POST-PHASE II REMEDIAL INVESTIGATION

OF OPERABLE UNIT 1

OAK GROVE VILLAGE WELL SUPERFUND SITE

FRANKLIN COUNTY, MISSOURI

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40278680
Superfund

PREPARED BY
Missouri Department of Natural Resources
Jefferson City, Missouri

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Abbreviations and Acronyms

ARAR	Applicable or Relevant and Appropriate Requirement
ASA	Additional Site Assessment
Benham	The Benham Companies, LLC
bgs	below ground surface
CERCLA	Comprehensive Environmental Response Compensation & Liability Act
CFR	Code of Federal Regulations
COC	Contaminants of Concern
COPC	Contaminants of Potential Concern
COS	City of Sullivan (refers to municipal wells)
DGLS	Department of Geology and Land Survey
DHSS	Missouri Department of Health and Senior Services
DNAPL	Dense Non-Aqueous Phase Liquid
DNR	Missouri Department of Natural Resources
EPA	U.S. Environmental Protection Agency
ESI	Expanded Site Investigation
FR	Federal Register
FS	Feasibility Study
ft	feet
gpm	gallons per minute
GAC	Granular-Activated Carbon
HHRA	Human Health Risk Assessment
HRS	Hazard Ranking System
HWP	Hazardous Waste Program
Jacobs	Jacobs Engineering Group
LNAPL	Light Non-Aqueous Phase Liquids
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
MRL	Minimal Risk Level
NCP	National Oil and Hazardous Waste Substances Pollution Contingency

Abbreviations and Acronyms

Plan	National Contingency Plan
NOAEL	No Observed Adverse Effect Level
NPL	National Priority List
NRHP	National Register of Historic Places
O&M	Operation and Maintenance
OGV	Oak Grove Village
OSWER	Office of Solid Waste and Emergency Response
PA	Preliminary Assessment
PCE	Perchloroethylene or Tetrachloroethene
PHA	Public Health Assessment
PQL	Practical Quantitation Limit
PPB	parts per billion
PRG	Preliminary Remediation Goal
PRP	Potentially Responsible Party
RAO	Remedial Action Objectives
RCRA	Resource Conservation and Recovery Act
RFP	Request for Proposal
RG	Remediation Goal
RI	Remedial Investigation
ROD	Record of Decision
RWD	Rural Water District
SALs	Soil Action Levels
SDWA	Safe Drinking Water Act
SLERA	Screening Level Ecological Risk Assessment
SI	Site Investigation
TBC	To Be Considered
TCE	Trichloroethene
TSS	Total Suspended Solids
µg/l	micrograms per liter
VOC	Volatile Organic Compounds

Executive Summary

The Oak Grove Village (OGV) Well Superfund Site (site) is located in Franklin County, Missouri, about 70 miles south of St. Louis, Missouri. OGV is adjacent to and northeast of the city of Sullivan, and both communities are south of the city of Stanton along Interstate 44. The site consists of three communities: OGV, Sullivan, and Stanton.

On June 10, 1986, trichloroethylene (TCE) was detected in groundwater samples collected from the OGV municipal well #1(OGV01) by the Missouri Department of Natural Resources (DNR). Several investigations were conducted to determine the location and extent of the groundwater contaminant plumes impacting OGV01 and other area wells.

The DNR began a state-lead Remedial Investigation (RI) of the site in 1999. The Phase I RI began in October 1999 and was completed in April 2002. The Phase II RI began in April 2002 and was completed in August 2006. The Human Health and Ecological Risk Assessments were completed as part of the Phase II RI. Until the completion of the Phase II RI, the site was investigated as one operable unit using a phased approach.

After Phase II, the DNR and the U.S. Environmental Protection Agency (EPA) determined that the site needed to be addressed as two operable units (OUs). Past sample results indicate that two or more contaminated plumes exist in groundwater at the site. The major difference between the plumes is the existence of tetrachloroethylene (PCE) and Freon™, along with the TCE. If TCE concentrations are above 70 micrograms per liter (µg/l) or parts per billion (ppb) in the OGV wells, then PCE and Freon™ are detected. If TCE concentrations are below 70 µg/l or ppb, then PCE and Freon™ are not detected. This data indicates that at least two contaminant plumes are impacting the OGV wells. The sampling data tied back to the OGV wells forms the basis of the investigation and the reason for the division of the site into operable units (OUs).

The area around the OGV wells, the Highway AF wells, and the city of Sullivan wells were designated as OU1. The purpose and scope of the Post-Phase II OU1 RI was to determine the nature and extent of the contamination in groundwater, to identify the sources of the contamination in groundwater and other environmental media, and to identify potential responsible parties for OU1.

The physical setting of the OGV/Sullivan/Stanton area is similar in character to other small towns and cities in mid-Missouri. The climate is characterized by warm, humid summers and cool, wet winters. The topographic relief is the result of a gradual uplift of the Ozark dome in southern Missouri, erosion and deposition of the uplifted rocks, and widespread karst features such as caves, sinkholes, and springs. The topographic relief in the OGV area is accentuated by the proximity to the Meramec and Bourbeuse Rivers. The Meramec River is in control of the base level for most of the area waterways.

OGV has a population of 382 people and contains a mixture of single family and multi-family residential areas. OGV and Sullivan contain a mixture of low- to high-density single-family

residents, a scattering of multi-family residents, and several churches. Small businesses and light industrial and manufacturing facilities are located within the combined city limits. These small businesses and light industrial facilities employ several hundred people, many living outside the city limits. Land uses outside OGV are farming and tourism. Farming consists of pastures and some row crops. Meramec Caverns, Meramec State Park, and the Meramec River are a few of the tourist attractions in the area.

There are two regional aquifers in the OGV/Sullivan/Stanton area, the shallower Ozark Aquifer, and the deeper St. Francois Aquifer. The St. Francois confining unit, which lies between the aquifers, provides some hydraulic separation between the Ozark and the St. Francois Aquifers. The Ozark Aquifer supplies most of the domestic, industrial, and public water supplies that are used in the OGV/Sullivan/Stanton area. The exception is Sullivan municipal well #10 (COS10), which was completed into the St. Francois Aquifer.

Regional groundwater flow in the Ozark Aquifer is unconfined and influenced by major topographic features. Regionally, the flow direction is parallel to the major surface-water drainages, which trend north to northeast. The groundwater flow direction at the site varies from an easterly to a northeast direction. However, the lateral groundwater flow direction in the Ozark Aquifer is more complicated in the OGV/Sullivan/Stanton area due to karst and structural features in the host rock and widespread municipal groundwater use in the area.

OGV and Sullivan are in the Bourbeuse River surface water drainage basin; however, dye traces in OGV and Sullivan indicate that the surface water divide does not correspond to the groundwater divide in the Ozark Aquifer. The dye traces indicate the dip of the structural features allows the Meramac River to "pirate" some groundwater that would otherwise be expected to discharge to the Bourbeuse River basin. The dip of the structural features, along with dye traces into Winsel Creek, shows that the area-wide groundwater is connected to the La Jolla Spring Cave Complex.

Environmental Fate and Transport

TCE, its parent product (PCE) and its degradation products (cis-1,2- dichloroethene and vinyl chloride) belong to a chemical family known as chlorinated ethenes. These compounds were widely used from the 1950's through the 1970's as degreasing agents. While TCE can migrate down through soil and into aquifers as a dense non-aqueous phase liquid, TCE is also soluble and can migrate in the dissolved phase in the direction of groundwater flow. The factors that affect the migration of TCE through the water table are advection, hydrodynamic dispersion, sorption, microbial degradation, volatilization, and hydrolysis.

Operable Unit 1 (OU1)

The site is defined as the regional groundwater contaminant plumes that contaminated the OGV wells. Since the contamination is widespread, OU1 includes site-related contamination in groundwater, surface water, and soil that is impacting area wells. OU1 is centered on the OGV wells and includes Sullivan to the south and the associated unincorporated areas to the south and west, including the Highway AF wells.

The data collected during the Phase II RI narrowed the data gaps and better defined the contaminant plumes. However, continued data gaps remained regarding potential source areas and the location and extent of the contamination's complex migration within groundwater. In May 2006, the agencies decided to postpone the completion of the Record of Decision for the OGV site in order to fill in the remaining data gaps and more adequately define the contaminant plumes impacting the OGV wells. Field activities conducted during the Post-Phase II RI included residential and municipal well sampling, the drilling and sampling of monitoring wells, vegetation sampling, soil sampling, and surface water sampling.

Residential wells, including the Highway AF wells, were sampled on a semi-annual basis. Until Spring 2006, TCE contamination in groundwater was detected in thirteen wells along Highway AF and three wells along East–West Road, all below the MCL. Beginning in Spring 2006, CFC-11 contamination was detected in the groundwater in three residential wells along Highway AF. Currently the source of the TCE and CFC-11 contamination in groundwater impacting the Highway AF wells is unknown.

Two new shallow monitoring wells (185 Garage (MW-4) and Ditch Witch (MW-5)) were installed, characterized, and sampled, and one deep monitoring well (VFW (MW-3)) was characterized, completed, and sampled in OU1. To determine if the soil contamination had impacted the bedrock and shallow groundwater near the location of the MW-4 and MW-5 wells, sampling of MW-4 and MW-5 was done during the installation and characterization of the wells. Sampling of MW-3 was done during the characterization and completion of the well to determine if groundwater from the south was impacting the OGV wells.

Analysis of the sample results determined that the soil contamination at the associated potential source areas, the Wal-Mart-Blanton-Sohn properties associated with the MW-4 well, and the Ditch Witch property associated with MW-5 well, were not contaminating the bedrock and shallow groundwater. So these potential source areas, the Wal-Mart-Blanton-Sohn properties associated with the MW-4 well, and the Ditch Witch property associated with MW-5 well, were also not contaminating the OGV wells. Results from the current groundwater sampling of the shallow and deep monitoring wells have remained clean, and the DNR has determined that the groundwater in the location of these three wells is not impacting the OGV wells.

In addition to the Post-Phase II RI semi-annual groundwater sampling, OGV01 was characterized and sampled, and two municipal wells, OGV well #2 (OGV02) and city of Sullivan well #3 (COS03) were also sampled. The characterization and sampling of OGV01 determined that the majority of the TCE contamination entering the OGV01 borehole is in the 540 to 560 foot below surface grade (bsg) interval. The same interval appears to have the higher permeability as it contributes about 40 percent of the yield under pumping conditions. When TCE concentrations are detected over 70 µg/l or ppb, other VOCs are also detected in the sample results. Due to the proximity of the two OGV wells, it can be assumed OGV02 mimics OGV01. Sample results from COS03 did not detect TCE or other VOCs.

Tree core sampling was completed in conjunction with soil sampling at potential source areas to assist in locating soil contamination. The tree core sample results at all the potential source areas were non-detect for TCE and other select VOCs.

Soil sampling was done across OU1 at multiple potential source areas to determine which areas were contaminated and which had the potential for past and current impact to soil and groundwater. At one source area, a surface water sample was collected in conjunction with the soil sampling. Source areas sampled include closed sewage lagoons, sanitary sewers, area ponds, an abandoned disposal area, the Winsel Creek tributary and manufacturing facilities.

Sample results for most of the soil sampling was non-detect for VOC and metal contamination. Low concentrations of TCE, PCE, chromium, and lead were detected in the surface water sample and soil samples in the Winsel Creek tributary and at the two manufacturing facilities. The low chromium concentrations in the surface water sample indicate continued off-site migration, while the detection of metals at depth in the Winsel Creek tributary indicates past off-site migration into the tributary. The soil and groundwater sampling at the two manufacturing facilities determined the facilities were not contributing contamination to the shallow groundwater, and in turn were not impacting the OGV wells.

Based on the volume of TCE contamination in groundwater, the closed sewage lagoons, area ponds, sanitary sewers, service stations and repair shops can be eliminated as sole sources for the contamination in the OGV and Sullivan wells. The only known potential source area left within the study area for OU1, with previous releases of TCE at high enough concentrations to contaminate area wells is the TRW/Ramsey facility. Sample results indicate that TRW/Ramsey may not have complete capture (hydraulic control) of the plume beneath its facility at this time. If the state's Hazardous Waste Permit Section determines that the TRW/Ramsey facility has the TCE plume beneath its property under control, then the contamination impacting the OGV wells will have to be attributed to an unknown source.

1.0 Introduction

Oak Grove Village (OGV) is a small rural community, with a population of 382 (2000 Census), located in Franklin County, Missouri (Figure 1). OGV is located approximately 70 miles southwest of St. Louis in eastern Missouri, just off Interstate 44 (I-44). OGV is adjacent to and northeast of the city of Sullivan (COS) and both communities are southwest of the city of Stanton along I-44. The land use in OGV is residential, commercial, and light industrial. The commercial and light industrial development is located mostly along I-44 on the outer roads and near the new Sullivan Airport. Land uses outside OGV are farming and tourism. Farming consists of pastures and some row crops. Meramec Caverns, Meramec State Park, and the Meramec River are a few of the tourist attractions in the area.

The OGV municipal well #1 (OGV01) was drilled in 1964 and is located in the city hall building. For a number of years, OGV01 was the only source of drinking water for the village residents. OGV01 is located in the Southeast Quarter of Section 4, Township 40 North, Range 2 West, in Franklin County. Its geographical coordinates are 38° 13' 32.4" North latitude and 91° 08' 54.6" West longitude (Figure 3).

The Department of Natural Resources' (DNR), Public Drinking Water Program detected trichloroethylene (TCE) contamination in OGV01 on June 10, 1986. TCE, a suspected human carcinogen, was detected at 6 micrograms per liter (µg/l) [or parts per billion (ppb)] in OGV01 during routine water sampling. The U.S. Environmental Protection Agency's (EPA) primary drinking water Maximum Contaminant Level (MCL), the Missouri public water MCL, and the Missouri Water Quality Standard (MWQS) for TCE are 5 µg/l as set by the federal Safe Drinking Water Act and regulations; the Missouri Revised Statutes, Chapter 640 and the Missouri Public Drinking Water regulations (Title 10 Code of State Regulations Division 60), and the Missouri Clean Water Law and regulations (10 CSR 20-7).

