



April 26, 2013

Mr. Doug Ferguson  
START On-Scene Coordinator  
U.S. Environmental Protection Agency, Region 7  
11201 Renner Boulevard  
Lenexa, Kansas 66219

**Subject: Removal Site Evaluation and Removal Action Report  
Compass Plaza Well TCE Site, Rogersville, Greene, Webster, and  
Christian Counties, Missouri  
U.S. EPA Region 7 START 3, Contract No. EP-S7-06-01, Task Order No. 0194  
Task Monitor: Doug Ferguson, On-Scene Coordinator**

Dear Mr. Ferguson:

Tetra Tech, Inc. is submitting the attached Removal Site Evaluation and Removal Action Report regarding the Compass Plaza Well TCE Site near Rogersville, Missouri. If you have any questions or comments, please contact me, the project manager, at (816) 412-1784.

Sincerely,

A handwritten signature in black ink, appearing to read 'Adam Watkins'.

Adam Watkins  
START Project Manager

A handwritten signature in blue ink, appearing to read 'Ted Faile'.

Ted Faile, PG, CHMM  
START Program Manager

Enclosures

cc: Roy Crossland, START Project Officer (cover letter only)

**REMOVAL SITE EVALUATION AND REMOVAL ACTION REPORT**  
**COMPASS PLAZA WELL TRICHLOROETHENE SITE, ROGERSVILLE, MISSOURI**

**SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM (START) 3**

**CONTRACT NO. EP-S7-06-01, TASK ORDER NO. 0194**

Prepared For:

U.S. Environmental Protection Agency  
Region 7  
11201 Renner Boulevard  
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April 26, 2013

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## **1.0 INTRODUCTION**

Tetra Tech, Inc. (Tetra Tech) was tasked by the U.S. Environmental Protection Agency (EPA), under the Superfund Technical Assessment and Response Team (START) 3 contract, to conduct a Removal Assessment of the Compass Plaza Well Trichloroethene (TCE) site, in Rogersville, Missouri. The purposes of the investigation were to research the history of TCE use in the area, sample groundwater in domestic wells to help determine the extent of contamination of TCE in local groundwater, and identify and sample potential soil source areas in the Rogersville, Missouri, area. The EPA On-Scene Coordinator (OSC) for the project was Doug Ferguson. The project is ongoing under START Contract No. EP-S7-06-01, Task Order No. 0194.

## **2.0 BACKGROUND INFORMATION**

Section 2.0 provides information on the site location, description, operational history, and previous investigations.

### **2.1 SITE LOCATION AND DESCRIPTION**

The Compass Plaza Well TCE site is in southeastern Greene County, just west of Rogersville, Missouri—approximately 1.75 miles north of the Greene County – Christian County border, and 0.9 mile west of the Greene County – Webster County border (see Figure 1, Appendix A). Groundwater at the site is contaminated primarily with TCE, which has impacted domestic and irrigation wells (EPA 2010a).

The Compass Plaza Well TCE site is a small cluster of wells in Greene County near Compass Plaza, a commercial area on the City of Rogersville’s western edge at 201 South Marshall Street. Following routine public drinking water monitoring in June 2009, TCE was initially detected in the Compass Plaza Strip Mall drinking water well at levels below the EPA Maximum Contaminant Level (MCL) for drinking water. Consequently, sampling was conducted at eight additional wells in the area. Of these, two were found to contain TCE, also at concentrations below MCL: one that supplies the Citizen’s Bank of Rogersville and another that provides irrigation water (EPA 2011b).

The site was referred by the Missouri Department of Natural Resource’s (MDNR) Public Drinking Water Program (PDWP) to MDNR’s Hazardous Waste Program (HWP) in March 2010 for further assessment under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

The site was soon entered into CERCLIS, and an Abbreviated Preliminary Assessment (APA) was completed by MDNR on March 25, 2010 (MDNR 2010). The site was recommended for further



assessment to identify the source of the TCE and to further evaluate exposure. On April 1, 2010, MDNR initiated a site inspection (SI)/removal site evaluation (RSE) that included multiple sampling events. By mid-June 2010, MDNR had sampled 121 wells, some of which were found to contain concentrations exceeding the EPA MCL for TCE. On August 10, 2010, EPA initiated another RSE and a removal action (RA) that is ongoing (EPA 2011a).

## **2.2 REGIONAL AND LOCAL GEOLOGY**

The site lies on the eastern border of the Springfield Plateau of the Ozark Plateau sub-province of the Interior Highlands physiographic province in Missouri. This area is characterized by rolling upland hills with low relief. Based on topographic maps, 161 sinkholes lie within 4 miles of the site. There are also 14 springs within 4 miles of the site. Based on this information and the limestone bedrock that underlies the site and comprises the uppermost aquifer, the site lies within a karst area (MDNR 2010).

The Springfield Plateau Aquifer covers approximately 8,900 square miles, and consists of the Burlington-Keokuk Limestone, Elsey-Reeds Spring Formation, and Pierson Limestone. These units together range in total thickness from 120 to 130 feet and are cherty, coarse-grained, fossiliferous limestones with high permeability (MDNR 2010).

The Springfield Plateau Aquifer lies above the Ozark Confining Unit, which is made up of the Chouteau Group. The Chouteau Group is formed by the Compton Limestone and Northview Formation. It ranges in thickness from 27 to 30 feet, and is clayey limestone and shale with moderately low permeability. The Springfield Plateau Aquifer and Ozark Confining Unit are of the Mississippian System (MDNR 2010).

The Ozark Aquifer lies below the Ozark Confining Unit. The Ozark Aquifer is made up of the Cotter and Jefferson City Dolomites, Roubidoux Formation, and Gasconade Dolomite (all of the Ordovician System), and Eminence and Potosi Dolomites of the Cambrian System. The Ozark Aquifer has a thickness of approximately 1,600 feet and is made up of dolomite, cherty dolomite, sandstone, argillaceous dolomite, and minor shales with moderate permeability (MDNR 2010).

The St. Francois Confining Unit underlies the Ozark Aquifer. The St. Francois Confining Unit is composed of the Derby-Doe Run Dolomites with a thickness of approximately 90 feet. It is formed of medium-crystalline dolomites with beds of silt, shale, and sand with low permeability (MDNR 2010).

Dye tests by EPA in summer 2010 revealed groundwater flow in all directions from the site implying that local groundwater flow, recharged with rainwater through karstic bedrock formations, likely follows topography over the surface of bedrock before recharging into the upper bedrock aquifer (also known as

the Springfield Plateau Aquifer). The subject property is on a local topographic high. Karstic features within the area (161 sinkholes within a 4-mile radius) likely transport local groundwater to the Springfield Plateau Aquifer; in turn, this groundwater may be transported to the underlying Ozark Aquifer by local fault lines, permeation through the Ozark Confining Unit, or through open well boreholes and improperly constructed private wells connecting the two aquifers (EPA 2010a).

## **2.3 PREVIOUS INVESTIGATIONS**

In March 2010, MDNR HWP conducted an APA after having been notified by MDNR PDWP of the June 2009 detection of TCE in two non-community wells and one irrigation well. This was followed in 2011 by an SI/RSE. During the SI/RSE, 121 residential wells were sampled and analyzed for volatile organic compounds (VOC); 13 of the wells contained detectable amounts of TCE. Five of the 13 wells containing TCE were detected at concentrations exceeding the EPA MCL of 5 micrograms per liter (µg/L) (EPA 2011b).

In July 2011, data acquired for the site were subsequently used by EPA to develop the Hazard Ranking System (HRS) Documentation Record to address impacts of site-related contamination on human health and the environment. This information became the basis for listing the site on EPA's National Priorities List (NPL) (EPA 2011a).

## **3.0 REMOVAL SITE EVALUATION**

As tasked by EPA, START collected soil and groundwater samples during the EPA RSE to further define the extent of TCE contamination in surficial and subsurface soils and groundwater at the site. The RSE groundwater sampling occurred from August 2010 through February 2011. The RSE soil sampling occurred from May 9 through 13, 2011. In all, soil from 13 locations and groundwater from 196 properties were sampled during the RSE. Analytical results from these samples are summarized in Section 5.0. A description of the soil and groundwater sampling follows.

### **3.1 SOIL SAMPLING SUMMARY**

During the EPA RSE, 30 soil samples were collected at various depths from 13 soil boring locations using direct-push technology (DPT) (see Figure 2, Appendix A). Soil samples were collected from (1) sinkholes upgradient of the identified groundwater contamination, a former dry cleaner facility where tetrachloroethene (PCE) had been found during a 2010 MDNR PA/SI; (2) a drainage feature near the residence with the highest groundwater TCE contamination; and (3) an irrigation field sprayed with waste product from Former Positronics, Inc.

Soil samples were collected for VOCs analysis in 40-milliter (mL) vials preserved with sodium bisulfate, via EPA SW-846 Method 5035. All samples were stored in coolers at temperatures at or below 4°C until submitted to the EPA Region 7 Laboratory.

### **3.2 GROUNDWATER SAMPLING SUMMARY**

During the EPA RSE, groundwater samples were collected at residential properties from taps or spigots nearest the wellheads (before connections to home treatment systems, whenever possible) for analysis for VOCs. During the subsequent RA, START collected additional groundwater samples from private wells for analysis for VOCs. Locations of residential groundwater wells sampled during the RSE and RA are illustrated on Figure 3 in Appendix A. Prior to sampling, the supply lines were purged for at least 5 minutes until all water quality parameters (temperature, specific conductivity, pH, oxygen-reduction potential [ORP]) had stabilized. For each sample, the property owner information (name, address, telephone number) and sampling location was recorded. In some instances, number and ages of persons using the well, well depth, casing interval, and presence and type of treatment system also were recorded (see Appendix D). Water samples were collected in three 40- mL volatile organic analysis (VOA) vials and preserved with hydrochloric acid (HCl) to a pH less than 2. All samples were maintained at or below a temperature of 4°C before submittal to the Test America laboratory or Region 7 laboratory for analysis.

## **4.0 REMOVAL ACTION**

Based on information obtained during the MDNR site assessments, it was determined that an RA was warranted at the Compass Plaza Well TCE site to address VOCs (primarily TCE) contamination in groundwater. The most immediate health threat was determined to be contaminated groundwater that supplied private drinking water wells. During the subsequent EPA RSE, EPA conducted searches of industrial properties near the site that may have used TCE. EPA also conducted soil sampling at various facilities and sinkholes that may have been contributing to groundwater contamination. To date, the searches and soil sampling have not identified any potentially responsible parties (PRP) to which release of the site contaminants can be attributed.

In August 2010, EPA began to offer activated carbon filtration (ACF) systems to residents with private water wells that contained TCE above the EPA MCL of 5 µg/L. START continued collecting groundwater samples during the RA to further identify TCE contamination in wells within the 4-mile Target Distance Limit (TDL) of the assumed site center. Currently, soils at 13 locations and groundwater at 440 properties have been sampled as part of the RSE/RA. All five properties where groundwater samples exceeded the MCL for TCE were considered eligible to receive ACF systems. EPA is providing

replacement filters for the ACF systems for up to 2 years after the original ACF installation date. Analytical results from samples are discussed in Section 5.0.

## **5.0 ANALYTICAL DATA SUMMARY**

Section 5.0 summarizes the analytical data from the soil and groundwater samples collected during the EPA RSE and RA.

### **Removal Site Evaluation**

During the RSE, START collected groundwater samples from 440 properties for analysis for VOCs. Of those samples, four contained TCE at concentrations above the MCL of 5.0 µg/L. Concentrations of TCE in these 4 samples of groundwater ranged from 5.4 to 180 µg/L. In samples where TCE was detected, typically *cis*-1,2-dichloroethene also was detected.

### **Removal Action**

During the RA, START collected additional groundwater samples from private wells for analysis for VOCs. No additional wells were identified with TCE above the MCL of 5.0 µg/L.

Samples are summarized by sampling events below:

#### **August 2010 Groundwater Sampling Event (Analytical Services Request [ASR] 5049)**

EPA tasked START in August 2010 to sample private wells where TCE had previously been detected during sampling in summer 2010 by MDNR. Between August 16 and 25, 2010, START collected samples at 14 residences. Environmental Restoration (ER) installed ACF systems at the five households where previous detections of TCE above the EPA MCL of 5 µg/L had occurred. The ACF system, in theory, should filter VOCs from drinking water. Pre- and post-treatment samples were collected at the five residences with ACF systems. One household, location ID CP-013, has one ACF (installed by home owner) within the main residence, as well as an additional ACF (installed by ER) in the guest house. Post-treatment samples were collected at both the main house and guest house.

Fourteen VOC analytes were detected in the groundwater samples—eight at concentrations exceeding either the EPA MCL or EPA tapwater regional screening level (RSL). Bromodichloromethane, carbon tetrachloride, dibromochloromethane, 1,1,1,2-tetrachloroethane, PCE, and 1,1,2-trichloroethane were each detected in one sample above their respective EPA tapwater RSLs. Additionally, chloroform and TCE were detected in more than one sample above their respective EPA tapwater RSLs. Carbon

tetrachloride was also detected in one sample (5049-7) at a concentration of 10 µg/L, exceeding its MCL of 5 µg/L. TCE was detected in 12 samples, although only four samples contained TCE above the MCL of 5 µg/L (5049-1, -9, -11, and -18).

In the six post-treatment samples collected after the ACF system, only one sample contained VOCs. Sample 5049-12 (post-treatment sample) contained acetone and 2-butanone, although neither at concentrations exceeding the EPA MCL or tapwater RSL. Presence of these analytes is assumed due to polyvinyl chloride (PVC) joint compound used to fuse PVC fittings after the ACF system. Analytical results for ASR 5049 are summarized in Table 1 of Appendix B.

#### **October 5-7, 2010, Groundwater Sampling Event (TestAmerica)**

EPA tasked START in October 2010 to sample additional private wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Fifty-one residences were sampled during this event for VOCs. None of the locations sampled had previously been sampled by START; nor did any of the locations have ACF systems installed.

Seven VOC analytes were detected in the groundwater samples. Three of those analytes (bromodichloromethane, chlorodibromomethane, and chloroform) were detected at concentrations exceeding their respective EPA tapwater RSLs, although not their EPA MCLs. Bromodichloromethane was detected in one sample (GW-23) at an estimated concentration of 0.77 µg/L, above the tapwater RSL of 0.12 µg/L, but below the MCL of 80 µg/L. Chlorodibromomethane was also detected in GW-23 at an estimated concentration of 0.33 µg/L, above the tapwater RSL of 0.15 µg/L, but below the MCL of 80 µg/L. Chloroform was detected in three samples, although only two (GW-23 and GW-27) contained the analyte above its tapwater RSL of 0.19 µg/L, but below the MCL of 80 µg/L. TCE was not detected in any of the 51 samples. Table 2 of Appendix B summarizes analytical results from the sampling event of October 5-7, 2010.

#### **December 13-16, 2010, Groundwater Sampling Event (TestAmerica)**

EPA tasked START in December 2010 to sample additional private wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Sixty-two samples were collected from 56 wells during the sampling event. Twenty-six of the 62 samples were at locations not previously sampled by START. Pre- and post-treatment samples were collected at the five properties (five pre-treatment samples and six

post-treatment samples) where ACF systems had been installed in August 2010. Twenty-five residences were re-sampled to assess for presence of methylene chloride and chloromethane, both of which had been present in several samples during the October sampling event, presumably as a result of laboratory contamination.

Six VOCs analytes were detected in the groundwater samples; of those, two exceeded their respective EPA tapwater RSLs, and one exceeded its EPA MCL. Chloroform was detected in two samples (GW-11 and GW-16) at concentrations exceeding the tapwater RSL of 0.19 µg/L, but below the MCL of 80 µg/L. TCE was detected in 12 samples. Five of those samples contained TCE above the tapwater RSL of 0.44 µg/L, and three of those samples contained TCE above the MCL of 5.0 µg/L. All detections of TCE during the December sampling event were at wells where the presence of TCE had already been established during previous sampling events. No new TCE detections were found during the December 13-16 sampling event. Table 3 of Appendix B summarizes analytical results from the sampling event of December 13-17, 2010.

#### **December 29, 2010, Groundwater Sampling Event (Test America)**

EPA tasked START in December 2010 to collect a pre-treatment sample and a post-treatment sample from a well EPA had drilled at a residence where elevated levels of TCE had been detected during several sampling events in an older well (Location ID CP-010). The old well had been capped, and a new well had been drilled by EPA contractors approximately 75 feet north of the old well in order to close a potential contaminant migration pathway and provide clean water to the residents at CP-010.

Eight VOC analytes were detected in the pre-treatment sample (GW-51). Of the eight VOCs detected in GW-51, only three were detected above a health-based benchmark. Bromodichloromethane, chlorodibromomethane, and chloroform were detected at concentrations exceeding their respective tapwater RSLs, although not above the MCLs for those analytes. No VOC analytes were detected in the post-treatment sample (GW-52). The compounds detected in the pre-treatment sample likely had derived from construction adhesives and other products used during well construction and development; these compounds were not detected in the post-treatment sample. Table 4 of Appendix B summarizes analytical results from the sampling event on December 29, 2010.

### **February 2011 Groundwater Sampling Event (ASR 5255)**

EPA tasked START in February 2011 to sample additional private wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Thirty-two samples were collected from 30 wells. One of the locations sampled had previously been sampled by START, although ACF systems had not been installed at any of these locations.

Three VOC analytes were detected in the groundwater samples. One of the samples (5255-18) contained chloroform at a concentration of 0.57 µg/L, above the EPA tapwater RSL of 0.19 µg/L, but below the MCL of 80 µg/L. *Cis*-1,2-dichloroethene and TCE were detected in sample 5255-7, although both were below both the tapwater RSLs and MCLs for those analytes. Although these compounds both had been detected previously at sample location CP-012, the concentrations had decreased from the original detections on August 17, 2010. Table 5 of Appendix B summarizes analytical results from the sampling event of February 2011.

### **March 2011 Groundwater Sampling Event (ASR 5295)**

EPA tasked START in March 2011 to collect pre- and post-treatment samples at wells with ACF systems installed because of the presence of TCE in groundwater above the MCL. Eight samples were collected at four wells. An ACF system had been installed for each of the sampled wells due to presence of TCE identified above 5 µg/L during a previous sampling event. Because a new well had been drilled at location CP-010 in December 2010, presence of TCE was not expected in the pre-treatment sample—as was indicated by the sample results.

Four VOC analytes were detected in the groundwater samples. Two of the VOCs were detected above health-based benchmarks. Chloroform was detected in two samples above the tapwater RSL. TCE was detected in three samples above the tapwater RSL and in two of those samples above the MCL. In wells where TCE was detected in the pre-treatment samples, TCE was non-detect in the post-treatment samples. Table 6 of Appendix B summarizes analytical results from the sampling event of March 2011.

### **May 2011 Soil Sampling Event (ASR 5367)**

EPA tasked START in May 2011 to sample various soil locations including sinkholes and former industrial use areas suspected of contributing to groundwater contamination. Seven soil borings were advanced at sinkholes to collect a total of 18 samples for VOC analysis. Two soil borings were advanced between a suspect septic tank and the affected well to collect four samples. Two soil borings were

advanced downgradient of a suspect former dry cleaners to collect four samples. Two soil borings were advanced downgradient of a dump area near the well with the highest concentration of TCE. One of these borings was advanced adjacent to a sinkhole, and a total of four samples were collected. The other boring was advanced adjacent to and north of the Jamestown Retention Pond, and two soil samples were collected from this boring.

Four VOC analytes were detected in the soil samples. Acetone was detected in nearly every soil sample, at concentrations well below the EPA residential RSL, and was likely present due to laboratory-introduced contamination. The VOC 2-butanone (methyl ethyl ketone) was detected in nine soil samples at concentrations well below the EPA residential RSL for that analyte. Methyl acetate was also detected in three soil samples, all at concentrations well below the EPA residential RSL. PCE was detected in one sample near the former dry cleaning operation, although at a concentration one order of magnitude lower than the EPA residential RSL for soils. Table 7 of Appendix B summarizes analytical results from the soil sampling event of May 2011.

#### **May 2011 Groundwater Sampling Event (ASR 5367)**

EPA tasked START in May 2011 to sample additional private wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Forty-two samples were collected from 34 wells, three groundwater springs, one sinkhole groundwater, and two surface water locations. At two sampling locations, both a post- and pre-treatment sample were collected. These two locations had previously been sampled by START due to the presence of TCE in drinking water, and ACF systems had been installed at both locations.

Three VOC analytes were detected in the groundwater samples. *Cis*-1,2-dichloroethene and TCE were detected in the pre-treatment samples (5367-111 and 5367-131), although concentrations of TCE in both samples were below the MCL of 5.0 µg/L. Acetone was detected in the pre-treatment sample (5367-130), although at a concentration well below the EPA tapwater RSL of 22,000 µg/L. Table 8 of Appendix B summarizes analytical results from the groundwater sampling event of May 2011.

#### **July 2011 Groundwater Sampling Event (ASR 5399)**

EPA tasked START in July 2011 to sample additional private wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Fifty-four samples were collected from 49 properties. Both a pre-treatment sample and a post-treatment sample were collected at two sampling locations. These two locations had



previously been sampled by START due to the presence of TCE in drinking water, and ACF systems had been installed at both locations.

Three VOC analytes were detected in the groundwater samples. TCE was detected in three samples (5399-028, 5399-032 and 5399-036). All three samples had concentrations above the EPA tapwater RSL of 0.44 µg/L, but only sample 5399-032 was above the EPA MCL of 5.0 µg/L. Additionally, five samples had detections of *cis*-1,2-dichloroethene well below the EPA tapwater RSL. Chloroform was detected in four samples—all detections exceeding the EPA tapwater RSL of 0.19 µg/L, although all were well below the EPA MCL of 80 µg/L. Table 9 of Appendix B summarizes analytical results from the sampling event of July 2011.

#### **September 2011 Groundwater Sampling Event (ASR 5514)**

EPA tasked START in September 2011 to sample additional private wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Nineteen samples were collected from 16 wells and one groundwater spring. Both a pre-treatment sample and a post-treatment sample were collected at two locations previously sampled by START due to the presence of TCE in drinking water; ACF systems had been installed at both locations.

Two VOC analytes were detected in the groundwater samples. Carbon disulfide was detected in one sample (5514-018), although at a concentration well below the EPA tapwater RSL of 720 µg/L. Acetone was detected in six samples, but at concentrations well below the EPA tapwater RSL of 12,000 µg/L. Table 10 of Appendix B summarizes analytical results from the sampling event of September 2011.

#### **November 2011 Groundwater Sampling Event (ASR 5591)**

EPA tasked START in November 2011 to sample additional private wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Forty-four samples were collected.

Only one VOC analyte, chloroform, was detected—in two samples (5591-21 and 5591-31) at concentrations well below the EPA MCL of 80 µg/L. Table 11 of Appendix B summarizes analytical results from the sampling event of November 2011.

### **January 2012 Groundwater Sampling Event (ASR 5627)**

EPA tasked START in January 2012 to sample additional private wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Forty-two samples were collected from 34 wells, three groundwater springs, one sinkhole groundwater, and two surface water locations. Both a pre-treatment sample and a post-treatment sample were collected at two locations previously sampled by START due to the presence of TCE in drinking water; ACF systems had been installed at both locations.

No VOC analytes were detected in any of the groundwater samples.

### **February 2012 Groundwater Sampling Event (ASR 5669)**

EPA tasked START in November 2011 to sample additional wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Seventy-five samples were collected.

Five VOC analytes were detected in the groundwater samples. TCE was detected in six samples at concentrations above the EPA tapwater RSL of 0.44 µg/L, but below the EPA MCL of 5.0 µg/L. *Cis*-1,2-dichloroethene was also detected in five samples at concentrations below the EPA tapwater RSL of 28 µg/L. Toluene, 2-hexanone, and methylene chloride were also detected in a few groundwater samples—all at concentrations well below any EPA action levels. Table 12 of Appendix B summarizes analytical results from the sampling event of February 2012.

### **May 2012 Groundwater Sampling Event (ASR 5743)**

EPA tasked START in May 2012 to sample additional private wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. 72 samples were collected.

Two VOCs analytes were detected in the groundwater samples. Chloroform was detected in sample 5743-020 at 1.4 µg/L—above the EPA tapwater RSL of 0.19 µg/L, but below the MCL of 80 µg/L. Carbon disulfide was detected in sample 5743-049 at a concentration well below the EPA tapwater RSL of 1,000 µg/L. Table 13 of Appendix B summarizes analytical results from the sampling event of May 2012.

### **August 2012 Groundwater Sampling Event (ASR 5828)**

EPA tasked START in August 2012 to sample additional private wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Forty-seven samples were collected from 37 properties.

Six VOC analytes were detected in the groundwater samples. TCE was detected in six samples at concentrations above the EPA tapwater RSL 0.44 µg/L, although only two samples (5828-007 and 5828-009) had concentrations above the EPA MCL. Additionally, five of the samples with detections of TCE also were found to contain *cis*-1,2-dichloroethene. All concentrations of *cis*-1,2-dichloroethene were well below the EPA tapwater RSL of 28.0 µg/L. Finally, sample 5828-033 contained toluene, 2-butanone, chloroform, and acetone. However, only chloroform exceeded its EPA tapwater RSL (0.19 µg/L). Table 14 of Appendix B summarizes analytical results from the sampling event of August 2012.

### **November 2012 Groundwater Sampling Event (ASR 5942)**

EPA tasked START in November 2012 to sample additional wells within the 4-mile TDL of the assumed center of the site, primarily downgradient (south and west) of potential source areas near the center of Rogersville. Forty-one samples were collected from 39 properties.

Three VOC analytes were detected in the groundwater samples. Chloroform was detected in one sample (5942-016) at 0.75 µg/L—above the tapwater RSL of 0.19 µg/L but below the MCL of 80 µg/L. TCE was detected in five samples (5942-016, -020, -022, -031, -034) at concentrations below the EPA MCL of 5.0 µg/L. *Cis*-1,2-dichloroethene was also detected in 5942-031 and 5942-034, but results were well below the MCL of 70 µg/L. Table 15 of Appendix B summarizes analytical results from the sampling event of November 2012.

## **6.0 DEVIATIONS FROM THE QUALITY ASSURANCE PROJECT PLAN**

Sampling for the project was conducted according to protocols approved by EPA Region 7 for work at hazardous waste sites as specified in a site-specific quality assurance project plan (QAPP), to ensure credibility of the analytical data. The QAPP was submitted to EPA on August 13, 2010, with an addendum submitted February 24, 2011. Samples were collected, prepared, and analyzed in accordance with the QAPP, except that additional groundwater samples were collected from residences within a 4-mile radius of the site.

## **7.0 SUMMARY AND CONCLUSIONS**

As of the date of this report, 459 properties had been identified within a 4-mile radius of the assumed center of the site. START collected groundwater samples at 440 of those properties. The other 19 property owners denied access to sample.

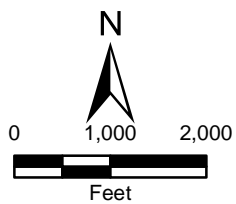
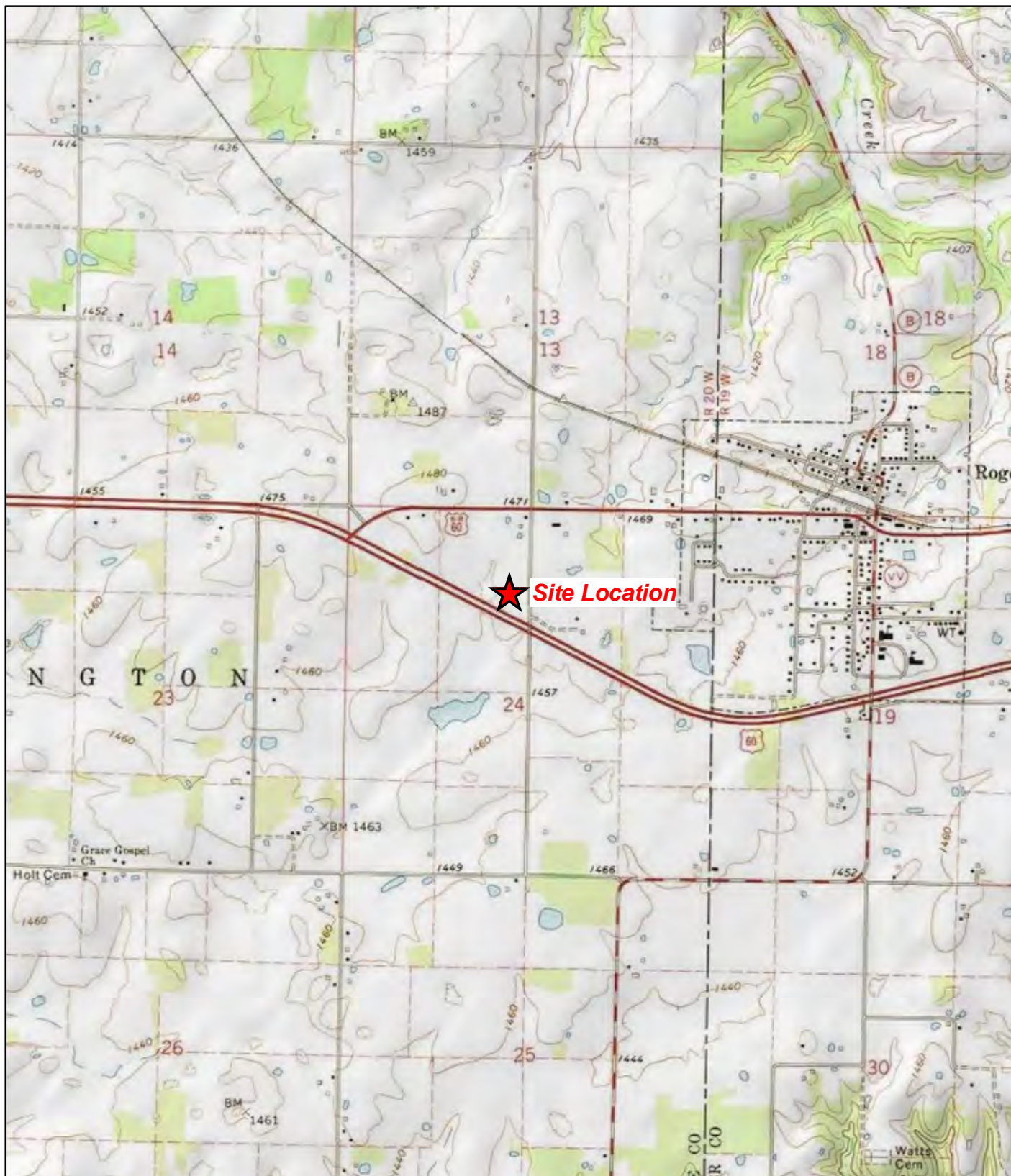
During investigations at this site, START collected groundwater samples for analysis for VOCs. TCE was detected at four locations at concentrations above the MCL of 5 µg/L.

