the amount payable for its actual GGE purchases:

[The Minimum Commitment – [Monthly Consumption] x the applicable Margin Price per GGE then in effect].

### **Operations, Maintenance and Retail Agreement**

Pursuant to Section 5.2 of the Agreement, in the event that CE and the City have entered into an operations, maintenance and retail agreement of at least five (5) years after the Initial Term, the fees in such agreement shall be subject to the following terms:

(1) Fees Based on Sales to the City – City shall be entitled to a further reduction of 10% off the Margin Price in effect as of the last day of the Initial Term. By way of example, in the event City’s Margin Price was \$0.60 on the last day of the Initial Term, the City shall be entitled to a further discount of 10% off the \$0.60 Margin Price for the initial five (5) year renewal term (subject to any applicable CPI increases as set forth herein).

(2) Fees Based on Sales to Third-Party Users – City and CE shall split net revenues on a 50% - 50% basis after deducting necessary operations and maintenance charges/expenses (including, but not limited to, marketing costs, utility costs, credit card fees/charges, third party billing and collection, applicable taxes, etc.).