Since initial detection, the TCE concentrations detected in OGV01 have ranged from 1.5 (November 15, 2000) to 99.6 µg/l (April 29, 2004). Investigations were conducted to determine the location and extent of the contaminant plumes in groundwater impacting area wells. Besides OGV01, the sample results determined that TCE and other contaminants of potential concern (COPCs), such as tetrachloroethylene (PCE), and the degradation products of TCE, had contaminated private (residential and commercial/industrial), and municipal wells, as well as a spring in the OGV area.

The Oak Grove Village Well Site (site) is defined as regional contaminant plumes in groundwater that have contaminated the OGV wells and the surrounding area. Since the contamination is widespread and impacts area wells and springs, the site includes contamination in groundwater, surface water and cave air.

The location and amount of contamination varies due to contaminant plume movement, which is influenced by well pumping and karst geology. Due to the spatial distribution and number of wells with contamination in groundwater, the OGV site developed into a regional investigation centered on the OGV01/OGV02 wells. Thus, the site includes OGV, Sullivan, Stanton, and the unincorporated areas in the vicinity of these municipalities.

1.1 Purpose and Scope of the Post-Phase II Remedial Investigation (RI)

The purpose and scope of the RI is to determine the nature and extent of the contamination in groundwater impacting the OGV wells, to identify the sources of the contamination in groundwater and other environmental media, identify Potentially Responsible Parties (PRPs) and characterize the human-health and ecological risks posed by the contamination.

The DNR began the state-lead RI at the site in 1999. Through the completion of the Phase II RI, the site was investigated as one operable unit (OU). The Phase I RI began in October 1999 and was completed in April 2002. The Phase II RI began in April 2002 and was completed in August 2006.

After the Phase II RI, the DNR and the EPA determined that the site needed to be addressed as two separate OUs. The basis of the investigation and the division of the OUs included the chemical characteristics of the plumes, waste-disposal practices, extent and magnitude of contamination, and complexities in contaminant distribution and hydrogeologic properties. Operable Unit 1 (OU1) consists of the OGV wells, the Highway AF wells, and the area west and south of the OGV wells. Operable Unit 2 (OU2) consists of the closed Sullivan Landfill and/or other unknown potential source areas, wells and springs around the closed Sullivan Landfill, the Meramec River, and the La Jolla Spring cave complex (Table 1-1, Figure 1).

Historically, the TRW/Ramsey facility, which is located southwest of the OGV wells has had significant releases of TCE. The TRW facility was investigated through the federal Resource Conservation and Recovery Act (RCRA) and was addressed under a federal Administrative Order on Consent (AOC) between the EPA and TRW. With the completion of the investigation, the facility is transitioning from the federal AOC to a state AOC. Under the state AOC, the remedy and long-term stewardship will be implemented.

The Post-Phase II RI for OU2 is ongoing. The investigation on OU1 is complete and is the focus of this report.

1.1.1 Purpose and Scope of this Report

The purpose of this focused RI report is to document the extent and magnitude of TCE contamination at OU1. Investigations at OU2 will be presented at a later date in the Post-Phase II OU2 Report. This report presents hydrogeologic information for the Oak Grove Village/Sullivan area, with detailed information on the extent and magnitude of TCE contamination, and field activities completed at OU1.

This report is not limited to the discussion of data collected during the Post-Phase II RI investigation. A number of previous investigations were conducted over a long period of time, many of which were of limited extent and presented as individual letter reports, memoranda or abbreviated reports; therefore, data collected during all previous investigations at OU1 is considered in this Post-Phase II RI report. A summary of the previous investigations is presented, and where applicable, data from these investigations is included in this RI report.

This RI is a cooperative effort between the DNR, the EPA, the Missouri Department of Health and Senior Services (MDHSS), and the United States Geological Society (USGS). The DNR and the USGS investigated the general hydrogeology and extent and magnitude of TCE contamination. The DHSS conducted the Human-Health Risk Assessment and the EPA conducted the Ecological Risk Assessment.

During the Post-Phase II RI (2006-2007), field activities at OU1 included tree core sampling, soil borings, the installation of monitoring wells, and the collection of soil, groundwater from private, commercial, municipal, and monitoring wells, surface water, and sediment samples.

1.1.2 Report Organization

This focused RI report is presented in one volume. The volume is divided into five major sections. Section 1.0 describes the purpose and scope of the RI, summarizes previous investigations of the TCE contamination in groundwater, and presents a detailed description of the hydrogeology and groundwater flow in the OGV and Sullivan area. Section 2.0 presents the conceptual site model. Section 3.0 contains the general information on the environmental factors affecting the fate and transport of TCE and other contaminants. Section 4.0 presents the detailed investigations completed during the Phase II RI and Post-Phase II OU1 RI. Section 5.0 presents the summary and conclusions associated with OU1.

1.2 Previous Investigations and Site History

This section summarizes the history of OGV01 and the results of previous investigations beginning with the discovery of TCE in 1986 (Table 1-2).

Following the initial detection of 6.0 µg/l of TCE in groundwater from OGV01, OGV01 had multiple additional detections ranging from 1.5 (November 15, 2000) to 99.6 µg/l (April 29, 2004). The MCL for TCE is 5.0 µg/l. The DNR and EPA use MCLs to determine whether or not a public water supply district can distribute water to its consumers.

In December 1990, the DNR issued OGV a Notice of Violation (NOV) for drinking water violations. OGV took OGV01 out of service in July 1991 and began buying water from Sullivan. In September 1992, OGV reopened OGV01. The DNR resumed sampling OGV01; however, TCE in OGV01 remained above the MCL. In January 1994, the DNR issued a second Notice of Order to Abate Violations. In response to the 1994 notice, OGV took OGV01 out of operation and started purchasing water from Sullivan.

In June 1987, the DNR completed a Preliminary Assessment (PA) of the site. The PA recommended sampling additional drinking water supply wells in the vicinity and conducting a hydrogeologic assessment to identify potential contamination sources. The PA report identified the following potential TCE sources: the closed Sullivan Landfill located northeast of OGV, the TRW Automotive Product Inc. – Ramsey Division Facility, and two properties at the current Sullivan Wal-Mart location – the Sohn property and the Blanton property (Figure 5).

A hydrogeologic assessment, completed in December 1987 by the DNR's Division of Geology and Land Survey (DGLS) as part of the DNR's Site Investigation (SI), indicated the recharge area for OGV01 was to the southwest, toward the center of Sullivan. However, major faults, a field of operating municipal wells and karst topography made it difficult to determine local groundwater flow direction.

The DNR's SI was completed in October 1988. The SI revealed TCE was in OGV01, at selected points in the OGV distribution system, in Sullivan municipal well #02 (COS02), and the Voss Well (a private well east of the closed Sullivan Landfill) (Figure 1). Analysis of the SI sampling did not attribute the contamination to specific source locations or any specific PRP.

The EPA completed an Expanded Site Investigation (ESI) in September 1994. The purposes of the ESI were to identify possible sources of TCE contamination, to define the horizontal and vertical extent of the contamination sources, and to collect samples from private wells to determine if they had been impacted. Only one private well was sampled during the ESI, and TCE was not detected.

Between 1997 and 1998, an Additional Site Assessment (ASA) was conducted by the DNR under Superfund. One of the ASA's objectives was to initiate a more comprehensive investigation of possible TCE contamination sources. A possible connection between OGV01 and the apparent widespread TCE contamination in Sullivan's groundwater was examined. Because of insufficient data, a conclusion could not be reached regarding contamination sources. The ASA recommended a CERCLA remedial investigation/feasibility study (RI/FS) to identify possible sources of TCE contamination, identify any PRPs, and to fully characterize the nature and extent of TCE contamination in groundwater at the site.

The RI/FS has been conducted by the DNR in a phased approach to determine the nature and extent of the contamination detected in OGV01, to identify possible sources of the contamination in groundwater, and to identify PRPs. The Phase I RI began in October 1999. The Phase I RI evaluated existing data, collected additional data to narrow data gaps, determined the existence and location of contamination, and identified additional potential source areas. Area-wide sampling of private, commercial, and municipal wells, as well as springs and creeks detected TCE and other VOCs in multiple wells and one spring. The information obtained during the Phase I RI provided additional data to reduce data gaps and better define the extent of the area-wide contamination.

On September 13, 2001, during the Phase I RI, the EPA, with state concurrence, proposed the Oak Grove Village Well site for the NPL. On September 5, 2002, the NPL listing became final.

The Phase II RI began in April 2002, and it was completed in August 2006. The Phase II RI activities consisted of continued sampling of private, commercial, and municipal wells, and area springs. Additional field activities included: (1) sampling Winsel Creek and the Meramec River, (2) characterizing OGV01, (3) sampling OGV01 and OGV02, (4) installing and sampling additional groundwater monitoring wells, (5) investigating and sampling the OGV and Sullivan sanitary sewers, (6) sampling previously known potential source areas, and (7) sampling possible additional source areas.

The data collected during the Phase II RI narrowed the data gaps and better defined the location and extent of the contaminant plumes. An FS and Proposed Plan were completed based on the conclusions of the Phase II RI. The EPA and the DNR decided additional site work was needed to fill in the remaining data gaps and to adequately define the OGV site. In order to fill in the data gaps, the OGV site was divided into two OUs:

- Operable Unit 1 (OU1) consists of the OGV wells, the Highway AF wells, and the area west and south of the OGV wells.
- Operable Unit 2 (OU2) consists of the closed Sullivan Landfill and/or other unknown potential source areas, wells and springs around the closed Sullivan Landfill, the Meramec River, and the La Jolla Spring cave complex (Table 1-1, Figure 1).

Other groundwater investigations in the OGV/Sullivan area took place during the same timeframe as the investigations conducted through Superfund. The TRW/Ramsey facility and Wal-Mart performed independent investigations in certain areas of the OU1 site.

In 1989, the EPA initiated a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) for the TRW/Ramsey facility. In 1990, TRW, also under RCRA authority, initiated groundwater investigations in relationship to its former facility. Based on the findings of the RFA, the EPA entered into a RCRA 3008(h) Corrective Action Administrative Order on Consent (AOC) with TRW and the current property owners in April 1993. The AOC directed TRW to conduct an investigation and evaluate corrective measures to cleanup contaminant releases.

Between 1993 and 1998, TRW performed corrective action activities in accordance with the AOC at the TRW/Ramsey facility. TRW completed four Interim Remedial Measures, which were (1) the Drinking Water Contingency Plan, (2) the Groundwater Monitoring Plan, (3) the Pump and Treat Plan, and (4) the Surface Impoundment Soil Plan. As part of the RFI, TRW installed a monitoring network of 41 wells. With the completion of the network, TRW samples the monitoring wells, along with nine Sullivan municipal wells and four residential wells. In June 1997, TRW completed the RCRA Facility Investigation (RFI). The RFI detected a TCE plume in groundwater beneath the facility and detected TCE in residential wells and in three Sullivan municipal wells.

In 1991 and 1992, Phase I and Phase II Environmental Site Assessments were conducted southwest of the site by the Wal-Mart company in anticipation of a property purchase (Figure 5). Three areas of TCE contamination were detected. These areas were designated: the Highway 185 Garage (Sohn property), the Blanton property, and a machine shop. Wal-Mart purchased all of the property within the study area, except the Sohn property. The purchased property was then covered with a Wal-Mart store building and a paved parking lot. Additional investigations were conducted on these properties during 2004 through 2006.

1.3 Physical Setting of Oak Grove Village

OGV is about 70 miles southwest of St. Louis, Missouri. The village is similar in character to other small towns and cities in mid-Missouri with late 1960 era homes close to city hall and the

newer (2006) upscale homes further away. OGV does not have a downtown business district. Light industry and commercial businesses such as small shops and restaurants are along the main street and the I-44 outer roads (Figure 1).

1.3.1 Site Climate

OGV and the surrounding area lies between the Meramec and Bourbeuse Rivers, just southwest of the geographical center of the United States. Its position in the middle latitudes finds OGV and the surrounding area in a temperate climate, which is affected by warm moist air that originates in the Gulf of Mexico, as well as cold air masses that originate in Canada. The alternate invasion of these air masses produces a wide variety of weather conditions (www.crh.noaa.gov, 2005).

During the summer months, air originating from the Gulf of Mexico tends to dominate OGV and the surrounding area, producing warm and humid conditions. Since the 1870s, records indicate a temperature of 90 degrees or higher occurs about 35-40 days per year. Extremely hot days, with 100 degrees or more, are expected more than 5 days per year.

Winters are brisk but prolonged periods of extremely cold weather are rare. Records indicate that temperatures drop to below zero an average of 2 or 3 days per year, and temperatures as cold as 32 degrees or lower occur less than 25 days in most years. Snowfall averages a little over 18 inches per winter season, and snow fall of an inch or less is received on 5 to 10 days in most years.

Normal annual precipitation for OGV and the surrounding area is about 40 inches per year. The three winter months, December through February, are the driest with an average of 6 inches of precipitation. The spring months of March through May are normally the wettest with a normal total rainfall of just over 10.5 inches. It is not unusual to have extended dry periods of one to two weeks during the growing season.

The National Oceanic and Atmospheric Administration (NOAA) operates a number of climatological stations in the area. The nearest station is in Sullivan, Missouri (www.crh.noaa.gov, 2005). A longer operating station is in St. Louis, Missouri. The mean annual precipitation at St. Louis is 38.75 in. (inches) and about 75 percent falls between February and November. Most of Missouri experienced drought conditions during 1999 to early 2000, and from late 2005 to late 2006, with mean monthly precipitation generally below normal during these time periods. Monthly precipitation was normal to above normal between these dry periods.