## **8.0 REFERENCES**

- Missouri Department of Natural Resources [MDNR]. 2010. Springfield Plateau Groundwater Province. Accessed August 10. On-line Address:  
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## **APPENDIX A**

### **FIGURES**



Compass Plaza Well TCE Site  
Rogersville, Missouri

**Figure 1**  
Site Location Map



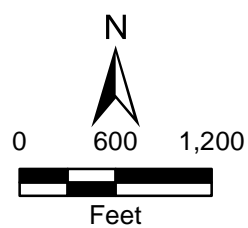




#### Legend

- VOC sampling location
- Route highway
- Major road
- Street
- VOC Volatile organic compound

Source: ESRI Data Maps, 2009; HSIP Gold, 2007



Compass Plaza Well TCE Site  
Rogersville, Missouri

**Figure 2**  
Soil Boring Location Map

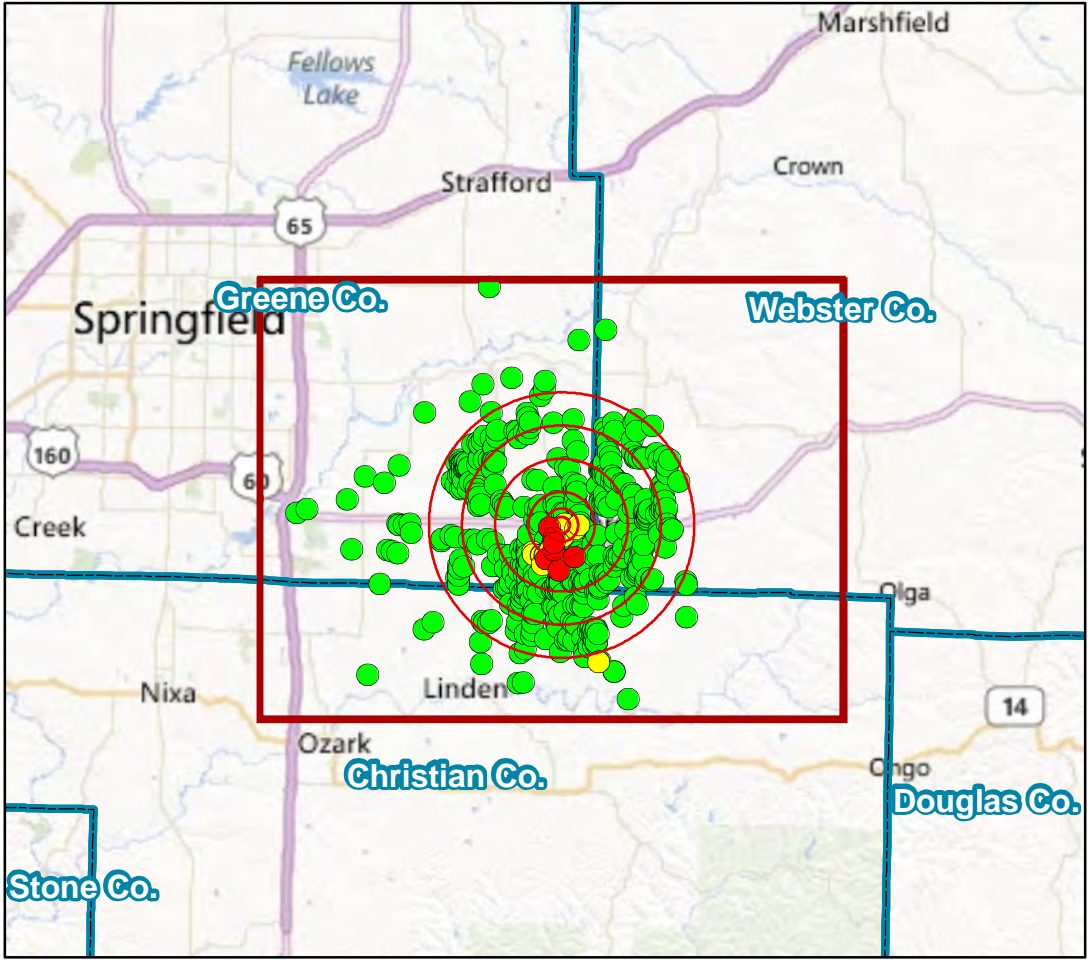
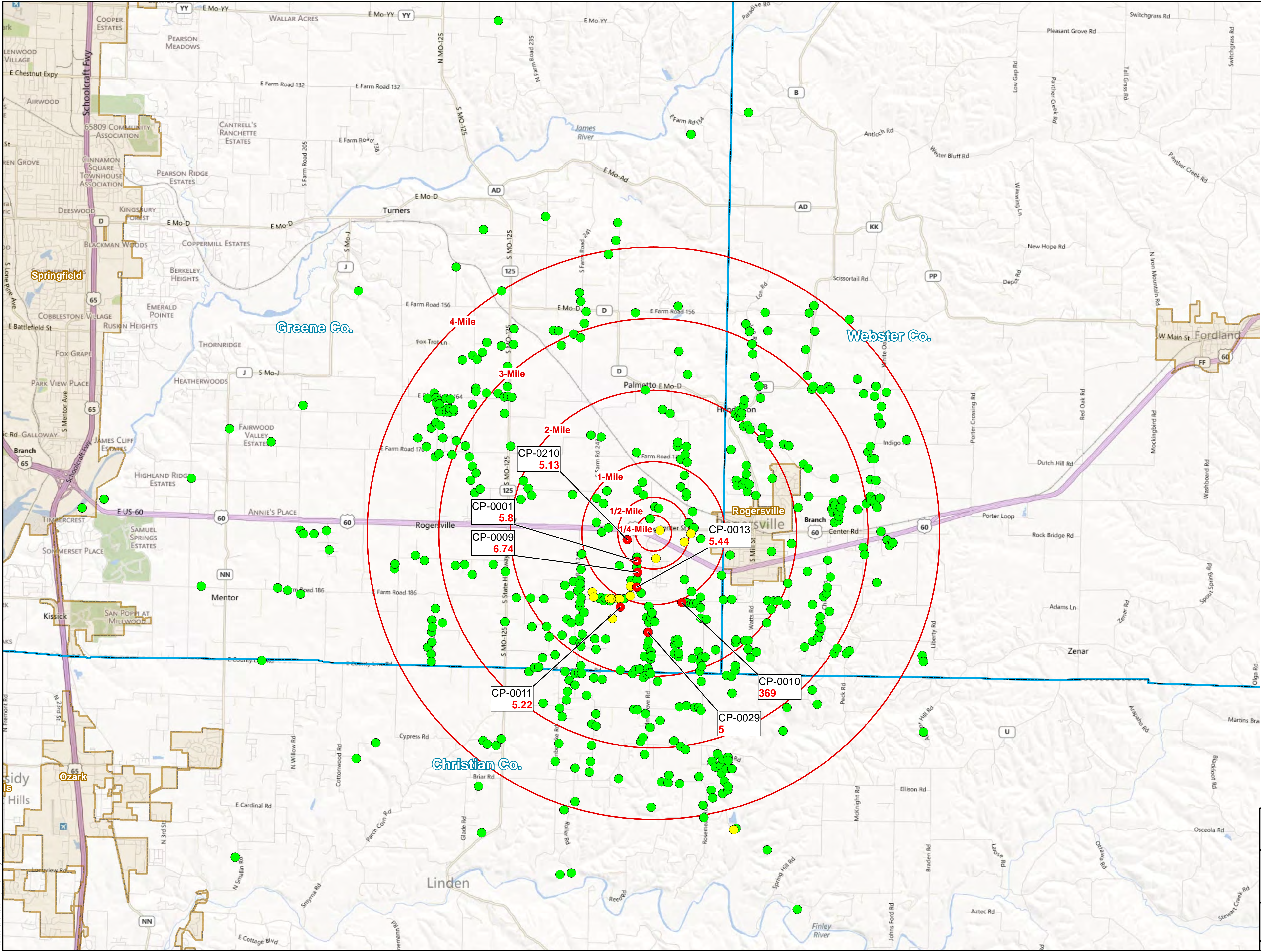


Date: 02/23/11

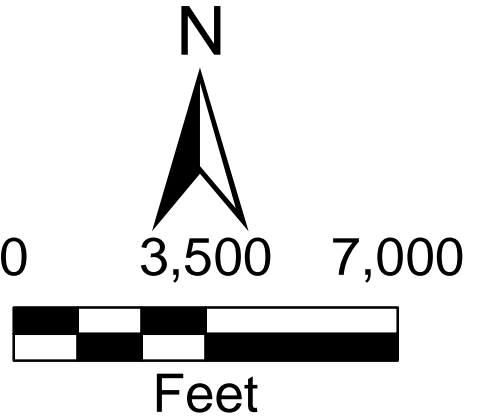
Drawn By: Gustavo Orozco

Project No: I9004.L10.0194.000





- Legend
- Results above maximum contaminant level (MCL)
  - Results below MCL
  - Contaminant not detected in sample
  - City boundary
  - County boundary
  - Radius ring
- | Property ID | Result in micrograms per Liter ( $\mu\text{g/L}$ ) |
|-------------|--|
| CP-0001     | 7.7  |



Source: Bing Maps Road Web Mapping Service, 2011

Compass Plaza Well TCE Site  
Rogersville, Missouri

**Figure 3**  
Groundwater Sample Locations  
and TCE Results Map





## **APPENDIX B**

### **TABLES**

TABLE 1

## AUGUST 2010 GROUNDWATER SAMPLING EVENT (ASR #: 5049) (µg/L)

EPA ID	Location ID	Date	Acetone	Bromodichloromethane	2-Butanone (Methyl ethyl ketone)	Carbon tetrachloride	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dibromochloromethane	1,1-Dichloroethene	1,1,1,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,1,2-Trichloroethane	Trichloroethene
5049-001	001	8/16/10	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	5.8
5049-003	003		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1
5049-004	004		ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	4.5
5049-005	005		ND	ND	ND	ND	0.65	ND	0.58	ND	ND	ND	ND	ND	ND	1.2
5049-006	006		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66
5049-007	007		ND	1.9	ND	10	50	27 J	ND	0.71	0.84 J	1.3	0.56 J	ND	ND	1.1 J
5049-008	008	8/17/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.74
5049-009	009		ND	ND	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	6.2
5049-011	010		ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	1.7	0.77	180
5049-012	010	8/25/10	300	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5049-013	011	8/17/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
5049-015	012		ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	4.4
5049-018	013		ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	5.4
5049-019	001	8/25/10	22	ND	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA MCL			NE	80	NE	5.0	80	NE	70	80	7.0	NE	5.0	1,000	5	5.0
EPA Tapwater RSL			12,000	0.12	4,900	0.39	0.19	190	28	0.15	260	0.50	9.7	860	0.24	0.44

**TABLE 1 (Continued)**

**AUGUST 2010 GROUNDWATER SAMPLING EVENT (ASR #: 5049) (µg/L)**

Notes:

Shaded cell indicates the analyte was detected above the EPA MCL (EPA 2012).

Bolded value indicates the analyte was detected above the EPA tapwater RSL (EPA 2012).

EPA U.S. Environmental Protection Agency  
J Estimated value  
MCL Maximum contaminant level (EPA 2012)  
ND Not detected  
NE Not established  
RSL Regional screening level (EPA 2012)  
µg/L Micrograms per liter

TABLE 2

## OCTOBER 2010 GROUNDWATER SAMPLING EVENT (TEST AMERICA) (µg/L)

EPA ID	Location ID	Date	Benzene	Bromodichloromethane	Chlorodibromomethane	Chloroform	Chloromethane	Toluene	Trihalomethanes
GW-5	019	10/5/10	ND	ND	ND	ND	0.086 J	ND	ND
GW-7	021		ND	ND	ND	ND	0.15 J	ND	ND
GW-9	023		ND	ND	ND	ND	0.090 J	ND	ND
GW-10	024		ND	ND	ND	ND	0.22 J	ND	ND
GW-11	025		ND	ND	ND	ND	0.10 J	ND	ND
GW-12	026		ND	ND	ND	ND	ND	0.092 J	ND
GW-15	029	10/6/10	ND	ND	ND	ND	0.13 J	ND	ND
GW-17	031		ND	ND	ND	0.16 J	0.14 J	ND	ND
GW-19	033		0.084 J	ND	ND	ND	ND	ND	ND
GW-22	036		ND	ND	ND	ND	0.17 J	ND	ND
GW-23	037		ND	0.77 J	0.33 J	2.8	ND	ND	3.9
GW-24	038		ND	ND	ND	ND	0.099 J	ND	ND
GW-25	039		ND	ND	ND	ND	0.13 J	ND	ND
GW-26	040		ND	ND	ND	ND	0.097 J	ND	ND
GW-27	041		ND	ND	ND	0.20 J	ND	ND	ND
GW-28	042		ND	ND	ND	ND	0.093 J	ND	ND
GW-30	044		ND	ND	ND	ND	0.11 J	ND	ND
GW-31	045		ND	ND	ND	ND	0.16 J	ND	ND
GW-32	046		ND	ND	ND	ND	0.13 J	ND	ND
GW-33	047		10/7/10	ND	ND	ND	ND	0.086 J	ND
GW-34	048	ND		ND	ND	ND	0.10 J	ND	ND
GW-35	049	ND		ND	ND	ND	0.093 J	ND	ND
GW-36	050	ND		ND	ND	ND	0.099 J	ND	ND
GW-37	051	ND		ND	ND	ND	0.12 J	ND	ND
GW-38	052	ND		ND	ND	ND	0.077 J	ND	ND
GW-41	055	ND		ND	ND	ND	0.096 J	ND	ND
GW-42	056	ND		ND	ND	ND	0.088 J	ND	ND
GW-43	057	ND		ND	ND	ND	0.13 J	ND	ND
GW-46	060	ND		ND	ND	ND	0.092 J	ND	ND
GW-47	061	ND		ND	ND	ND	0.081 J	ND	ND
GW-48	062	ND		ND	ND	ND	0.079 J	ND	ND
GW-49	063	ND		ND	ND	ND	0.12 J	ND	ND
GW-50	064	ND		ND	ND	ND	0.080 J	ND	ND
GW-51	065	ND	ND	ND	ND	0.11 J	ND	ND	
EPA MCL			5.0	80	80	80	NE	1,000	NE
EPA Tapwater RSL			0.39	0.12	0.15	0.19	190	860	NE

## TABLE 2 (Continued)

### OCTOBER 5-7, 2010 GROUNDWATER SAMPLING EVENT (TEST AMERICA) (µg/L)

Notes:

Bolded value indicates the analyte was detected above the EPA tapwater RSL (EPA 2012).

EPA U.S. Environmental Protection Agency  
J Estimated value  
MCL Maximum contaminant level (EPA 2012)  
ND Not detected  
NE Not established  
RSL Regional screening level (EPA 2012)  
µg/L Micrograms per liter

TABLE 3

DECEMBER 13-16, 2010 GROUNDWATER SAMPLING EVENT (TEST AMERICA) (µg/L)

EPA ID	Location ID	Date	Bromoform	Chloroform	Chloromethane	<i>cis</i> -1,2-Dichloroethene	Dichlorodifluoromethane	Trichloroethene
GW-1	066	12/13/10	ND	ND	0.23 J	ND	ND	ND
GW-2	067		ND	ND	0.28 J	ND	ND	ND
GW-3	068		ND	ND	0.13 J	ND	ND	ND
GW-4	069		ND	0.15 J	0.26 J	ND	ND	ND
GW-5	001		ND	ND	0.19 J	2.4	ND	5.1
GW-6	001		ND	ND	0.36 J	ND	ND	ND
GW-7	008	12/14/10	ND	ND	0.40 J	0.15 J	ND	0.56 J
GW-8	010		ND	ND	0.52 J	ND	ND	4.0
GW-9	011		ND	0.11 J	0.24 J	0.35 J	ND	0.98 J
GW-10	011		ND	ND	0.21 J	ND	ND	ND
GW-11	005		ND	0.50 J	0.25 J	0.39 J	ND	0.83 J
GW-12	012		ND	ND	0.37 J	1.4	ND	4.6
GW-13	003		ND	ND	0.34 J	0.38 J	ND	1.2
GW-14	070		ND	ND	0.26 J	ND	ND	ND
GW-15	071		ND	ND	0.27 J	ND	ND	ND
GW-16	072		ND	0.49 J	0.088 J	ND	ND	ND
GW-17	073		ND	ND	0.14 J	ND	ND	ND
GW-18	074		ND	ND	0.18 J	ND	ND	ND
GW-19	075		ND	ND	0.092 J	ND	ND	ND
GW-21	009		ND	ND	ND	2.3	ND	6.5
GW-22	009		ND	ND	0.13 J	ND	ND	ND
GW-23	007		ND	ND	0.083 J	0.53 J	ND	1.1
GW-24	006		ND	ND	0.097 J	0.26 J	ND	0.58 J
GW-25	077		ND	0.15 J	0.11 J	ND	ND	ND
GW-26	078		ND	ND	0.096 J	0.19 J	ND	ND
GW-30	082	12/15/10	ND	ND	0.085 J	ND	ND	ND
GW-32	084		ND	ND	0.090 J	ND	ND	ND
GW-33	013		ND	ND	0.094 J	1.6	ND	5.1
GW-36	085		ND	ND	ND	ND	0.10 J	ND
GW-39	088		ND	ND	0.082 J	ND	ND	ND
GW-41	024	12/16/10	ND	ND	0.24 J	ND	ND	ND
GW-42	025		ND	ND	0.27 J	ND	ND	ND
GW-43	026		0.23 J	0.10 J	0.22 J	ND	ND	ND
GW-44	018		ND	ND	0.094 J	ND	ND	ND
GW-45	029		ND	ND	0.13 J	ND	ND	ND
GW-46	031		ND	0.13 J	0.27 J	ND	ND	ND
GW-47	036		ND	ND	0.085 J	ND	ND	ND
GW-48	035		ND	ND	0.18 J	ND	ND	ND
GW-49	040		ND	ND	0.12 J	ND	ND	ND

TABLE 3 (Continued)

## DECEMBER 13-16, 2010 GROUNDWATER SAMPLING EVENT (TEST AMERICA) (µg/L)

EPA ID	Location ID	Date	Bromoform	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Trichloroethene
GW-56	015	12/16/10	ND	ND	0.12 J	ND	ND	0.80 J
GW-57	016		ND	ND	0.10 J	ND	ND	ND
GW-59	044		ND	ND	0.27 J	ND	ND	ND
GW-60	090		ND	ND	0.20 J	ND	ND	ND
GW-61	056		ND	ND	0.20 J	ND	ND	ND
GW-62	063		ND	ND	0.25 J	ND	ND	ND
GW-63	046		ND	ND	0.37 J	ND	ND	ND
GW-64	091		ND	ND	0.22 J	ND	ND	ND
GW-65	061		ND	ND	0.18 J	ND	ND	ND
EPA MCL			80	80	NE	70	NE	5.0
EPA Tapwater RSL			7.9	0.19	190	28	190	0.44

Notes:

Bolded value indicates the analyte was detected above the EPA Tapwater Regional Screening Level (EPA 2012).  
Shaded cell indicates the analyte was detected above the EPA Maximum Contaminant Level (EPA 2012).

EPA U.S. Environmental Protection Agency  
J Estimated value  
MCL Maximum contaminant level (EPA 2012)  
ND Not detected  
NE Not established  
RSL Regional screening level (EPA 2012)  
µg/L Micrograms per liter



**TABLE 4**

**DECEMBER 29, 2010 GROUNDWATER SAMPLING EVENT (TEST AMERICA) (µg/L)**

<b>EPA ID</b>	<b>Location ID</b>	<b>Date</b>	<b>Bromodichloromethane</b>	<b>Chlorodibromomethane</b>	<b>Chloroform</b>	<b>Chloromethane</b>	<b>2-Chlorotoluene</b>	<b>4-Chlorotoluene</b>	<b>Toluene</b>	<b>Trihalomethanes</b>
GW-51	010	12/29/10	<b>2.5</b>	<b>0.98 J</b>	<b>21</b>	0.098 J	15	7.5	4.4	25
<b>EPA MCL</b>			80	80	80	NE	NE	NE	1,000	NE
<b>EPA Tapwater RSL</b>			0.12	0.15	0.19	190	180	190	860	NE

Notes:

Bolded values indicate the analyte was detected above the EPA Tapwater Regional Screening Level (EPA 2012).

EPA     U.S. Environmental Protection Agency  
J         Estimated value  
MCL     Maximum contaminant level (EPA 2012)  
NE       Not established  
RSL     Regional screening level (EPA 2012)  
µg/L     Micrograms per liter

**TABLE 5**

**FEBRUARY 2011 GROUNDWATER SAMPLING EVENT (ASR #: 5255) (µg/L)**

<b>EPA ID</b>	<b>Location ID</b>	<b>Date</b>	<b>Chloroform</b>	<b><i>cis</i>-1,2-Dichloroethene</b>	<b>Trichloroethene</b>
5255-007	012	2/22/11	ND	0.68	1.9
5255-018	106	2/23/11	<b>0.57</b>	ND	ND
<b>EPA MCL</b>			80	70	5.0
<b>EPA Tapwater RSL</b>			0.19	28	0.44

Notes:

Bolded value indicates the analyte was detected above the EPA Tapwater Regional Screening Level (EPA 2012).

EPA U.S. Environmental Protection Agency

MCL Maximum contaminant level

ND Not detected

RSL Regional screening level

µg/L Micrograms per liter

TABLE 6

## MARCH 2011 GROUNDWATER SAMPLING EVENT (ASR #: 5295) (µg/L)

EPA ID	Location ID	Date	Carbon Disulfide	Chloroform	<i>cis</i> -1,2-Dichloroethene	Trichloroethene
5295-001	011	3/7/11	ND	ND	0.86 J	2.4
5295-003	009		ND	ND	2.0 J	5.5
5295-005	010		0.87	1.2	ND	ND
5295-006	010		ND	0.57	ND	ND
5295-007	001		ND	ND	2.9 J	5.7
EPA MCL			NE	80	70	5.0
EPA Tapwater RSL			720	0.19	28	0.44

Notes:

Shaded cell indicates the analyte was detected above the EPA Maximum Contaminant Level (EPA 2012).

Bolded value indicates the analyte was detected above the EPA Tapwater Regional Screening Level (EPA 2012).

EPA U.S. Environmental Protection Agency  
 J Estimated value  
 MCL Maximum contaminant level  
 ND Not detected  
 NE Not established  
 RSL Regional screening level  
 µg/L Micrograms per liter

TABLE 7

## MAY 2011 SOIL SAMPLING EVENT (ASR #: 5367) (mg/kg)

EPA ID	Location ID	Date	Acetone	2-Butanone	Methyl Acetate	Tetrachloroethene
5367-001	SB-1	5/10/11	0.036	ND	ND	ND
5367-002	SB-1	5/10/11	0.023	ND	ND	ND
5367-003	CC-1	5/10/11	0.041	ND	ND	ND
5367-004	CC-1	5/10/11	ND	ND	ND	0.030
5367-005	SB-3	5/10/11	0.038	ND	ND	ND
5367-006	SB-3	5/10/11	0.015	ND	ND	ND
5367-007	SB-4	5/10/11	0.053	ND	ND	ND
5367-008	SB-4	5/10/11	0.012	ND	ND	ND
5367-009	SB-5	5/10/11	0.190	0.017	ND	ND
5367-010	SB-5	5/10/11	0.023	ND	ND	ND
5367-011	SB-6	5/10/11	0.150	0.018	ND	ND
5367-012	SB-6	5/10/11	0.011	ND	ND	ND
5367-013	SB-7	5/10/11	0.380	0.034	ND	ND
5367-014	SB-7	5/10/11	0.030	ND	ND	ND
5367-015	SB-8	5/11/11	0.170	0.020	ND	ND
5367-016	SB-8	5/11/11	0.026	ND	ND	ND
5367-017	SB-8	5/11/11	0.092	ND	ND	ND
5367-018	SB-9	5/11/11	0.240	0.030	ND	ND
5367-019	SB-9	5/11/11	0.120	0.013	ND	ND
5367-020	SB-10	5/11/11	0.290	0.031	0.0075 J	ND
5367-021	SB-10	5/11/11	0.036	ND	ND	ND
5367-022	SB-11	5/11/11	0.021	ND	ND	ND
5367-023	SB-11	5/11/11	0.049	ND	ND	ND
5367-024	SB-12	5/11/11	0.280	0.028	0.0093	ND
5367-025	SB-12	5/11/11	0.020	ND	ND	ND
5367-026	SB-12	5/11/11	0.034	ND	ND	ND
5367-027	SB-13	5/12/11	0.240	0.017	0.011	ND
5367-028	SB-13	5/12/11	0.022	ND	ND	ND
5367-029	SB-13	5/12/11	0.029	ND	ND	ND
5367-030	SB-13	5/12/11	0.020	ND	ND	ND
<b>EPA RSL Residential</b>			61,000	28,000	78,000	22
<b>EPA RSL Industrial</b>			630,000	200,000	1,000,000	110

Notes:

EPA U.S. Environmental Protection Agency  
 J Estimated value  
 ND Not detected  
 NE Not established  
 RSL Regional screening level  
 mg/kg Milligrams per kilogram

TABLE 8

## MAY 2011 GROUNDWATER SAMPLING EVENT (ASR #: 5399) (µg/L)

EPA ID	Location ID	Date	Acetone	<i>cis</i> -1,2-dichloroethene	Trichloroethene
5367-111	011	5/11/11	ND	1.4	<b>3.9</b>
5367-130	0143	5/11/11	22	ND	ND
5367-131	001	5/11/11	ND	0.85	2.0
<b>EPA MCL</b>			NE	70	5.0
<b>EPA Tapwater RSL</b>			12,000	28	0.44

Notes:

Bolded value indicates the analyte was detected above the EPA Tapwater Regional Screening Level (EPA 2012).

EPA U.S. Environmental Protection Agency  
MCL Maximum contaminant level  
ND Not detected  
NE Not established  
RSL Regional screening level  
µg/L Micrograms per liter

TABLE 9

## JULY 2011 GROUNDWATER SAMPLING EVENT (ASR #: 5399) (µg/L)

EPA ID	Location ID	Date	Chloroform	<i>cis</i> -1,2-dichloroethene	Trichloroethene
5399-028	013	7/13/11	ND	1.4	<b>4.8</b>
5399-032	009		ND	2.0	<b>6.0</b>
5399-036	007		ND	0.53	1.2
5399-037	182		0.82	ND	ND
5399-038	004		4.7	1.5	ND
5399-039	012		4.8	1.5	ND
5399-046	189	7/14/11	0.79	ND	ND
<b>EPA MCL</b>			80	70	5.0
<b>EPA Tapwater RSL</b>			0.19	28	0.44

Notes:

Shaded cell indicates the analyte was detected above the EPA Maximum Contaminant Level (EPA 2012).

Bolded value indicates the analyte was detected above the EPA Tapwater Regional Screening Level (EPA 2012).

EPA U.S. Environmental Protection Agency  
 MCL Maximum contaminant level  
 ND Not detected  
 RSL Regional screening level  
 µg/L Micrograms per liter

**TABLE 10****SEPTEMBER 2011 GROUNDWATER SAMPLING EVENT (ASR #: 5514) (µg/L)**

<b>EPA ID</b>	<b>Location ID</b>	<b>Date</b>	<b>Acetone</b>	<b>Carbon Disulfide</b>
5514-010	206	9/28/11	10J	ND
5514-012	208	9/29/11	6.2	ND
5514-013	209-Well #1		7.4	ND
5514-014	209-Well #2		11	ND
5514-015	011		7.8	ND
5514-017	010		ND	0.81
5514-018	010		7.1	ND
<b>EPA MCL</b>			NE	NE
<b>EPA Tapwater RSL</b>			12,000	720

Notes:

EPA    U.S. Environmental Protection Agency  
J       Estimated value  
MCL   Maximum contaminant level  
ND     Not detected  
RSL    Regional screening level  
µg/L   Micrograms per liter

**TABLE 11**

**NOVEMBER 2011 GROUNDWATER SAMPLING EVENT (ASR #: 5591) (µg/L)**

<b>EPA ID</b>	<b>Location ID</b>	<b>Date</b>	<b>Chloroform</b>
5591-021	290	11/16/11	5.8J
5591-031	299		0.51
<b>EPA MCL</b>			80
<b>EPA Tapwater RSL</b>			0.19

Notes:

EPA    U.S. Environmental Protection Agency  
J       Estimated value  
MCL   Maximum contaminant level  
RSL   Regional screening level  
µg/L   Micrograms per liter



TABLE 12

## FEBRUARY 2012 GROUNDWATER SAMPLING EVENT (ASR #: 5669) (µg/L)

EPA ID	Location ID	Date	Toluene	2-Hexanone	Methylene Chloride	Trichloroethene	<i>cis</i> -1,2-Dichloroethene
5669-003	013	2/27/12	ND	ND	ND	4.1	1.4 J
5669-005	009		ND	ND	ND	3.8	1.5 J
5669-009	011		0.5	ND	0.5	3.7	1.3 J
5669-011	004		ND	ND	ND	2.6	1.1
5669-036	084	2/29/12	ND	ND	2.3	ND	ND
5669-038	385		17	5.1	ND	ND	ND
5669-039	386		ND	ND	1.9	ND	ND
5669-041	007	2/27/12	ND	ND	ND	1.1	ND
5669-045	005		ND	ND	ND	0.59	ND
5669-046	012		ND	ND	ND	4.3	1.4
EPA MCL			1,000	NA	5.0	5.0	70
EPA Tapwater RSL			860	34	9.9	0.44	28

Notes:

Bolded value indicates the analyte was detected above the EPA Tapwater Regional Screening Level (EPA 2012).