1.3.2 Site Physiography

OGV is located in the Salem Plateau physiographic subprovince of the Ozark Plateau physiographic province of the Interior Highlands major division (Miller and Vandyke, 1997). The Salem Plateau is a maturely dissected high plateau with dendritic and radial drainage patterns. It is equally divided between steep hills with local relief up to 1,000-feet (300 meters)

and rolling hills with local relief between 200 and 500 feet (60 to 150 meters). The terrain is topped with thin soils and contains narrow steep-walled valleys (U.S. Department of Agriculture (USDA), 1986).

Topographic relief is the result of gradual uplift of the Ozark dome in southern Missouri and fluvial erosion, transportation and deposition, and mass wasting of the uplifted rocks by precipitation runoff and stream flow (USDA, 1986). Widespread karst features include caves, sinkholes, and springs. The topographic relief in the OGV area is accentuated by the proximity to the Bourbeuse and Meramec Rivers. The Meramec River appears to control the base level for most waterways in this area. Land surface elevation ranges from a low of about 580 feet above sea level along the Bourbeuse and Meramec Rivers to just over 900 feet along the edge of the OGV limits (Figure 1 in Phase II RI).

1.3.3 Site Demography, Land Use, and Wildlife

OGV has a population of 382 (2000 Census) and an incorporated area of about 0.75 mi^2 (square mile). Sullivan has a population of 6,450 (2000 Census) and an incorporated area of about 8.25 mi^2. OGV and Sullivan contain a mixture of low- to high-density single-family residences, a scattering of multi-family residences, and several churches. Small businesses and light industrial manufacturing facilities are located within the combined city limits. These small businesses and light industrial facilities employ several hundred people, many living outside the city limits.

Currently, outside the combined city limits are deciduous forest and agriculture. Land use includes tourism, hunting and fishing, boating and canoeing, forestry, grazing and row crops (corn and soybeans).

The OGV area is located in the Continental Eastern Broadleaf Forest ecological subregion, Ozark Highlands (Ozarks) Section (http://www.fs.fed.us, 1994). Clear, cold spring-fed streams characterize the Ozarks. Karst topography influences surface water, producing losing streams, springs (some large) and spring-fed streams, seeps, and fens. Small sinkhole ponds and a few natural lakes exist. There is a moderate density of small intermittent drainages, and small to medium-sized perennial streams, most with low to moderate rates of flow.

The forests, glades, and waterways support a rich variety of fauna. The major ungulate is white-tailed deer, and the major predator is the coyote. The mink, otter, beaver, black bear, fox, and bobcat have declined but are recovering. The area supports opossum and some threatened and endangered bats; and armadillo have recently begun invading. Bird species total 143, including bald eagle and other raptors, turkey, various owls, wood duck, roadrunner, kingfisher, various woodpeckers, and various songbirds (many warblers) (http://www.fs.fed.us, 1994).

Habitat diversity (glades, sinkholes, and caves) contributes to rich herpetofauna, including rattlesnakes, copperheads, turtles, and many salamanders. The richness of fish species is great, including 18 endemics and some relics. The introduced trout and carp are thriving. Crustaceans (19 endemic crayfish) and molluscs (seven endemics) include some threatened and endangered species. Insects, spiders, and ticks are very abundant (http://www.fs.fed.us, 1994).

1.4 Site Geology

The site is underlain by sedimentary dolomite and sandstone formations of Ordovician and Cambrian ages. Dolomitic rocks contain a primary porosity related to spaces between granular structures. With time, dissolution processes have altered some of the slightly soluble dolomites under the entire site. The slightly soluble dolomites contain discontinuities such as fractures, joints, and bedding planes that account for secondary porosity. Groundwater flowing through these discontinuities has increased the secondary porosity resulting in karst features including springs, sinkholes, and losing streams (especially Winsel Creek) within the site (Elfrink 1998).

Bedding might have a significant effect on flow if it were not for the dominance of secondary porosity. Bedding impact on flow is diminished when bedding planes are 'shorted' by fractures, which connect them and allow flow across the beds instead of along them. This is particularly significant above the elevation of the discharges from this plateau at the Meramec River and adjacent springs.

The DNR's Division of Geology and Land Survey (DGLS), at one time known as the Geological Survey and Resource Assessment Division (GSRAD), conducted a detailed bedrock study of the site in 2004 (Smith, et al 2004). This study resulted in a detailed bedrock map of the area and various structure maps were prepared showing the structure of the base of the Roubidoux Formation, and the Gasconade, Eminence, and Potosi Dolomites.

The following are key findings related to the groundwater flow and occurrence in the area:

1. The Roubidoux Formation is mostly unsaturated within the site area.

2. Narrow structural lows plunging to the northeast are developed at the bases of the Potosi, Eminence, and Gasconade Dolomites, and these structural lows channel groundwater to the northeast away from Sullivan roughly parallel to I-44.

3. Development of karst hydrogeology in eastward thickening and eastward dipping Eminence and Gasconade Dolomites allow groundwater loss from the Winsel Creek drainage basin to the Meramec River drainage basin.

The 1988 Site Investigation (SI) (Collins 1988) identified major faults in close proximity to OGV. It was determined that no major faults are located directly beneath OGV. A structural contour map of the Gunter/Eminence contact was developed based on local well logs. The map indicates a northeast plunging syncline (a fold of rocks in which the rock layers dip inward from both sides). The OGV municipal wells are the lowest structurally within the syncline of all the site municipal wells. Since contamination in groundwater would tend to migrate to the lowest point, this would increase the likelihood of contamination in groundwater migrating towards the OGV wells from any direction, especially when the OGV wells are pumping.

Primary groundwater flow at the site is to the northeast. Structural features, such as faults and fractures, which appear on the surface as straight-line features called lineaments, have a northwest to southeast orientation at the site. Locally, this orientation contributes to groundwater flow towards the Meramec River. The lineaments identified from aerial photography are near straight lines that range from tens of feet to miles in length. The lineaments appear on the surface even with a thick overburden.

A northwest-southeast trending lineament was identified about 1.5 miles south of the TRW site. This lineament has been interpreted to be a fault trace, and may provide an enhanced vertical hydraulic connection between the shallow groundwater and deeper groundwater in the area based on observations of drawdown responses from an aquifer pump test. Some karst features tend to develop along fractures and joints and will trend in the same direction as structural features (Smith, et al, 2004). The impact of TCE contamination in COS02 supports the northwest - southeast flow direction, while the impact of TCE contamination in TRW's the monitoring well network along the rail line supports the southwest – northeast flow direction.

1.5 Site Hydrogeology

The site is located in the Ozark Plateau physiographic province and the Salem Plateau subprovince. The Salem Plateau subprovince contains two regional aquifer systems – the shallower Ozark Aquifer and the deeper St. Francois Aquifer. The St. Francois confining unit, which is the Derby-Doerun Dolomite and Davis Formation, lies between the aquifers, provides some hydraulic separation between the Ozark and the St. Francois Aquifers.

The hydrogeologic units of the Salem Plateau aquifer system are designated from highest to lowest in the following order. The Ozark Aquifer (600 to 700 feet thick) is made up of the Jefferson City Dolomite, the Roubidoux Formation, the Gasconade Dolomite (with the Gunter Sandstone member), the Eminence Dolomite, and the Potosi Dolomite. The St. Francois confining unit (180 to 330 feet thick) consists of the Derby-Doerun Dolomite and the Davis Formation. The St. Francois Aquifer (350 to 650 feet thick) is made up of the Bonneterre Formation and the Lamotte Sandstone. At most site locations, the Jefferson City Dolomite is either missing or appears as a remnant. When the Jefferson City Dolomite is missing, the Roubidoux Formation, as the top most formation, appears as a residuum (Figure 3 in Phase II RI).

The hydrogeologic setting of the site is based primarily on interpretations from Hoffman's 1987 log (as discussed below) of OGV01. OGV01 draws groundwater solely from the Ozark Aquifer (814 to 159 feet below ground surface (bgs)), the shallowest site aquifer. The surface elevation of OGV01 is 964 feet above mean sea level (msl), and the initial depth of OGV01 (when drilled in 1964) was 805 feet bgs. The well penetrates the Ordovician-age Roubidoux Formation and Gasconade Dolomite, and the older Cambrian-age Eminence and Potosi Dolomites of the Ozark Aquifer (Figure 3 in Phase II RI). OGV01 was constructed to draw groundwater from the Eminence and Potosi Dolomites. The strata overlying the Gasconade Dolomite are highly weathered and are "cased out" under typical well construction in the site area because of their instability.

The following is a summary of the construction of OGV01 and the formations penetrated by it as described by Hoffman in 1987 (Hoffman, 1987):

- A nominal 6-inch diameter steel casing was installed from ground surface to a depth of 365 feet bgs (350 feet bgs based on the video log performed during the Phase I RI).
- The surficial material, red gravelly clay residuum, occurs from ground surface to a depth of 40 feet bgs, where the first competent rock was encountered.

- The Roubidoux Formation residuum was encountered from 40 feet to 150 feet bgs, consisting mostly of sand and chert, which are the highly weathered remains of the Roubidoux Formation.

- The lower Gasconade Formation, a dolomite, was encountered at a depth of 150 feet bgs and persisted to a depth of 325 feet bgs.

- The Gunter member of the Gasconade Formation, primarily dolomite with minor amounts (i.e., ten percent or less) of sand, was encountered from 325 feet to 350 feet bgs. The base of this member separates the overlying Ordovician strata from the older Cambrian-age strata below.

- The Eminence Formation, a dolomite, was encountered from 350 feet to 505 feet bgs.

- The Potosi Formation, a dolomite, was encountered from 505 feet to 805 feet bgs, which was to the total depth of the well as drilled in 1964. The total depth of the well due to infilling is approximately 725 feet bgs based on the video log performed during the Phase I RI.

The nearby Sullivan municipal wells are also relevant to understanding site conditions. All but one of the COS municipal wells is completed to draw groundwater from the Potosi Dolomite of the Ozark Aquifer. The one exception is Sullivan municipal well #10 (COS10) located approximately 3,000-feet southeast of the OGV wells, with a surface elevation of 960 feet. COS10 is open to the Ozark Aquifer (810 to 200 feet bgs) and the St. Francois Aquifer. This well was drilled through the St. Francois confining unit (200 to 50 feet bgs) and into the underlying St. Francois Aquifer (50 to 0 feet bgs). The St. Francois Aquifer reportedly only contributes a modest flow to COS10, with the majority of the well's production coming from the Ozark Aquifer. This would be consistent with the general observation that the solution-enlarged features (e.g., sinkholes, springs, and caves) are more abundant and significant in the soluble dolomitic rocks of the Gasconade, Eminence, and Potosi Dolomites where groundwater movement is likely greater.

Regional groundwater flow in the Ozark Aquifer is unconfined and influenced by major topographic features. Regionally, the flow direction is parallel to the major surface-water drainages, which trend north to northeast. The groundwater flow direction within the site varies from an easterly direction (Elfrink 1998) to a northeast direction (Hoffman 1987). However, as pointed out by Elfrink (1998), lateral groundwater flow direction in the Ozark Aquifer is more complicated in the OGV/Sullivan area because of karst and structural features in the host rock and because of municipal groundwater use in the area.

The Ozark Aquifer is composed largely of carbonate rocks, dolomite and limestone, that are both slightly soluble. The intact rock is relatively impermeable and groundwater movement is primarily in joints, fractures, bedding planes, voids, and other discontinuities (Figure 4 in Phase II RI). Over long periods of time groundwater can enlarge such features through dissolution processes. The evidence of this dissolution is the presence of sinkholes, caves/caverns, springs, and losing streams, which are well documented in the area. Dissolution voids were encountered

during the drilling of the three deep monitoring wells that were installed as part of the Phase II RI. These features are indicative of karst terrain and are generally associated with the Roubidoux Formation, and the Gasconade, Eminence, and Potosi Dolomites.

OGV and Sullivan are in the Bourbeuse River surface water drainage basin (Collins 1988) and normally shallow groundwater would be expected to move northward toward the discharge areas along the Bourbeuse River (Elfrink 1998). However, groundwater trace tests in OGV and Sullivan indicate that the surface water divide does not correspond to the groundwater divide in the Ozark Aquifer. Based on groundwater dye trace tests reported by Duley (1992), the dip of the structural features allows the Meramac River to "pirate" some groundwater that would otherwise be expected to discharge to the Bourbeuse River basin. The dip of the structural features, along with dye traces into Winsel Creek, shows that the area-wide groundwater is connected to the La Jolla Spring Cave Complex.

These localized site conditions, such as conduit flow in karst terrain, gradient reversal caused by pumping from site wells, and the location of the groundwater divide, could cause deviation from the regional north to northeast groundwater flow direction, especially in the intermediate and deep zones of the Ozark Aquifer.

1.6 Significance of Karst Geology

The effects of the karst geology on the site and the water resources are pronounced. The geology forms the framework for the transport and storage of water associated with the site. The dolomite and limestone formations have been greatly affected by weathering of the bedrock, both at the land surface and in the subsurface. Except for the upland areas, the soils are typically thin. In the upland areas, which is most of the site, thick deposits of unconsolidated residual materials formed from decomposed bedrock overlie the bedrock. The residuum is typically permeable, which allows for high rates of groundwater recharge (Miller and Vandike, 1997).

Solution weathering of the bedrock has created well-integrated subsurface drainage systems that capture surface water and channel it underground. Much of the water that would ordinarily run off into streams is channeled underground through losing streams and sinkholes. The springs are recharged from sinkholes, losing streams, and general infiltration through the permeable residuum that covers most of the area. The groundwater is then slowly released from storage by the aquifer through springs and general groundwater flow, so even during dry weather the streams maintain a well-sustained base flow (Miller and Vandike, 1997).

Wells located in OGV and Sullivan tap into the same stored groundwater, impacting local recharge. Any contamination discharged to surface soils and/or water enters the well-integrated subsurface drainage systems, allowing the contamination to impact and spread throughout the groundwater.