EPA U.S. Environmental Protection Agency  
 MCL Maximum contaminant level  
 NA Not applicable  
 ND Not detected  
 RSL Regional screening level  
 µg/L Micrograms per liter

**TABLE 13**

**MAY 2012 GROUNDWATER SAMPLING EVENT (ASR #: 5743) (µg/L)**

<b>EPA ID</b>	<b>Location ID</b>	<b>Date</b>	<b>Chloroform</b>	<b>Carbon Disulfide</b>
5743-020	439	5/2/12	<b>1.4</b>	ND
5743-049	468		ND	1.4
<b>EPA MCL</b>			80	NE
<b>EPA Tapwater RSL</b>			0.19	720

Notes:

Bolded value indicate the analyte was detected above the EPA Tapwater Regional Screening Level (EPA 2012).

EPA     U.S. Environmental Protection Agency  
MCL     Maximum contaminant level  
ND       Not detected  
NE       Not established  
RSL      Regional screening level  
µg/L     Micrograms per liter

TABLE 14

## AUGUST 2012 GROUNDWATER SAMPLING EVENT (ASR #: 5828) (µg/L)

EPA ID	Location ID	Date	Toluene	2-Butanone	Chloroform	Acetone	Trichloroethene	cis-1,2-Dichloroethene
5828-002	486	8/13/12	ND	ND	ND	ND	3.8	1.2
5828-007	001	8/14/12	ND	ND	ND	ND	5.1	2.2
5828-009	009		ND	ND	ND	ND	5.7	1.8
5828-010	013		ND	ND	ND	ND	4.4	1.3
5828-026	012		ND	ND	ND	ND	3.5J	1.1
5828-030	007	8/15/12	ND	ND	ND	ND	0.84J	ND
5828-033	497		41	1100	4.1	210	ND	ND
EPA MCL			1,000	NE	80	NE	5.0	70
EPA Tapwater RSL			860	4900	0.19	12,000	0.44	28

Notes:

Shaded cell indicates the analyte was detected above the EPA Maximum Contaminant Level (EPA 2012).

Bolded value indicates the analyte was detected above the EPA Tapwater Regional Screening Level (EPA 2012).

EPA U.S. Environmental Protection Agency  
 J Estimated value  
 MCL Maximum contaminant level  
 ND Not detected  
 NE Not established  
 RSL Regional screening level  
 µg/L Micrograms per liter

TABLE 15

## NOVEMBER 2012 GROUNDWATER SAMPLING EVENT (ASR #: 5942) (µg/L)

EPA ID	Location ID	Date	Chloroform	Trichloroethene	<i>cis</i> -1,2-Dichloroethene
5942-002	370	11/12/12	<b>0.75</b>	ND	ND
5942-016	0015-RW	11/13/12	ND	1.0	ND
5942-020	004		ND	1.3	ND
5942-022	003	11/14/12	ND	1.1	ND
5942-031	486		ND	<b>3.4</b>	1.3
5942-034	009	11/15/12	ND	<b>4.4</b>	1.7
<b>EPA MCL</b>			80	5.0	70
<b>EPA Tapwater RSL</b>			0.19	2.0	28

Notes:

Bolded value indicates the analyte was detected above the EPA Tapwater Regional Screening Level (EPA 2012).

EPA U.S. Environmental Protection Agency  
MCL Maximum contaminant level  
ND Not detected  
RSL Regional screening level  
µg/L Micrograms per liter

**APPENDIX C**  
**FIELD LOGBOOKS**

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## CONTENTS

[illegible]



8/16/10

0900 Leave KC office for  
Rogersville, MO1230 Arrive on-site, meet with  
Doug Ferguson of EPA and  
Daniel Brinkmeyer of Environmental  
Restoration.Travel around site to view  
affected homes.1425 Collected 5049-1collected triple volume for MS/MSD  
sample at kitchen sink.1457 Collected 5049-2

collected sample at kitchen sink

1526 collected at hydrant before  
treatment system 5049-31555 Collected 5049-4collected at hydrant in back of  
house.

Temperature: 17.2°C

Spec. Cond: 360  $\mu\text{S}/\text{cm}$ 

DO : 51%

pH: 7.73

ORP: 24.4

8/16/10

1620

Collected 5049-5Collected from spigot on west  
side of house.

Temp: 18.39°C

Spec. Cond: 361  $\mu\text{S}/\text{cm}$ 

DO: 82.6%

pH: 7.63

ORP: 39.4

1645

Collected 5049-6Collected at hydrant in back  
of house.

Temp: 15.24°C

Spec. Cond: 316  $\mu\text{S}/\text{cm}$ 

DO: 18.4%

pH: 7.59

ORP: 63.5

17:25

Collected 5049-7Collected from spigot on east  
side of house

Temp: 18.01°C

Spec. Cond: 383  $\mu\text{S}/\text{cm}$ 

DO: 31.6%

pH: 5.13

ORP: 701.8



8/17/10

0910

Collected 5049-8Collected from spigot on  
back of house

Temp: 14.48 °C

Spec Cond: 356  $\mu\text{S}/\text{cm}$ 

DO: 32.1%

pH: 7.39

ORP: 119.7

1010

Collected 5049-11Pre-treatment sample collected  
at hydrant south of house

Temp: 18.60 °C

Spec Cond: 432  $\mu\text{S}/\text{cm}$ 

DO 105.6%

pH 7.15

ORP: 126.6

1040

Collect 5049-31-FB

Field blank sample

1050

Collect 5049-32-PB

trip blank sample

1140

Collect 5049-13Pre-treatment sample  
collected at hydrant nearest  
the well head.

5049-13 (continued)

temp: 15.64 °C

Spec Cond: 290  $\mu\text{S}/\text{cm}$ 

DO: 70.0%

pH: 7.71

ORP: 103.0

1305

Collect 5049-9Collect pre-treatment sample  
immediately before activated  
carbon filtration system\* H<sub>2</sub>O quality measurements  
taken post-treatment

temp: 17.30 °C

Spec Cond: 358  $\mu\text{S}/\text{cm}$ 

DO 44.6%

pH 8.01

ORP: 105.2

1310

Collect 5049-10Collect post treatment sample  
at spigot on back of house.

temp: 17.30 °C

Spec Cond: 358  $\mu\text{S}/\text{cm}$ 

DO: 44.6%

pH 8.01

ORP 105.2



8/17/10

1420

Collected 5049-15

Collected from hydrant in back of house.

Temp: 14.65°C

Spec Cond: 294  $\mu\text{S}/\text{cm}$ 

DO: 66.0%.

pH: 7.73

ORP: 107.9

1440

Collected 5049-16

Collected post-treatment sample from kitchen sink in main house.

Temp: 18.15°C

Spec. Cond: 355  $\mu\text{S}/\text{cm}$ 

DO: 50.1%.

pH: 7.70

ORP: 115.1

1525

Collected 5049-14

Collected post treatment sample at spigot in front of house,

temp: 17.12°C

Spec. Cond: 295  $\mu\text{S}/\text{cm}$ 

DO: 43.0 %.

pH: 8.03

ORP: 101.2

1545

Collected 5049-18

Collected pre treatment sample at hydrant nearest the well head.

Temp: 14.35°C

Spec Cond: 342  $\mu\text{S}/\text{cm}$ 

DO: 18.1%.

pH: 7.58

ORP: 121.5

1555

Collected 5049-17

Collected post treatment in guest house at kitchen sink.

Temp: 16.72°C

Spec Cond: 291  $\mu\text{S}/\text{cm}$ 

DO: 124.2%.

pH: 8.24

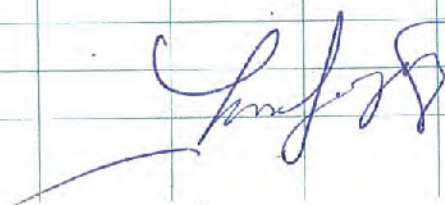
ORP: 110.3

1630

Complete sampling for day, pack up 3, mob to KC office.

1930

arrive @ KC office, unpack





8/18/10

1000 pack sample coolers

1100 Drop off samples @ EPA  
Region 7 Lab.

8/25/10 calibrated YSI at 12:30 pm.

12:30 Parking up vehicle - preparing  
to leave KC

4:30 Stopped for ice.

4:45 Arrive at Phyllis house  
at 5352 S Farm Rd 247.5:20 Finished sample & left  
for next house. Ran  
water for 5 minutes - note  
low pH.

5049-19:

T<sub>0</sub> = 17.39°C

Speed = 395

pH = 5.95

DO = 34.3

ORP = 56.3

Shawn P. Martin

5:30 Spoke w/ Mr. Wray  
about sampling - he  
said to sample at the  
well, but it would be  
past TX.

5049-12:

T<sub>0</sub> = 14.73

Speed = 764

pH = 6.59

DO = -1.7

ORP = -0.1

5:45 Arrived at the Yorks - got  
no answer at the door, so  
turned garden spigot on,  
and prepared vials.

Mrs. York finally came out.

She gave me a band aid

#5049-20 for my cut finger.

ms/pd T<sub>0</sub> = 15.59

DO = 42.1

Spec. Cond = 438

ORP = -53.4

pH = 7.47

Shawn P. Martin



8/25/10 (cont.)

6:45 Leaving York residence for  
drive back to KC.10:30 Arrived at garage after  
gassing up vehicle.  
Unloaded and checked  
ice on samples.

Shawn P. Martin

10/5/10

October sampling event

0830

arrive at KC office, print spread  
sheet, pack vehicle

1000

leave KC office for Rogersville, MO

1300

arrive at Tanvestown, Rogersville  
MO. Wait for Doug Ferguson  
from EPA.

1330

Arrive @ 9267 East Fawn Road 186

1340

Collect GW-1 - well used when main  
well (GW-2) is out of commission,  
located at hydrant near wellhead  
east of house.T<sub>0</sub>: 14.66°CSpec Cond: 312  $\mu\text{S}/\text{cm}$ 

pH: 4.90 pH

ORP: 267.0 ORP

1400

Collect GW-2 - main well used  
at 9267 E. Fawn Road 186.T<sub>0</sub>: 14.27°CSpec. Cond. 479  $\mu\text{S}/\text{cm}$ 

pH: 6.10 pH

ORP: 237.0 ORP

Doug Ferguson

10/5/20

1410 Arrive @ 8915 East Farm Road 186  
-No audience

1420 Arrive @ 8524 East Farm Road 186  
(Bart Andrews)

1430 Collect Gw-3 From hydrant to  
south of house.

T<sub>0</sub>: 15.26°C

Spec. Cond: 252  $\mu\text{S}/\text{cm}$

pH: 7.71 pH

ORP: 52.1

1440 Arrive @ 8378 E. Farm Road 186  
(David Andrews)

1450 Collect Gw-4

T<sub>0</sub>: 14.65°C

Spec. Cond: 446  $\mu\text{S}/\text{cm}$

pH: 7.64 pH

ORP: 163.3

1500 Arrive @ 8220 East Farm Road 186  
(Steve Wilson)

1510 Collect Gw-5

T<sub>0</sub>: 19.04°C

Spec. Cond: 275  $\mu\text{S}/\text{cm}$

pH: 7.81

ORP: 56.1

*Chad*

10/5/10

\* 1525 Arrive @ 5585 East Farm Road 186  
Linda Noon

(417)-887-8975

(417)-840-0040

1535 Collect Gw-6

T<sub>0</sub>: 18.52°C

Spec. Cond: 315  $\mu\text{S}/\text{cm}$

pH: 7.84

ORP: -28.7

1550 Arrive @ 5830 East Farm Road 186  
Michael Lowe  
(417)-888-0254

1555 Collect Gw-7

T<sub>0</sub>: 15.17°C

Spec. Cond: 242  $\mu\text{S}/\text{cm}$

pH: 6.52 pH

ORP: 75.5

1650 Arrive @ 5503 East Farm Road 170  
(Gail Wright)

1700 Collect Gw-8

T<sub>0</sub>: 15.33°C

Spec. Cond: 288  $\mu\text{S}/\text{cm}$

pH: 5.42

ORP: 66.7

*Chad*



10/5/10

1720 Arrive @ 8816 East Farm Road 174  
(Bill Davis)

1725 Collect GW-9

T°: 17.27°C

Spec. Cond: 416  $\mu\text{S}/\text{cm}$

pH: 7.65

ORP: -77.5 orp.

-water softener & sediment filter

1750 arrive @ 6097 South Highway 125

1755 Collect GW-10

T°: 14.09°C

Spec. Cond: 458  $\mu\text{S}/\text{cm}$

pH: 8.76

ORP: 8.1

1815 Arrive @ 7260 East County Line Road  
(Carol Lamborn)

1825 Collect GW-11

T°: 14.60°C

Spec. Cond: 325  $\mu\text{S}/\text{cm}$

pH: 7.46

ORP: 67.4

1835 Arrive @ 7118 East County Line Rd

Scott Lamborn

(417) - 753-2646

*Scott Lamborn*

10/5/10

1845 Collect GW-12

T°: 15.02°C

Spec. Cond: 374  $\mu\text{S}/\text{cm}$

pH: 7.60

ORP: 112.5

1855 Arrive @ 7110 County Line Rd  
(Greg Stomboly)

1855 Collect GW-13

T°: 16.46°C

Spec. Cond: 367  $\mu\text{S}/\text{cm}$

pH: 7.27

ORP: 525.0

1900 ~~1900~~ Completed for day, head  
to Springfield to check in to  
the Comfort Inn.

*Greg Stomboly*



10/6/10

0830 arrive @ Jamestown  
call residents with Doug  
Ferguson of EPA to gain access.

1100 arrive @ 5994 South Fawn Road 249

1110 Collect Gw-14

T<sup>o</sup>: 15.00 °C

Spec Cond: 345  $\mu$ S/cm

pH: 7.42

ORP: 106.9

1120 arrive @ 6001 South Fawn Road 249

1130 Collect Gw-15

T<sup>o</sup>: 16.80 °C

Spec Cond: 359  $\mu$ S/cm

pH: 7.47

ORP: 99.5

~~1140~~ arrive @ 6167 South Fawn Road 249

1150 Collect Gw-16

T<sup>o</sup>: 16.58 °C

Spec Cond: 338  $\mu$ S/cm

pH: 7.50

ORP: 123.7

1200 arrive @ 6376 South Fawn Road 249

1210 Collect Gw-17

*[Signature]*

10/6/10

T<sup>o</sup>: 15.13 °C

Spec Cond: 349  $\mu$ S/cm

pH: 7.56

ORP: 109.2

1215 Break for lunch

1245 Drive to 6421 South Fawn Road 249

1255 arrive @ 6421 South Fawn Road 249

1305 Collect Gw-18

T<sup>o</sup>: 15.21 °C

Spec Cond: 326  $\mu$ S/cm

pH: 7.48

ORP: 87.9

1315 arrive @ 6460 South Fawn Road 249

1325 Collect Gw-19

T<sup>o</sup>: 16.32 °C

Spec Cond: 336  $\mu$ S/cm

pH: 6.51

ORP: 149.9

1350 arrive @ ~~4877~~<sup>5895</sup> South Fawn Road  
Summer Ince - not home

1410 arrive @ 4877 South Fawn Road 249

1420 Collect Gw-20

T<sup>o</sup>: 14.11 °C pH: 7.36

Spec Cond: 360  $\mu$ S/cm ORP: 14.8

*[Signature]*



10/6/10

1430 arrive @ 4796 South Farm Road 249

1440 collect Gw-21

T<sub>o</sub>: 14.71 °CSpec. Cond: 312  $\mu$ S/cm

pH: 7.69

ORP: -33.7

1445 arrive @ 4774 South Farm Road 249

1455 collect Gw-22

T<sub>o</sub>: 16.41 °CSpec. Cond.: 401  $\mu$ S/cm

pH: 7.32 pH

ORP: 50.8 ORP

1510 arrive @ 4561 South Farm Road 249

1520 collect Gw-23

T<sub>o</sub>: 14.74 °CSpec. Cond: 284  $\mu$ S/cm

pH: 7.58 pH

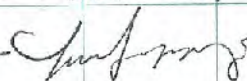
ORP: 660.2 ORP

1545 arrive @ 5304 South Farm Road 241

Don Lee

(417) - 753-2512

1555 collect Gw-24

T<sub>o</sub>: 15.07 °C pH: 5.31Spec Cond: 294  $\mu$ S/cm ORP: 68.5

10/6/10

1625 arrive @ 5632 South Farm Road 241

C.R. Cooper

(417) - 753-3907

1635 collect Gw-25

T<sub>o</sub>: 14.47 °CSpec. Cond: 240  $\mu$ S/cm

pH: 7.73

ORP: -41.5

1640 arrive @ 5757 South Farm Road 241

Rodney Robinson

(417) - 830-9196

1650 collect Gw-26

T<sub>o</sub>: 14.97 °CSpec. Cond: 212  $\mu$ S/cm

pH: 7.22

ORP: 89.0

1655 arrive @ 8915 East Farm Road 186

Gary Hale

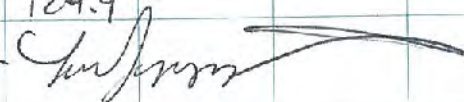
(417) - 576-6580

1705 collect Gw-27

T<sub>o</sub>: 16.20 °CSpec. Cond: 241  $\mu$ S/cm

pH: 6.78 pH

ORP: 124.4





10/6/10

1710 arrive @ 6060 South Farm Road 249  
-not home

1730 leave

1735 arrive @ 6323 South Farm Road 249  
Ray Fugate  
(417)-881-3615

1745 Collect GW-28  
T°: 17.50°C  
Spec Cond: 329  $\mu\text{S}/\text{cm}$

pH: 7.38  
ORP: 106.0

1800 Arrive @ 5598 South Farm Road 241  
Darren Hacker  
(417)-753-5178

1810 Collect GW-29  
T°: 14.56°C  
Spec. Cond: 290  $\mu\text{S}/\text{cm}$   
pH: 6.99 pH  
ORP: 18.4

1815 Arrive @ ~~544~~ 5454 South Farm Road 241  
1825 Collect GW-30  
T°: 16.70°C  
Spec. Cond: 388  $\mu\text{S}/\text{cm}$   
pH: 7.07 pH  
ORP: 138.6 ORP

10/6/10

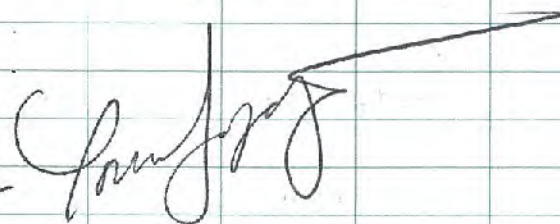
1835 arrive @ 8850 East Farm Road 184  
John Griffen  
(417)-753-2608

1845 Collect GW-31  
T°: 14.82°C  
Spec Cond: 590  $\mu\text{S}/\text{cm}$   
pH: 6.90  
ORP: 120.4

1850 Arrive @ 6884 East Farm Road 184  
Juanita Wakefield  
(417)-753-2010

1900 Collect GW-32  
T°: 14.82°C  
Spec. Cond: 435  $\mu\text{S}/\text{cm}$   
pH: 6.88  
ORP: 67.7

1910 Finished for day, head to  
hotel in Springfield, MO.





10/7/10

0830 arrive @ walmart to pick up  
nitrate gloves.

0850 Arrive at Jamestown & call  
residents to gain access.

0940 arrive @ 10152 East farm Road 186

0950 Collect GW-33

T°: 14.85°C

Spec. Cond:  $\mu\text{S}/\text{cm}$

pH: 7.34

ORP: 197.0 RP

1015 arrive @ 201 Old Buggy Road  
Rick Tutor

(417)-753-9144

1025 Collect GW-34

T°: 14.68°C

Spec. Cond: 337  $\mu\text{S}/\text{cm}$

pH: 7.68

ORP: 6.0

1030 arrive @ 252 Old Buggy Road  
Danielle Hammons

(417)-753-9144

1040 Collect GW-35

T°: 14.89°C

pH: 7.46

Spec. Cond: 170  $\mu\text{S}/\text{cm}$  ORP: 120

*Chris*

10/7/10

1050 arrive @ 363 Old Buggy Road  
Larry & Vicki Gann  
(417)-753-3413

1100 Collect GW-36

T°: 14.61°C

Spec. Cond: 266  $\mu\text{S}/\text{cm}$

pH: 7.22 pH

ORP: 123.4 RP

1105 arrive @ 472 Old Buggy Rd  
James Kisse

(417)-569-4852

1120 Collect GW-37

T°: 15.01°C

Spec Cond: 203  $\mu\text{S}/\text{cm}$

pH: 4.85 pH

ORP: 239.7 RP

1140 arrive @ 232 Harvest Store Rd  
Robert Kisse

(417)-~~569-4852~~ 753-2091

1150 Collect GW-38

T°: 14.81

Spec Cond: 263  $\mu\text{S}/\text{cm}$

pH: 7.78

80.4 RP

*Chris*



10/7/10

1210 Break for lunch

1240 Leave for 1522 Chickory Rd

1245 arrive @ 1522 Chickory Rd

Robert Cambell

(417) - 753-2266

1255 Collect Gw-39

T°: 14.58°C

Spec. Cond: 287  $\mu\text{S}/\text{cm}$ 

pH: 7.54

ORP: 69.5

1300 Arrive @ 1284 Chickory Rd

Jason Cambell

(417) - 7666 - 8085

1310 Collect Gw-40

T°: 14.05°C

Spec. Cond: 299  $\mu\text{S}/\text{cm}$ 

pH: 7.31

72.8 ORP

- Same well as 65 Lilac Lane

1320 Arrive @ 4 Lilac Lane

James Phinney (417) - 753-9410

1330 Collect Gw-41

T°: 14.17°C

pH: 7.23

Spec. Cond: 278  $\mu\text{S}/\text{cm}$  ORP: 102.8

Campbell

10/7/10

1340 Arrive @ 1080 Chickory Road

David Spurgeon

(417) - 838-9909

1350 Collect Gw-42

T°: 14.63°C

Spec. Cond 225  $\mu\text{S}/\text{cm}$ 

pH: 6.88

ORP: 125.6

1400 Arrive @ 762 Red Bud

Clayton Stanberry

(417) - 753-9440

1410 Collect Gw-43

T°: 14.26°C

Spec. Cond: 273  $\mu\text{S}/\text{cm}$ 

pH: 5.60

ORP: 174.7

1440 Arrive @ 682 Corner Road

Nathan Lewis

(417) - 830-9663

1450 Collect Gw-44

T°: 15.52°C

Spec. Cond: 273  $\mu\text{S}/\text{cm}$ 

pH: 6.88

ORP: 141.4

Campbell

10/7/10

1500 Arrive @ 482 Corner Road  
Podorfki Residence  
(417)-753-3133

1510 Collect GW-45  
T°: 15.01°C  
Spec. Cond: 311  $\mu\text{S}/\text{cm}$   
pH: 7.24  
ORP: 100.2

1515 Arrive @ 440 Corner Road  
Laurie Thomas  
(417)-818-1754

1525 Collect GW-46  
T°: 14.54°C  
Spec. Cond: 307  $\mu\text{S}/\text{cm}$   
pH: 6.65  
ORP: 172.2

1535 Arrive @ 7320 East County line Rd

1545 Collect GW-47  
T°: 14.74°C  
Spec. Cond: 336  $\mu\text{S}/\text{cm}$   
pH: 7.31  
ORP: 74.8

1605 Arrive @ 10014 East Farm <sup>T.S.</sup> Road 170

*Confring*

10/7/10

1615 Collect GW-48  
T°: 14.89°C  
Spec. Cond: 215  $\mu\text{S}/\text{cm}$   
pH: 5.93  
ORP: 145.0

1620 Arrive @ 9731 East Farm Rd 170  
Jaquie Ford  
(417)-693-5294

1630 Collect GW-49  
T°: 14.44°C  
Spec. Cond: 199  $\mu\text{S}/\text{cm}$   
pH: 7.51  
ORP: -34.3

1640 Arrive @ 6099 South State Hw VV  
Gripp Residence  
(702)-622-4683

1650 Collect GW-50  
T°: 16.39°C  
Spec. Cond: 365  $\mu\text{S}/\text{cm}$   
pH: 7.27 pH  
ORP: 96.6

1700 Arrive @ 6452 State Hw VV  
Debbie Stewart  
(417)-753-2841

*Confring*



10/7/10

1710

Collect GW-51

T°: 15.65°C

Spec. Cond: 349  $\mu\text{S}/\text{cm}$ 

pH: 6.35 pH

Oup: 106.4

1720

Collect field blank

1730

leave Rogersville & check out  
of the Comfort Inn

2100

Arrive @ KC office.

12/13/10

## Phase III Sampling

1030

leave TREMI-KC. Drive to Site

1450

Arrive @ 299 Old Buggy Rd

Resample well for VOCs (double  
volume for MS/MSD) GW-1

1500

Collect GW-1 pH - 6.97Cond - 307  $\mu\text{S}/\text{cm}$  Temp (°C) 10.94°C

1512

Arrive @ lumber yard to pick  
up 15' hose

1526

Arrive @ 9951 E. Joel Drive.  
Discuss sampling activities w/  
property owner. This property  
is served by the well @  
6402 S. Rebecca Pl.

1532

Arrive @ 6402 S. Rebecca Pl.  
No one is home for access to  
well.

1534

Arrive @ 9951 E. Joel Drive.  
GPS: 37.09278, -93.07732  
Collect GW-2 from hydrant  
in front yard.

1540

Collect GW-2 pH - 6.93

Cond - 304 Temp - 11.89°C

1547

Arrive @ 6374 S. Rebecca Pl  
Access Granted to sample wellGW-3



12/13/10 (continued)

This well also serves the residents @ 6316 S. Rebecca Pl.

1555 Collect Sample GW-3

pH - 7.11 Cond - 419

Temp - 11.05°C

GPS: 37.09293, -93.07629

1610 Arrive @ 6268 S. Rebecca Pl

Noone home to access well

1613 arrive @ 6210 S. Rebecca Pl

Discuss sampling activities with property owner. Access

Granted to sample well. GW-4

GPS: 37.09570, -93.07648

1615 Collect GW-4 pH - 7.00

Cond - 393 Temp - 10.43°C

1622 arrive @ 6213 S. Rebecca Place

Noone is home for access to well.

1625 arrive @ 6277 S. Rebecca Pl

Noone is home for access to well.

1627 arrive @ 6325 S. Rebecca Pl

Owner stated the well was recently sampled for VOCs and was non-detect (new home purchased).

GPS: 37.09412, -93.07696

12/13/10

1637 arrive @ 5352 S. F.R. 247

TCE in last gw sample @ 5.8 ppb.

A pretreatment GW-5 and

post treatment GW-6 ~~sample~~

sample will be collected.

1645 collect pre-treatment sample

GW-5 pH - 7.60

SC - 424 Temp - 12.89°C

1650 collect post-treatment

sample GW-6

1700 Property owner @ 9341 E.

FR. 18U. Denied Access to

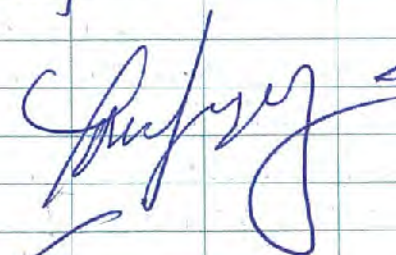
resample well. Previous TCE

datum for this well was

4.5 ppb.

1730 arrive @ hotel. End of

day.





12/14/10

- 0830 Meet in hotel. Conduct daily tailgate safety mtg.
- 0840 Attempt to contact property owners for access to wells.
- 0930 Leave hotel, drive to site
- 1009 Arrive at 10150 Carter St.
- 1015 collect gw sample GW-7  
pH - 7.41 Cond - 371  
Temp - 12.89°C
- 1044 Arrive @ 10074 E. FR. 186
- 1050 Collect gw sample GW-8  
pH ~~11.24~~ 6.59 Cond - 786  
~~pH 6.54~~ Temp - 14.24°C
- 1100 Arrive @ 9372 E. FR. 186  
A pre-treatment sample GW-9  
and post-treatment sample GW-10 will be collected.
- 1110 Collect pre-treatment sample GW-9 pH 6.89 Cond 326  
Temp 14.83
- 1115 Collect post-treatment sample GW-10
- 1120 Arrive @ 9353 E. FR. 186
- 1130 Collect gw sample GW-11  
pH - 6.44 Cond 389 Temp 13.60

12/14/10

- 1132 Arrive @ 9243 E. FR. 186
- 1140 Collect gw sample GW-12  
pH - 7.28 Cond - 347 Temp - 14.48°C
- 1144 Arrive @ 9206 E. FR. 186  
No one is home for well access
- 1147 Arrive @ 9123 E. FR. 186  
Residence is served by well @ 9145 E. FR. 186  
(land lord of 9123 E. FR. 186)
- 1150 Arrive @ 9145 E. FR. 186  
Access Denied
- 1152 Arrive at 9039 E. FR. 186  
Access Granted to sample.  
well was previously sampled  
(TCE = 1.1 ppb) by EPA.
- 1200 Collect gw sample GW-13  
pH 7.37 Cond 347  
Temp 14.18°C
- 1217 Lunch
- 1249 Arrive at 5952 S. FR. 249  
GPS: 37.10103, -93.08294
- 1255 Collect gw sample GW-14  
pH - 7.12 Cond 374 Temp - 14.21°C
- 1258 Arrive @ 5969 S. FR. 249. Discuss sampling with property owner  
Access Denied



12/14/10

- 1305 Arrive @ 6055 South FR 249  
Access Granted.  
GPS: 37.09900, -93.08344
- 1315 Collect Gw sample GW-15  
pH - 7.03 Cond - 332 Temp 11.95°C
- 1320 Arrive @ 6414 S. FR. 249  
Access Granted to sample  
GPS: 37.09234, -93.08310
- 1330 Collect Gw sample GW-16  
pH - 7.01 Cond - 370 Temp 14.12°C
- 1336 Arrive @ 6553 S. FR. 249  
Access Granted  
GPS: 37.08996, -93.08381
- 1345 Collect gw sample GW-17  
pH 7.22 Cond - 342 Temp 14.88°C
- 1351 Arrive @ 1098 S. FR. 249  
Access Denied
- 1357 Arrive @ 1013 S. FR. 249  
Noone home for well access
- 1402 Arrive @ 8228 E. County line Road  
Access Granted  
GPS: 37.08873, -93.08418
- 1410 Collect gw sample GW-18  
pH - 7.29 Cond - 368 Temp 14.43°C

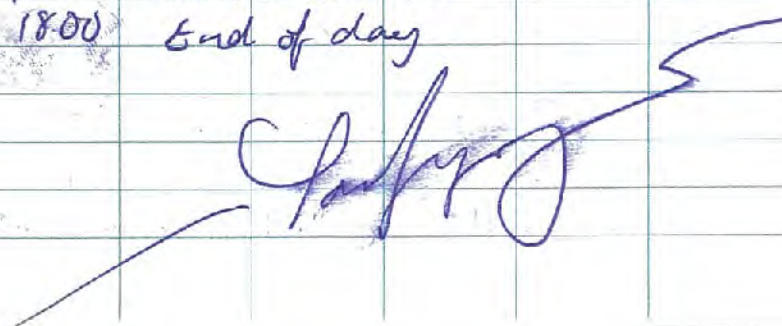
- 1413 Arrive @ unknown address E. County  
line Rd. Noone is home  
for well access. Property is  
on N side of E. County line Rd  
and ~250 ft west of S. FR 249
- 1416 Arrive @ 8186 & 8194 E. County line  
Rd. Noone is home @ either  
address for access to well  
(possible shared well)
- 1422 Arrive @ 9581 E. County line Rd  
Access Granted  
GPS: 37.08958, -93.08594
- 1435 Collect gw sample GW-19  
pH - 7.33, Cond - 369 Temp - 12.40°C
- 1438 Arrive @ 8140 E. County line Rd  
Noone is home for well access
- 1441 Arrive @ 8106 E. County line Rd  
Noone home for well access
- 1444 Arrive @ 9545 E. FR 194  
Access Granted  
GPS: 37.08949, -93.08726
- 1455 Collect gw sample GW-20  
pH - 6.94 Cond - 356 Temp 12.19°C  
GW-20 is double volume  
MS/MSD sample.