2.0 Conceptual Site Model

An integral part of the Conceptual Site Model (CSM) (Figure 3) is the groundwater flow and the migration and distribution of contaminants within the aquifer. The site is underlain by dolomitic

rocks, which contain a primary porosity related to spaces between granular structures. Over time, dissolution processes have altered some of the soluble dolomite rocks creating discontinuities such as fractures, joints, and bedding planes that account for secondary porosity.

Meteoric water flowing through these discontinuities has increased the secondary porosity resulting in karst features including springs, sinkholes, and losing streams such as Winsel Creek (Elfrink, 1998). Infiltrating meteoric water (or rainwater) has a low pH and causes the dissolution to significant depths within the Ozark Aquifer. This implies that meteoric water infiltrates to depth rather quickly, before the low pH is raised through the dissolution reaction. Ultimately, this implies a fairly direct connection between the surface and most of the Ozark Aquifer.

Groundwater flow can occur under three possible types of CSMs for karst and fractured rock aquifers (ASTM D 5717-95). These conceptual models are on a continuous scale, and differ based on porosity and its dominance on the groundwater flow in the aquifer. The three models are the "continuum" conceptual model, the "dual porosity" conceptual model, and the "discrete" conceptual model. In the "continuum" conceptual model, groundwater flows in the aquifer's matrix like a sand and gravel aquifer. In the "discrete" conceptual model, most of the groundwater flows through discrete conduits or fractures. In the "dual porosity" model, groundwater flows in discrete fractures as well as the matrix of the aquifer. Available data suggest the most likely model for the OGV site combines elements of the "dual porosity" and the "discrete" model, with the "discrete" model likely the dominant model.

The CSM for the OGV site (Figure 3) provides information on the waste sources, pathways, and receptors at the site and is used to develop a conceptual understanding of the site to evaluate potential risks to human health and the environment. For exposure to occur, there must be a contamination source in a medium (contamination in water, soil, or air), a receptor (a person or biota), and a mechanism or pathway for the contaminants to reach the receptor (ingestion, dermal contact, or inhalation of particles or vapors from the contaminated media) (HHRA, 2005).

The primary sources of contamination at the site could include drums that experienced spills, leaks, or other releases and/or lagoons and sanitary sewers where untreated wastewater was released. Where drums of contamination were handled or stored, spills, leakage, or other releases could have occurred. The released contaminants would infiltrate or percolate into nearby soils, surface water or sediments where the contamination would then infiltrate or percolate into groundwater or surface water. Where wastewater was stored in unlined lagoons or ponds, the contamination could have percolated or infiltrated into soils, collected in sediments or overtopped the berm allowing the contamination to run -off into nearby soils or surface water. The contamination could have then infiltrated/percolated into groundwater/surface water. Where wastewater was discharged into sanitary sewers, the contamination could have percolated out of the sewer into nearby soils, collected in sediment in the sewers, or flowed to a municipal sewage lagoon. If the contamination reached the sewage lagoon, then it could have followed the same pathway as the industrial wastewater lagoons.

In addition to evaluating current exposure scenarios, reasonably anticipated future land uses for the site were considered. These uses were developed based on how the site is currently used and assumptions about future uses. The following completed pathways were addressed in the HHRA

for current and future residents and commercial/industrial workers (human receptors) at the site:

- In groundwater, current and future residents for ingestion of potable drinking water supply, dermal contact while showering, and inhalation of volatile organic compounds (VOCs),
- In groundwater, commercial/industrial workers for ingestion of potable drinking water supply and inhalation of VOCs, and
- In air, current and future commercial/industrial workers for inhalation of VOCs in cave air (HHRA, 2005).

Complete risk assessment information can be found in the "Baseline Human Health Risk Assessment for the Oak Grove Village Well Site," June 2005, prepared by the Missouri Department of Health and Senior Services (DHSS).

3.0 Environmental Transport and Fate of Contaminants

This section provides a summary of the factors that control the transport and fate in the subsurface of site COCs and contaminants of potential concern COPCs. COPCs are those contaminants that have been detected in analytical results at the site and are evaluated for risks. COCs are those contaminants that are determined to pose a significant risk at the site. Although the COPCs do not have a significant risk associated with them at the site, they have proven to be useful as tracers to help identify the sources of contamination.

A list of contaminants of potential concern (COPCs) for the site was developed for use in the human health risk assessment. COPCs are contaminants of sufficient quantity for use in the quantitative risk assessment and are identified as a potential threat to human health or the environment. The COPCs for groundwater at the site were developed for the risk assessment based on detectable levels of volatile organic compounds (VOCs) found in site wells, including OGV01 and OGV02, the COS wells, and the residential and commercial/industrial wells for which there is data. The groundwater list contains thirty-three VOCs, such as solvents like TCE, PCE, degradation products, freons, pesticides, and petroleum additives. COPCs include trichlorofluoromethane (CFC-11 [Freon]), PCE, cis-1,2- dichloroethylene (cis-1,2-DCE), and methylene chloride. The list of COPCs is found in Table 1-3.

The COPC list for groundwater was reduced based on the Human Health Risk Assessment (HHRA) calculations. The calculations determined that a smaller group of COCs actually pose unacceptable human health or ecological risks at the site. This smaller group acts as the drivers, forcing the need for a remedial action to reduce site risks. These contaminants individually contribute to an increased cancer risk greater than 1 in 10,000, or a non-cancer hazard quotient of greater than 1. The DHSS modified the list of COCs during completion of the HHRA and the Phase II FS documents for the site, based on additional information. The modified COCs for groundwater were TCE and vinyl chloride (VC). VC was not detected in OU1; therefore, VC is considered a COPC and the only COC for OU1 is TCE (Table 1-3).

3.1 Contaminant Properties

The chemical and physical properties of contaminants, along with the characteristics of the aquifer material and groundwater, combine to control contaminant fate and transport in the saturated zone. The organic compound TCE may be present in multiple phases including the aqueous phase. As such, parameters that influence its transport and fate may be different.

3.2 Factors Affecting Contaminant Transport

A summary of the physical and chemical characteristics of site COPCs and COCs is included in the following sections. Since many characteristics of TCE are similar to PCE, cis-1,2-DCE, methylene chloride, and vinyl chloride, the following TCE discussion is applicable to the other four contaminants.

3.2.1 Trichloroethlyene (TCE)

TCE has limited solubility in water (i.e., it is hydrophobic) and can be present as a solute, as a separated liquid phase, and as a vapor. At the site, TCE has only been detected as a solute.

A solute is a compound dissolved in groundwater that moves in the same direction as the groundwater through the subsurface. Due to sorption processes, the movement of a solute can be retarded relative to the bulk movement of the groundwater. Many organic contaminants are hydrophobic which indicates the substance has a low affinity for solution in water and typically is readily adsorbed to organic matter in the vadose zone and aquifer matrix. The organic carbon in the aquifer matrix, f_{oc}, is expressed as a fraction. The tendency of a chemical to become adsorbed by organic carbon (i.e., partition from the water phase to the solid phase) is expressed by the organic carbon-water distribution coefficient, K_{oc}. The chemical-and aquifer-specific parameter that expresses the phase distribution is then obtained as:

$$Kd = (f_{oc})(K_{oc})$$

If the carbon content is very low or approaches zero, then the distribution coefficient (Kd) will also approach zero, which means the contaminant will move at the same velocity as the groundwater. The retardation coefficient, R, is another parameter used to describe movement of a contaminant as a solute in groundwater. The retardation coefficient is related to the *distribution coefficient, Kd, as follows:*

$$R = 1+(P_b/n)\,Kd$$

Where:

P_b = bulk density

n = porosity

For a contaminant that moves at the same velocity as the groundwater Kd = 0 and R = 1. The organic carbon content of the Ozark Aquifer near the OGV wells is believed to be low, approaching zero. The assumption is based on the fact that a majority of the soil present near the OGV wells is derived from weathered dolomite or limestone which would have low organic

carbon content. The resulting Kd would still be small, even in the presence of low to moderate amounts of organic carbon because the K_{oc} for TCE is small. TCE in the aqueous phase in the saturated zone at the site would be expected to move both in the same direction and at nearly the same velocity as the groundwater.

Dispersion and degradation processes can reduce the solute concentration. In an aquifer where the groundwater movement is primarily through discontinuities such as karst features, it is very difficult to quantify dispersion unless it can be treated as an equivalent porous media. This assumption was made when the groundwater model for Sullivan was developed for the Barr 2000 report. Flow characteristics in karst features such as solution-enlarged bedding planes will be more characteristic of pipe flow and dispersion will be minimal.

3.2.2 Metals

The metals, chromium and lead, have been detected in OU1. Metals are naturally occurring, positively charged ions that can occur as a solute dissolved in the groundwater or as a solid in or on the aquifer media. In general, metals have limited mobility in soil and groundwater under most natural conditions. As with organic contaminants, metals can be diluted, dispersed, retarded, attenuated, and mobility enhanced. Metal solubility is controlled primarily by oxidation-reduction potential (Eh) and hydrogen ion activity (pH).

Generally the lower the pH, the more mobile a metal becomes. In addition, reducing conditions also help increase the mobility of metals. Some contaminants that are aerobically degraded such as benzene, toluene, ethylbenzene, and xylenes (BTEX) can cause reducing conditions by using up all of the available dissolved oxygen in the subsurface. Some contaminants can also change the pH since they may be acidic or basic. On the other hand, a high pH and oxidizing conditions (i.e., high Eh) promote precipitation or retardation.

Sorption is one process that impacts the mobility of metals in the groundwater. Metals can be adsorbed onto soil particles by organic matter present in subsurface soil. Most metals are positively charged and, therefore, are attracted to the surface of the negatively charged soil particles. Organic matter and clay soils are often negatively charged, resulting in the sorption of a positively charged metal to their surface. The ability of a soil to retain and exchange cations (positively charged ions) is called its cation-exchange capacity (CEC). Soils with high clay contents generally have a high CEC. Organic matter present in the subsurface also has CEC capacity; however, the organic matter content in soils is generally much lower than the clay content and is usually a minor player in the sorption of metals. Since it is believed there is very little clay or organic matter present in the OU1 aquifer, the retardation by CEC is limited. Other significant metal mobilization mechanisms include complexation and dissolution.

Complexation is the formation of a coordinate bond between a metal ion and an anion known as a ligand. The ion-ligand arrangement is termed a complex in which the ligands surround the ion. Complexation increases the potential mobility of a metal because (1) the complexed metal is more soluble and (2) the complex ties up what would otherwise be free metallic ions, decreasing the opportunity for adsorption or precipitation of the ions (i.e., a mobility enhancement process). Ligands can be organic or inorganic. Natural organic ligands can be derived from humic material. Complexed metals formed with organic ligands can be fairly stable requiring a low or

high pH to break the bond. This generally occurs in groundwater, not soil, unless the soil becomes fairly saturated. Since it is believed there is very little humic material present in the OU1 aquifer, complexation is not considered a major contributor to metal migration.

Dissolution occurs when a metal in solid form dissolves into water, thus mobilizing the metals. Colloidal transport occurs when metals (or other contaminants) adsorb to a clay particle (colloid) and are conveyed through the aquifer by the clay particle. Dissolution is not currently considered a significant transport mechanism in OU1 due to the high pH of the aquifer and since the metals may have been dissolved in liquids, may have long since been weathered from the solid matrix, or are naturally occurring.

4.0 Phase II RI and Post-Phase II RI Investigations

With the completion of the Phase II RI in August 2006, the extent and location of the TCE plumes for the OGV site were better defined. However, data gaps remained regarding the existence and location of contaminant plumes, the sources of the contaminant plumes, and the determination of the responsible parties.

In order to fill in the data gaps, the OGV site was divided into operable units. OU1 consists of the OGV wells, the Highway AF wells, and the area west and south of the OGV wells. OU2 consists of the closed Sullivan Landfill and/or other unknown potential source areas, wells and springs around the closed Sullivan Landfill, the Meramec River, and the La Jolla Spring cave complex (Figure 1).

The following is a description of the site investigations to date and the data gaps that were addressed during the OU1 Post-Phase II RI.

4.1 Municipal Wells

Wells in OGV, the city of Sullivan, and the unincorporated area were investigated during the RI and Post-RI.

4.1.1 Oak Grove Village Municipal Well (OGV01)

In 1964, OGV01 was drilled to a depth of 805 feet. The steel casing was set to 350 feet bgs. The well is located within the city hall building, which protects it from many climatological changes. OGV01 pumped at 100 gpm when it operated.

TCE contamination in groundwater was first detected in OGV01 in June 1986 at 6 µg/l. The DNR resampled OGV01 in October and December 1986. During these sampling events, TCE, PCE, trans-1,2-DCE, methylene chloride and benzene contamination were detected in the groundwater. The TCE and PCE contamination were both over their MCL of 5 µg/l. The DNR continued to sample OGV01 until November 1990. From November 1990 until November 1993, OGV took OGV01 out of service due to continued TCE contamination. OGV reopened OGV01 from December 1993 until February 1994, when it was taken out of operation again due to continued TCE contamination (Tables 3, 5 and 6 in Phase I RI and Table 4a in Phase II RI).

To determine the behavior of the VOC groundwater contamination in OGV01, a timed sampling event was conducted in November 2000. The sampling event was conducted over six days (144 hours) with OGV01 pumping at 50 gpm.

The only VOC detected was TCE, which was detected in all seven samples and all duplicate samples that were collected during the 144 hours. The initial sample at 0 hours detected TCE at 4 µg/l. For the remaining samples, TCE contamination was detected at 1.8 and 1.6 µg/l at 2.5 hours, 2.0 µg/l at 6 hours, 2.3 µg/l at 12 hours, 2.8µg/l at 24 hours, 3.4 µg/l at 48 hours, and 4.7 µg/l at 144 hours (Table 4a in Phase II RI).

To better define the vertical extent and possible location of the site-related contaminant plumes, borehole investigations of OGV01 were conducted in June 2001. The investigations included video recording of the borehole, followed by geophysical investigations, and packer testing which included sampling at discrete intervals. The video recordings and subsequent geophysical investigations ended at about 725 feet below ground surface (bgs). Accumulated debris in the well's bottom prevented the characterization of the remaining 80 feet of the well.