12-14-10

- 1459 Arrive at 8040 E. County Line Rd  
Noone is home for access
- 1515 Fuel up START vehicle
- 1524 Arrive at 5480 S. F.R. 247.  
A pre-treatment sample (GW-21)  
and post-treatment sample (GW-22)  
will be collected
- 1535 Collect pre-treatment sample GW-21  
pH: 7.14 Cond 371 Temp 13.92°C
- 1540 Collect post-treatment sample  
GW-22
- 1549 Arrive @ ~~5660~~ 5660 S.F.R. 247  
The main house and guest house  
both have a carbon filtration  
system. Noone is home.
- 1552 Arrive at 5673 S.F.R. 247.  
Previous TCE datum for this well  
is 1.1 ppb. Access granted to  
resample well.
- 1605 Collect gw sample GW-23  
pH: 6.88 Cond 336 Temp 13.90
- 1613 Arrive at 8953 E. FR. 186  
Access granted to resample  
well. Previous TCE datum was  
0.66 ppb.

12-14-10

- 1620 Collect gw sample GW-24  
pH 6.90 Cond 331 Temp 13.26
- 1624 Arrive @ 5895 S. FR. 249  
Noone is home for well access.
- 1632 Arrive at 6268 South Rebecca  
Place. Access granted to sample  
well. GPS: 37.09504, -93.07627
- 1640 Collect gw sample GW-25  
pH 7.14 Cond 325 Temp 9.68°C
- 1642 Arrive at 6213 S. Rebecca Place.  
Noone is home for access to well.
- 1644 Arrive at 6277 S. Rebecca Place.  
Noone is home for access to well.
- 1700 Arrive at 5412 S. FR. 247.  
Access granted to sample well.  
GPS: 37.11050, -93.08681
- 1710 Collect gw sample GW-26  
pH 7.15 Cond 386 Temp 13.65
- 1744 Arrive at hotel
- 1800 End of day
- 



12-15-10

0830 Meet in hotel & prepare for day's activities. Conduct daily tailgate safety mtg. Discuss project activities.

0900 Leave hotel

0931 Arrive at 8040 E. County Line Rd. MDNR sampled well in June '10 (VCS = NO). Property owner provides MDNR notification letter for review. Access Denied for sampling well.

This well also serves residences at 8106 & 8140 E. County Line Rd.

0944 Arrive at 9415 E. County Line Rd

0955 Collect gw sample GW-27

pH: 6.80 Cond 394 Temp 13.72

GPS: 37.08944, -93.09055

1002 Arrive at 7802 E. FR. 194

Access Denied for sampling well.

1011 Arrive at 9416 E. County Line Rd

Access Granted to sample well

GPS: 37.08818, -93.06285

1020 Collect gw sample GW-28

pH: 7.11 Cond 294 Temp 12.25°C

12-15-10

1022 Arrive at 9330 E. County Line Rd

1030 Collect gw sample GW-29

pH 7.17 Cond 276 Temp 11.99°C

1033 Arrive at 9429 E. County Line Rd

1040 Collect gw sample GW-30

pH 7.41 Cond 318 Temp 14.80

1045 Arrive @ 42 Corner Road

Access Granted to sample

GPS: 37.08929, -93.06200

- this well also serves the residence at 10 corner road.

1055 Collect gw sample GW-31

pH: 7.14 Cond 318 Temp 14.77°C

1057 Arrive @ 94 corner road

Residence uses well at

110 corner road.

1100 Arrive @ 110 corner road

Access Granted to sample.

GPS: 37.09025, -93.06183

1115 Collect gw sample GW-32

pH 6.71 Cond 289 Temp 10.11

1126 Arrive @ 10074 E. FR 186

Discuss project activities w/ EPA.

1137 Arrive @ 5660 S. FR. 247



12/15/10

1137 (continued)

Collect pre-treatment and post-treatment samples from main house, and post treatment sample from guest house.

1145 Collect pre-treatment, main house gw sample GW-33  
pH 6.88 Cond 372 Temp 13.51

1155 Collect post-treatment main house gw sample GW-34

1205 Collect post-treatment, guest house gw sample GW-35

1210 lunch

1236 Arrive @ 5884 S. FR 241  
Noone home for access.

1239 Contact STM Eugemann to discuss findings from review of legal documents from Greene Co. courthouse

1243 Arrive @ 5836 S. FR. 241  
Access granted to sample  
GPS: 37.10335, -93.10123

1255 Collect gw sample GW-36  
pH 7.10 Cond 316 Temp 14.36

1300 Arrive at 6022 S. FR. 241

Access granted to sample  
GPS: 37.10025, -93.10126

1310 Collect gw sample GW-37  
pH 6.82 Cond 307 Temp 14.09

1318 Arrive @ 6026 S. FR. 241  
Noone is home for access.

1325 Arrive @ 6049 S. FR. 241  
GPS: 37.09922, -93.10325

1335 Collect gw sample GW-38  
pH 7.09 SC. 338 T 14.64°C

1354 Arrive at 6060 S. FR. 249  
GPS: 37.09919, -93.08244

1400 Collect gw sample GW-40  
pH 7.42 Cond 389 T. 15.07

1405 Arrive at 6257 S. FR. 249  
GPS: 37.09549, -93.08353  
Noone is home to sample well, previously spoke with  
GPA: re sampling well.

1455 Arrive back to hotel, prepare gw samples and CDCs for delivery to lab.

1707 End of day


*Confer*



12-16-10

- 0830 Meet in hotel breakfast area.  
Prepare for day's activities.  
Conduct daily tailgate safety meeting. Discuss project activities.  
Call for access to properties.
- 1000 Arrive @ 6097 S. State Hwy 125
- 1009 Collect gw sample GW-41  
pH 6.20 Cond 645 T 14.23
- 1015 Collect field blank sample
- 1030 Arrive @ 7260 E. County Line Rd
- 1035 Collect gw sample GW-42  
pH: 6.80 Cond 358 T 14.51
- 1044 Arrive @ 7118 E. County Line Rd
- 1050 Collect gw sample GW-43  
pH 6.55 Cond 405 T 14.06
- 1116 Arrive at 8378 E. FR. 186
- 1125 Collect gw sample GW-44  
pH 6.87 Cond 452 T 14.66
- 1134 Arrive at 6001 S. FR. 249
- 1140 Collect gw sample GW-45  
pH: 7.00 Cond 346 T 14.11°C
- 1150 Arrive at 6376 S. FR. 249
- 1200 Collect gw sample GW-46  
pH 7.08 Cond 348 T 13.42

- 1320 Arrive @ 4774 S. FR. 249
- 1330 Collect gw sample GW-47  
pH 7.16 Cond 378 T 12.11°C
- 1339 Arrive at 4796 S. FR. 249
- 1345 Collect gw sample GW-48  
pH 7.12 Cond 314 T 13.60
- 1402 Arrive @ 5757 S. FR. 241
- 1410 Collect gw sample GW-49  
pH 7.27 Cond 310 T 14.09
- 1419 Arrive @ 5632 S. FR. 241
- 1430 Collect gw sample GW-50  
pH 7.18 Cond 335 T 13.58
- 1435 Drive back to T&E office





12-16-10 9267 E. FR. 186

This is a transcription of notes  
collected on 12-16-10

Collect gw sample GW-56 main well

pH 7.40 Cond 429 T 13.15°C

Collect gw sample GW-57 aux well

pH 7.42 Cond 353 T 14.53

1025 Collect gw sample GW-58

pH 7.35 Cond 562 T 12.07

Danny S. Morilyn Gryden

10152 E. FR. 186

Collected double volume for MS/MSD

1049 Collect gw sample GW-59

pH 7.39 Cond 420 T 13.29

Lore Cole

5454 S. FR. 241

pH 7.39 Cond 420 T 13.29

1163 Collect gw sample GW-60

pH 7.62 Cond 359 T 12.78°C

Bob Starr 37.095307, -98.083604

6275 S. FR. 249

1120 Collect gw sample GW-61

pH 7.56 Cond 30 T 12.62

David Spurgeon

1080 Chisley Road

1140 Collect gw sample GW-62  
pH 7.59 Cond 247 T 13.37°C

Jacque Ford

9731 E. FR. 170

1305 Collect gw sample GW-63

pH 7.63 Cond 274 Temp 6.86°C

Juanita Wakefield

6684 E. FR. 184

1333 Collect gw sample GW-64

pH 7.53 Cond 368 T 16.57°C

Bob Cassin ~~32~~ T.S.

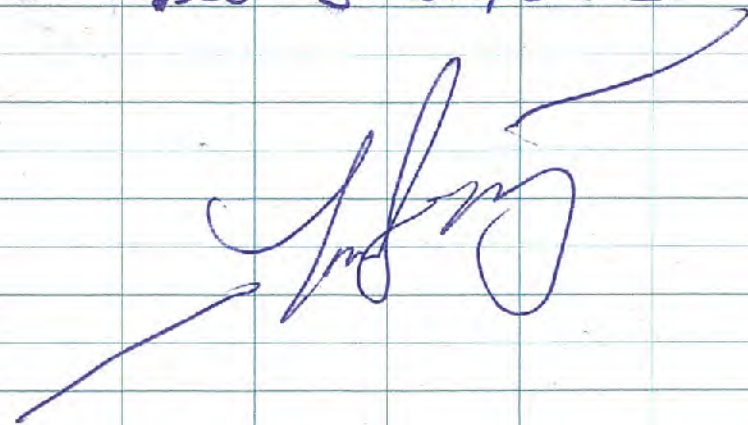
326 Williams

1404 Collect gw sample GW-65

pH 7.43 Cond 355 T 14.13°C

~~1404~~ James Garrett

7320 E. County Line Rd





12/29/10

1030 leave KC office for EPA  
caves.

11:00 Pick up sampling equipment

11:30 leave KC for Rogersville

14:45 Arrive in Rogersville @ site.

1510 Collect gw sample GW-51  
from Larry Wray's new  
well. This sample is pre-  
treatment collected at  
the well head.

1515 Collect gw sample GW-52  
from Larry Wray's house. This  
sample is post-treatment.  
pH. 7.22 Cond 292 T 15.0°C

1545 leave Rogersville for KC office

1830 Arrive at KC office, completed  
for day

*[Signature]*



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Compass Plaza Well  
TCE Site

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Book #2



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## CONTENTS

PAGE

REFERENCE

DATE



02-22-2011 Compass Plaza Well TCE

Summary: Mobilize to Rogersville, MO conduct sampling of residential properties.

Weather: Clear, 48°F

0730 - START team members Mark Kitchens + Gregory Dillon arrive at Tetra Tech and prepare supplies for sampling.

0800 - Depart Tetra Tech for Rogersville, MO via Hwy 71 S.

0824 - Refuel vehicle. Continue to Rogersville, MO

0940 - STM Dillon speaks to EPA OSC Doug Ferguson regarding sampling plan. Tentative plan is to meet w/ Ferguson in the afternoon for joint sampling.

1115 - 1145 Lunch in Springfield, MO

1145 - Depart Springfield for Rogersville, MO.

Delayed entry: 1055 - Dillon receives call from EPA Ferguson stating that a meeting will keep him from mobilizing till the morning of 2-23.

1215 - Arrive at 9243 East Farm Rd 186. Owner not present. Information sheet left at front door.

1220 - Conduct bump test of YSI.

pH 7.0  $\Rightarrow$  7.4

ORP 240  $\Rightarrow$  271.8  $\Rightarrow$  cal  $\Rightarrow$  242.9

Cond 1413  $\Rightarrow$  1188  $\Rightarrow$  cal  $\Rightarrow$  1179

parameter did not respond to calibration.

 - 2/22/2011

2/22/2011 Compass Plaza Well TCE

1245 - Arrive at 6248 State Highway VV. Owner not present. Info. sheet left.

1250 - Arrive at 6230 State Hwy VV. Owner not present. Info. sheet left.

1300 - Speak w/ owner Edward Maggard at 6449 State Hwy VV. Permission granted to sample.

1315 - Arrive at Maggard residence. Speak w/ home owner regarding the sampling. Nearest spigot located SW of house on gray shed.

1330 - Begin purge. Water quality parameters (WQ) consult field sheet.

1337 - Collect 5255-1. MS/MSD.

1345 - Ray Birchler arrives at residence to speak with STM regarding EPA's role in water regulation. Dillon provides info for EPA OSC Ferguson and personal contact info., including exchanging telephone info.

1420 - Arrive at 6457 State Hwy VV. Owner not present. Info sheet left.

1435 - Arrive at 6471 State Hwy VV. Permission granted to sample. Begin purge.

1500 - Arrive at 6535 State Hwy VV. Owner Stan Smith. Smith. Permission granted to sample.

1505 - Begin purge. WQ parameters check field sheet.

1512 - Collect sample 5255-3



2/22/2011 Compass Plaza Well TCE

1530 - Arrive at 6509. State HWY VV. Owner Nancy Lewis grants permission to sample.

1540 - Begin purge. W2 on field sheets.

1547 - Collect sample # 5255-4

Late entry: 1452 Collect sample # 5255-2

1630 - Arrive at 237 Elm Grove Road. Owner Andrea

Adams present. Grants permission to sample. STM Dixon will call back to obtain well information.

1638 - Begin purge.

1645 - Collect sample # 5255-5

1705 - Arrive at 177 Elm Grove Road. Owner John + Markene Riggs grant permission to sample well. Owner of residence is actually Tom Gould call 417-655-4476. Riggs are tenants.

1710 - Purge well.

1720 - Collect sample # 5255-6

1740 - Arrive at 9243 East Farm Road 184. Owner Mitty Smith grants permission to sample.

1745 - Begin purge

1752 - Collect sample 5255-7

1800 - Depart for Springfield, MO.

1830 - Arrive at FedEx Express Ship Center at 2221 E. Olive Ct. Ship samples to EPA Lab.

1900 - End of Day

LRD - 2/22/2011

2/23/2011 Compass Plaza Well TCE

Summary: Conduct private well sampling

Weather: Cloudy, chance of precip 40%, High 54°F

0730 - Dixon performs bump test on YSI

pH: 7.0 → 7.08 OK

Sp. Cond 1413 → 1359 OK

ORP 240 → 224.1 OK

No calibration necessary.

0745 - STM Dixon + Kirschner depart hotel for stop for supplies.

0800 - Arrive at Wal-Mart to purchase supplies

0815 - Depart for Rogersville, MO.

0840 - Arrive at 1013 Elm Grove Road. Owner Rich Gray grants permission to sample.

0850 - Begin Purge.

0858 - Collect Sample # 5255-8

0915 - Refuel vehicle buy ice for samples.

0920 - Arrive at 1058 Elm Grove Road. Deana + Lonella Claiborne grant permission to sample. Will grab sample from tap post filtration.

0925 - Begin purge.

0938 - Collect sample # 5255-9

0939 - Purge began in ~~tap~~ at kitchen tap at 0936

0940 - Collect sample 5255-10 from tap information provided to Deana Claiborne to contact

GRD - 2/23/2011



2/23/2011 Compass Plaza West TLE

0940 cont. EPA OK Ferguson regarding sampling.

1000 - Arrive at 1098 Elm Grove Road. Owner Simon

Prutis grants permission to sample. Sample will be tap sample post Reverse Osmosis / UV filter. Water from same well as Claiborn residence.

1005 - Begin purge.

1014 - Collect sample 5255-11 post treatment.

Owner of 1098 has changed Pam Richter. MS.

Richter informed STM Dillon of differing info regarding well. The wellhead that she and the Claiborn's share is in her yard and the well on the Claiborn's property is a line from her wellhead. STM's will collect sample from wellhead.

1020 - Begin purge.

1028 - Collect sample 5255-12 pre-treatment

1040 - Arrive at 718 Hedgpeth owner Dick Wilson.

Do not grant permission to sample.

1048 - Arrive at 744 Hedgpeth. Owner Olga Verdernikov does not grant permission to sample.

1055 - Arrive at 1175 Hedgpeth Road. Owner Eugene Hedgpeth initially grants permission to sample. Mr Hedgpeth receives a phone call from son and he inquires about sampling. He informs Dillon they will not grant access to sample.

*SRD* 2/23/2011

2/23/2011 Compass Plaza West TLE

1115 - Arrive at 1200 Hedgpeth Road. Owner Tommy Pendergrass grants permission to sample.

1118 - Begin purge.

1124 - Collect sample #5255-13. Depart for Rogersville.

1130 - 1200 Lunch

1200 - Depart Rogersville for Hedgpeth Road.

1210 - Arrive at 1300 Hedgpeth Road. Owner Janet Hedgpeth grants permission to sample. Well shared by three households. Newest spigot to wellhead is located in work shed N of wellhead.

1223 - Begin purge

1230 - Collect sample #5255-14

1250 - Arrive at 832 Elm Grove Road. Owner not present. Info left.

1300 - Arrive at 767 Elm Grove Road. Owner not present. Info left.

1305 - Arrive at 555 Elm Grove Road. Owner not present. Info left.

1310 - Arrive at 543 Elm Grove Road. Owner not present. Info left.

1320 - Arrive at 486 Elm Grove Road. Owner not present. Info left.

1325 - Arrive at 459 Elm Grove Road. Owners Well

*SRD* 2/23/2011



## 2/23/2011 Compass Plaza Well TCE

- 1325 - cont already sampled on 5255-14.  
 1328 - Arrive at 324 Elm Grove Road. Owner Mark Jernigan grants permission to sample.  
 1332 - Begin purge  
 1340 - Collect sample # 5255-15  
 1350 - Arrive at 1885 Hedgpeth Road. Owner not present. Info. left.  
 1355 - Arrive at 1917 Hedgpeth Road. Owner not present. Info. left.  
 1400 - Spoke w/ STM Tom Scroggin regarding some sample discrepancies w/ EPA Region 7 lab. Issues will be addressed.  
 1410 - Arrive at 1917 Hedgpeth Road. Owner not present. Info. left.  
 1420 - Arrive at 2013 Hedgpeth Road. Owner Lisa Allec present grants permission to sample.  
 1426 - Collect purge well.  
 1436 - Collect sample # 5255-16  
 1445 - Arrive at 2111 Hedgpeth Road. Owner not present. Info. left.  
 1450 - Arrive at 2135 Hedgpeth Road. Owner present Terry Burks grants permission to sample.  
 1452 - Purge well  
 1500 - Collect sample # 5255-17

LRD - 2/23/2011

## 2/23/2011 Compass Plaza Well TCE

- 1515 - Arrive at 2171 Hedgpeth Road. Owner not present. Info left. Owner actually present just outside of house in outbuilding. Vickie Grannaway grants permission to sample.  
 1536 - purge well.  
 1542 - Collect sample # 5255-18  
 1600 - Arrive at 1457 Hedgpeth Road. Owner not present. Info. left.  
 1605 - Arrive back at 543 Elm Grove Road. Sara Young present grants permission to sample.  
 1607 - Purge well.  
 1614 - Collect sample # <sup>GRD</sup> 5255-19  
 1620 - Arrive back at 555 Elm Grove Road. Not present.  
 1640 - Arrive at 6320 State Hwy VV. Owners Jason + Kimberly Wilson grant permission to sample.  
 1642 - Begin purge  
 1652 - Collect sample # 5255-20  
 1700 - Arrive at State Hwy VV. Owner not present. Info. left.  
 1710 - START Dillon contracts Larry Bledsoe 6457 State Hwy VV. Permission granted to sample.  
 1712 - Arrive at Bledsoe residence, begin purge.  
 Photo #01, 02, 03, 04



2/23/2011 Compass Plaza Well TE

1722 - Collect sample # 5255-21 MS/MSD.

1740 - Depart for Rogersville for Springfield, MO.

STM Dillon contacts home owners regarding sampling on 2/24/11. Contact + appointments are made with 5 home owners.

1818 - Arrive back at hotel in Springfield to pick samples, finalize Field sheets + make copies of field sheets + CDC.

1848 - Arrive at Fedex to drop off sample cooler for delivery to EPA Region 7 lab.

1900 - End of Day

YRD  
2/23/2011

2-24-2011 Compass Plaza Well TE

Summary: Private well sampling, mobilize to KC, MO.

Weather: 100% chance of T-storms. High 54°F.

0730 - STM Dillon + Kitchens depart Springfield for Rogersville, MO.

0740 - Receive call from Becky Alexander at 1885 Helgosh Road. Grants permission to sample. Will not be present.

0815 - Arrive at Alexander residence. Dillon conducts bump test w/ YSE

pH 7  $\Rightarrow$  7.14 cal.  $\Rightarrow$  7.00

4  $\Rightarrow$  4.12 cal  $\Rightarrow$  4.00

10  $\Rightarrow$  9.74 cal.  $\Rightarrow$  9.90

Sp Cond  $\Rightarrow$  1390 OR

ORR 240  $\Rightarrow$  287 OK

0830 - Purge well

0840 - Collect sample # 5255-22

0850 - Arrive at 1374 Santa Fe. Owner Deborah Wehner made appointment 2/23/11 for morning of 2/24 before 10:30, not answering door.

0900 - Deb Wehner grants permission

0905 - Begin purge

0914 - Collect sample # 5255-23

0922 - Arrive at 1023 Santa Fe. James Wheat grants permission to sample.

YRD - 4/24/2011



2/24/2011 Compass Plaza Well TCE

0924 - purge well.

0932 - Collect sample # 5255-24

0942 - Arrive at 587 Santa Fe. Owner Donnie

Liles grants permission to sample.

0944 - purge well

0952 - Collect sample # 5255-25

091005 - Arrive at 149 Santa Fe Road. Owner Raymond

Harville present, grants permission to sample.

1012 - Begin purge

1024 - Collect sample # 5255-26

1028 - Harville contacts neighbor Earline Davis to inquire about sampling. Grants permission to sample.

1035 - Arrive at 363 Santa Fe Road. Owner Earline Davis present.

1042 - Begin purge.

1052 - Collect sample # 5255-27

1105 - Dillon contacts Brenda & Steve Szwarcengia at 1800 Santa Fe Road makes an appt. for ~12:15.

1115 - 1145 Lunch

1145 - Depart for Santa Fe Road

1210 - Arrive at 1800 Santa Fe Road. Dillon speaks w/ Szwarcengias regarding sampling.

1212 - Begin purge.

*JR* 2/24/2011

2/24/2011 Compass Plaza Well TCE

1226 - Collect sample # 5255-28

1240 - Arrive at 1655 Santa Fe Road. Owner info not correct. Greg McKinney current resident grants permission to sample.

1250 - Begin purge

1302 - Collect sample # 5255-29

1330 - Arrive at 1588, 1571, 1413 Santa Fe Road. No owners present at residences. Continue on Santa Fe Road.

1332 - Arrive at Jack & Angela Dold residence at 724 Santa Fe Road. Dold grants permission to sample. Begin purge

1338 - Begin purge

1346 - Collect sample # 5255-30

1405 - Speak w/ Doug Ferguson DSC. Plan to meet ~1800 in Rogersville to talk about sampling

1410 - Arrive at 1917 Hedgpeth Road. Residents share well with 1885 Hedgpeth Road.

1415 - Arrive at 1963 Hedgpeth Road. Owner not present.

1422 - Arrive at 2111 Hedgpeth Road. No owner present

1430 - Arrive at 6248 State HWY VV. Owner not present.

1440 - Collect sample # 5255-62-FB

1450 - Dillon & Kitchens call residents. Two

*JR* 2/24/2011



## 2/24/2011 Compass Plaza Well TCE

1450 cont. - residents grant permission.

1525 - Arrive at 1296 Finbrooke Road. Owner does not grant permission to sample. Leave info.

1535 - Arrive at 576 Finbrooke Road. Jimmy Brown grants permission to sample.

1544 - Begin purge

1554 - Collect sample # 5255-31

1605 - Arrive at Linda Mason's residence located at 1293 Finbrooke Road.

1620 - Begin purge. Well services 9 households including the Mason residence. The other 8 are part of a mobile home park.

1630 - Collect sample # 5255-32. Photos taken. Speak w/ OSE Ferguson and plan to meet in Rogersville to discuss sampling for the week.

1655 - Arrive in Rogersville and meet w/ OSE Ferguson to discuss sampling progress.

1735 - Depart Rogersville for Kansas City, MO.

1900 - STM Dillon + Kitchens stop to refuel vehicle.

2130 - Arrive back at Tetra Tech, Kansas City, MO. End of Day

*[Signature]* 2/24/2011

## 2/25/2011 Compass Plaza Well TCE

Summary: Process samples, deliver to EPA Region 7 Lab.

0900 - Dillon arrives at Tetra Tech. Unloads supplies processes samples.

1015 - Latz entry: 2/24/11 14:42 Trip Blank labeled.

1100 - Samples for ASR#5255 delivered to EPA Region 7 Laboratory Kansas City, KS

1115 - Return to Tetra Tech, complete work on field documentation, expense report.

1400 - End of Day

*[Signature]* 2/25/2011



3/7/2011

- 0830 Prepare supplies & equipment for sampling activities.
- 0930 Conduct takegate health & safety meeting, discuss QAPP
- 10:00 Leave KC office for Rogersville Missouri
- 12:05 fuel up vehicle
- 13:05 Arrive in Rogersville @ Gene Wells property  
9372 East Farm Road 186
- 13:32 Collect pre-treatment sample at spigot on wellhouse  
5295-1  
Temp 13.31°C Spec Cond 301  $\mu\text{S}/\text{cm}$   
pH 7.52 ORP 116.4
- 13:37 Collect post-treatment sample at kitchen sink  
5295-2  
Meter Reading: 003772 [10]  
owner discusses well, well pulled a few years ago, 350-400' depth
- 13:45 Drive to Allie Rogers residence  
5480 South Farm Road 247
- 14:09 Collect pre-treatment sample

3/7/11

- Cont.: at hydrant nearest the well head. 5295-3  
Temp: 12.74°C Spec Cond. 331  $\mu\text{S}/\text{cm}$   
pH 6.51 ORP: 221.8
- 1414 Collect post-treatment sample at kitchen sink 5295-4  
meter reading 000949 [10]  
Red dial @ 3.1
- 14:24 Drive to Larry Wray's residence  
10074 East Farm Road 186
- 14:53 Collect pre-treatment sample at hydrant nearest the well head  
5295-5  
Temp: 14.74°C Spec Cond 259  $\mu\text{S}/\text{cm}$   
pH: 7.62 ORP: 96.9
- 1458 Collect post-treatment sample 5295-6  
at hydrant near the well house  
Drive to Scott Phipps residence  
5352 South Farm Road 247
- 1523 Collect pre-treatment sample at spigot on well-house vault  
Temp: 13.72°C Spec Cond 334  $\mu\text{S}/\text{cm}$   
pH 7.36 ORP: 6.3 5295-7
- 1528 Collect post-treatment sample



- at kitchen sink. 5295-8
- 1535 Prepare Trip blank sample  
5295-12
- 1540 Prepare Field blank sample  
5295-11
- 1600 Leave Rogersville for KC  
office
- 19:00 Arrive at office in KC  
End of day

*Am Jantz*

5/9/11

- 0730 Begin packing equipment @  
KC office.
- 0800 Leave KC office for Rogersville
- 11:00 arrive in Rogersville, meet w/  
gas utilities
- 11:30 Drive to Soil boring locations  
to check on saturation of  
soils & sinkholes
- 12:00 Meet w/ Ryan Lunt & Joel Harvester  
@ Compass Cleaners
- 1215 Conduct Tailgate H&S meeting  
& Review HASP
- 1330 Meet w/ gas utility
- 1400 meet w/ electricity utility & travel  
to sites for locates
- 1630 arrive @ 209 S Main St  
no well present @ residence
- 1700 arrive @ 302 David Lane  
to speak w/ owner about  
sampling surface water/sinkhole  
access Granted
- 1730 Drive w/ Doug Ferguson to houses  
around north side of Rogersville  
looking for houses with old wells.  
~~Gain access @~~



1830

Train access @  
to sample well / PID well casing  
leave Rogersville for hotel,  
finished for day.

1845

leave Rogersville for hotel,  
finished for day.