In June 2001, video recordings and subsequent geophysical investigations ended at about 725 feet bgs due to debris. The downhole geophysics revealed the overall vertical gradient in OGV01 was downward, with the strongest downward gradient located in the Eminence Dolomite at 540 feet bgs. The magnitude of the vertical gradients greatly diminished with depth, which is consistent with site geology in that semi-confining layers are expected to exist in the Gasconade and upper Eminence Dolomites. Several karst features, which are responsible for producing much of the inflow of groundwater and contamination into OGV01, were also noted in the lower zones.

In the fall 2001, a Bar-Cad™ multi-level low-flow monitoring system was installed in OGV01. Miscalculations in the Bar-Cad™ construction and the well's alignment prevented the system from being installed to total depth. Discrete multi-stringed borehole packers were installed in OGV01 at discrete intervals. Water quality sampling was conducted using a low-flow technology (i.e. a low-flow rate). In September 2001, after installation, two zones sampled were the 378 feet bgs and 536 feet bgs depths. Sample results, from the two zones, were non-detect for all VOCs.

The system was removed, re-tooled to fit into the borehole, and re-installed. The new zones were: Zone 1 from 365 to 396.5 feet bgs, Zone 2 from 396.5 to 501 feet bgs, Zone 3 from 501 to 610 feet bgs, and Zone 4 from 610 to 717 feet bgs. The new sample depths were 392 feet bgs, 500 feet bgs, 608 feet bgs, and 715 feet bgs. These zones were sampled in October and December 2001. The only sample where TCE was detected (0.5 µg/l) was at 717 feet bgs. Methane was detected in all four intervals, ranging from 4.48 to 6.08 µg/l (Table 5 in Phase I RI and Table 4a in Phase II RI). The Bar-Cad™ system was removed from OGV01 in the summer of 2002.

Since the Bar-Cad™ system uses a low-flow pumping rate (less than 5 gals./min.) to draw groundwater into the well, only a small cone-of-capture is created. The small cone-of-capture will only impact the groundwater and any contamination in the groundwater near a well. Since the contaminant plumes impacting OGV01 are not immediately near the well, very little

contamination was drawn into OGV01 when the Bar-Cad™ system operated. The lack of contamination in the sample results verifies the assumption that the contaminant plumes impacting OGV01 are not local.

In 2003 and 2004, an investigation was conducted to determine the vertical locations (intervals) where contamination was entering and leaving OGV01. Downhole geophysical logging methods and water-quality samples were collected during borehole packer testing (Appendix A). This information was used to characterize geohydrology and water quality in the bedrock aquifer in the vicinity of OGV01. The geophysical methods included borehole caliper, natural gamma, fluid resistivity and temperature, and heat-pulse flow meter. The approach used was adapted from methods used in other investigations and characterizations of fractured bedrock aquifers.

The results of the geophysical logs are as follows.

- The caliper log, coupled with other logs, indicates the open borehole of OGV01 is only about 735 feet deep, indicating either borehole collapse or that the borehole infilled with debris below 735 feet.

- The caliper log, coupled with natural gamma log, indicates the lithology is predominately carbonate bedrock.

- The borehole fluid and flow logs indicate water flows downward in the borehole. Water enters the borehole at 420 feet, 485 feet, and 580 feet down, with the largest amount entering the borehole at the 485 foot depth. Water leaves the borehole between 545 feet and 550 feet. The borehole appears to be stagnant below 700 feet.

In December 2003, water-quality samples were collected under ambient (non-pumping) conditions using a discrete stainless steel point sampler. The samples were analyzed for TCE and other VOCs. The samples were collected as discrete samples at specific depths. The TCE concentrations increased with increasing depth from < 0.1 µg/l to 4.21 µg/l at 400 feet deep and to 4.51 µg/l at 550 feet. These results indicate that TCE is entering the borehole between 400 and 550 feet (Appendix A).

In March 2004, packer tests were conducted, which included pumping the borehole above the inflatable packer at various depths and at various rates. Initial tests with the pumps operating at 8.9 gallons per minute (gpm) detected a gradual increase of TCE with increasing depth until the concentration reached 6.36 µg/l at the packer depth of 564 feet deep. Subsequent packer tests with increased pumping rates detected increased TCE concentrations entering the borehole until a maximum concentration of 67.3 µg/l was detected with the packer set at 578 feet and the pump operating at 14.2 gpm. (See figures and table in Appendix A).

In order to determine the depth of the highest TCE concentration entering the borehole, discrete water samples were collected at various depths in the borehole with the packer set at 578 feet and the pump operating at 14.2 gpm. Sample results indicated an increase in TCE from 67.3 µg/l at 350 feet deep to 99.6 µg/l at 540 feet deep, with a rapid decrease to 10 µg/l at 560 feet deep. The sample results indicated that the largest concentration of TCE and other VOC contaminants were entering the borehole from 540 to 560 feet deep. In order to determine the optimal pumping rate,

the tests were repeated at a lower pumping rate for 43 hours. With a pumping rate of 8.9 gpm, the maximum concentration of TCE detected in the well's 540 to 560 foot interval was 6.15 µg/l (See figures and table in Appendix A).

The results of the water-quality samples collected during the borehole geophysical logging and the packer tests on OGV01 indicate the highest TCE concentrations (99.6 µg/l) enter OGV01 in the 540 to 560 foot interval. The same interval has the largest permeability as it contributes about 40 % of the yield under pumping conditions. The packer tests indicate that the optimal pumping rate is 14.2 gpm (Appendix A).

A correlation between the pumping rate and the TCE concentration indicates that the most contaminated region of the aquifer is not directly intersected by OGV01. The pumping conditions create a cone-of-capture, which influences the localized groundwater gradients, causing groundwater to be drawn into the well primarily from the most permeable zones; however, groundwater could inflow from any direction into the open borehole.

4.1.2 Oak Grove Village Municipal Well (OGV02)

In December 2002, OGV drilled a new municipal well, OGV02. Total depth of OGV02 was 900 feet. Initial sample results, obtained just after the installation of OGV02 in January 2003, detected TCE contamination of 70.8 µg/l in groundwater. In early 2004, OGV installed a shallow tray air stripper for the treatment of the contamination in the groundwater extracted by OGV02. Sample results revealed that the air stripper removed the VOC contamination in groundwater to non-detect in the post stripper water. After receiving permission from the DNR, OGV began operation of OGV02 and the air stripper on April 22, 2005, as public water supply and thereafter ceased purchasing water from Sullivan.

In March 2003, the DNR conducted a 48-hour sampling event to monitor OGV02. All sample results during the test were over the MCL of 5 µg/l for TCE. The initial sample at 0 hours detected TCE at 5.86 µg/l. For the remaining samples, TCE contamination was detected at 19.3 µg/l at 2 hours and steadily climbed to 70.8 µg/l at 30 hours. After 36 hours, the TCE contamination fluctuated between 61.0 µg/l and 66.3 µg/l (Table 4a in Phase II RI).

Since May 2005, the DNR has collected discrete samples from OGV02 five times, both before and after treatment at designated sampling ports. The pre-treatment samples had detections of TCE from 7.35 µg/l in October 2006 to 119 µg/l in July 2005. All five samples also detected the presence of cis-1,2-DCE. Three of the samples had detections of CFC-11. The only documented differences between the five sampling events were a higher pumping rate of 150 gpm in July and October 2005, instead of 125 gpm normal operation, in May 2005, June 2006, and October 2006 and the lag time between the initiation of the system and when the sample was collected.

Sampling of OGV02 indicated that the longer the system was in operation prior to sampling, the higher the TCE and cis-1,2-DCE concentrations. Other COPC detections also show a correlation to the length of time between the start of operation of the well and the sampling event. The longer the system was operating prior to sampling, the more likely other COPCs were detected in the sample (Table 4-22).

Although OGV02 is in close proximity to OGV01, the differences in contaminant concentrations in the two wells may be attributed to the interval at which contamination is entering OGV02, the interval size (thickness), the pumping rate (150 gpm) needed to impact the volume of contamination entering the OGV02 borehole, and its proximity to the contaminant plumes.

4.1.3 City of Sullivan Municipal Wells (COS)

Monitoring and groundwater sampling of the Sullivan municipal wells has been part of various investigations since the discovery of TCE in the OGV/Sullivan area in 1986. Sullivan has had eleven municipal wells over its operational history (Table 4-23).

Four COS wells are closed or inactive (not used) due to contamination or other issues:

1. COS01

COS01 operated from 1923 until it was taken out of service and closed in the mid-1960s, due to bacterial problems.

COS01 was not sampled during the original RI and the Post-RI groundwater investigations (Table 4-23).

2. COS04

COS04 operated from 1962 until its removal from service to Sullivan as a municipal well in September 2004. This non-contaminated well was removed from service, so it could be incorporated into the groundwater monitoring program.

Groundwater sampling of COS04 during the original RI and the Post-RI groundwater investigations were non-detect for TCE and other VOC contamination (Table 4-23).

3. COS06

COS06 began operating in 1969. It is currently inactive due to bacterial problems.

Groundwater sampling of COS06 during the original RI and the Post-RI groundwater investigation were non-detect for TCE and other VOC contamination (Table 4-23).

4. COS08

COS08 operated from 1977 until it was taken out of service and closed in December 2004 due to TCE contamination exceedances.

The September 1986 sample results for the COS08 well were non-detect for TCE and other VOC contamination in groundwater. Continued groundwater sampling of COS08 revealed that the sample results were below 1.0 µg/l or non-detect for TCE and other VOCs in groundwater until June 1995. Sample results after June 1995 showed a steady

increase in TCE until 11.5 µg/l was detected in November 1999. The highest concentration of TCE in groundwater detected in COS08 was 11.5 µg/l in November 1999. The last sample result before closure for TCE was 7.2 µg/l in June 2004 (Table 4b in Phase II RI, Table 4-23).

Sullivan currently has seven municipal wells in use:

1. COS02

COS02 began operation in 1947. It operates continuously, pumping at 245 gallons per minute (gpm) and has a treatment system in place due to continued TCE contamination exceedances.

In September 1986, the DNR/Public Drinking Water Program sampled COS02. The well was non-detect for TCE and other VOC contamination in groundwater, except for PCE at 2.3 µg/l. The first detection of TCE was in May 1988 at 4.6 µg/l. Since the May 1988 detection, TCE has been detected numerous times.

Due to the continued TCE exceedances, an air stripper was installed on COS02 in August 2001. The highest concentration of TCE in groundwater detected in COS02 was 52.9 µg/l in June 2006. Sample results over time demonstrate a rise in TCE in COS02 (Table 4b in Phase II RI, Table 4-23).

2. COS03

COS03 began operation in 1954. The well activates automatically with an average pump rate of 7 hours/day. When operating, it pumps at 215 gpm.

In September 1986, the DNR/Public Drinking Water Program sampled COS03. The sample results for COS03 were non-detect for TCE and other VOCs. Continued groundwater sampling of COS03 revealed that most of the sample results were below detection limits or non-detect for TCE and other VOC contamination. COS03 has had two detections of TCE at 1.7 µg/l in June 1997 and 2.8 µg/l in June 2001 (Table 4b in Phase II RI, Table 4-23).

A water sampling event was conducted on COS03 from September 28, 2006, to November 1, 2006, to determine if rate of pumping influenced the level of TCE detected in the well. A sample was taken shortly before the pump was turned on. Once activated, the well was pumped continuously until after the last sample was collected on November 1, 2006. Samples were collected at various times while COS03 was pumped and all the sample results were non-detect for TCE.

3. COS05

COS05 began operation in 1963. The well activates automatically, with an average pump rate of 10 hours/day. When operating, it pumps at 260 gpm.

In December 1986, the DNR/Public Drinking Water Program sampled COS05. The well was non-detect for TCE and other VOCs.

Groundwater sampling of COS05 during the RI and Post-RI groundwater investigations was non-detect for TCE and other VOCs (Table 4-23).

4. COS07

COS07 began operating in 1974 and is activated manually when needed. When operating, it pumps at 175 gpm.

In September 1986, the DNR/Public Drinking Water Program sampled COS07. The well was non-detect for TCE and other VOCs.

Groundwater sampling of COS07 during the RI and Post-RI groundwater investigations were non-detect or below the MCL for TCE and other VOCs, except as noted. COS07 had four detections of TCE at 1.2 µg/l in May 1999 and August 2001, 1.4 µg/l in November 1999, and 1.38 µg/l in August 2004. The highest concentration of TCE in groundwater detected in COS07 was 1.4 µg/l in November 1999 (Table 4b in the Phase II RI, Table 4-23).

5. COS09

COS09 began operating in 1984 and is activated manually when needed. When operating, it pumps at 245 gpm.

The September 1986 sample results for COS09 were non-detect for TCE and other VOC contamination in groundwater. Continued groundwater sampling of COS09 revealed that the sample results were below 1.0 µg/l or non-detect for TCE and other VOCs until April 1997. Sample results after April 1997 continued to show a fluctuation in TCE from 1.3 µg/l in April 1997 to a maximum concentration of 4.2 µg/l in September 2003.

Groundwater sampling of COS09 during the original RI and Post-Phase II RI groundwater investigations showed a consistent level of TCE contamination (Table 4b in Phase II RI, Table 4-23). Due to a transcription error, the TCE concentration for the December 2001 sampling event was reported as 51 µg/l instead of 0.51 µg/l.

6. COS10

COS10 began operating in 1996 and is activated manually when needed. When operating, it pumps at 235 gpm.

Sampling of COS10 began in February 1997. The well was non-detect for TCE and other VOCs until August 2001.

Groundwater sampling of COS10 during the original RI and Post-Phase II RI groundwater investigation revealed that the sample results were below 1.0 µg/l or non-

detect for TCE and other VOCs until August 2001. COS10 had two detections of TCE at 3.3 µg/l in August 2001 and 2.95 µg/l in August 2003. The highest concentration of TCE in groundwater detected in COS10 was 3.3 µg/l in August 2001 (Table 4b in Phase II RI, Table 4-23).

7. COS11

COS11 began operating in 1998. It is currently inactive due to rising levels of TCE detected in the well; however, it is activated manually when needed. When operating, it pumps at 450 gpm with TCE contaminant concentrations below the MCL.

Sampling of COS11 began in June 1998. The June 1998 sample results for COS11 was 1.3 µg/l for TCE and non-detect for other VOCs. Continued groundwater sampling of COS11 revealed a fluctuation in TCE from non-detect in March 1999 to a maximum concentration of 4.6 µg/l in June 2002 (Table 4b in Phase II RI, Table 4-23).

Some of the Sullivan municipal wells have been impacted by TCE and other VOCs, while others have not. The variability could be due to the location and number of operating Sullivan municipal wells, the total depth of the well's boreholes, the pumping rates of the operating wells, and the locations and concentrations of contamination in groundwater.

The Sullivan municipal wells continue to be monitored and sampled by the city of Sullivan for the DNR/Public Drinking Water Program and by TRW as part of its monitoring program. Efforts to coordinate sampling events occur when appropriate.

4.2 Private Residential Wells

The Highway AF Wells, the White House Well, and wells near the TRW/Ramsey Facility were characterized and/or sampled. Characterization and groundwater sampling of the residential well (AF-P) on Highway AF and the White House Well (WH1), and tree core sampling along Highway AF was completed during the Post-Phase II RI. Groundwater sampling of the remaining Highway AF wells and wells near the TRW/Ramsey Facility was conducted during the RI and is ongoing.

4.2.1 Highway AF Wells

The Highway AF wells are located along State Highway AF northwest of OGV. The Highway AF area is north of I-44 about 1.5 miles from the OGV wells. The wells are located in a rural, residential area situated at the northern edge of Sullivan, with agricultural land adjacent to most of the homes (Figure 1). The former northern Sullivan sewage lagoon and COS11 are approximately 0.5 mile south of the wells. Sullivan's local airport lies approximately 0.5 mile east of the wells. Winsel Creek, a losing stream, is situated south and east of the wells, flowing past the sewage disposal pond area on the south, toward the northeast, passing southeast of the airport.

In 1989 to 1990, Sullivan conducted an investigation to define the aerial extent of the TCE contamination in groundwater. A number of private wells along Highway AF were sampled. Sample results showed low concentrations of TCE and other COPCs in some of the wells (Table 5 in Phase II RI).

At the conclusion of the pre-RI investigations associated with the Highway AF wells, there were six Highway AF wells with detections of TCE. Of the six wells with TCE detections, one residential well revealed two detections of TCE above the MCL at 5.7 µg/l in June 1997 and 6.3 µg/l in September 1997. The September 1997 sampling also had detections of TCE in a second well just above the MCL (Table 5 in Phase II RI).

As the groundwater RI expanded, additional wells were included in the area west-northwest of the OGV wells. This included the addition of wells along Highway AF, East-West Road, and Spring Bluff Road. To date, eighteen wells along Highway AF, four wells along East-West Road, and ten wells along Spring Bluff Road have been sampled (Figure 1, Table 5 in Phase II RI).

Thirteen wells along Highway AF and three wells along East–West Road have had detectable concentrations of TCE contamination in groundwater. None of the wells along Spring Bluff Road had detectable concentrations of VOC contamination in groundwater (Figure 1, Appendix B). In 2006, three residential wells along Highway AF had other detectable COPCs along with TCE (Figure 1, Tables 4-1 and 4-2 and Appendix B).

Residential Well (AF-P) on Highway AF:

The Post-Phase II RI investigation also included the sampling characterization of a residential well (AF-P) on Highway AF in January and February 2006 (Figure 3). An investigation was conducted on the well because TCE contamination in groundwater had impacted the well at concentrations over the MCL in the past, and the well was an old lead-zinc exploration borehole possibly over 1000 feet deep. If the projected depth was accurate, then the impacted well could act as a conduit for contamination to impact the groundwater at a deeper depth.

The possibility of a deep borehole impacted by TCE contamination, even through somewhat removed from the OGV wells, presented an opportunity to collect additional information about the vertical extent of the TCE contamination in the bedrock aquifer at a location other than the OGV wells. This location would also allow for the collection of additional information regarding a possible connection between the Highway AF area and the OGV wells.

Down-hole video logging of AF-P was completed on January 30, 2006. The down-hole video logging revealed the total depth of AF-P was 335 feet not 1000 feet, as the owner believed and the well contained about 175 feet of 6-in steel casing (Figure 5).

After the video logging was completed, a series of borehole geophysical logs and discrete sampling was done. The borehole geophysical logs were run from late January through mid-February 2006. The geophysical logs consisted of a borehole caliper, fluid temperature and conductance, and borehole flow meter under ambient and pumping conditions. The flow meter

logging indicated downward flow throughout the borehole from the water surface at about 180-ft deep to the bottom of the well. Downward flow increased in the 250 to 300 ft deep interval.

Discrete point sampling in AF-P was conducted on February 6 and 14, 2006. The point samples were collected at 5 depths under both ambient (non-pumping) and pumping conditions. Each sampling event consisted of five discrete samples, which were analyzed using a field GC. The estimated TCE concentrations by the field GC in the point samples were uniform throughout the borehole under both ambient (1.2 to 1.5 ug/l) and pumping (1.5 to 2.0 ug/l) conditions (Table 4-3). Split confirmation samples under pumping conditions were collected on February 6, 2006, and sent to the laboratory. The laboratory sample results were uniform (1.44 to 1.78 ug/l) throughout the borehole (Appendix B). There was a good correlation between the field GC and laboratory confirmation samples.

The characterization and sampling of AF-P on Highway AF confirmed that TCE is still present in the Highway AF area and AF-P is not acting as a conduit to the deeper aquifer. The uniform TCE concentrations in groundwater throughout the borehole under ambient conditions with downward flow suggests the TCE impacting AF-P is present at or near the water table and probably is related to a local source of TCE contamination.

Tree Core Sampling:

Tree core sampling was conducted along Highway AF and East-West Road as part of the Phase II RI investigation on October 19 and 20, 2005 (Figure 6). Seventeen tree core samples (1 AF to 16 AF, 18 AF) were collected along Highway AF and nine tree core samples (17 AF, 19 AF to 27 AF) were collected at the intersection of Highway AF and East-West Road. The tree core samples along the east side of Highway AF began just north of the Sullivan Airport and ended before the first curve on Highway AF (Figure 6). The tree cores were collected from various deciduous trees, all with a diameter greater than 3 inches.

The core samples were analyzed for specific VOCs – TCE, PCE, cis-1,2-DCE, benzene, and toluene (Table 4-4). The sample results for the tree core samples were non-detect for the VOC contaminants, except for samples 10 AF, 17 AF, 18 AF, 21 AF, 24 AF, and 25 AF. Tree 10 AF had cis-1,2-DCE contamination at 0.51 µg/kg and toluene at 0.41 µg/kg. Tree 17 AF, south of the Highway AF and East-West Road intersection, had a detection of toluene at 2.30 µg/kg. Tree 18 AF, located on the west side of Highway AF, had cis-1,2-DCE contamination at 1.10 µg/kg. Tree 21 AF, north of the Highway AF and East-West Road intersection across a local business's road, had TCE contamination at 0.80 µg/kg and toluene contamination at 0.30 µg/kg. Tree 24 AF, northeast of the Highway AF and East-West Road intersection, had a detection of benzene at 0.11 µg/kg. Tree 25 AF, southeast of the Highway AF and East-West Road intersection, had cis-1,2-DCE contamination at 2.00 µg/kg.

TCE and/or cis-1,2-DCE were detected in four tree-core samples along Highway AF. Tree 10AF, which contained cis-1,2-DCE, is located across the road from a private well that had a detection of TCE over the MCL at 6.0 µg/l in the past (pre-RI). Currently, there is no correlation between the cis-1,2-DCE found in Tree 18AF and any nearby private wells. Tree 21AF, which contained TCE, and Tree 25AF, which contained cis-1,2-DCE, are located in the area along Highway AF with the largest number of private wells that are consistently impacted by TCE below the MCL (Figure 6). This could indicate an undetected potential source area nearby.

Summation:

The existence of VOCs in the AF-P well and in trees near the Highway AF and East-West Road intersection and along Highway AF supports the idea that an unknown localized source or a shallow groundwater plume is impacting the residential wells in the Highway AF area. The recent (2006) detection of other COPCs in the Highway AF wells may indicate a change in the chemistry of a localized, shallow source or the addition of another source, impacting the Highway AF wells.

4.2.2 White House Well

In 1991, as part of a well inventory done to develop a potentiometric map in the vicinity of the closed Sullivan Landfill, a water-level measurement was collected from an unused residential well (WH1or White House well) adjacent to the Oak Grove Village City hall. This well is less than 100 feet northeast of OGV01 and was a residential well until the residence was converted to a restaurant named the White House. The White House Restaurant closed in the early 2000s due to a fire.

At the time of the site visit (February 11, 1991), Oak Grove Village supplied the water at the residence and the owner indicated that the well had been unused for many years. The well is located in the basement (about 7 feet bgs) of a building behind the residence referred to as a "wine cellar". The depth to water measured on February 11, 1991, was 192 feet and the total well depth was estimated to be about 360 feet using a weighted tape. The well was not sampled in 1991 and was reportedly abandoned and plugged at the time of the Phase II RI in 2004-2006.

In an attempt to verify previous information and obtain addition data on VOC distributions in shallow groundwater near OGV01, a determination was made to verify the location and status of well WH1. On April 10, 2007, the well was located at the previously known location, uncapped and opened. The water-level measurement was 191.41 feet, measured from the basement floor or 197.40 feet from the top of basement wall. Water-level measurements were also taken in monitoring wells, MW1, MW1A, MW3, MW4, and MW5 (Table 4-21). While water-level measurements on April 10, 2007, were higher than those taken in October 2006, the trend of the April 10, 2007, water-level measurements is similar and indicates the shallow groundwater flow to the northeast (Figure 17).

On May 17, 2007, a video log of WH1 was completed. The video log determined WH1 has 140 feet of 6-in. steel casing with large rust holes in the casing at 27-foot, 46-foot, and 91-foot depths. The water-level depth was 191 feet (198 feet from the top of the basement wall). The borehole had openings at the 205 and 240-foot depths and it was blocked at the 332-foot depth. A 1-L (liter) point sampler was lowered down the borehole with a geophysical winch and the bottom of the hole sounded at 336 feet below the basement floor or about 342 feet bgs.

Point samples were collected at the 220 feet and 332 feet depth and analyzed on May 18, 2007, using the portable GC. No VOCs were detected in the samples. A 3-in. diameter submersible pump was installed at the 240-foot depth on May 21, 2007. It initially pumped at 20 gpm for 15 minutes until the water level had drawn down to the depth of the pump. On May 23, the pump was lowered to the 300-foot depth and the well was purged at 4 gpm for 2 hours. The water

level again dropped to near the pump and the purge rate was lowered to 2 gpm. The well purged an additional 21.75 hours at 2 gpm (total of about 3,100 gallons purged or about 15.5 well volumes) after which a water sample was collected on May 24, 2007, and submitted to a laboratory for analysis. Sample results were non-detect for all VOCs (Attachment B).

The bottom of WH1 (342-foot bgs) is slightly shallower than the bottom of the casing in OGV01 (350 feet deep) making WH1 a good monitoring well (point) for the shallow groundwater at OGV01. The absence of TCE and other COPCs in the May 24, 2007 sample from WH1 is consistent with the absence of TCE in the shallow part of MW3 (before the 3-in steel casing was set), the absence of TCE in shallow monitoring wells MW4 and MW5, and with small TCE concentrations in the shallow (less than 450 feet deep) packered zone in OGV01 (Schumacher, 2004). The absence of TCE in WH1 and other nearby shallow monitoring wells and the large TCE concentrations detected at depth in OGV01 strongly suggests that the source of TCE in OGV01 and OGV02 is not from a local source.

4.2.3 Wells Near TRW/Ramsey Facility

The TRW/Ramsey facility is currently undergoing RCRA corrective action. A TCE contaminant groundwater plume has been defined within the Ozark Aquifer beneath the TRW/Ramsey facility. A groundwater pump and treatment system has been installed on COS02 to mitigate the potential migration of the contamination in groundwater. The Ground Water Monitoring Plan (GWMP), established as part of the RCRA consent order, requires routine sampling of wells within a two-mile radius of the TRW/Ramsey facility.

Sampling of six private residential wells (LOC 105, LOC 111, LOC 157, LOC 244, LOC 245, and LOC 246) was included under the GWMP beginning in December 1993. The six wells are the closest known wells to the TRW/Ramsey facility, and are located in various directions from the facility. Sampling was discontinued on one residential well (LOC 111) in June 1998. TRW continues to sample the remaining five wells annually. As part of the Phase II RI groundwater sampling, the DNR split samples with TRW in June 2002 (Figure 1). Sample results for all samples collected, including the DNR split samples, were non-detect or below detection limits for all VOCs (Table 5 in Phase II RI).

As part of the GWMP sampling, TRW will continue to collect water samples from the five private residential wells

4.3 Monitoring Wells

4.3.1 Deep Monitoring Wells (MW-1 - MW-3)

The Phase II RI included drilling and sampling of three new deep monitoring wells. The location of the monitoring wells was designed to triangulate the OGV wells, assisting in defining the extent and location of the TCE and other VOC contaminant plumes impacting the OGV wells (Figure 3). The three deep monitoring wells are the Landfill monitoring well (MW-1), the Flying J monitoring well (MW-2) and the VFW monitoring well (MW-3). Two wells, MW-1 and MW-3, were located between potential source areas and the OGV wells. The third

well, MW-2, was located between the contaminated Highway AF wells and the OGV wells. The MW-2 location was chosen to assist in determining where the groundwater contamination impacting the Highway AF wells and other contamination originates (source area).