*[Handwritten signature]*

0980

arrive @ Compass cleaners  
speak w/ phone utilitiy for  
locates

0940

Begin SB-1

gray & orange clay from 0-4'  
to red clay at 4-6'  
Cherty true dolomite from  
7-8'

0945

Collected SB-1a / S367-1 0-1'00s  
GPS: 32.11585 -93.67488

GPS: 37.11585 -93.67488

0955

Collect SB-16 5367-2 8-7'05  
same GPS SB-1a

same GPS as 5B-1a

10:10

Begin SB-2

Gray & orange clay from 0-4'  
to Red clay 4-7'  
Refusal @ 7' BGS

Refusal @ '7' BGS

1015

Collect SB-2a 15367-3

GPS: 37.11579 - 93.07489

1030

collect SB-26 (5367-4)

Same GPS as SB-2a

1050

Mdb to Larry Wray's on  
East Fawn Road 186

East Fawn Road 156

11:10

Begin SB-3

0-6" Soil, 0.5-2 orange/grey  
clay, 2-3 grey moist clay.



5/10/11

3-4' orange/brown clay  
 4-5.5' clay w/ interbedded rock  
 5.5-8 red to red brown clay.  
 8-12' red clay w/ chert  
 mixed in. Could not  
 hole deeper due to refusal.

1130 Collect SB-3a 2-3' 5367-5

GPS 37.10303, -93.07529

1145 Collect SB-3b from 4-5.5' 5367-6

GPS Same as SB-3a

12:00 Lunch

1230 Begin SB-4

0-6" Soil, grey/orange clay 6"-3'

3'-6' orange clay w/ rock.

6-7' rock, 7-12' red clay

1305 collect SB-4a 5367-7 0-2'

GPS:

1315 Collect SB-4b 10-11' 5367-8

1

1345 Mob to drainage feature at  
 Larry Wray's

1355 Begin SB-5

0-1' Soil, 3" of chert, 1.25-4 red  
 clay w/ gray streaks of clay

4-8' red clay w/ interbedded  
 grey clay. 8-12 red clay w/  
 interbedded chert

1420 Collect SB-5a 0-1.5' 5367-9

GPS: 37.10312, -93.07861

1430 Collect SB-5b 11-12' 5367-10

GPS same as SB-5a

1445 Move to SB-6 near sinkhole  
 on Larry Wray's property.

0-3' medium-medium brown  
 clayey-soils 3-4 transition  
 to light brown soils

4-8 grey moist clays-soft

1455 Collect SB-6a 2-4' BGs

5367-11

GPS: 37.10341, -93.07875

1510 Collect SB-6b 10-12' BGs

5367-12

1525 Collect GW sample from  
 sinkhole @ Larry Wray's

5367-11a

@ SB-6 location

1550 Refuel vehicle

1610 Mob to Jimmy Wray's



- 1620 Look at sinkholes on property.  
 1635 Mob to SB-7  
 0-1 dark brown soils transition  
 to 2-4 medium brown clay  
 1655 Collect SB-7a 0-2' BGS  
15367-13  
 GPS 37.11063, -93.07545  
 1710 Collect SB-7b 10-12' BGS  
15367-14  
 GPS: same as SB-7a  
 1730 Leave Jim Wray's & meet w/  
 STMs @ Jamestown Plaza  
 1800 Pack sample cooler @ hotel  
 1830 Prop off samples @ Fedex.  
 finished for day

*Confused*

5/11/11

- 0750 Leave hotel for site  
 0820 arrive onsite @ Jim Wray's  
 0840 Mob to sinkhole location  
 0845 Begin SB-8  
 0-2' Dark brown soils  
 to medium brown clay 2-8'  
 8-12' orange/grey clay  
 12-16 orange/grey clay  
 16-20'  
 0924 Collect ~~8~~ SB-8a 0-2' BGS  
15367-15  
 GPS: 37.10970 -93.07816  
 0937 Collect SB-8b 8-10' BGS  
15367-16  
 0950 Collect SB-8c 22-24' BGS  
15367-17  
 10:00 Mob to SB-9, begin pushing  
 0-8' medium brown, 8-10 med  
 brown soils, 10-12 dark grey  
 soils/~~clay~~ clay. 12-16 dark  
 grey; 16-17 light brown,  
 17-19 dark grey, 19 rock-20



5/11/11

1022 Collect SB-9a 0-2' BGS

5367-18

1036 Collect SB-9b 18-20' BGS

5367-19

GPS: 37.10993, -93.07826

11:00 Mob to sinkhole across  
South Farm Road 253, noone  
home, mob +11:30 mob to 302 David Lane  
@ Carol Cummings to collect  
gw sample from sinkhole  
GPS: 37.11271, -93.06339pushed to 16' BGS could not get  
water, collected surface water  
sample 40' closer to the sinkhole.11:55 Collect SW-1 5367-130

clean/decon equipment

12:15 lunch.

12:45 Mob to

12:55 Begin SB-10 near sinkhole

13:10 Collect SB-10a from 0-2' BGS

5367-20 ms/msd

0-2 soils to gray clay

2-4 gray clay

5/11/11

4-8 orange/gray clay

8-12 Streaked orange-gray,  
black clay.

12-16' - red clay

1350 Collect SB-10b 8-10' BGS

5367-21collected from black streaked  
clay w/ PID reading @

2:40 PM

GPS: 37.10709 -93.07096

14:15 Mob to Jamestown development  
call Doug Ferguson OSC.14:20 speak w/ Renda Phipps  
& discuss sinkhole &  
he grants access to  
sample.15:00 speak w/ utilities @  
new location north of  
Jamestown Sedimentation  
pond.

15:20 Begin SB-11

0-4 rocky fill w/ gray/orange  
clay & soils

15:30 Collect SB-11a 0-2' BGS

5367-22



5/11/11

4-8' orange clay  
 8-12 red & grey clay  
 12-16 maroon clay w/ streaks

1545 collect SB-11b 14-16'

5367-23

GPS: 37.11269 -93.08093

1600 Mob to Scott Phipps residence

1616 Begin SB-12 @ south lake

GPS: 37.11151, -93.08582

Soils 0-2' to rocky orange clay  
 2-4' rocky clay, 4-8' rocky red  
 to orange clay w/ black  
 streaks. 8-12' orange to brown  
 grey clay w/ black streaks

1615 collect SB-12a 0-2' BGS

5367-24

1625 collect SB-12b 4-8' BGS

5367-25

1635 collect SB-12c 10-12' BGS

5367-26

Decon equipment

1700 Head to Reg. Springfield  
 Pack samples & ship to

EPA Lab

1830 End of Day

W/22

5/12/11

0900 Meet at Jamestown Place  
 w/ Doug Ferguson & Greene,  
 County Folks. (Danny? Mike?)

0920 Mob to 213 West Clinton St  
 Rogersville, MO

0930 Begin SB-13

GPS: ~~37.11992, -93.06261~~

37.11987, -93.06257

0-2' soils, 2-4' silty clay  
 4-6' medium brown silty clay  
 6-8' grey clay to brown,  
 8-12' medium brown hard clay  
 12-16 medium brown hard  
 clay

0950 collect SB-13a 0-2' BGS

5367-27

1010 collect SB-13b 4-6' BGS

5367-28

1025 collect SB-13c 14-16' BGS

5367-29

1035 collect SB-13d 18-20' BGS

5367-30

1135 Mob to Jamestown retention pond  
 collect surface water samples

5367-143



- 1215 ready  
 1300 Sampling nooting  
 1330 arrive @ unknown address on  
 652 watts Road  
 GPS: 37.09403, -93.05760 <sup>no one home</sup>  
 1340 arrive @ 691 Watts Road  
 GPS: 37.09377, -93.05579 <sup>no one home</sup>  
 1349 arrive @ 774 watts Road  
 GPS: 37.09215, -93.05767  
~~1500~~ arrive access granted  
 1355 collect 5367-1443 144  
 1500 arrive @ unknown address on  
 Chicory road  
 no one home  
 1518 arrive @ 239 Chicory Road  
 GPS: 37.09332, -93.03648  
 no one home  
 1523 arrive @ Strawberry Lane  
 spoke with son  
 1528 arrive @ Strawberry Lane  
 GPS: 37.09488, -93.03513  
<sup>27</sup>  
~~1535~~ collect 5367-1443 ~~144~~ 145  
 1550 arrive @ 255 Strawberry Drive  
 1555 collect 5367-1446

- 1610 Collect 5367-150 FB  
 field blank  
 1615 Collect 5367-151 FB  
 grip blank

Compass Plaza TCE

7-11-11

0900 STM's Scroggin and DeBruine meet  
@ KC Tetra Tech office, prepare to  
depart en route to Rogersville, MO

Compass Plaza TCE

7-11-11



## Compass Plaza TCE 7-12-11

- 0859 STM's Scroggin and DeBruine and EPA  
OSC Doug Ferguson depart hotel en route  
to Rogersville
- 0932 Arrive @ 798 Chickory, collect GW  
sample 5399-8
- 0954 Arrive @ 668 Chickory, property owner  
denies access
- 1002 Arrive @ 657 Chicory, property owner grants  
access, collect GW sample 5399-13
- 1023 Arrive @ unknown address on Wren Rd.,  
no one home
- 1043 Arrive @ 3576 State Hwy U, collect GW  
sample 5399-14
- 1106 Arrive @ 380 Audubon, property has  
already been sampled
- 1113 Arrive @ 186 Regal Rd., property owner grants  
access, collect GW sample 5399-15
- 1131 Arrive @ 299 Regal Rd., no one home
- 1134 Arrive @ 112 Regal Rd., <sup>to Cricket Lane</sup> no one home
- 1137 Arrive @ 144 Cricket Lane, property owner  
shares well from 164 Cricket Lane
- 1142 Arrive @ 164 Cricket Lane, no one home  
(144 Cricket Lane uses this well)
- 1145 Arrive @ 188 Cricket Lane, no one home

## Compass Plaza TCE 7-12-11

- 1148 Arrive back @ 144 Cricket Lane, will  
go ahead and collect GW sample even  
though well head is located @ 164  
Cricket Lane (shared well), collect  
GW sample 5399-16
- 1200 Arrive @ 137 Cricket Lane, no one home
- 1203 Arrive @ 222 Cricket Lane, no one home
- 1208 Arrive @ unknown address on Cricket Lane  
(earth contact home), speak w/ son of  
property owner, leave business card
- 1221 Lunch
- 1252 End lunch
- 1315 Arrive @ 229 Shiloh Rd., collect GW  
sample 5399-17
- 1434 Arrive @ 682 Rosemead Rd., collect GW  
sample 5399-18
- 1507 Arrive @ Jude Ranch, collect GW  
sample from Tallman Spring (5399-19)
- 1543 Arrive @ 723 Tallman Road, property  
owner grants access, collect GW sample  
5399-20
- 1620 Arrive @ 1104 Finnbrook Rd., gate is locked,  
will come back later to collect GW sample
- 1632 Arrive @ 8063 S. Farm Rd. 182, no one home



## Compass Plaza TCE 7-12-11

- 1637 Arrive @ 8022 S. Farm Rd. 182, no one home
- 1641 Arrive @ 7?18 S. Farm Rd. 182, gate is closed
- 1642 Arrive @ 5464 Simmental Lane, property owner denies access
- 1650 Arrive @ 7790 E. Farm Rd. 182, property owner grants access, collect GW sample 5399-21
- 1731 Arrive @ 5403 E. Farm Rd. 194, collect GW sample 5399-22 (collect triple volume)
- 1826 Arrive @ Walgreen's, buy Ziploc bags to fill w/ice and put in sample coolers
- 1830 Arrive @ hotel, prepare samples and paperwork for FedEx shipment
- 1909 Arrive @ FedEx, prepare packaging slip and drop off cooler for shipment
- 1921 Arrive @ hotel, end of day

Jim DeBruin  
7-12-11

## Compass Plaza TCE 7-13-11

- 0912 STM's DeBruine and Scroggin and EPA OSC Ferguson depart hotel en route to Rogersville
- 0944 Fuel up rental vehicle
- 0956 Arrive @ 7918 East Farm Rd. 182, property owner grants access, collect GW sample 5399-23
- 1024 Arrive @ 7631 East Farm Rd. 182, no one home
- 1029 Arrive @ 7350 East Farm Rd. 182, no one home
- 1035 Arrive @ 7266 East Farm Rd. 182, no one home
- 1039 Arrive @ 7205 East Farm Rd. 182, property owner denies access
- 1043 Arrive @ 7196 East Farm Rd. 182, property owner grants access, collect GW sample 5399-24
- 1104 Arrive @ 7163 East Farm Rd. 182, no one home
- 1107 Arrive @ 5379 East Farm Rd. 182, <sup>TD</sup> 221, property owner grants access, collect GW sample 5399-25



## Compass Plaza TCE 7-13-11

- 1130 Arrive @ 7580 East Farm Rd. 182,  
collect GW sample 5399-26 (collected  
from well @ farm office) and GW  
sample 5399-27 (collected from well  
@ house)
- 1225 Arrive @ 5660 South Farm Rd. 247,  
collect GW sample 5399-28 (from  
hydrant @ well head, pre-treatment),  
GW sample 5399-29 (from guest house,  
post-treatment), and GW sample  
5399-30 (from house, post-treatment)
- 1258 Lunch
- 1337 End lunch
- 1343 Arrive @ 5795 South Farm Rd. 247,  
property owner grants access, collect GW  
sample 5399-31
- 1400 Arrive @ 5480 South Farm Rd. 247,  
collect GW sample 5399-32 (hydrant,  
pre-treatment) and GW sample 5399-33  
(spigot, post-treatment), grants access  
to sample @ 5412 South Farm Rd. 247
- 1419 Arrive @ 5412 South Farm Rd. 247,  
collect GW sample 5399-33<sup>TD</sup> 34

## Compass Plaza TCE 7-13-11

- 1452 Arrive @ 5594 South Farm Rd. 247,  
collect GW sample 5399-35
- 1518 Arrive @ 5673 South Farm Rd. 247,  
collect GW sample 5399-36
- 1539 Arrive @ 5449 South Farm Rd. 247,  
collect GW sample 5399-37
- 1555 Arrive @ 9341 East Farm Rd. 186,  
collect GW sample 5399-38
- 1613 Arrive @ 9243 East Farm Rd. 186,  
collect GW sample 5399-39
- 1653 Arrive @ 1104 Finnbrook Rd., collect  
GW sample 5399-40
- 1723 Arrive @ 378 Mooney Rd., collect  
GW sample 5399-41
- 1747 Arrive @ 103 Georgetown Heights Rd.,  
collect GW sample 5399-42
- 1837 Arrive @ hotel, prepare samples and  
paperwork for FedEx shipment
- 1922 Arrive @ FedEx, prepare packaging  
slip and drop off cooler for shipment
- 1932 Arrive @ hotel, end of day

7-13-11



## Compass Plaza TCE 7-14-11

- 0859 STM's Scroggin and DeBruine  
depart hotel en route to Rogersville, MO  
to meet EPA OSC Doug Ferguson
- 0922 Meet w/ EPA OSC Doug Ferguson, discuss  
day's activities
- 0943 Arrive @ 350 Regal Rd., collect GW  
sample 5399-43 (collect triple volume)
- 1004 Arrive @ 299 Regal Rd., collect GW  
sample 5399-44
- 1027 Arrive @ 1588 Santa Fe Rd., collect GW  
sample 5399-45
- 1052 Arrive @ 6183 South Farm Rd. 223,  
collect GW sample 5399-46
- 1121 Arrive @ 6121 Tranquility St., collect  
GW sample 5399-47
- 1153 Arrive @ 3098 South Farm Rd. 227,  
collect GW sample 5399-48
- 1220 Lunch
- 1251 End lunch
- 1305 Arrive @ 4277 South Farm Rd. 223,  
collect GW sample 5399-49
- 1321 Arrive @ 4220 South Farm Rd. 223,  
collect GW sample 5399-50

## Compass Plaza TCE 7-14-11

- 1351 Arrive @ 5777 North Highway 125,  
collect GW sample 5399-51
- 1425 Arrive @ 1585 South Farm Rd. 237,  
collect GW sample 5399-52 and  
collect sample 5399-61 (field blank  
sample) and process sample 5399-62-FB  
(trip blank sample)
- 1506 Arrive @ 689 South Farm Rd. 253,  
collect GW sample 5399-53
- 1544 Arrive @ 8799 East Farm Rd. 186,  
collect GW sample 5399-54
- 1603



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Well TCE Site

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*"Rite in the Rain"*  
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PAGE

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DATE

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## Compass Plaza 05/09/2011

Summary: Mobilize to Rogersville, Mo. Collect  
Drinking Water from Residential well  
Surrounding Compass Plaza.

Weather: Sunny with temperature in the  
low 90's. light wind from

0740 START TEAM MEMBER (STM)

Ryan Lunt meets with STM Tom Scroggins.  
Begin loading & prepping equipment  
into START vehicle.

0840 STM Lunt & Joel Harvester demob  
from Kansas City office

1200 Arrive in Rogersville, Mo. STM Lunt, Scroggins,  
& Harvester hold HASP & Tailgate  
meeting. Also put HLL into 40ml vials

1230. Meet with EPA OSC Doug Ferguson  
to go over site activities.

1305 STM Lunt & Harvester depart  
Compass Plaza site, en route to  
pick up additional supplies & ice  
for samples.

1335 Break for lunch

1400 END OF lunch

1420 Arrive at 8598 E Farm Rd 192  
Home owner Thomas Teeter  
417-753-2275

## Compass Plaza 05/09/2011

1420-cont'd

GPS coordinates -

N. 37.09627° W. 93.10864°

Brown Brick home, 2 stories.

2 car garage on North side

large wooden deck in front / East side  
of house, Aluminum shed (large) to  
the North of Residence

1439 Start Purging

1455 Finish Purging - collect water sample

1455 Sample ID 5367-101

1505 Arrive 8598 E Farm Rd 192

Home owner information same  
as 8598 E Farm Rd 192

GPS Coordinates

N 37.09359° W 93.11076°

House - white single story

AST to <sup>145.9.2011</sup> South East of House

2 car garage / Shed <sup>145.9.11</sup> to North West  
of house

1507 Start purging well

1521 collect water sample

Sample ID 5367-102



## Compass Plaza

05/09/2011

- 1531 Arrive 6471 S. Farm Rd 237  
Home owners were not home  
left EPA Factsheet  
GPS: 37.09203, -93.11156 <sup>237 JH 5-9-11</sup>
- 1538 Arrive at 6478 S. Farm Rd. ~~Alcedo~~ <sup>237 JH 5-9-11</sup>  
Needs to speak to property owner  
GPS: 37.09214, -93.11067°
- 1541 Arrive at 6585 S. Farm Rd 237  
GPS: 37.09003, -93.11128°  
Home owner: Clyde Penniman  
417-753-7722
- 1548 Start purge
- 1605 collect water sample  
collect MSM/SD  
Sample ID  
5367-103
- 1627 Arrive 6555 S. Farm Rd 232  
GPS: 37.09262, -93.13846 <sup>JH 5-9-11</sup>
- 1636 Home owner - Ken & Sharon Schmidt  
417-773-6108  
single story white house  
2 car connected garage
- 1636 <sup>JH 5-9-11</sup> Begin purging

## Compass Plaza

05/09/2011

- Collect water sample  
Sample ID: ~~5367-103~~ <sup>JH 5-9-11</sup> 5367-1034 <sup>JH</sup>
- 1705 Arrive at 6335 S. Farm Rd 223  
Home owner: Leon Nutt  
GPS: 37.09427, -93.13953°  
House - 1½ story brick house  
Green roof, shed - corrugate  
aluminum NW of house
- 1722 Start purging
- 1737 Collect water sample  
Sample ID: ~~5367-104~~ <sup>JH 5-9-11</sup> 5367-105
- 1741 Arrive at 6321 S. Farm Rd 223  
Home owner: Darlene Walker  
GPS: 37.09528, -93.13837  
House: Single story white house  
separate garage NW of house  
2 sheds NW of garage
- 1750 Begin purging
- 1805 Collect water sample  
Sample ID: 5367-106
- 1900 Arrive at Hotel, check-in  
End of day

*Shah*  
5-9-11



## Compass Plaza 05/10/2011

Summary: collect Drinking Water from residential wells surrounding the Compass Plaza site.

Weather: Morning Partly Cloudy, 85°F. Afternoon mostly sunny with Temperature low 90's

0845 Depart hotel en route to Compass Plaza site.

0905 ~~met~~ STM's Lunt & Harvester meet STM Do & Scroggins to go today's activities.

1010 Arrive at 1st property south of intersection of S. Farm Rd 223 and Farm Rd 186. Door has sign "Please Leave this Property"

1011 Arrive at 5980 S. Farm Rd 223

Home owner: Kellers

GPS: 37.10198, -93.13782

House: 1 story brick and siding house attached 1 car garage

~~Needs to~~ 05-5-9-40

Need to discuss sampling amongst occupants.

will return at 1200

## Compass Plaza 05/10/2011

1020 Arrive at 6033 S. Farm Rd 223  
No one answered door STM Lunt left EPA Fact sheet at door

1022 Arrive at 6091 S. Farm Rd 223  
Home owner: John Edwards  
ph#: 417-753-7341  
GPS: 37.09962, -93.13830

House: Single story Brick attached 1 car garage

1028 Begin purging  
6091 S. Farm Rd 223 shares well with 6033 S. Farm Rd 223

1041 Sample (water) collected  
Sample ID: 5367-107

1048 Arrive 6106 S. Farm Rd 223  
Home owner: Wilma E. Ducey  
ph#: 417-753-7888  
GPS: 37.09912, -93.13605

House: Single story Brick attached garage

1054 Begin purging well

1106 Collect water sample 5367-108

## Compass Plaza

05/10/2011

- 1112 Arrive 6183 S. Farm Rd 223  
No one Answered the door  
STM Lunt left EPA Fact sheet
- 1116 Arrive 6241 S. Farm Rd 223  
Home owner: Melva Thomas  
ph#: 417-844-3272  
GPS: 37.09729, -93.13825  
House: Single story Brick, green roof  
attached garage, 2 sheds north of  
house, 1 larger <sup>Barn JHS-9-11</sup> shed Northeast of  
house
- 1122 Begin purging well
- 1133 Collect water sample 5367-109
- 1143 Arrive at 6303 S. Farm Rd 223  
<sup>JHS-9-11</sup>  
~~Home owner:~~  
GPS: 37.09552, -93.14125  
No answer at door  
STM Lunt left EPA fact sheet
- 1151 Return to 5900 S. Farm Rd 223  
see entry at 1011<sup>5-9-11</sup> for information
- 1159 start purging well
- 1210 Collect water sample 5367-110

## Compass Plaza

05/10/2011

- 1246 Arrive at 9372 E. Farm Rd 186  
GPS: 37.10224, -93.09059  
Re sampling event
- 1255 Begin Purging well
- 1307 Collect pre-treatment sample  
Sample ID: 5367-111
- 1315 Begin Purging post treatment  
spigot (sink)
- 1316 Collect post-treatment sample  
Sample ID: 5367-112  
Home owner: Gene Wells  
ph#: 417-299-7771
- 1350-1415 Lunch  
weather: Overcast ~ 80-85°  
slight Breeze from the south  
~ 3-5 mph
- 1428 Arrive at 5674 S. Farm Rd 221  
GPS: 37.10711, -93.14191  
No answer at the door  
STM Ryan Lunt left EPA fact sheet
- 1432 Arrive at 5642 S. Farm Rd 221  
GPS: 37.108000, -93.14216  
No answer at door  
STM Ryan Lunt left EPA fact sheet



Compass Plaza 05/10/2011  
(South Farm Rd.)

- 1435 Arrive at (possible) 5579 S.F.R. 221  
House at end of S. Farm Rd 221  
GPS: 37.10936, -93.14226  
No answer at door, STM Hunt  
Left EPA Fact sheet
- 1448 Arrive at 475 Sherwood road  
GPS: 37.06923, -93.10640  
Home owner: James & Carolyn Cooper  
phone #: 417-582-0046  
House: Single story brick, attached 1 car  
garage  
No one answered  
STM Hunt left EPA fact sheet
- 1452 Arrive at 307 Sherwood  
GPS: 37.06920, -93.10393  
Home owner: ~~Robert & Dorothy~~ <sup>JH 5-10-11</sup> Robert  
Robert & Dorothy Robb  
Have had well checked  
recently, refused sampling
- 1457 Arrive at 231 Sherwood  
GPS: 37.06914, -93.10262  
Home owner:  
ph. #:  
House: 2 story, white w/ siding  
land owner lives in single story  
Brown sided house to the east

Compass Plaza 05/10/2011

- 1501 Land owner was not home  
STM Hunt left EPA fact sheet  
Landowner address: 225 Sherwood
- 1505 Arrive 160 Sherwood road  
GPS: 37.06823, -93.10250  
Home owner: Greg Robinson  
phone #: 417-818-5855  
House: Brown Trailer  
Will contact Property owner.  
site well serves ~20 lots/units/trails
- 1513 Arrive 212 Roller Rd  
GPS: 37.06568, -93.10249  
Home owner: Shawn & Tammy Baty  
phone #:  
House: Single story brown brick  
2 car attached garage  
property owner is not resident.  
resident will contact property owner
- 1517 Arrive at 254 Roller Rd. NoH  
Dogs bar access to door, does not  
look like anyone's home
- 1520 Arrive 386 Roller Rd.  
No answer. STM Hunt  
left EPA fact sheet



## Compass Plaza

05/10/2011

1524 Arrive 421 Roller  
<sup>JH 5-10-11</sup>  
 GPS: ~~37.0613~~ 37.06133, -93.10503

Homeowner: John McMillan

Ph #: 417-581-9316

House: single story brown brick

2 car attached garage

brown aluminum shed to the west

1537 begin purging well

1549 Collect water sample 5367-113

1555 Arrive 636 Roller

<sup>JH 5-10-11</sup>

1602 Arrive 386 Roller

GPS: 37.06317, -93.10257

site owned by John McMillan

same info as 421 Roller

House: 2 story wood

Various sheds and barns  
 around property

1607 Start purging well

<sup>JH 5-10-11</sup>  
~~Site has~~ residential property

contains on-site spring

START Team will sample spring as well

1621 Collect water sample (well)

Sample ID: 5367-114

## Compass Plaza

05/20/2011

1625 Collect water sample <sup>JH 5-10-11</sup> (well)  
 (Spring) Sample ID: 5367-115

1644 Arrive at Mission Camp Rd

GPS: 37.06458, -93.09427

~~Homeowner/Campowner:~~ <sup>JH 5-10-11</sup>

ph #:

house: 1 1/2 story log and stone house

Set back ~ 200 ft from Road

<sup>JH 5-10-11</sup>

1654

occupant needs to discuss well

sampling w. husband. occupant

stated that Baptist Mission Camp

(GPS: 37.06145, -93.09412) is

owned by an association

that would need to discuss

sampling

1654 Arrive at Baptist Mission Camp

STM Lunt explained <sup>JH 5-10-11</sup> sampling

Sampling Request to site caretaker.

Caretaker was given EPA factsheet

and will present to association

1730 meet with Start team

(T. Scroggins, Q. Do, R. Lunt, J. Harvester)

1755 Label samples and load into cooler

for shipping, at Hotel

1900 End of Day

*Jul 11*  
<sup>5-10-11</sup>



Compass Plaza

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5.11.11

Compass Plaza 05/11/2011

Summary: Collect Drinking Water Samples  
from Residential properties

Weather: Partly cloudy, chance of  
thunderstorms.

0840 STM Lunt & Harvester depart  
Hotel, En Route to Rogersville, MO.

STM Lunt Talks with STM Scroggins about  
Today Sampling activities.