Drilling began on February 23, 2005, and ended on May 18, 2005, for the three deep monitoring well boreholes. The total depths recorded for the three deep boreholes were 501 feet below ground surface (bgs) for MW-1; 631 feet bgs for MW-2; and 581 feet bgs for MW-3 (Appendix J in the Phase II RI).

The following geology was encountered during the drilling of the three monitoring wells (Appendix J in Phase II RI):

- MW-1 encountered residual weathered bedrock (0-24 feet bgs), the Gasconade Dolomite (24-232 feet bgs), the Eminence Dolomite (232-395 feet bgs), and the Potosi Formation (395-501 feet bgs).

- MW-2 encountered residuum (0-10 feet bgs), the Roubidoux Formation (10-159 feet bgs), the Gasconade Dolomite (159-400 feet bgs), the Eminence Dolomite (400-559 feet bgs), and the Potosi Formation (559-631 feet bgs).

- MW-3 encountered residuum (0-21 feet bgs), the Roubidoux Formation (21-113 feet bgs), the Gasconade Dolomite (113-325 feet bgs), the Eminence Dolomite (325-485 feet bgs), and the Potosi Formation (485-581 feet bgs).

The downhole geophysical logging was done after all three deep monitoring wells had been drilled and the surface casings set (Figure 23 in Phase II RI). Since the surface casing was in place, geophysical logging was not done on the upper zones. A marker bed identified on the geophysical logs for each deep monitoring well shows the strata in MW-1 is structurally higher than the strata in MW-3. It is also possible that MW-1 is structurally higher than MW-2. After the geophysical logging was completed, the three monitoring wells were left as open borehole completions with only a surface casing. Thus, additional casings were not installed in the three deep monitoring wells until the Post-Phase II RI.

One sampling event was conducted for each of the three deep boreholes during the Phase II RI. A pump was set in each well in the Potosi Formation at 535 feet bgs to 564 feet bgs, which is the same interval impacted by TCE in OGV01. During the sampling event, each deep monitoring well was pumped at approximately 50 gpm, with a total groundwater volume of approximately 360,000 gallons removed for each deep monitoring well.

Samples were collected at specific time intervals, so each deep monitoring well had a total collection of twelve samples over 120 hours. Since one sample exceeded the temperature preservation range for MW-1, the test was re-run to cover and include the exceeded sample. Thus, the total groundwater volume removed for MW-1 was approximately 720,000 gallons

The samples were analyzed for VOCs, total arsenic, total cadmium, total chromium, and total lead. The concentrations of VOCs and metals in the three deep boreholes diminished over time.

The VOCs detected at the highest concentrations in MW-1 were TCE at 0.83 µg/l, CFC-11 at 9.3 µg/l, and CFC-12 at 0.76 µg/l, all at 10-minutes. TCE was not detected in MW-2 or MW-3 (Table 17 in Phase II RI).

The Post-Phase II RI investigation included the completion of the borehole geophysical logging, finalized construction of the three partially constructed deep monitoring wells, and the collection of additional water samples from the completed deep monitoring wells. More details on the Post-Phase II work for the three wells is discussed below.

When work resumed on MW-1 and MW-3, the measured total depths for the two wells were 505 feet bgs for MW-1 and 580 feet bgs for MW-3. Since a difference existed related to the total depths of the two wells, the final construction depths of 505 feet bgs for MW-1 and 580 feet bgs for MW-3 for the completed monitoring wells was used.

Landfill Well (MW-1)

A down-hole video log of the MW-1 borehole was completed in early-December 2005. The video log indicated debris at the bottom of the well at 505 feet bgs. Subsequent geophysical logging was halted above 496 feet bgs to avoid entanglement with the debris at the bottom of the borehole. Borehole geophysical logs were run during December 2005 (Figure 7). The geophysical logs consisted of a gamma log, a fluid temperature log, a conductivity log, a resistivity log, a caliper log, and a heat-pulse flow meter log. More than 25 flow meter measurements were made in the open section of the borehole. The geophysical logs confirmed that the well had about 104 feet of 10-in steel casing. The open borehole below 104 feet was 10-in in diameter and generally smooth, with several openings, particularly between 425 and 450 ft deep (Figure 8).

Results of borehole fluid and flow meter logs indicated the open section of the MW-1 borehole was intersecting two flow regimes within the bedrock aquifer. The flow-meter measurements in the borehole indicated downward flow from 175 feet to about 280 feet bgs and upward flow from the bottom of the borehole to about 320 feet bgs. The intensity of downward and upward flow decreased in the interval between 260 feet and 320 feet bgs (Figure 7) indicating the flow was exiting the borehole in this interval. The downward flow had a higher specific conductance (more than 400 µS/cm [microsiemens per centimeter at 25 degrees Celsius]) and contained detectable TCE concentrations (0.55 to 1.1 µg/l [field GC] and 1.68 µg/l [laboratory]) compared to the upward flow component with the lower specific conductance (about 325 µS/cm) and no detectable TCE concentrations (Table 4-5 and Appendix C).

Four point samples were collected in December 2005, at the 185, 250, 415, and 480-foot depth. These samples were split for analysis using the field GC and the DNR laboratory. The field GC sample results revealed TCE at 1.1 µg/l (185 feet bgs), 0.55 µg/l (250 feet bgs), and non-detect (415 and 480 feet bgs), and cis-1,2-DCE contamination at 0.49 µg/l (185 feet bgs). The laboratory sample results for the 185 foot sample revealed TCE at 1.68 µg/l, cis-1,2-DCE at 0.56 µg/l, CFC-12 at 1.36 µg/l, CFC-11 at 11.6 µg/l, methylene chloride at 0.51 µg/l, PCE at 0.24 µg/l, and 1,1 DCA at 0.43 µg/l. The laboratory sample results for the 480-foot sample were non-detect for all VOCs. A good correlation existed between the results from the field GC and the laboratory confirmation samples (Table 4-5 and Appendix C).

Based on the borehole geophysical logging and point sampling, MW-1 was completed in January 2006 by installing a 4-in PVC riser with a 5-foot packer at the bottom to a 349-foot depth (Figure 8). The annulus between the PVC riser and the borehole wall from 280 ft to 344 ft was sealed slowly over several weeks by adding annular materials in "lifts." This was necessary, since cement was being lost to the permeable formation. Bentonite pellets were added up to the 325-foot bgs depth, Portland cement was then added up to 295 feet bgs, and additional bentonite pellets were added to about 280 feet bgs. The annulus between the 4-in PVC riser and the 10-in borehole wall from 280 feet bgs to 105 feet bgs was left open to allow for water-level measurements and water sampling. The open annulus is referred to as MW-1A and the deeper open-hole section below the riser from 349 to 505 feet bgs is referred to as MW-1 (Figure 8).

Both MW-1 and MW-1A were sampled using a 2-in submersible pump on April 26 and 27, 2006. The pump was set at 185-foot bgs in each well. Discharge water was collected and transported to the Sullivan wastewater treatment plant. Split samples were collected and analyzed using the field GC and sent to the DNR laboratory for analysis. The field GC samples identified small concentrations of TCE (0.6 to 0.8 ug/l), PCE (0.1 J ug/l), and benzene (0.1 J ug/l) in samples from MW-1A (annular well), however no COPCs were detected in MW-1. The laboratory sample results also detected VOCs in MW-1A, and non-detects for VOCs in MW-1. The concentrations detected in MW-1A were TCE at 1.71 µg/l, cis-1,2-DCE at 0.52 µg/l, CFC-12 at 1.97 µg/l, CFC-11 at 11.6 µg/l, PCE at 0.27 µg/l, and 1,1-DCA at 0.42 µg/l (Table 4-6 and Appendix C).

The upward flow in the borehole is related to this borehole being within or near the aquifer's discharge zone where groundwater flow in the deeper bedrock aquifer is trying to move upward and discharge to the Meramec River, thus acting as a regional drain. Although the Meramec River is about 2 miles east of MW-1, the La Jolla Spring cave complex and its associated spring (La Jolla Spring) have been mapped as extending more than 1 mile west of the Meramec River.

Discharge measurements made by the USGS in the 1990s and observations by cave mappers and the DGLS indicate that most water in La Jolla Spring emerges from the western-most part of the mapped cave system. The distal reaches of this cave and spring system may serve as a drainage system for the aquifer extending some distance from the Meramec River. A 1991 dye trace study was conducted, in which a dye packet was released from Winsel Creek (a losing stream in proximity to MW-1) and one dye packet from the sinkhole in the closed Sullivan Landfill just east of MW-1. The dye from both packets emerged at La Jolla Spring, confirming a subsurface connection between the spring and the area around MW-1 (Plate 1 in Phase I RI).

In addition, VOC contamination has been detected in La Jolla spring that is similar in composition to VOCs detected in the closed Sullivan Landfill's seeps and in nearby wells. The flow meter measurements in the MW-1 borehole indicate that the cave/spring system is draining the aquifer near MW-1. The interval altitude where downward and upward flow converges and exists in the borehole (about 560 ft NGVD 29) is about the same altitude as LaJolla Spring in the LaJolla Spring cave complex. Thus the presence of TCE and other VOCs in the upper part (MW-1A) of the MW-1 borehole indicates that local contamination in groundwater from the adjacent closed Sullivan Landfill is impacting MW-1.

Flying J Well (MW-2)

A video log of the MW-2 borehole was completed in early-December 2005. The video log revealed a cave from about the 460 to 475 foot depth and the borehole appeared to be collapsed below 475 ft. The remaining Post-Phase II RI work slated for MW-2 is part of OU2.

VFW Well (MW-3)

A down-hole video log of the MW-3 borehole was completed in early-December 2005. The video log indicated debris in the borehole at about 500-foot bgs. Subsequent geophysical logging was halted above the debris to avoid entanglement. Borehole geophysical logs were run during December 2005 (Figure 9). The geophysical logs consisted of a gamma log, a fluid temperature log, a conductivity log, a resistivity log, a caliper log, and a heat-pulse flow meter log. More than 30 flow meter measurements were made in the open section of the borehole. The geophysical logs indicated the well had about 132 feet of 6-in steel casing. The open borehole below 132 feet was 6-in in diameter with a total depth of 580 feet bgs. The borehole was generally smooth, with several openings, particularly at the 190-foot, the 415-foot, the 460-foot, and the 495-foot bgs depths (Figure 10).

Unlike MW-1, the fluid specific conductance log in MW-3 was nearly uniform throughout the borehole, from about 333 μS/cm at about 203 feet bgs (groundwater surface) to the bottom of the borehole. The borehole flow meter measurements indicated near uniform downward flow from the water surface to about 440-foot bgs depth, where downward flow began steadily decreasing (Figure 10). The flow meter measurements indicated water was entering at the top of the borehole (the video actually indicated flow cascading down the borehole from above the water surface) and exiting the borehole in the 440 to 580 foot interval.

In December 2005, four point samples were taken at the 125, 300, 425, and 525-foot depths. The samples were split for analysis using the field GC and the DNR laboratory. The field GC sample results were non-detect for TCE and other COPCs. The laboratory sample results were also non-detect for TCE and other COPCs (Table 4-5 and Appendix C), indicating a good correlation between the field GC and laboratory results.

Based on the borehole geophysical logging and point sampling, MW-3 was completed in January 2006 by installing 3-in steel casing to 327 ft deep (Figure 10). Like MW-1 this installation isolated a lower zone, which is comparable in depth to the upper part of the open interval of OGV01. The steel casing was selected since there was insufficient space to install a 4-in PVC riser and effectively seal the annulus between the riser and the 6-in diameter borehole. A 3.5-foot long packer was placed at the bottom of the steel casing. Portland cement was slowly added to the annulus above the packer in "lifts" over the next several weeks, necessitated by the loss of some cement to the permeable formation. After the level of the cement reached 274 feet, bentonite was mixed with the cement and brought up slowly in lifts to approximately the 160-foot bgs depth.

With the completion of MW-3, the annular space between the 4-in PVC riser and borehole was too narrow for collection of water level measurements and groundwater samples from the open annulus. It was not until after the completion of the well that this point was determined.

Therefore, comparison data within the well was lost from the open interval because of the inability to measure and sample.

Due to the large amount of downward flow that occurred in the open borehole after its partial construction, an initial water sample from the completed well (post installation of the steel riser) was collected after extensive pumping (more than 120,000 gal of water removed). A concern existed that a substantial quantity of "clean" water had moved from, at, or above the water table to the deeper (440 to 580 foot deep) part of the formation, possibly diluting to below detection any site-related VOC contamination that might be present in the deeper bedrock groundwater. A 15-gpm pump was temporarily installed in MW-3 on April 24, 2006. Samples were collected and analyzed using the field GC. Sample results revealed no detections of TCE or other COPCs (Table 4-6).

A new pump was installed, but problems with the generator resulted in only intermittent pumping until May 8, 2006. The generator was repaired and MW-3 was pumped continuously from May 8, 2006, through May 12, 2006. Pumped groundwater was discharged to a nearby Sullivan manhole. Samples were collected on April 24, April 29, May 2, May 9, May 11, and May 12, 2006, and analyzed using the field GC. A split sample was collected on May 12, 2006 and submitted to the DNR laboratory for analysis. Sample results using the field GC samples from the April-May 2006 sampling events revealed no TCE or other COPCs. Benzene was detected in the April 29 and May 2, 2006, samples at 16.4 µg/l and 18.8 µg/l, respectively (Table 4-6). No TCE or other COPCs were detected in the laboratory sample collected on May 12, 2006 (Appendix C)

The completed well was sampled a second time on October 17, 2006, after approximately 5,900 gallons of water was purged (about 14 well volumes). The split samples were analyzed using the field GC and the DNR laboratory. The field GC and laboratory sample results revealed no TCE or other COPCs (Table 4-6 and Appendix C).

4.3.2 Shallow Monitoring Wells (MW-4 & MW-5)

The installation of two monitoring wells was incorporated into the Post-Phase II RI. There were several potential TCE source areas near the OGV wells, and installation of additional monitoring wells between the potential source areas and the OGV wells was intended to reduce uncertainty regarding the TCE contaminant source in the OGV wells.