0940 Arrive 160 Rosemead <sup>JH 5-11-11</sup>  
GPS: 37.07354, -93.06990  
Home owners/occupants not  
present

0944 Arrive 258 Rosemead  
GPS: 37.07186, 93.07015  
occupants not present

0948 Arrive 451 Rosemead  
GPS: 37.07091, -93.07375  
occupants not present

0952 Arrive 601 Rosemead  
GPS: 37.06802, -93.07078  
Home owner: Larry Dwan  
ph#: 417-753-3997

House: 1 1/2 story Brown House with  
Siding  
2 car attached garage. Shed NE of  
house

Compass Plaza 05/11/2011

- 0958 Start purging well  
Collect water sample 5367-117
- 1021 Arrive 4180 REED ROAD  
GPS: 37.06678, -93.07088  
Spoke to occupant  
occupants/landowners want to discuss  
amongst themselves
- 1025 Arrive 3925 Reed  
GPS: 37.06676, -93.07524  
Home owner: Wayne Walker  
ph #: 417-753-3144  
house: single story white house.  
several sheds South and west  
of house
- 1029 Begin purging well
- 1041 Collect water sample 5367-118
- 1052 Arrive at unknown address REED RD  
GPS: 37.06808, -93.07835 <sup>no one home (NOH)</sup>
- 1054 Arrive unknown address REED RD  
GPS: 37.06684, -93.07865  
NOH
- 1055 Arrive at 412 Cascade Drive  
GPS: 37.06691, -93.08051

Compass Plaza

- 1055 cont'd  
Property owner: Ray & Jo Birchler  
ph #: 417-753-3087
- 1136 Begin purging well  
well is shared by two residences  
the above mentioned and  
whisper wind
- 1225 Depart 412 Cascade Dr. en route  
to Rogersville, MO.
- 1240 Break for lunch
- 1310 en route to residential houses
- 1315 Arrive 625 Audubon  
GPS: 37.07079, -93.06783  
Home owner: Paul Bles  
ph #: 417-827-4584  
House: 2 story brick building  
2 car attached garage  
\*Site may have been sampled  
by MDIVR over a year previous
- 1330 Start purging well
- 1343 Collect water sample 5367-122
- 1358 Arrive 626 Audubon  
GPS: 37.06990, -93.06697  
Property owner: Jeff & Tracy Grant  
ph #: 417-753-1009



1358 cont'd

House: 1 story Brown Brick building  
2 car attached garage  
Shed to the west

1407 Start purging well

1416 Collect water sample

3567-123

Collected MSMSD at  
3567-123

1440 Purchase fuel for rental  
vehicle

1455 Arrive 527 Audubon  
GPS: 37.07072, -93.06630  
NOH

1458 Arrive 334 Audubon  
GPS: 37.07054, -93.06538  
Property owner: Katie Sturdefant  
ph #: 417-753-2466

House: 2 story yellow house  
w siding

1502 Start purging well

1512 Collect water sample  
3567-124

1521 Arrive 505 Audubon

GPS: 37.07134, -93.06479

Property owner: Karen Blount

Ph #: 417-763-4370

House: Single story brick, 2 car  
attached garage

1525 Begin purging well

\*Late Entry\*

1150 collect water sample (well)  
5367-119

1212 Collect water sample (spring)  
from spring feed at  
412 Cascade dr.

Sample ID: 5367-120

\*Late Entry Finish\*

~~15~~ ← JH 5.11.11

1538 Collect water sample 5367-125

1545 Arrive 381 Audubon Rd

GPS: 37.07160, -93.06365

Home owner: John L. Moore

ph #: 417-753-4527

House: Single story brown brick  
2 car attached garage, aluminum  
shed to the west

## Compass Plaza

05/11/2011

- 1554 Start purging well
- 1606 Collect water sample 5367-126
- 1612 Arrive 380 Audubon  
GPS: 37.07140, -93.06352  
Property owner: Gabbert  
ph#: 417-753-2384  
house: single story brick house
- 1629 Start Purging well
- 16 Collect water sample 5367-127
- 1651 Arrive 356 Audubon  
property owner: Chris & Jeana Johnson  
ph #:  
house: single story brown brick building  
GPS: 37.06989, -93.06244
- 1655 Start purging well
- 1700 Collect sample 5367-128  
well 1 - close to the house  
short purge period b/c  
family had been running  
water from spigot for  
several minutes previous
- 1709 arrive at  
356 Audubon well-2 (close to the road)
- 1711 Begin purging well  
GPS: 37.07125, -93.06269

## Compass Plaza

05/11/2011

- 1721 Collect water sample 5367-129
- 1728 Depart site vicinity  
toward Springfield
- 1800 Arrive at hotel  
begin packing samples for shipping
- 1855 finish packing samples for  
shipping  
STMs Lunt & Scroggins transport  
samples to FedEx  
End of day

5/11/2011  
Jal



## Compass plaza

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## Compass Plaza 05/12/2011

Summary: Collect Drinking water samples  
from residential properties

weather: mostly sunny, slight  
chance of thunderstorms

0830 STM Hunt & Harvester checkout  
of hotel and depart towards  
Rogersville, mo

0915 STM Hunt receives phone  
call from EPA OSC Ferguson  
about requests for well sampling  
from local residents

0925 Arrive 222 Cricket lane  
GPS: 37.06399, -93.06432

05/12/11  
NOH

0933 Arrive 159 Cricket lane  
GPS: 37.06461, -93.06468

Homeowner: Vickie Brayles

ph#: ~~199 Cricket Ln~~ <sup>05/12/11</sup>

House: 2 story Brown brick

attached 1 car garage

2 car garage / shop / apartment  
to the north

0943 start purging

1001 collect water sample 5367-134

Compass Plaza 05/12/2011

1026 Arrive 188 cricket ln  
GPS: 37.06485, -93.06430  
NOH, STM Lmt left  
EPA fact sheet.

1028 Arrive  
GPS: 37.06533, -93.06375

Home owner:

ph #:

House: 1 story Brick / limestone  
with wooden accents

property owner not present

1032 Arrive 144 Cricket Ln  
GPS: 37.06540, -93.06378  
NOH. STM Lmt left EPA  
fact sheet

1036 Arrive  
GPS: 37.06921, -93.06421  
NOH. STM Lmt left EPA fact sheet

1043 Arrive 668 Rosemeade  
GPS: 37.06505, -93.06818  
Home owner: Fred Stewart  
ph #: 417-299-2357  
House: Brick w limestone accents

Single story. Aluminum shed / Barn  
west side of house

Compass Plaza 05/12/2011

1047 Start purging well  
Collect water sample 5367-135

1126 arrive  
GPS: 37.11173, -93.08665

Property owner:

ph #:

House: yellow one story  
several sheds on site.  
pavillion with pond and  
hammock west of house

This location is a re-sample  
and will be sampled pre & post  
filtration system

1132 begin purging well

1145 Collect water sample 3657-132  
(Pre filtration system) <sup>sample from</sup> exterior wall spigot

1200 Collect water sample 3657-132  
(Post filtration system) sample from  
interior sink spigot

1230 - 1300 Lunch

1333 Arrive 1177 Anchor Hill Rd

GPS: 37.07701, -93.01423

Homeowner: Jeff Tanaka <sup>aka</sup> Warren Warren

ph #: 417-274-0960

House: Green 2 story



Compass Plaza 05/12/2011

- 1338 Start purging well
- 1355 Collect water sample <sup>JHS-12-11</sup> 5367  
Sample ID: 5367-133
- 1416 Arrive 682 Rosemead  
GPS: 37.06372, 93.06757  
NOH STM Limit left EPA  
Fact sheet
- 1420 Arrive 885 Rosemead  
GPS: 37.06188, -93.06963  
Home owner: Dennis Holbein  
ph: 417-753-4454  
House: 1 story brick house  
2 car garage attached to house
- 1448 begin to purge well
- 1455 collect sample 5367-136
- 1507 Arrive 709 Rosemead  
GPS: 37.06137, -93.06921  
Homeowner: DENNIS Holbein  
ph: 417-753-4454  
House: 1 story red brick, 3 car  
attached garage  
owner wants to discuss w/other occupants  
(family)

Compass Plaza 05/12/2011

- 1514 Arrive 1155 Rosemead Rd  
GPS: 37.05932, -93.06954  
Homeowner: Robert Montgomery  
ph #: 417-823-7653  
House: Single story Brown  
2 car attached garage  
shed to the Southwest
- 1525 Start Purging well
- 1542 ~~BEGIN~~ <sup>Rel 05/12/2011</sup> Collect Sample 5367-132
- 1628 Arrive 7902 E Division St  
Stratford, Mo  
GPS: 37.22113, -93.12209  
Home owner: Nathan Moore  
ph #: 316-253-4506  
(cell phone)  
House: white one story  
white shed SW of house
- 1629 Begin purging well
- 1635 <sup>Collected</sup> ~~took~~ water sample 5367-141  
<sup>Collected</sup> ~~took~~ MS/MSD
- 1650 <sup>Collected</sup> ~~took~~ <sup>JHS-12-11</sup>
- Depart Springfield towards  
KC
- 1940 Arrive Tetra tech  
Begin packaging samples  
End of 5-12-11



## Compass Plaza 9-28-11

- 0840 STM DeBruine departs hotel en route to Rogersville to meet OSC Doug Ferguson @ Jamertown Plaza
- 0903 Arrive @ Jamertown Plaza, discuss project activities and prepare to collect GW samples
- 0932 Arrive @ 6478 S. Farm Rd. 237  
GPS = 37.09209, -93.11063
- 0957 Collect GW sample 5514-1
- 1006 Arrive @ 6471 S. Farm Rd. 237, no one home, leave informational sheet
- 1012 Arrive @ 8651 Squirrel Lane, property owner believes his well has already been sampled (possibly by MDNR)
- 1018 Arrive @ 8517 Squirrel Lane, no one home, leave informational sheet
- 1024 Arrive @ 8598 E. Farm Rd. 192, property owner states his well has already been sampled
- 1033 Arrive @ 6585 S. Farm Rd. 237, property owner states his well was sampled in May 2011
- 1112 Arrive @ 2988 State Hwy U  
GPS = 37.07352, -93.07407

## Compass Plaza 9-28-11

- 1127 Collect GW sample 5514-2
- 1143 Arrive @ 164 Cricket Lane  
GPS = 37.06526, -93.06368
- 1200 Collect GW sample 5514-3
- 1210 Lunch
- 1237 End lunch
- 1311 Arrive @ 9960 Reba Lane  
GPS = 37.13490, -93.07635
- 1327 Collect GW sample 5514-4, triple volume
- 1413 Arrive @ 5761 S. Farm Rd. 247  
GPS = 37.10496, -93.08574
- 1428 Collect GW sample 5514-5
- 1455 Arrive @ 10150 Center St.  
GPS = 37.11731, -93.07293
- 1509 Collect GW sample 5514-6
- 1516 Arrive @ unknown S. Farm Rd. 253, no one home, leave informational sheet
- 1520 Arrive @ unknown S. Farm Rd. 253, no one home, leave informational sheet
- 1528 Arrive @ 4525 S. Farm Rd. 253  
GPS = 37.12667, -93.07561
- 15<sup>JD</sup> ~~Collect GW sample 5514-7<sup>JD</sup>~~, property has already been sampled on 4-14-10 by MDNR



Compass Plaza 9-28-11

- 1535 Arrive @ 4299 S. Farm Rd. 253  
GPS = 37.12899, -93.07444
- 15<sup>JD</sup> ~~Collect GW sample 5514-7~~ <sup>JD</sup> property owner states that property has already been sampled, grants access to sample rental property @ 9607 E. Farm Rd. 170, Shelly Langhofer is property owner
- 1548 Arrive @ 9607 E. Farm Rd. 170  
GPS = 37.13289, -93.08450
- 1601 Collect GW sample 5514-7
- 1611 Arrive @ 9767 E. Farm Rd. 170, no one home, leave informational sheet
- 1616 Arrive @ 9839 E. Farm Rd. 170, no one home, leave informational sheet
- 1620 Arrive @ 4177 Nakia Lane, property owner states well has already been sampled (shares well w/ 4055 Nakia Lane, it has also been sampled)
- 1627 Arrive @ 9945 E. Farm Rd. 170, property owner denies access  
GPS = 37.13322, -93.07722
- 1650 Arrive @ 4147 S. Farm Rd. 253  
GPS = 37.13335, -93.07488
- 1712 Collect GW sample 5514-8

Compass Plaza 9-28-11

- 1719 Arrive @ 4089 S. Farm Rd. 253  
GPS = 37.13460, -93.07413
- 1735 Collect GW sample 5514-9
- 1748 Arrive @ 9961 E. Reba Lane  
GPS = 37.13552, -93.07627
- 1807 Collect GW sample - 5514-10
- 1815 Drop off OSC Ferguson @ Jamestown Plaza
- 1846 Arrive @ hotel in Springfield, process samples and paperwork, prepare samples for delivery to EPA lab, put ice in cooler
- 1944 End of day

Jr DeBa  
9-28-11



## Compass Plaza 9-29-11

- 0935 STM DeBruine departs hotel en route to Rogersville to meet OSC Doug Ferguson @ Jamertown Plaza
- 0957 Arrive @ Jamertown Plaza, discuss and prepare for day's activities
- 1014 Fuel up vehicle
- 1034 Arrive @ 4251 S. Farm Rd. 253  
GPS = 37.13154, -93.07394
- 1055 Collect GW sample 5514-11
- 1102 Arrive @ 10070 E. Reba Ln., no one home, leave informational sheet
- 1110 Arrive @ 3949 S. Farm Rd. 253, no one home, leave informational sheet
- 1116 Arrive @ 3827 S. Farm Rd. 253, no one home, leave informational sheet
- 1121 Arrive @ 3785 S. Farm Rd. 253, no one home, leave informational sheet
- 1127 Arrive @ 9859 Swanson Lane, no one home, leave informational sheet
- 1131 Arrive @ 9727 Swanson Lane, no one home, leave informational sheet
- 1138 Arrive @ 3757 S. Farm Rd. 253, no one home, leave informational sheet, possible spring on property or adjacent property

## Compass Plaza 9-29-11

- 1144 Arrive @ 3751 S. Farm Rd. 253  
GPS = 37.14164, -93.07812
- 1159 Collect GW sample 5514-12
- 1207 Arrive @ 3474 Shepard Lane  
GPS = 37.14705, -93.08429
- 1231 Collect GW sample 5514-13
- 1242 Collect GW sample 5514-14, property has two wells, sample 5514-13 was taken from hydrant southeast of old farmhouse and sample 5514-14 was taken from hydrant @ wellhead northeast of new house
- 1303 Lunch
- 1338 End lunch
- 1344 Arrive @  
GPS = 37.10240, -93.09079  
Resample property w/ treatment system
- 1400 Collect GW sample 5514-15, pre-treatment sample from spigot on well house
- 1424 Collect GW sample 5514-16, post-treatment sample from spigot on front (north side) of house



Compass Plaza 9-29-11

- 1441 Arrive @ 10074 East Farm Rd. 186  
GPS = 37.10334, -93.07526
- 1508 Collect GW sample 5514-17, pre-treatment sample from hydrant @ wellhead
- 1509 Collect GW sample 5514-18, post-treatment sample from hydrant @ east side of metal shed
- 1520 Arrive @ 5673 S. Farm Rd. 247  
speak w/ property owner about his well, ~~he has a treatment system and~~<sup>JD</sup> it was sampled in July 2011 so it will not be sampled now
- 1551 Process trip blank sample (5514-62-FB)
- 1608 Arrive @ Jude Ranch to sample Tallman Spring
- 1618 Collect GW sample 5514-19 from spring  
GPS = 37.05717, -93.06628
- 1653 Arrive @ 1098 Elm Grove Rd., speak w/ property owner, it has already been sampled and they do not want it resampled, they have expressed concern over e. coli/bacteria in their well/water

Compass Plaza 9-29-11

- 1715 Arrive @ 1963 Hedgpeth Rd., no one home, leave informational sheet
- 1724 Arrive @ unknown Flint Acres Rd., property owner is not worried about it, ACCESS DENIED
- 1729 Arrive @ 225 Elm Grove Road, no one home
- 1733 Collect field blank sample (sample #5514-61-FB)
- 1744 Arrive @ Jamestown Plaza, drop off OSC Ferguson, depart en route to KC Tetra Tech office
- 2044 Arrive @ KC Tetra Tech office, put samples in refrigerator, unload vehicle
- 2054 End of day

Jr DeBn  
9-29-11



Compass Plaza 11-14-11

- 0950 STM's DeBraine and Dillon prepare to depart Tetra Tech office in Kansas City en route to Rogersville
- 1015 Depart Tetra Tech office
- 1329 Arrive @ 8307 East Farm Road 174, property owner grants access, collect GW sample 5591-1
- 1356 Arrive @ 8326 East Farm Road 174, property owner grants access, collect GW sample 5591-2
- 1412 Arrive @ 8425 East Farm Road 174, no one home
- 1416 Arrive @ 8625 East Farm Road 174, property owner denies access
- 1419 Arrive @ unknown address on East Farm Road 174, no one home
- 1423 Arrive @ 4598 South Farm Road 243, no one home
- 1427 Arrive @ 4597 South Farm Road, 243, spoke w/ tenant who stated that he will talk to the property owner, he wants us to stop back by on Thursday
- 1435 Arrive @ 4143 South Farm Road 243, property owner denies access

Compass Plaza 11-14-11

- 1441 Arrive @ 4144 South Farm Road 243, no one home
- 1444 Arrive @ 4138 South Farm Road 243, no one home
- 1447 Arrive @ 3986 South Farm Road 243, property owner grants access, collect GW sample 5591-3
- 1504 Arrive @ 9001 East Farm Road 170, property owner grants access, collect GW sample 5591-4 (triple volume MS-MSD)
- 1532 Arrive @ 8777 East Farm Road 170, no one home
- 1538 Arrive @ 9767 East Farm Road 170, property owner denies access
- 1545 Arrive @ 4695 South Farm Road 243, property owner states that property was already sampled
- 1555 Arrive @ 4722 South Farm Road 243, property owner grants access, collect GW sample 5591-5
- 1616 Arrive @ 4903 South Farm Road 243, no one home
- 1623 Arrive @ 5075 South Farm Road 241, no one home



Compass Plaza

11-14-11

- 1628 Arrive @ unknown address (53??) South Farm Road 241, no one home
- 1637 Arrive @
- 1643 Arrive @ 5674 South Farm Road 241, property owner grants access, collect GW sample 5591-6
- 1729 Arrive @ hotel in Springfield, end of day

Jm DeB.  
11-14-11

Compass Plaza

11-15-11

- 0834 STM's DeBruine and Dillon depart hotel in Springfield en route to Jamestown Plaza in Rogersville to meet w/ EPA OSC Doug Ferguson
- 0859 Arrive @ Jamestown Plaza, discuss project activities w/ OSC Ferguson
- 0954 Arrive @ 4869 Hwy 125, no one home, leave informational sheet
- 1002 Arrive @ unknown address on East Farm Road 174, no one home, leave informational sheet (address is 7905)
- 1008 Arrive @ 4623 South Farm Road 229, property owner denies access
- 1012 Arrive @ 4698 South Farm Road 229, no one home, leave informational sheet
- 1016 Arrive @ 4823 South Farm Road 229, speak w/ tenant who informs that property owner lives @ 4931 South Farm Road 229, will go there to contact him
- 1020 Arrive @ 4931 South Farm Road 229, property owner does not live here, it is occupied by tenants who give contact information of owner Jerry Cowan (417-844-7004), speak w/ him, he wants



	Compass Plaza	11-15-11
	to speak w/ EPA OSC Ferguson before any samples are collected	
1035	Arrive @ 4876 South Farm Road 229, no one home, leave informational sheet	
1042	Arrive @ 7792 East Farm Road 174, property owner grants access, collect GW sample 5591-7	
1105	Arrive @ 7736 East Farm Road 174, no one home, leave informational sheet	
1108	Arrive @ 4511 South Farm Road 227, property owner grants access, collect GW sample 5591-8	
1136	Arrive @ 4445 South Farm Road 227, no one home, leave informational sheet	
1142	Arrive @ 4248 South Farm Road 227, speak w/ property owner, she will talk to her husband, leave informational sheet	
1151	Arrive @ 4245 South Farm Road 227, property owner grants access, collect GW sample 5591-9	
1229	Lunch	
1304	End lunch	
1327	Arrive @ 9109 East Farm Road 166, no one home, leave informational sheet	

	Compass Plaza	11-15-11
1334	Arrive @ 3089 South Farm Road 241, no one home, leave informational sheet	
1338	Arrive @ 2941 South Farm Road 241, property owner denies access	
1343	Arrive @ 2925 South Farm Road 241, property owner grants access, collect GW sample 5591-10	
1406	Arrive @ 2873 South Farm Road 241, no one home, leave informational sheet	
1412	Arrive @ 8584 East Wildflower, property owner grants access, collect GW sample 5591-11	
1433	Arrive @ 8636 East Wildflower, property owner grants access, collect GW sample 5591-12	
1450	Arrive @ 2950 Wilderness Lane, no one home, leave informational sheet	
1454	Arrive @ 2923 South Wilderness Lane, property owner grants access, collect GW sample 5591-13	
1512	Arrive @ 2895 S. Wilderness Lane, no one home, leave informational sheet	
1516	Arrive @ 2??? S. Wilderness Lane, no one home, leave informational sheet	



## Compass Plaza

11-15-11

- 1519 Arrive @ 8759<sup>TP</sup> 8752 East Wildflower Lane, property owner grants access, collect GW sample 5591-14
- 1539 Arrive @ 2779 South Farm Road 241, no one home, leave informational sheet
- 1548 Arrive @ 2786 South Farm Road 241, property owner denies access
- 1552 Arrive @ 2732 South Farm Road 241, property owner grants access, collect GW sample 5591-15
- 1608 Arrive @ 8948 State Hwy D, property owner grants access, collect GW sample 5591-16
- 1628 Arrive @ 2503 South Farm Road 241, property owner grants access, collect GW sample 5591-17
- 1646 Arrive @ 2409 South Farm Road 241, property owner grants access, collect GW sample 5591-18
- 1713 Fuel up vehicle
- 1736 Arrive @ 344 Woody Road, property owner already granted access, collect GW sample 5591-19
- 1754 Arrive @ 488 Woody Road, property owner

## Compass Plaza

11-15-11

- already granted access, collect GW sample 5591-20
- 1844 Arrive @ hotel, prepare samples and paperwork for FedEx shipment
- 1914 Arrive @ FedEx, drop off sample cooler for overnight shipment
- 1933 Arrive @ hotel, end of day

Jr Deb  
11-15-11



## Compass Plaza

11-16-11

- 0841 STM's DeBruine and Dillon depart hotel in Springfield en route to Jamestown Plaza in Rogersville to meet w/ EPA OSC Doug Ferguson
- 0901 Arrive @ Jamestown Plaza, discuss project activities w/ OSC Ferguson
- 0916 Arrive @ 7544 East Tara, property owner already granted access, collect GW sample 5591-21 (triple volume MS/MSD)
- 0951 Arrive @ 7476 East Farm Road 170, property owner already granted access, collect GW sample 5591-22
- 1014 Arrive @ 8067 East Farm Road 164, property owner already granted access, collect GW sample 5591-23
- 1047 Arrive @ 8471 East Farm Road 194, property owner already granted access, collect GW sample 5591-24
- 1110 Arrive @ 2946 State Hwy U, property owner already granted access, collect GW sample 5591-25
- 1134 Arrive @ 6060 South Farm Road 249, property owner already granted access, collect GW sample 5591-26

## Compass Plaza

11-16-11

- 1218 Arrive @ 1815 South Farm Road 245, property owner already granted access, collect GW samples 5591-27 and 5591-~~FB~~<sup>FD</sup> 27-FD
- 1240 Arrive @ 1625 South Farm Road 245, property owner already granted access, collect GW sample 5591-28
- 1318 Lunch
- 1350 End lunch
- 1411 Arrive @ 1997 South Farm Road 245, property owner already granted access, collect GW sample 5591-29
- 1434 Process Trip Blank sample
- 1440 Collect/process Field Blank sample
- 1507 Arrive @ 1918 Peck Hollow Road, property owner already granted access, collect GW sample 5591-30
- 1536 Arrive @ 1716 Liberty Road, property owner already granted access, collect GW sample 5591-31, also collect GW sample 5591-32 from 1616 Liberty Road
- 1602 Arrive @ 1614 Liberty Road, property owner already granted access, the water is currently turned off/hydrant does not work



## Compass Plaza

11-16-11

- 1625 Arrive @ 121 Glendale Road, property owner already granted access, collect GW sample 5591-33
- 1651 Arrive @ 71 Glendale Road, property owner already granted access, collect GW sample 5591-34
- 1717 Arrive @ 550 Wilderness Road, property owner already granted access, collect GW sample 5591-35
- 1750 Arrive @ 3301 State Hwy B, property owner already granted access, collect GW sample 5591-36
- 1837 Arrive @ hotel, prepare samples and paperwork for FedEx shipment
- 1901 Arrive @ FedEx, drop off sample cooler for overnight shipment
- 1922 Arrive @ hotel, end of day

Jim DeBruine  
11-16-11

~~11-16-11~~

## Compass Plaza

- 0809 STM's DeBruine and Dillon depart hotel in Springfield en route to Jamestown Plaza in Rogersville to meet w/ EPA OSC Doug Ferguson
- 0833 Arrive @ Jamestown Plaza, discuss and prepare for day's activities
- 0859 Arrive @ unknown address on Center St. east of Rogersville, no one home, leave informational sheet
- 0921 Arrive @ 735 Peck Hollow Rd., no one home, leave informational sheet
- 0927 Arrive @ 1642 Peck Hollow Rd., no one home, leave informational sheet
- 0934 Arrive @ unknown address on Higher Ground Dr., address is 229 Higher Ground Dr., property owner grants access, collect GW sample 5591-37
- 0955 Arrive @ 1457 Peck Hollow Rd., no one home, leave informational sheet
- 1011 Arrive @ 247 Meadow Hill Lane, property owner already granted access, collect GW sample 5591-38
- 1023 Arrive @ 195 Meadow Hill Lane, property owner already granted access,



Compass Plaza

11-17-11

- collect GW sample 5591-39
- 1041 Arrive @ 93 Meadow Hill Lane, property owner already granted access, collect GW sample 5591-40
- 1055 Arrive @ 152 Meadow Hill Lane, property owner already granted access, collect GW sample 5591-41 (triple volume MS/MSD)
- 1126 Arrive @ 5950 East Linda Street, property owner already granted access, collect GW sample 5591-42
- 1159 Arrive @ 4611 East Farm Road 174, property owner already granted access, collect GW sample 5591-43
- 1216 Depart Rogersville en route to Kansas City Tetra Tech office
- 1537 Arrive @ Tetra Tech office in Kansas City, unload vehicle and prepare samples for delivery to EPA Region 7 Lab
- 1616 End of day

*Jim DeB...*  
11-17-11

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ALL-WEATHER WRITING PAPER



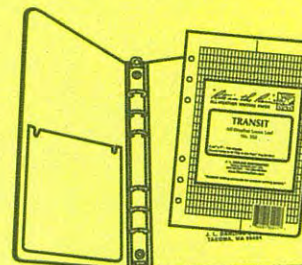
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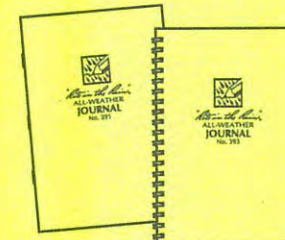
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*Rite in the Rain*

ALL-WEATHER

**LEVEL**

Nº 311

*Compass Plaza Well TCE Site  
Rogersville, MO*

*103DX9004L100194.000*

*Logbook #4*



A vertical yellow ruler with black markings. The ruler has major tick marks labeled 1, 2, 3, 4, 5, and 6 from top to bottom. Between each major tick mark, there are four smaller tick marks, dividing each centimeter into five millimeter intervals. The ruler is positioned on the right side of the page.

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CONTENTS		
PAGE	REFERENCE	DATE
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## Compass Plaza

1-23-12

- 1015 STM's DeBruine and Merriman depart Tetra Tech office in Kansas City en route to Rogersville, MO
- 1328 Arrive @ Jamestown Plaza in Rogersville, meet w/ EPA OSC Ferguson, discuss project activities
- 1351 Arrive @ 669 Indian Grove, property owner already granted access, collect GW sample 5627-1, triple volume (MS/MSD sample)  
GPS = 37.12447, -93.04281
- 1427 Arrive @ 989 Indian Grove, property owner already granted access, collect GW sample 5627-2  
GPS = 37.12403, -93.03490
- 1443 Arrive @ 1030 Indian Grove Lane, property owner already granted access, collect GW sample 5627-3  
GPS = 37.12331, -93.03691
- 1457 Arrive @ 1088 Indian Grove Lane, property owner already granted access, collect GW sample 5627-4  
GPS = 37.12272, -93.03648
- 1514 Arrive @ 1100 Indian Grove Lane, property owner already granted access, collect

## Compass Plaza

1-23-12

- GW sample 5627-5  
GPS = 37.12229, -93.03712
- 1533 Arrive @ 1134 Indian Grove Lane, property owner already granted access, collect GW sample 5627-6  
GPS = 37.12124, -93.03686
- 1547 Arrive @ 1161 Indian Grove Lane, property owner already granted access, collect GW sample 5627-7  
GPS = 37.12099, -93.03584
- 1601 Arrive @ 1169 Indian Grove Lane, property owner already granted access, collect GW sample 5627-8  
GPS = 37.12069, -93.03574
- 1620 Arrive @ ~~1255<sup>TH</sup>~~<sup>1305</sup> Henderson, property owner already granted access, collect GW sample 5627-9  
GPS = 37.13034, -93.04358
- 1646 Arrive @ 598 Lakeside, property owner already granted access, collect GW sample 5627-10  
GPS = 37.12264, -93.04586
- 1738 Arrive @ hotel, end of day

Rite in the Rain.



## Compass Plaza

1-24-12

- 0835 STM's DeBruine and Merriman depart hotel en route to Rogersville to meet w/ EPA OSC Ferguson
- 0900 Arrive @ Jamestown Plaza in Rogersville, discuss day's activities w/ EPA OSC Ferguson
- 0941 Arrive @ 1097 Indian Grove Lane, property owner already granted access, collect GW sample 5627-11  
GPS = 37.12249, -93.03532
- 1014 Arrive @ <sup>742</sup>Century Farm Road, property owner already granted access, collect GW sample 5627-12  
GPS = 37.14566, -93.02982
- 1034 Arrive @ 3693 South Farm Road 253, property owner already granted access, collect GW sample 5627-13  
GPS = 37.14262, -93.08036
- 1104 Arrive @ 5632 South Farm Road 241, property owner already granted access, collect GW sample 5627-14  
GPS = 37.10711, -93.10108
- 1131 Arrive @ 242 Meadow Hill Lane, property owner already granted access,

## Compass Plaza

1-24-12

- collect GW sample 5627-15  
GPS = 37.12801, -93.06119
- 1156 Lunch
- 1228 End lunch
- 1231 Fuel up vehicle
- 1248 Arrive @ 4723 East Farm Road 186, property owner already granted access, collect GW sample 5627-16  
GPS = 37.10632, -93.19715
- 1321 Arrive @ 3724 South Farm Road 205, property owner already granted access, collect GW sample 5627-17  
GPS = 37.14294, -93.17136
- 1352 Arrive @ 5475 South Farm Road 219, property owner already granted access, collect GW sample 5627-18  
GPS = 37.11079, -93.14761
- 1409 Arrive @ 5525 South Farm Road 219, property owner already granted access, collect GW sample 5627-19  
GPS = 37.10973, -93.14802
- 1434 Arrive @ 857 Homestead, property owner already granted access, collect GW sample 5627-20  
GPS = 37.08273, -93.11014

*Rite in the Rain*



## Compass Plaza

1-24-12

- 1457 Arrive @ 326 Mooney Road, property owner already granted access, collect GW sample 5627-21  
GPS = 37.07466, -93.12463
- 1516 Arrive @ 208 Mooney Road, property owner already granted access, collect GW sample 5627-22  
GPS = 37.07447, -93.12218
- 1534 Arrive @ 129 Mooney Road, property owner already granted access, collect GW sample 5627-23  
GPS = 37.07533, -93.12111
- 1558 Arrive @ 225 Sherwood Road, property owner already granted access, collect GW sample 5627-24  
GPS = 37.06938, -93.10230
- 1625 Arrive @ 287 Cascade Drive, property owner already granted access, collect GW sample 5627-25  
GPS = 37.06811, -93.07833
- 1638 Arrive @ 306 Cascade Drive, property owner already granted access, collect GW sample 5627-26  
GPS = 37.06670, -93.07850

## Compass Plaza

1-24-12

- 1658 Arrive @ 286 Cascade Drive, property owner already granted access, collect GW sample 5627-27  
GPS = 37.06214, -93.08334
- 1738 Arrive @ EPA OSC Ferguson's hotel to collect samples he collected throughout the day w/ representatives from Greene County Resource Management, discuss samples and associated paperwork/sample processing
- 1834 Arrive back @ hotel, process samples and paperwork, prepare samples and paperwork <sup>for</sup> FedEx priority overnight shipment, ice down sample coolers
- 1912 Depart hotel en route to FedEx location
- 1918 Arrive @ FedEx, complete paperwork for shipment of two coolers
- 1931 Depart FedEx en route to hotel
- 1938 Arrive @ hotel, end of day

Jim DeB...

1-24-12

Rite in the Rain



## Compass Plaza

1-25-12

- 0834 STM's DeBruine and Merriman depart hotel en route to Rogersville to meet w/ EPA OSC Ferguson
- 0900 Arrive @ Jamestown Plaza in Rogersville, discuss/prepare for day's activities w/ EPA OSC Ferguson
- 0928 Arrive @ 436 East Center Street, property owner already granted access, collect GW sample 5627-37  
GPS = 37.11499, -93.04749
- 0954 Arrive @ 1255 Henderson, property owner already granted access, collect GW sample 5627-38, triple volume (MS/MSD sample)  
GPS = 37.13128, -93.04411
- 1028 Arrive @ 1756 Henderson Road, property owner already granted access, collect GW sample 5627-39  
GPS = 37.12844, -93.03618
- 1049 Arrive @ 71 Red Rock Road, property owner already granted access, shares well w/ 64 Red Rock Road and 96 Red Rock Road, collect GW sample 5627-40  
GPS = 37.13488, -93.04922

## Compass Plaza

1-25-12

- 1105 Arrive @ 145 Red Rock Road, property owner already granted access, shares well w/ 182 Red Rock Road and 214 Red Rock Road, collect GW sample 5627-41  
GPS = 37.13485, -93.04816
- 1138 Arrive @ <sup>822 JD</sup>~~858~~ Henderson Road, no one home
- 1142 Arrive @ 904 Henderson Road, no one home
- 1146 Arrive @ 739 Henderson Road, no one home
- 1151 Arrive @ 583 Henderson Road, property owner grants access, collect GW sample 5627-42  
GPS = 37.13738, -93.05334
- 1238 Lunch
- 1323 End lunch
- 1337 Arrive @ 40 Shagbark, no one home
- 1339 Arrive @ 55 Shagbark, property owner grants access, collect GW sample 5627-43  
GPS = 37.12508, -93.05688
- 1402 Arrive @ 154 Shagbark Lane, no one home

*Rite in the Rain*



## Compass Plaza

1-25-12

- 1404 Arrive @ 224 Shagbark Lane, no one home  
 1406 Arrive @ 304 Shagbark Lane, no one home  
 1409 Arrive @ 352 Shagbark Lane, no one home  
 1426 Arrive @ 154 Shagbark Lane, property owner  
 is outside and grants access, collect GW  
 sample 5627-45  
 GPS = 37.12556, -93.05885  
 1509 Arrive @ Willow Green Gardens; property  
 owner grants access, collect GW sample  
 5627-46  
 GPS = 37.10871, -93.06523  
 1550 Arrive @ unknown address on East Farm Road 186,  
 no one home  
 1609 Arrive @ 1113 Indian Grove, property owner  
 already granted access, collect GW  
 sample 5627-47  
 GPS = 37.12160, -93.03542  
 1634 Arrive @ 12 Henderson Road, property owner  
 grants access, collect GW sample 5627-48  
 GPS = 37.14154, -93.06194  
 1657 Arrive @ 54 Henderson Road, property owner  
 already granted access, shares well w/  
 52 Henderson Road, collect GW sample  
 5627-49  
 GPS = 37.14079, -93.06095

## Compass Plaza

1-25-12

- 1715 Collect/process Field Blank sample  
 (sample 5627-51-FB)  
 1721 Arrive @ 124 Henderson Road, property  
 owner already granted access, collect  
 GW sample 5627-50  
 GPS = 37.14105, -93.06020  
 1737 Process/label Trip Blank sample  
 (sample 5627-52-FB)  
 1813 Arrive @ hotel, process samples  
 and paperwork, prepare samples  
 and coolers for hand delivery to  
 EPA Region 7 Lab in Kansas City, KS  
 tomorrow, put samples on ice  
 1855 End of day

Jim DeB  
 1-25-12



Compass Plaza 1-26-12

- 0810 STM's DeBruine and Merriman depart hotel en route to Tetra Tech office in Kansas City
- 1056 Arrive @ Tetra Tech office in Kansas City, unload vehicle, prepare samples and paperwork for hand delivery to EPA Region 7 Lab in Kansas City, KS
- 1228 Arrive @ EPA lab and drop off one sample cooler
- 1250 Arrive back @ Tetra Tech, end of day

Jr DeBruine  
1-26-12

Compass Plaza 2-27-12

- 1040 STM's DeBruine, Gray, and Wiederhott depart Tetra Tech office in KC en route to Rogersville
- 1405 Meet STM Jackson in Rogersville, discuss project activities
- 1420 Arrive @ 10074 East Farm Road 186, collect GW sample 5669-1
- 1449 Arrive @ 5761 South Farm Road 247, collect GW sample 5669-2, collect triple volume (MS/MSD sample)
- 1512 Arrive @ 5660 South Farm Road 247, collect GW sample 5669-3 and 5669-4, pre-treatment and post-treatment samples
- 1539 Arrive @ 5594 South Farm Road 247, no one home
- 1543 Arrive @ 5480 South Farm Road 247, collect GW sample 5669-5 and 5669-6, pre-treatment and post-treatment samples
- 1613 Arrive @ 5412 South Farm Road 247, collect GW sample 5669-7
- 1638 Arrive @ 5594 South Farm Road 247, collect GW sample 5669-8

Rite in the Rain



## Compass Plaza

2-27-12

- 1649 Arrive @ 9372 East Farm Road 186,  
collect GW sample 5669-9 and  
5669-10, pre-treatment and post-  
treatment samples
- 1710 Arrive @ 9341 East Farm Road 186,  
collect GW sample 5669-11
- 1728 Arrive @ 9267 East Farm Road 186,  
collect GW sample 5669-12 and  
5669-13, property has two wells
- 1848 Arrive @ hotel in Springfield, end of day

Jm DeB  
2-27-12

## Compass Plaza

2-28-12

- 0855 Depart hotel en route to meet w/  
EPA OSC Ferguson @ Jamestown  
Plaza in Rogersville
- 0924 Arrive @ Jamestown Plaza, discuss  
project activities w/ EPA OSC  
Ferguson
- 0959 Arrive @ unknown address on  
South Farm Road 247, collect  
GW sample 5669-14  
GPS = 37.10771, -93.08812
- 1027 Arrive @ 1098 Elm Grove Road,  
collect GW sample 5669-15
- 1058 Arrive @ 999 Highway VV, property  
has already been sampled
- 1112 Arrive @ 539 Chicory Road, collect  
GW sample 5669-16  
GPS = 37.09714, -93.04040
- 1142 Arrive @ 6555 South Farm Road 223,  
collect GW sample 5669-17  
GPS = 37.09114, -93.13867
- 1219 Lunch
- 1253 End lunch
- 1301 Arrive @ 945 Shilee Drive, collect  
GW sample 5669-18  
GPS = 37.11951, -93.03652 *Rite in the Rain*



## Compass Plaza 2-28-12

- 1319 Arrive @ 949 Shilee Drive, collect  
GW sample 5669-19  
GPS = 37.11988, -93.03583
- 1340 Arrive @ 807 State Hwy B, collect GW  
sample 5669-20  
GPS = 37.12930, -93.05891
- 1400 Arrive @ 1145 State Hwy B, collect GW  
sample 5669-21  
GPS = 37.13092, -93.05918
- 1421 Arrive @ 136 Academy Drive, collect  
GW sample 5669-22  
GPS = 37.13877, -93.05951
- 1442 Arrive @ unknown address on Academy Drive,  
no one home
- 1447 Arrive @ 270 Academy Drive, no one home
- 1451 Arrive @ 344 Academy Drive, no one home
- 1454 Arrive @ 428 Academy Drive, no one home
- 1459 Arrive @ 534 Academy Drive, no one home
- 1502 Arrive @ 537 Academy Drive, no one home
- 1507 Arrive @ 461 Academy Drive, no one home
- 1510 Arrive @ 247 Academy Drive, no one home
- 1513 Arrive @ 153 Academy Drive, property owner  
grants access, collect GW sample 5669-23  
GPS = 37.13912, -93.05885

## Compass Plaza 2-28-12

- 1535 Arrive @ <sup>3322 JP</sup> 3120 Know It All Lane,  
no one home
- 1541 Arrive @ 3338 Know It All Lane,  
no one home
- 1545 Arrive @ 3212 Know It All Lane,  
no one home
- 1551 Arrive @ 3208 Know It All Lane,  
no one home
- 1553 Arrive @ 3120 Know It All Lane,  
property owner grants access, collect  
GW sample 5669-24  
GPS = 37.15430, -93.07589
- 1648 Arrive @ 6485 East Summit View  
Drive, collect GW sample 5669-25  
GPS = 37.16622, -93.15710
- 1729 Arrive @ hotel in Springfield, prepare  
samples / coolers and paperwork  
for FedEx shipment, pack three  
coolers w/ samples and ice
- 1914 Depart hotel en route to FedEx location
- 1922 Arrive @ FedEx, drop off three  
coolers for priority overnight shipment  
to EPA Region 7 Lab
- 1945 Arrive back @ hotel, end of day

Jim DeB... 2-28-12 *Rite in the Rain*



## Compass Plaza

2-29-12

- 0840 Depart hotel en route to meet w/  
EPA OSC Ferguson @ Jamestown  
Plaza in Rogersville
- 0903 Arrive @ Jamestown Plaza, discuss  
day's activities w/ EPA OSC Ferguson
- 0938 Arrive @ 9176 East Farm Road 186,  
collect GW sample 5669-26
- 1002 Arrive @ 8953 East Farm Road 186,  
collect GW sample 5669-27, triple volume
- 1038 Arrive @ 1161 State Hwy B, collect  
GW sample 5669-28  
GPS= 37.13370, -93.06320
- 1107 Arrive @ 10150 Center Street, collect  
GW sample 5669-29
- 1131 Arrive @ 1838 State Hwy B, collect  
GW sample 5669-30  
GPS= 37.14234, -93.06065  
Also collect GW sample 5669-31 from  
spring located on property (southeast of house)  
GPS= 37.14168, -93.06017
- 1218 Lunch
- 1252 End lunch, discuss activities for the  
remainder of day w/ EPA OSC Ferguson
- 1319 Arrive @ 3338 Know It All Lane,

## Compass Plaza

2-29-12

- collect GW sample 5669-32  
GPS= 37.14974, -93.07391
- 1335 Collect/process field blank sample,  
sample 5669-76-FB
- 1350 Arrive @ 480 White Oak Road,  
collect GW sample 5669-33  
GPS= 37.12288, -93.02860
- 1418 Arrive @ 9123 East Farm Road 186,  
collect GW sample 5669-34  
GPS= 37.10395, -93.09678
- 1450 Arrive @ 9008 East Farm Road 186,  
collect GW sample 5669-35  
GPS= 37.10139, -93.09994
- 1515 Process/label trip blank sample,  
sample 5669-77-FB
- 1519 Arrive @ 5836 South Farm Road 241,  
collect GW sample 5669-36  
GPS= 37.10334, -93.10119  
collect triple volume (MS/MSD sample)
- 1540 Arrive @ 6049 South Farm Road 241,  
collect GW sample 5669-37  
GPS= 37.09927, -93.10329
- 1556 Arrive @ 6025 South Farm Road 241,  
collect GW sample 5669-38  
GPS= 37.09990, -93.10414
- Rite in the Rain*



- 1629 Arrive @ Smallin Cave in Ozark, Mo,  
collect GW sample 5669-39  
GPS = 37.05141, -93.18820
- 1759 Arrive @ hotel in Springfield, unload  
samples, supplies, and equipment from  
STM's Jackson's rental vehicle and  
transfer to vehicle that will be  
returning to KC Tetra Tech office  
tomorrow, put ice in sample coolers
- 1817 End of day

*Jim DeBruin*  
2-29-12

- 0807 STM's DeBruin, Gray, and  
Wiederholt depart hotel en route  
to Tetra Tech office in KC
- 1100 Fuel up vehicle
- 1105 Arrive @ Tetra Tech in KC, unload  
vehicle, prepare samples and  
paperwork for delivery to EPA  
Region 7 lab
- 1205 Arrive @ lab, drop off two  
sample coolers
- 1220 Arrive back @ Tetra Tech office  
in KC

*Jim DeBruin*  
3-1-12



## Compass Plaza

5-1-12

- 0852 STM's DeBruine, Wiederholt, Mammoliti,  
and Canacari depart hotel en route to  
Jamestown Plaza in Rogersville
- 0918 Arrive @ Jamestown Plaza in Rogersville,  
discuss project activities and conduct  
daily tailgate safety meeting
- 1010 Arrive @ 247 Academy Drive, collect  
GW sample 5743-1  
GPS = 37.13807, -93.05783
- 1035 Arrive @ 461 Academy Drive, collect  
GW sample 5743-2 (triple volume - MS/  
MSD sample)  
GPS = 37.13620, -93.05498
- 1105 Arrive @ 537 Academy Drive, collect  
GW sample 5743-3  
GPS = 37.13511, -93.05344
- 1129 Arrive @ 387 Henderson Road, collect  
GW sample 5743-4  
GPS = 37.13914, -93.05457
- 1202 Lunch
- 1236 End lunch
- 1248 Arrive @ 1686 White Oak Road, collect  
GW sample 5743-5  
GPS = 37.13946, -93.02512

## Compass Plaza

5-1-12

- 1313 Arrive @ 1907 State Hwy B,  
collect GW sample 5743-6  
GPS = 37.14315, -93.05980
- 1340 Arrive @ 7753 East Farm Rd. 148,  
collect GW sample 5743-7  
GPS = 37.17876, -93.12538
- 1419 Arrive @ 4104 State Hwy J, collect  
GW sample 5743-8  
GPS = 37.13832, -93.19001
- 1458 Arrive @ 1325 Roller Road, collect  
GW samples 5743-9 (Well #1 @  
residence) and 5743-10 (Well #2  
in pasture for livestock)  
GPS = 37.04811, -93.10600
- 1548 Arrive @ 1597 Roller Road, collect  
GW sample 5743-11  
GPS = 37.04830, -93.10303
- 1654 Arrive @ 2168 State Highway B,  
property owner grants access, collect  
GW sample 5743-12  
GPS = 37.14437, -93.05541
- 1724 Meet w/ EPA OSC Doug Ferguson,  
discuss day's activities
- 1730 Arrive @ 2189 State Highway B,

*Rite in the Rain.*



Compass Plaza

5-1-12

- property owner grants access, collect  
GW samples 5743-13 (from well) and  
5743-14 (from spring on property)  
GPS=37.14412, -93.05924
- 1820 Arrive @ 34 Lon Road, property owner  
grants access, collect GW sample 5743-14<sup>TD</sup>  
GPS=37.14804, -93.05590
- 1900 Arrive @ 123 Harper Street, collect GW  
sample 5743-16  
GPS=37.12001, -93.08324
- 1942 Arrive @ hotel in Springfield, process  
samples and paperwork, unload sample  
cooler from vehicle and put samples on ice
- 1954 End of day

Jim DeB  
5-1-12

Compass Plaza

5-2-12

- 0841 STM's DeBruine and Wiederholt depart  
hotel en route to meet STM's  
Mammoliti and Canacari und EPA  
OSC Ferguson @ Jamestown Plaza  
in Rogersville
- 0902 Arrive @ Jamestown Plaza in  
Rogersville, discuss day's activities  
and conduct daily tailgate  
safety meeting
- 0948 Arrive @ 2874 State Hwy B, no  
one home, leave informational sheet
- 1004 Arrive @ 3030 State Hwy B, no  
one home, leave informational sheet
- 1012 Arrive @ 3602 State Hwy B, property  
owner grants access, collect GW  
sample 5743-17  
GPS=37.15803, -93.04185
- 1050 Arrive @ 1225 ~~East Farm Road 156~~<sup>Bobcat Road</sup><sup>TD</sup>,  
no one home, leave informational sheet
- 1056 Arrive @ 1191 Bobcat Road, property  
owners grants access, collect GW  
sample 5743-18  
GPS=37.16184, -93.04276
- 1119 Arrive @ 1009 Bobcat Road,

Rite in the Rain



## Compass Plaza

5-2-12

- property owner denies access
- 1124 Arrive @ 692 Bobcat Road, property owner grants access, collect GW sample 5743-19  
GPS = 37.15840, -93.05317
- 1209 Arrive @ 549 Bobcat Road, property owner grants access, collect GW sample 5743-20  
GPS = 37.16174, -93.05424
- Lunch
- 1338 End lunch
- 1351 Arrive @ Century Farm Road (livestock well), collect GW sample 5743-21  
GPS = 37.14850, -93.03083
- 1426 Arrive @ 3030 State Hwy B, property owner grants access, collect GW sample 5743-22 (triple volume - MS/MSD sample)  
GPS = 37.14945, -93.04356
- 1506 Arrive @ 1758 Bobcat Road, collect GW sample 5743-23  
GPS = 37.16048, -93.03220
- 1533 Arrive @ 1761 Bobcat Road, no one home, leave informational sheet
- 1542 Arrive @ 1225 Bobcat Road, property owner denies access
- 1604 Arrive @ 10107 East Farm Road 156,

## Compass Plaza

5-2-12

- property owner denies access
- 1615 Arrive @ 9941 East Farm Rd. 156, property owner grants access, collect GW sample 5743-24  
GPS = 37.16328, -93.07649
- 1638 Arrive @ 9885 East Farm Rd. 156, no one home, leave informational sheet
- 1643 Arrive @ 2595 Gladia Drive, property owner informs that community of approximately 50 residences share the same well, will not sample because community well is sampled by the state
- 1652 Arrive @ 9704 East Farm Road 156, no one home, leave informational sheet
- 1657 Arrive @ 9703 East Farm Road 156, property is served by community well
- 1708 Arrive @ 9521 East Farm Road 156, property owner informs that he just installed a well and had it tested, denies access
- 1714 Arrive @ 9471 East Farm Road 156, no one home
- 1718 Arrive @ 9488 East Farm Road 156,

Rite in the Rain



## Compass Plaza

5-2-12

- property owner grants access, collect  
GW sample 5743-25  
GPS = 37.16198, -93.08720
- 1753 Arrive @ 2871 State Highway U,  
collect GW sample 5743-26  
GPS = 37.07499, -93.07701
- 1845 Arrive @ hotel in Springfield, process and  
prepare paperwork/fieldsheets for FedEx  
shipment and prepare samples and coolers  
(pack coolers with samples and ice) for  
FedEx shipment
- 1954 Depart hotel en route to FedEx location
- 2001 Arrive @ FedEx, drop off three sample  
coolers for priority overnight delivery  
to EPA Region 7 Lab
- 2008 Depart FedEx en route to hotel
- 2015 Arrive @ hotel, end of day

Jim DeBruin  
5-2-12

## Compass Plaza

5-3-12

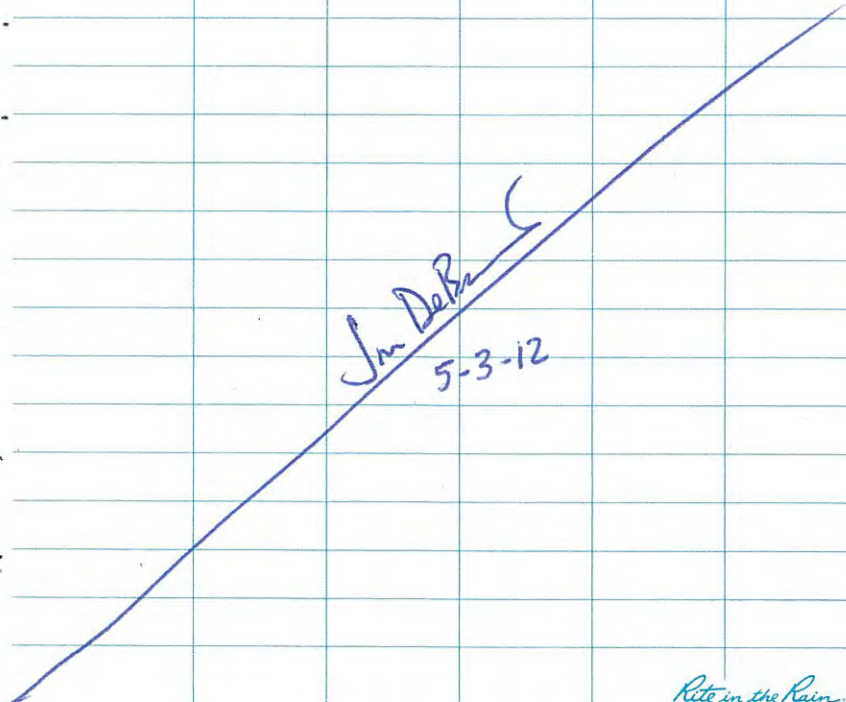
- 0839 STM's DeBruine, Wiederholt,  
Mammoliti, and Canacari depart  
hotel en route to Jamestown Plaza  
in Rogersville to meet EPA OSC  
Ferguson
- 0905 Arrive @ Jamestown Plaza in  
Rogersville, discuss day's activities  
and conduct daily tailgate safety  
meeting
- 0926 Fuel up vehicle
- 0943 Arrive @ 7580 E. County Line Road,  
collect GW sample 5743-27  
GPS = 37.08803, -93.09726
- 1031 Arrive @ 90 Lon Road, no one home,  
leave informational sheet
- 1044 Arrive @ 183 Lon Road, property  
owner grants access, collect GW  
sample 5743-28  
GPS = 37.14906, -93.05650
- 1113 Process/label trip blank sample  
(sample 5743-102-FB)
- 1122 Arrive @ ??? Lon Road, no one  
home, leave informational sheet
- 1124 Arrive @ 318 Lon Road, no one

Rite in the Rain



	Compass Plaza	5-3-12
	home, leave informational sheet	
1127	Arrive @ 509 Lon Road, property owner grants access, collect GW sample 5743-29	
	GPS = 37.15384, -93.05727	
1150	Arrive @ 538 Lon Road, property owner denies access	
120	Lunch	
1256	End lunch 5:15 PM	
1308	Arrive @ <del>755</del> <sup>577<sup>th</sup></sup> Lon Road, no one home,	
1312	Arrive @ <del>757</del> <sup>577<sup>th</sup></sup> Lon Road, no one home, leave informational sheet	
1318	Arrive @ 760 Lon Road, no one home, leave informational sheet	
1321	Arrive @ ??? Lon Road, no one home	
1323	Arrive @ 818 Lon Road, no one home	
1325	Arrive @ 830 Lon Road, no one home, leave informational sheet	
1327	Arrive @ <del>829</del> <sup>TD</sup> 825 Lon Road, property owner grants access, collect GW sample 5743-71 (triple volume - MS/MSD sample)	
	GPS = 37.15808, -93.05800	
1356	Collect/process field blank sample (sample 5743-101-FB)	

	Compass Plaza	5-3-12
1405	Arrive @ 827 Lon Road, property owner grants access, collect GW sample 5743-72	
	GPS = 37.15961, -93.05890	
1427	Depart for return trip to KC Tetra Tech office	
1744	Arrive @ KC Tetra Tech office, unload vehicle, prepare samples for delivery to EPA Region 7 lab tomorrow	
1802	End of day	


  
 Jim DeBruin  
 5-3-12

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*Rite in the Rain*

ALL-WEATHER

**LEVEL**

No 311

Compass Plaza Well TCE Site  
Rogersville, MO

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2.

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2

## Compass Plaza TCE 2-27-12

- 0930 Load equipment & supplies into START vehicle.
- 1040 Leave T&EMI-KC. Drive to site.
- 1402 Arrive at site. Meet up with STM Jackson.
- 1415 Arrive at 10074 E. Farm Rd 186. Sample new well. Gw sample 5669-1.
- 1452 Arrive at 5795 SFR 247. Collect gw sample 5669-40 from hydrant next to garage.
- 1518 Arrive at 5673 SFR 247. Collect gw sample 5669-41 from spigot on south side of home.
- 1541 Arrive at 5449 SFR 247. Collect gw sample 5669-42 from hydrant at wellhead
- 1558 Arrive at 5352 SFR 247. Collect gw sample 5669-43 from spigot on N side of home.
- 1623 OSC Ferguson arrives at 5352 SFR 247. Discuss project activities.
- 1640 Arrive at 9401 EFR 186. Scott Steelman 417-693-6601. Collect gw sample from spigot on wellhouse in BYR, 5669-44

3

## Compass Plaza TCE 2-27-12

- 1706 Arrive at 9353 EFR 186. Collect gw sample 5669-45 at spigot on E side of house.
- 1742 Arrive at 9243 EFR 186. Collect gw sample 5669-46 at hydrant in BYL
- 1830 End of day.

2-27-12

Rite in the Rain.



## Compass Plaza TCE 2-28-12

- 0815 Organize sampling supplies in START vehicle. Preserve VOA vials. Add new ice to samples.
- 0854 Leave hotel. Drive to site.
- 0923 Arrive at site. Discuss sampling activities with OSC Ferguson.
- 1006 1665 Center St - NO ANSWER
- 1011 370 White Oak Rd - ACCESS GRANTED - sample (5669-47) hydrant @ wellhead - 37.12246, -93.02602
- 1038 409 White Oak Rd - ACCESS GRANTED - sample (5669-48) hydrant by pool - 37.12190, -93.03058
- 1119 1314 Century Farm Rd - ACCESS GRANTED  
WELL #1 (serves garden & livestock): sample (5669-49)  
WELL #2 (serves house): sample (5669-50) - 37.14580, -93.02312
- 1142 1906 White Oak Rd - ACCESS GRANTED - sample (5669-51) hydrant @ wellhead 37.14281, -93.02495
- 1313 1741 Center Rd - ACCESS GRANTED - sample (5669-52) spigot on back of home • 37.11734 -93.02484

## Compass Plaza TCE 2-28-12

- 1329 1665 E. Center Rd - NO ANSWER
- 1334 480 White Oak Rd - NO ANSWER
- 1339 644 White Oak Rd - ACCESS GRANTED - sample (5669-53) spigot on front of home: 37.12492, -93.02750
- 1356 51 Autumn Circle - NO ANSWER
- 1401 594 Autumn Circle - NO ANSWER
- 1406 558 Autumn Circle - NO ANSWER
- 1410 Unknown address on Autumn Circle - NO ANSWER
- 1415 450 Autumn Circle - NO ANSWER
- 1420 323 Autumn Circle - ACCESS GRANTED - sample (5669-54) hydrant @ wellhead - 37.12439, -93.02512
- 1437 235 Autumn Circle - ACCESS GRANTED - sample (5669-55) hydrant @ wellhead - 37.12387, -93.02638
- 1455 258 Autumn Circle - ACCESS GRANTED - sample (5669-56) hydrant @ wellhead - 37.12325, -93.02630
- 1507 218 Autumn Circle - ACCESS GRANTED - sample (5669-57) hydrant @ wellhead - 37.12386, -93.02732
- 1524 889 Autumn Circle - ACCESS GRANTED - sample (5669-58) spigot by front door - 37.12800, -93.02731 *Note in the Rain.*



## Compass Well TCE 2-28-12

- 1553 36 Delzell Woods Rd - ACCESS GRANTED -  
sample (5669-59) spigot on back of garage -  
37.12791, -93.02608
- 1610 1058 White Oak Road - NO ANSWER
- 1618 1150 White Oak Road - ACCESS GRANTED -  
sample (5669-60) spigot on shed -  
37.13226, -93.02628
- 1639 1169 White Oak Road - ACCESS GRANTED -  
sample (5669-61) hydrant by garage -  
37.13231, -93.02715
- 1739 Arrive at hotel. Prepare gw samples  
for delivery to lab.
- 1815 End of day.

*[Signature]*

2-28-12

## Compass Well TCE 2-29-12

- 0800 Preserve more VOA vials. Organize  
sampling supplies.
- 0847 Leave hotel. Drive to site.
- 0913 Arrive at Jamestown Plaza. Discuss  
project activities with OSC Ferguson.
- 0950 1209 White Oak Rd - ACCESS GRANTED -  
sample (5669-62) spigot on wellhouse -  
37.13368, -93.02802
- 1005 1334 White Oak Rd - NO ANSWER
- 1009 65 Serene Drive - ACCESS GRANTED -  
sample (5669-63) hydrant @ wellhead -  
37.13499, -93.02765
- 1029 1686 White Oak Rd - NO ANSWER
- 1033 1777 White Oak Rd - ACCESS GRANTED -  
sample (5669-64) hydrant by shed in BY -  
37.1400<sup>14100</sup>, -93.02549  
<sub>2-29-12</sub>
- 1050 Century Farm Rd - ACCESS GRANTED -  
(195) sample (5669-65) hydrant @ wellhead -  
37.14696, -93.02598
- 1106 1150 Century Farm Rd - ACCESS GRANTED -  
sample (5669-66) hydrant by LP tank -  
37.14515, -93.02624
- 1124 1079 Century Farm Rd - NO ANSWER
- 1127 942 Century Farm Rd - NO ANSWER

*Rate in the Rain.*



## Compass Plaza TCE 2-29-12

- 1130 851 Century Farm Rd - NO ANSWER  
 1133 684 Century Farm Rd - NO ANSWER  
 1136 648 Century Farm Rd - spoke with tenant - landlord lives by Hwy B  
 1140 129 Century Farm Rd - NO ANSWER  
 1315 278 Century Farm Rd - NO ANSWER  
 1320 303 Century Farm Rd - ACCESS GRANTED -  
~~sample~~ (5669-67) spigot on well house -  
 37.14726, -93.04181  
 1345 278 Century Farm Rd - ACCESS GRANTED -  
 sample (5669-70) spigot on well house -  
 37.14646, -93.04221  
 1407 513 Century Farm Rd - ACCESS GRANTED -  
 sample (5669-68) spigot on back of house -  
 37.14709, -93.03798  
 1423 392 Century Farm Rd - ACCESS GRANTED -  
 sample (5669-71) spigot on W side of home -  
 37.14647, -93.04012  
 1443 518 Century Farm Rd - ACCESS GRANTED -  
 sample (5669-72) spigot on back of house -  
 37.14651, -93.03775  
 1506 3979 N. State Hwy B - ACCESS GRANTED -  
 sample (5669-69) spigot on S side of home -  
 37.16349, -93.04171

## Compass Plaza TCE 2-29-12

- 1521 12 Henderson Rd - owner stated that well was sampled on 1-24-12 but he hasn't received results yet - take contact info - will review lab data brought down by OSC Ferguson  
 1536 54 Henderson Rd - owner states that well has already been sampled (not sure when) - ACCESS GRANTED to resample - sample (5669-73) spigot on well house  
 1623 183 Lon Rd - NO ANSWER  
 1633 538 Lon Rd - NO ANSWER  
 1636 655 Lon Rd - ACCESS GRANTED - sample (5669-74) spigot on front of house  
 37.15575, -93.05732  
 1658 471 Indigo Rd - ACCESS GRANTED - sample (5669-75) hydrant @ wellhead - 37.13610, -93.01815  
 1800 Arrive at hotel. End of day.

*D. Gray*  
 2-29-12



## Compass Plaza TCE 3-1-12

- 0807 Leave hotel. Drive back to KC.  
 1100 Fuel up START vehicle.  
 1105 Arrive at TCEMI-KC. Unload vehicle.  
 Prepare yw samples for delivery to lab.

↑  
 3-1-12  
 ↓

## Compass Well TCE 5-1-2012

- 0840- Departed From Hotel to Roseraville  
 0900- Met With Tetra Tech Team members DeBruine, Wetherhoff to discuss sampling activities  
 10:00 ~~arrived~~ mobilized to store to get Batteries for the GPS Unit and Stress drinks  
 1005 Mobilized to first sampling location West Ferrell Rd on Hwy 60  
 1019 6898 East Farm Rd 170 - No answer  
 1024 7095 East farm Rd 170 - No answer  
 1032 4193 Zion Lane and E Farm Rd 120 access granted.  
 1048 Collected water sample <sup>5743-30</sup> from outside Spigot on West Side of House  
 37.13474, -93.14025  
 11024 ~~4176~~ 4176 S. Farm Rd 223 - No answer  
 1104 4134 No Residents/No occupants  
 1106 4120 S. Farm Rd 223 - No answer  
 1108 4106 S. Farm Rd 223 - No answer  
 1110 4062 S. Farm Rd 223 - No answer  
 1112 4097 S. Farm Rd 223 - No answer  
 1118 4050 S. Farm Rd 223 - Spoke to Resident, said access denied  
 Note in the Rain.



## 5-1-12 Compass Plaza TCE

- 1118 cont. Resident said Subdivision Drinking Water was all on one well and referred team to Home Owners Association Board/President may grant access (Charlie German) at
- 11127 arrived at 4036 E Tallmadge Ave to ask residents if they know where Charlie German resides - No answer
- 1129 arrived at 4035 E Tallmadge Ave to ask resident where Charlie German resides and access granted; Resident Verified Drinking Water to all residents in Eastborough Subdivision was from a single well
- 1143 Collected Sample 5743-31 From outside spigot on East Side of house 37.13639, -93.13570 at 4035 E Tallmadge Rd
- 1156 Take Lunch
- 1230 wrap up lunch; Mobilize Back to County Rd 223, 3955 S
- 1245 Arrived at 3955 S. Farm Rd. 223 No answer
- 1248 Arrive at 3912 S. Farm Rd 223; Access granted
- 1310 Collected Water Sample 5743-32 From

## 5-1-12 Compass Plaza TCE

Cont.

- 1310 outside spigot on West Side of House 37.13905, -93.13670
- 1321 arrived at 3875 S. Farm Rd 223 no answer
- 1324 arrived at 3803 S. Farm Rd 223 no answer
- 1327 arrived at 3777 S. Farm Rd 223 access denied
- 1329 arrived at 3753 S. Farm Rd 223 access denied
- 1331 arrived at 7317 Loganwood Ln E access granted
- 1344 Collected Water Sample 5743-33 From outside spigot located on West Side of House 37.14241, -93.13712
- 1352 arrived at 7316 Loganwood Ln E access granted
- 1403 Collected Water Sample 5743-34 From outside spigot on North Side of House; 37.14201, -93.13663; Resident Confirmed that Households on Loganwood Lane were all on separate wells.
- 1411 arrived at 7342 Loganwood Ln E no answer
- 1413 arrived at 7343 Loganwood Ln E access denied
- 1415 arrived at 7366 Loganwood Ln E access granted;
- 1427 Collected Water Sample 5743-35 From spigot on Outside of house South Side; 37.14170, -93.13710.

Rite in the Rain.



5-1-12 Compass Plaza TCE

- 1435 Arrived at 7367 Loganwood Lane E access granted;
- 1447 Collected water sample 5743-36 From outside spigot on South Side of house; 37.14239, -93.13480.
- 1455 Arrived at 7425 Loganwood Ln access granted;
- 1508 Collected water sample 5743-37 From outside spigot on North Side of House 37.14254, -93.13388.
- 1519 Arrived at 7424 Loganwood Ln access granted;
- 1532 Collected water sample 5743-38 From outside spigot on North side of house 37.14184, -93.13412.
- 1540 Arrived at 7440 Loganwood Ln access granted;
- 1554 Collected water sample 5743-39 From outside spigot on Front of House (NW) 37.14180, -93.13333.
- 1602 Arrived at 7441 Loganwood Ln access granted;
- 1612 Collected water sample 5743-40 From outside spigot on West Side of House (Front) 37.14209, -93.13318.

5-1-12 Compass Plaza TCE

- 1622 Arrived at 3711 S. Farm Rd 223 no answer
- 1625 Arrived at 3649 S. Farm Rd 223
- 1628 Arrived at 3672 S. Farm Rd 223 access granted;
- 1642 Collected water sample 5743-41 From spigot on West Side of house (Front) 37.14346, -93.13675.
- 1650 Arrived at 3667 S. Farm Rd 223 access granted;
- 1700 Collected Sample 5743-42 From outside spigot on East Side of house (Front) 37.14359, -93.13741.
- 1713 Arrived at 3651 S. Farm Rd 223 - no answer.
- 1718 Arrived at 3644 S. Farm Rd 223 - access granted;
- 1732 Collected water sample 5743-43 From outside spigot on West side of house (Front) 37.14404, -93.13622.
- 1742 Arrived at the SW corner intersection of S. Farm Rd 223 & E Farm Rd 164 - no answer.
- 1748 wrap up & return to hotel.
- 1812 Arrive at Hotel End of Day *Rain in the Rain*



## 5-2-12 Compass Plaza TCE

- 0830 Leave Hotel For Rogersville.  
 0852 Arrived in Rogersville.  
 0909 Arrived at Meeting Location to Meet DeBrink, Westerholt, & EPA OSC  
 Doug Ferguson to get more supplies and field sheets and discuss sampling activities.  
 0933 Arrived at 7294 E Farm Rd 164 access granted;  
 0950 Collected water sample 5743-44 From outside spigot on N. Side of House (Front) 37.14466, 93.13750.  
 0957 Arrived at 7214 E Farm Rd 164; No answer  
 0959 Arrive at 7185 E Farm Rd 164; access granted;  
 1013 Collected water sample 5743-45 From Kitchen Sink Inside house (Resident Request) 37.14459, 93.13953.  
 1027 Arrived at 7320 E Farm Rd 164; No answer.  
 1030 Arrived at 7364 E Farm Rd 164; No answer.  
 1032 Arrived at 7394 E Farm Rd 164; access granted.  
 1045 Collected water sample 5743-46 From outside spigot on N. Side of House (Front) 37.14457, 93.13504.

## 5-2-12 Compass Plaza TCE

- 1054 Arrived at 7438 E Farm Rd 164; access granted  
 1108 Collected water sample 5743-47 From Spigot on Well head on NW Side of Property 37.14461, 93.13325.  
 1114 Arrived at 7486 E Farm Rd 164; no answer.  
 1117 Arrived at 7512 E Farm Rd 164; no answer.  
 1121 Arrived at 3675 S. Farm Rd 227; ~~no answer.~~ access granted;  
 1141 Collected water sample 5743-48 From outside spigot on South Side of House; 37.14319, 93.12836.  
 1150 Take Lunch and refuel start vehicle  
 1245 Arrived at 4039 S Farm Rd 227; No answer.  
 1248 Arrived at 4075 S. Farm Rd 227; no answer  
 1251 Arrive at 4167 S. Farm Rd 227; no answer.  
 Arrived at 7619 E Farm Rd 170; no answer.  
 1301 Arrived at 3568 S. Farm Rd 227; no answer



5-2-12 Compass Plaza Well TCE

- 1303 Arrived at 3540 S. Farm Rd 227;  
access granted
- 1317 Collected Water Sample 5743-49  
from Spigot in Back yard  
(East of house) 37.14597, 93.12733.
- 1320 Calibrated Water quality meter  
pH's 4.0, 7.0, 10.0 and 1413  $\mu\text{S}/\text{cm}$   
Conductivity. OK
- 1338 Arrived at 3508 S. Farm Rd 227; ~~no~~  
~~answer~~ Access Granted;
- 1351 Collected Water Sample 5743-50  
from Spigot on East Side of  
house (Back) 37.14656, 93.12740;  
House # 3456 S. Farm Rd 227  
Uses same Well as Residents at  
3508 S. Farm Rd 227.
- 1406 Arrived at 3275 S. Farm Rd 227; No answer.
- 1410 Arrive at 3176 S. Farm Rd 227; access  
granted;
- 1424 Collected Water Sample 5743-51  
from outside Spigot on South  
Side of House, 37.15211, 93.12746.
- 1440 Received <sup>call</sup> from Tedra Tech EMT Team  
member Jon DeBruine that we'd granted  
access to Sample from 7342 E  
Loganwood Lane Residence.

5-2-12 Compass Plaza Well TCE

- 1440 Arrived at 7342 E Loganwood Lane;
- 1448 Collected Water Sample 5743-52  
from outside spigot on North  
Side of House (front) 37.14188, 93.13567.
- 1515 Arrived at Rogersville Turn # 60  
4996 Hwy 12 to pick up Ice  
for Samples
- 1527 Arrived at 3201 S. Farm Rd 227;  
no answer.
- 1531 Arrived at 3173 S. Farm Rd 227;  
access granted
- 1546 Collected ~~well~~ Water Sample  
5743-53 from Spigot in Back  
yard (west of house) 37.15228,  
93.13110.
- 1558 Arrived at 3144 S. Farm Rd 227; no answer.
- 1600 Arrive at 3124 S. Farm Rd 227; access granted
- 1611 Collected Water Sample 5743-54  
from Kitchen Sink inside House  
37.15336, 93.12810.
- 1625 Arrived at 3098 S. Farm Rd 227; no  
answer.
- 1630 Arrived at 3097 S. Farm Rd 227; no  
answer.

*Rite in the Rain.*



5-2-12 Compass Plaza Well TCE

- 1634 Arrived at 3052 S. Farm Rd 227; access denied
- 1638 Arrived at 3036 S. Farm Rd 227; no answer
- 1641 Arrived at 3006 S. Farm Rd 227; access granted;
- 1653 Collected water sample 5743-56 from outside spigot on E side of house 37.15593, 93.12511.
- 1704 Arrived at 7809 E Farm Rd 164; Access denied.
- 1708 Arrived at 7843 E Farm Rd 164; access granted;
- 1718 Collected water sample 5743-56 from outside spigot on West side of house 37.14565, 93.12885.
- 1728 Arrived at 7927 E Farm Rd 164; NO answer.
- 1732 Arrived at 7938 E Farm Rd 164; NO answer.
- 1735 Arrived at 7977 E Farm Rd 164; access granted;
- 1748 Collected water sample 5743-57 from outside spigot on East side of house, 37.14565, 93.12171.
- 1756 Returned to Hotel <sup>for samples for shipment</sup>
- 1821 Arrived at Hotel <sup>End of Day</sup> 5-2-12

5-3-12 Compass Plaza Well TCE

- 08:30 Check out of Hotel and mobilize to Rogersville for Meeting with OSC Doug Ferguson and TetraTech Env. Team members DeBorja, Wriederholt.
- 09:05 Arrive in Rogersville; meet with OSC & TetraTech team members discuss sampling activities and get more supplies & field sheets
- 0925 Arrived at 4869 S MO125 Hwy; NO answer.
- 0929 Arrived at 4497 S. MO125; NO answer.
- 0932 Arrived at 4134 S. MO125; access granted;
- 0948 Collected water sample 5743-58 from sink on back porch (E side) 37.13499, 93.11846.
- 0958 Arrived at 3778 S MO125; NO answer.
- 1003 Arrived at 3775 S. MO125; NO answer.
- 1008 Arrived at 3588 S MO125; NO answer.
- 1011 Arrived at 3587 S MO125;
- 1014 Arrived at 3481 S MO125;

Rite in the Rain.



## 5-3-12 Compass Plaza Well TCE

- 1014 Cont Access granted to Sample from resident at 3481 S. MO 125
- 1024 Collected Water Sample 5743-59 From outside spigot in yard South of House, 37.14673, 93.11965.
- 1034 Arrived at 3434 S. MO 125; No answer.
- 1040 Arrived at 3425 S. MO 125; No answer.
- 1045 Arrived at 3389 S. MO 125; No answer.
- 1047 Arrived at 3357 S. MO 125; No answer.
- 1050 Arrived at 3305 S. MO 125; No answer.
- 1053 Arrived at 3263 S. MO 125; ~~No answer.~~ access granted;
- 1107 Collected water sample 5743-60 From outside spigot on E Side of house (Front). 37.15080, 93.11936.
- 1114 Arrived at 3151 S. MO 125; No answer.
- 1118 Arrived at 3027 S. MO 125; access granted;
- 1132 Collected Water Sample 5743-61 From outside spigot on the NE Side of house (Front) 37.15527, 93.12099.

## 5-3-12 Compass Plaza Well TCE

- 1139 Arrived at 3004 S. MO 125; access granted;
- 1150 Collected Sample 5743-62 From Faucet at Kitchen Sink, 37.15543, 93.11804.
- 1158 Arrived at 2960 S. MO 125; ~~no answer.~~
- 1201 Arrived at 2934 S. MO 125; ~~no answer.~~
- 1204 Arrived at 2806 S. MO 125; access granted;
- 1214 Collected Water Sample 5743-63 From outside spigot on E. side of house 37.15847, 93.11787.
- 1220 Mobilized to Rogersville for <sup>more</sup> letters to leave at residents home when they are not there.
- 12:45 Mobilized back to sampling area
- 13:00 Take lunch
- 1330 Return to sampling Arrived at 7941 E Farm Rd 170; No answer
- 1339 Arrived at 4248 S. Farm Rd 227; Access denied.
- 1340 Arrived at 4338 S. Farm Rd 227; no answer.
- 1343 Arrived at 4445 S. Farm Rd. 227; no answer



- 5-3-12 Compass Playa TCE
- 1347 Arrived at 3726 E. Farm Rd 174; access granted;
- 1400 Collected Water Sample 5743-64  
From outside spigot in yard west of house. 37.12547, 93.12804
- 1406 Arrived at 7905 E. Farm Rd 174; Access denied.
- 1412 Arrived at 4623 S. Farm Rd 229; no answer.
- 1415 Arrived at 4688 S. Farm Rd 229; no answer.
- 1417 Arrived at 4745 S. Farm Rd 229; no answer.
- 1425 Mobilized Back to Tetra Tech EMT in Kansas City.
- 1730 - Dropped off team member Canacari @ home. Departed for Tetra Tech.
- 1800 - Returned home, will return vehicle to Tech in the morning with iced samples.

End of Day  
Vik M.  
5-3-2012

- Mon 8-13-12 10,0194.000
- 0830 - STM, Dick Clayton & Joanna Scieszka @ KC off to Bad Earth & supplies into Acetal Vehicle.
- 0914 - spoke w/ OSC Ferguson, he will be arriving in Rogersville @ approx 1400 hrs.
- 1330 - Affer lunch @ Hotel in Springfield to check in.
- 1423 - Supplies for sampling set up & 1 box of vials reserved w/ HCL.
- Review H15A & Hospital Route.
- 1447 - Met OSC Ferguson.
- 1534 - At 6022 S. Farm Rd 241 to collect sample #5828-1 (re-sample)
- 1620 - Arr @ 6026 S. Farm Rd 241. Collect sample #5828-2
- 1648 - Arr @ 6205 S. Farm Rd 241 - Collect sample 5828-3 (re-sample)
- 1715 - At 6230 S. Farm Rd 241 - Collect sample 5828-4
- 1742 - Arr @ 9232 Blue Berry Lane collect sample 5828-5 (re-sample)
- Extra 1st Run MS (MSD [9 vials])
- 1806 - Arr @ well situated w/ 6230 S. Farm Rd. 241. & Back sample #5828-6
- 1920 - Arr @ Hotel
- 13-12



Tues 8-14-12

0194.000

0830- leaving hotel, will fuel & get ice  
for sample in route.

0901- Met OSC @ Fairview Parking Lot

0928- At 5352 S. Farm Rd 247 to  
sample. 5828-7- Pre Treat 5828-8 Post  
0957- At 5480 S. Farm Rd 247; home with  
treatment systems.

Collect sample 5828-9 - Post-Treat only.

1017- Arr @ 5660 S. Farm Rd 247 to sample  
short heat systems have been installed

Collect Sample 5828-10 - Pre Treat

Collect Sample 5828-11 - Post-Treat (EPA)

" " 5828-12 - Post-Treat (Oswald)

1104- Arr @ 9372 E. Farm Rd 186 to sample  
Pre & Post Treatment.

Collect Pre Sample #5828-13 & #5828-14 Post

1159- Arr @ 10074 E. Farm Rd 186 to collect  
pre & post sample. Pre #5828-15 Post 5828-16  
1215- lunch

1355- Arr @ 7619 E. RR 170 to sample New  
Well. Collected #5828-17 (New Well = 1<sup>st</sup> sample)

1433- Arr @ 7095 E. RR 170 to sample  
Collect sample #5828-18 (New Well) - outside.

1511- Arr @ 3587 South Glen 125 to sample  
Collect #5828-19 (New) outside.  
Rc 8-14-12

8-14-12 cont.

1530- Arr @ 3588 S. Hwy 125 to sample  
Collect sample #5828-20 outside (New)

1555- Arr @ 4338 S. RR 227 to sample a new  
well. Collect sample #5828-21

1616- Arr @ 4445 S. RR 227 to sample  
New well Collect sample #5828-22

1635- Arr @ 3955 S. RR 223 to sample New well  
Collect sample 5828-23

1710- Arr @ 3875 S. RR 223 to sample (New loc)  
Collect sample 5828-24

1728- Heading back to Springfield to  
drop collected samples @ FedEx. For  
shipment to Region 7 EPA Lab

1750- Get Ice for samples.

1817- Drop 24 samples @ FedEx #8766 8322  
6494. 5828-1 thru 5828-24.

*R. D. Taylor*

8-14-12

*Rite in the Rain.*



8-15-12 Weds 0198

0920 - At Campass Alcaza meet OSC  
will setup preserved Uels & cooler for  
samples. (Cabe) Trip Blank 68-FR &  
met Field Hawk #66-FB.

1003 - AM @ 8953 EFR 186 to sample  
\*Previous Detection. Collect #5828-25

1021 - AM @ 9243 EFR to collect  
Sample 5828-26 Previous detection

1113 - AM @ 10250 EFR 186 to collect  
Sample #5828-27

1140 - AM @ 5740 EFR 253 to collect  
sample #5828-28

121 - AM @ 9353 EFR 186 to collect sample  
Previous detection Sample #5828-29

1233 - AM @ 9039 EFR 186 to collect  
sample 5828-30 Previous detection  
No sample collected; there was no water available  
1249 - lunch.

1401 - AM @ 5673 EFR 247 to collect  
sample #5828-30 (Previous detection)

1428 - AM @ 6030 EFR 241 to collect  
Sample #5828-31 (Previously sampled ND)

1513 - AM @ 9123 EFR 186 to collect sample  
#5828-32

R 8.15-12

8-15-12 cont

1535 - AM 9145 EFR 186; shared well  
w/ 9123 (well is there) sample

1549 - AM 10263 EFR 186 to sample new  
well #5828-33

1609 - AM @ 10150 Center St to collect  
sample #5828-34 (Previous detection)

1628 - AM @ 10242 W. Center St  
to collect sample #5828-35 (New)

1710 - AM @ 8002 E Lauren Lane to collect  
sample #5828-36

1752 - AM @ 5700 E Linda to collect sample  
No one was home; No sample collected

1810 - Head back to hotel

Rd c/g  
8-15-12



8-16-12 Thu

0194

- 0853 - At Jaramatawa Paddy Lot  
 0905 - Arr @ 3731 E Hwy 60. to  
 Collect Sample 5828-37  
 0946 - Arr @ 5900 E. Linda to collect  
 new well sample # 5828-38  
 1006 - Arr @ 5124 E. Linda to collect new  
 well sample # 5828-39 S.F.R 205  
 1051 - Arr @ Jude Ranch to collect  
 sample from Spring # 5828-40  
 1133 - Arr @ Tallman Spring care taken  
 home to collect Sample 5828-41  
 1148 - Arr @ Laskey Spring to collect Sample  
 # 5828-42  
 1244 - Arr @ 5761 SFR 247 to sample  
 well # 5828-43  
 1311 - Arr @ 5775 SFR 247 to sample  
 previous detect. collect Sample #  
5828-44  
 1330 - Arr @ 6060 SFR 249 to collect Sample  
5828-45 (previously sampled N.D.)  
 1346 - Arr @ 6065 SFR 249 to sample  
 No Answer - 25C left his car  
 1351 - Arr @ 10118 EFR 186 to collect  
 Sample # 5828-46, (previously sampled N.D.)  
 AC 8-16-12

0194

- 1403 - Arr @ 10:52 EFR 186 to collect  
 Sample # 5828-47  
 1420 - Leaving Rogersville for KC.  
 1445 - lunch  
 1840 - All Copies made, Supplies unloaded  
 and Samples ready for del to Lab @ KC  
 Office.

Not Clifton

Rite in the Rain



Mon.

11-12-12

10.0194

0810 - Getting personal gear into Van  
#5. R. Clayton & J. Seigism

0830 - Head to Rayville

1130 - lunch & fuel in Springfield

1240 - Arr @ 3225 Hwy 125.

Will collect sample 5942-1 Field prep.

will be recorded on field sheet

No one is home, Deaton's have contacted  
OSC. Ferguson.

1338 - At 5601 S. Farm Rd 247.

1347 - Collect samp. 5942-2 3 to anal

prescribed to 12 pt w/ HCL.

1412 - Arr @ 8651 E. Spivey Lane

CP-253 - to collect Sample

1424 - Collect #5942-3

1451 - Call but locate 6401 St. Hwy UU

No answer on phone

1537 - At 6560 S. Farm Rd 241. No one home

left letter.

1542 - @ 6328 S. Farm Rd. left note w/ sample.

1547 - @ 6302 S. Farm Rd. owner stated that  
well had been sampled last year.  
had received results - OK. (sampled by  
whom is unknown)

1554 - @ 6281 S. Farm Rd. N.O. A left letter  
to

Mon.

11-12-12

1600 - Arr @ 6025 S. Farm Rd 241 (10.0194)  
Vehicle access granted.

1610 - collect #5942-4

1618 - At 5884 S. Farm Rd 241 - Access  
granted by owner

1628 - Collect #5942-5 (CP-0245)

1635 - At 5836 S. Farm Rd 241 - left  
letter. Owner did not grant access  
@ this time.

1649 - Arr @ 5757 S. Farm Rd. 241.

1700 - Collect #5942-6

Will return to Springfield. secure

samples

1732 - Check in

Rick Clayton

11-12-12



Tues 11-13-12 0194 S.A. VV  
 ST Mark & JS will go to 6041 SFR  
 247 to collect 9th sample  
 0855 - Arr @ 6041 SFR VV to sample  
 0908 - Collect # 5942-7  
 0923 - Arr 5674 SFR 241 -  
 0937 - Collect # 5942-8  
 0943 - Arr 5632 SFR-241  
 N.O.H. left letter  
 0949 - Arr @ 5398 SFR 241 N.O.H. left  
 0954 - Arr @ 5454 SFR 241  
 1013 - Collect # 5942-9  
 1021 - Arr @ 5304 SFR 241 to sample  
 1032 - Collect # 5942-10  
 1104 - Arr @ ~~2925 SFR 241~~ 6328  
 SFR 241 to sample 241 gate  
 to OSC Ferguson via Email  
 1118 - Collect 5942-11 w/MSMSO  
 Extra Vol. (9 Vol.)  
 1313 - At 6560 SFR 241 - to sample left  
 note yesterday, called OSC  
 1331 - Collect # 5942-12  
 1345 - At 8915 EFR 186 - N.O.H. left note  
 1350 - At 8220 EFR 186 - Gate left note  
 R

11-13-12 cont 0194  
 1358 - 8378 EFR 186 to sample  
 1409 - Collect # 5942-13  
 1415 - Arr @ 8378 EFR 186  
 N.O.H. left note  
 1422 - Arr @ 8799 EFR 186  
 1431 - Collect # 5942-14  
 1442 - Arr @ 9008 EFR 186  
 1453 - Collect # 5942-15  
 1459 - Arr @ 9267 EFR 186  
 1514 Collect # 5942-16 from SFR behind house  
 1522 - Collect # 5942-17 from Animal  
 well @ 9267 EFR 186  
 1537 - Arr @ 9125 EFR 186 to collect sample  
 1547 - Collect # <sup>9401</sup> 5942-18  
 1600 - Arr @ 10194 EFR 186  
 1608 - Collect # 5942-19  
 1619 - Arr @ 9341 EFR 186  
 1627 - Collect # 5942-20  
 1639 - Arr @ 9250, well is located  
 west of Mother's home, shared w/ the 2  
 homes & the church to the west of the well  
 1649 - Collect # 5942-21  
 1700 - Head to Springfield to ship samples to  
 EPA lab.  
 1758 - Samples (1-21) dropped @ FedEx.  
 Rite in the Rain.



Wed 11-14-12

0839 - leaving hotel for Knoxville  
to meet OSC Ferguson0855 - at Jamestown Plaza meet OSC  
Ferguson & JCL Galt w/ Hydrogeologic  
1017 - Arr 7036 SFR 186 to Spk

1030 - Collect # 5942-22

1052 - Arr @ 5952 SFR 249

N.O.H. left note

1058 - Arr @ 5994 SFR 249

N.O.H. left note. (could be vacant)

1101 - At 6001 SFR 249

1116 - Collect # 5942-23

1124 - At 6055 SFR 249 N.O.H. left note

1130 - At 6167 SFR 249

1142 - Collect # 5942-24

1149 - Arr @ 6257 SFR 249

1159 - Collect # 5942-25

1228 - Arr @ Junction Knoxville.

1329 - Arr @ 6323 SFR 249 N.O.H. left note

1336 - Arr @ 6376 SFR 249

1345 - Collect # 5942-26

1353 - Arr @ 6414 SFR 249 N.O.H. left note

1357 - Arr @ 6421 SFR 249 N.O.H. left note

1402 - Arr @ 6460 SFR 249 N.O.H. left note

RC 11-14-12

11-14-12

1406 - Arr @ 6553 SFR 249

1418 - Collect # 5942-27 (new owned)

1430 - Arr @ 9048 Knoxville to sample

1444 - Collect # 5942-28 (New to be sampled)

1507 - Arr @ 8768 EFR 184

1517 - Collect # 5942-29

1521 - Arr @ 8850 EFR 184

1536 - Collect 5942-30

1551 - Arr @ 6026 SFR 241 to sample  
access obtained by OSC

1605 - Collect # 5942-31

1631 - Arr @ 6120 SFR Hwy VN to sample

1641 - Collect # 5942-32 (New to be sampled)

1720 - Return to hotel

RC 11-14-12

11-14-12

Rite in the Rain.



- Thurs 11-15-12 0194.000
- 0832 - leaving hotel for Leesville
- 0851 - Arr @ James town. Clear 93°  
Expect 60°
- 0915 - Arr @ 5480 SFR 247 to sample  
Chas a system was sampled in August
- 0924 - Collected 5942-33 (post-treat)  
Collect #5942-34 (pre-treat)
- 1021 - At 6585 SFR 237 - N.O.H.
- 1031 - At 6478 SFR 237 N.O.H.
- 1038 - At 7268 E County Line Rd.
- 1050 - Collect #5942-35
- 1104 - Arr @ 7118 E County Rd
- 1112 - Collect #5942-36
- 1121 - Arr @ 7328 E. County Line Rd.  
to sample
- 1127 - Collected #5942-37 MSMSO  
Extra Vol (9 vials) - 66FB
- 1155 - prep. Field Book & Trip  
Book, C67-FB
- 1215 - lunch
- 1319 - Arr @ 7580 E County Line to sample
- 1328 - Collected #5942-38
- 1339 - 7278 E. County Line
- 1347 - Collect #5942-39

RC 11-15-12

- 11-15-12 cont.
- 1353 - Arr @ 7618 E County Line
- 1409 - Collect 5942-40
- 1419 - Arr @ 7742 E County Line  
N.O.H.
- 1425 - Arr @ 9515 EFR 194
- 1436 - Collect #5942-41
- 1446 - Arr @ 8040 SFR E. County Line N.O.H.
- 1447 - Arr @ 9545 EFR 194 N.O.H.
- 1454 - Arr @ 9581 EFR 194 N.O.H.
- 1500 - Arr @ 8228 E County Line N.O.H.
- 1526 - Arr @ 576 Finbrook Rd N.O.H.
- 1529 - Arr @ 880 Finbrook Rd
- 1534 - Arr @ 1104 Finbrook Rd. Gate closed
- 1540 - Arr @ 1393 Finbrook Rd N.O.H.
- 1610 - Re-Rac Van #5 & get ice for  
samples.
- 1622 - At hotel to copy Field sheets  
& C.F.C.
- 1640 - Field sheets & C.F.C. ready to go.

Rite in the Rain.



Fri 11-16-12

0800 - leaving Springfield for KC

1130 - Drop samples #22-42 + 66<sup>RA</sup> 467B

@ EPA Lab (ASR #5942)

1230 - Equip. & Van put away @ T+  
office.

**APPENDIX D**

**FIELD SHEETS**



**APPENDIX E**  
**ANALYTICAL RESULTS (CD)**