The Post-Phase II RI work plan provided for the installation of two additional monitoring wells. One well was to be installed along old route 66 east of Highway 185 to intercept potential contamination emanating from several potential sources (Ditch Witch, 185 Garage, Goodyear, and the Wal-Mart property) west and southwest of the OGV wells. The second well was to be installed along Sandy Drive about 1,500 ft east of the OGV wells to intercept potential contamination emanating from sources north and east of the OGV wells. Both wells were to be drilled to 620 feet deep and completed so each would have an open annulus to allow for sampling of the shallow (water table) and deeper (approximately 350 foot to 620 foot bedrock) groundwater.

Due to time constraints and the well's location, the Sandy Drive well has not been installed and is being evaluated as part of the Post-Phase II RI at OU2. Further evaluation regarding the location of the first well and the ability of the well to monitor potential contamination from all of the potential sources resulted in two shallow monitoring wells beings drilled, the 185 Garage well (MW-4) and the Ditch Witch well (MW-5).

Highway 185 Garage Well (MW-4)

The installation of the first shallow monitoring well, the Highway 185 Garage well (MW-4), began on June 2, 2006, on the Highway 185 right-of-way adjacent to and northeast of the Highway 185 Garage building. The location was chosen based on soil samples collected during the 1992 Phase II Environmental Site Assessment (ESA) of the Wal-Mart and adjacent properties (Sohn and Blanton). Soil samples collected during the Phase II ESA in the drum storage area just north of the Highway 185 Garage had detections of TCE contamination at 35 micrograms per kilograms (μg/kg) and PCE contamination at 74 μg/kg. VOC contamination was also detected in soil samples on other locations on the Sohn property (Figure 3).

MW-4 was installed to determine if the Sohn-Wal-Mart property was a possible source of TCE and PCE contamination in the groundwater. The drilling method, a cable tool drill rig, was used to drill the borehole to facilitate the collection and analysis of drill cuttings and water samples at 5 foot depths, and to minimize the quantity of containerized drill cuttings and water. MW-4 was drilled with a 12-in bit to 29 feet below ground surface (bgs) where 8-in steel surface casing was installed and cemented into place. An 8-in diameter borehole was drilled to 170 feet deep.

The initial samples from MW-4 were collected on June 7, 2006, at 70 feet bgs from the cable tool bailer and on June 8, 2006, at 110 feet bgs also from the bailer. The samples were sent to the DNR laboratory for analysis, and the sample results were non-detect for VOCs in both samples (Appendix C).

A 6-in borehole was then advanced to a total depth of 225 feet bgs (Figure 11). The water table at this location is about 160 feet bgs. A 4-in diameter PVC riser was installed to a depth of 160 feet bgs and sealed in the borehole with a packer and bentonite on June 21, 2006. The riser was considered temporary until results of a second round of laboratory samples could be collected from the open interval below the packer, and a determination made on whether or not to deepen the hole.

The second round of sampling consisted of two samples collected on June 19, 2006, and one sample collected on June 21, 2006. The three samples were sent to the DNR laboratory for analysis. The sample results were non-detect for VOCs (Table 4-7 and Appendix C). Sample results were non-detect for VOCs from both sampling rounds, indicating the on-site soil contamination was not leaching into the subsurface, contaminating the subsurface soils or groundwater. Thus, it was determined not to deepen the hole, so the construction of the 4-in monitoring well was completed on June 30, 2006.

Between June 2 and June 21, 2006, during the installation of the MW-4 borehole, a total of 32 drill-cuttings and water samples were collected and analyzed using the field GC (Table 4-8). None of the drill cutting samples contained detectable concentrations of TCE or other COPCs,

except for cis-DCE. Several samples contained concentrations of cis-DCE; however, the hydrocarbon contamination from the drill cable could have caused the GC to misidentify the VOC (Table 4-8).

Two sets of split groundwater samples were collected from the open-hole interval (160 to 225 feet bgs) below the riser pipe. The samples were collected on Sept 19, 2006, and October 17, 2006. One set was analyzed using the field GC, and the other set was submitted to the DNR laboratory. The sample results using the field GC from the two sampling events showed no TCE or other COPCs (Table 4-6). The laboratory sample results showed no TCE or other COPCs. Another groundwater sample was collected on February 21, 2007, and sent to the DNR laboratory for analysis. The sample results showed no TCE or other COPCs (Appendix C).

Ditch Witch Well (MW-5)

The installation of the second shallow groundwater monitoring well, the Ditch Witch well (MW-5) began on July 24, 2006. MW-5 was installed on private property between the Ditch Witch facility and the OGV wells on the north side of East Springfield Road (old Route 66) (Figure 3).

MW-5 was initially drilled with a 12-in bit to 35.5 feet below ground surface (bgs) where an 8-in steel surface casing was installed and cemented into place. An 8-in diameter borehole was then drilled to 170 feet deep, and a 6-in borehole then advanced to a total depth of 240 feet bgs (Figure 12), which was deep enough to intersect the 540-560 foot zone in OGV01. The water table at this location is about 180 feet deep. A 4-in diameter PVC riser was installed to a depth of 178 feet bgs and sealed in the borehole with a packer and bentonite, allowing for the collection of shallow bedrock water samples. The construction of the 4-in monitoring well was completed on September 9, 2006 (Figure 12).

During the installation of MW-5, between July 24 and September 9, 2006, seven split groundwater samples were collected and were either sent to the DNR laboratory for analysis or analyzed using the field GC. All field GC sample results were non-detect for TCE and other COPCs (Table 4-6). The laboratory sample results were also non-detect for TCE and other COPCs (Tables 4-9 and 4-10 and Appendix C).

In addition to the water samples, 34 drill cutting samples were collected and analyzed using the field GC during the installation of MW-5. None of the drill cutting samples contained detectable concentrations of TCE or other COPCs (Table 4-11).

On September 19 and October 30, 2006, split water samples were collected from the open-hole interval below the riser pipe. The split samples were analyzed using the field GC and were also sent to the DNR laboratory. No TCE or other COPCs were detected in the field GC or in the laboratory samples. A sample was also collected on February 21, 2007, and sent to the DNR laboratory for analysis. No TCE or other COPCs were detected in the sample (Table 4-6 and Appendix C).

After the completion of the deep monitoring wells and the installation of the shallow monitoring wells, the contaminated groundwater impacting the OGV wells was better defined. Sampling of MW-3, MW-4 and MW-5 revealed no TCE or other COPCs in the deep (580 feet) well (MW-3),

and the two shallow (225 and 240 feet) wells (MW-4 and MW-5 respectively). Based on these results, the shallow (less than 250 feet deep) groundwater west, southwest, and south of the OGV wells and the deep (less than 580 feet deep) groundwater directly south of the OGV wells are not contributing to the groundwater contamination in the OGV wells.

Sampling of MW-1 revealed TCE and other COPCs impacting the shallow portion of MW-1 (in the MW-1A annular space); however the deeper portion of MW-1 revealed no TCE or other COPCs in the deep well. Based on these results and previous results from the closed Sullivan Landfill, the landfill is impacting the shallow groundwater.

4.4 Potential Source Areas

The investigation of potential source areas began during the Phase II RI investigation and continued during the Post-Phase II RI. One of the activities completed during the Phase II RI was the investigation of the sanitary sewers. The information and data gathered from the sanitary sewer investigation assisted in determining other potential source areas to investigate in the Phase II RI (Figures 24 and 25 in Phase II RI) and the Post-Phase II RI (Figure 2) investigations.

The following potential source areas were investigated during the Phase II RI or Post-Phase II RI:

- the Sullivan closed northern and southern sewage lagoons,
- the Peterson ponds,
- the closed OGV sewage lagoon,
- the Sullivan/OGV sanitary sewers,
- the abandoned drum disposal area in OGV,
- the Blanton – Sohn – Wal-Mart Properties,
- the Ditch Witch facility,
- the Winsel Creek tributary, and
- the TRW facility.

4.4.1 Sullivan Closed Sewage Lagoons

The two closed Sullivan sewage lagoons (Figures 24 and 25 in Phase II RI, Figure 2) were investigated during the Phase II RI due to multiple site-related factors, including operational history, data from the sanitary sewer investigation and public recommendations. Wastes from

businesses, industries, and manufacturing operations, such as the TRW/Ramsey facility, were sent to the two Sullivan sewage lagoons throughout their operational histories via the sanitary sewers. The two Sullivan sewage lagoons had clay bottom liners; however, any contamination sent to them could have settled or precipitated out and accumulated on the lagoon bottom. Depending on the thickness and condition of the clay liners, over time contamination could have leached out into the soil and migrated into the shallow groundwater.

Sullivan closed the original sewage lagoon in 1958, after construction was complete on two new sewage lagoons. For the Post-Phase II RI investigation, the sewage lagoon located along Highway 185 South was designated as the southern sewage lagoon and the sewage lagoon along Highway AF was designated as the northern sewage lagoon. The northern sewage lagoon contained two cells, with the first cell constructed by 1958, and the second cell constructed shortly thereafter. The southern sewage lagoon was closed in 1988, and the northern sewage lagoon was closed in 1989. Part of the closure procedure included removing all liquids and solid materials, including the bottom liner, down to bedrock.

To determine the contamination status of the two closed Sullivan sewage lagoons, tree core and soil sampling was conducted. The combination of the two sampling methods can provide an effective way to determine the potential location and extent of past and current contamination in soil and shallow groundwater.

Tree core sampling was conducted along the perimeter of the two closed Sullivan sewage lagoons and down the spillways to the property line. Trees in the vicinity of the closed northern sewage lagoon were core sampled on June 22, 2004, and trees near the closed southern sewage lagoon were core sampled on June 23, 2004. Twenty-two tree core samples (TC-003 to TC 024) were collected at the closed northern sewage lagoon and twelve tree core samples (TC-025 to TC-036) were collected at the closed southern sewage lagoon (Figure 24 and Table 19 in Phase II RI, Figure 2). The tree cores were collected from various deciduous trees, all with a diameter greater than 3 inches. The core samples were analyzed for specific VOCs: TCE, cis-1,2-DCE and trans-1,2-dichloroethene (trans-1,2-DCE). The results for the tree core samples around the sewage lagoons were non-detect for all three of the targeted VOCs (Table 19 in Phase II RI).

The soil sampling followed the tree core sampling at both sewage lagoons. On June 24, 2004, six discrete soil boring samples (SB-01 to SB-06) were collected at the closed southern sewage lagoon using the track mount direct push Geoprobe®. Borings SB-01 to SB-03 were completed to refusal (12 to 13 feet) on the eastern side of the lagoon. Borings SB-04 and SB-05 were drilled until refusal (4 feet) in the drainage swale from the spillway (SB-05) to the swale's discharge point into the Winsel Creek tributary (SB-04). Boring SB-06 was completed until refusal (13 feet) on the western edge of the lagoon (Figure 25 and Table 21 in Phase II RI, Figure 2).

On June 25, 2004, three discrete soil borings (SB-9 to SB-11) were collected at the closed northern sewage lagoon using the track mount direct push Geoprobe®. Borings SB-09 and SB-11 were completed to refusal (11 and 15 feet) on the eastern edge of each cell just over the spillway in the Winsel Creek tributary. Boring SB-10 was completed to refusal (4 feet) in the center of the sewage lagoon (Figure 25 and Table 21 in Phase II RI, Figure 2).

The samples collected from the soil borings from both sewage lagoons were analyzed for VOCs, and total chromium and lead. The analytical results reported non-detect for all COPCs. Chromium was detected in all samples; however, the detections were all below the EPA Region 9, migration to groundwater preliminary remediation goal (PRG) of 38 micrograms per kilogram (µg/kg). (PRGs combine current EPA toxicity values with "standard" exposure factor to estimate contaminant concentrations in environmental media (soil, air, water) that are considered protective of humans over time.) Lead was also detected in all samples; however, the detections were all below the EPA Region 9 residential PRG of 400 µg/kg (Tables 19 and 21 in Phase II RI).

An analysis of the sampling activities at the closed Sullivan sewage lagoons has determined that potential contaminant sources, such as liquids and solids/sediments, have been removed to bedrock. Therefore, the two closed Sullivan sewage lagoons can be eliminated as source areas.

4.4.2 Peterson Ponds

The two Peterson property ponds (Figures 24 and 25 in Phase II RI, Figure 2) were investigated during the Phase II RI due to their proximity to the Highway AF groundwater contamination. The two ponds, the southernmost pond and the northernmost pond, are both located on the Peterson property. The southernmost pond is larger and closer to the Peterson home, while the northernmost pond is smaller and closer to the Peterson Oil Company.

The property owner stated that contamination might have been dumped in either pond in the past. Since the ponds are unlined, any contamination dumped in them could have settled or precipitated out and accumulated on the pond bottom. Over time the contamination could have leached out into the soil and migrated into the shallow groundwater.

Tree core sampling was conducted along the perimeter of the southernmost pond on June 23, 2004, and the northernmost pond on June 25, 2004. Seven tree core samples were attempted: however, only six tree core samples (TC-037 to TC-043, excluding TC-041) were collected around the southernmost pond. Six tree core samples (TC-048 to TC-053) were also collected around the northernmost pond (Figure 24 in Phase II RI, Figure 2). The tree cores were collected from various deciduous trees, all with a diameter of greater than 3 inches. The core samples were analyzed for specific VOC contaminants: TCE, cis-1,2-DCE and trans-1,2-DCE. The sample results for the tree core samples around the Peterson property southernmost and northernmost ponds were non-detect for all three targeted VOCs (Table 19 in Phase II RI).

After the completion of the tree core sampling, discrete soil boring samples were taken at the northernmost pond using the track mounted direct push Geoprobe®. Two discrete soil borings (SB-07 and SB-08) were drilled around the northernmost pond. The two borings were completed to refusal, 15 feet for SB-07 and 7.5 feet for SB-08. The SB-07 boring was drilled above the pond, while the SB-08 boring was drilled within the pond's spillway.

Two discrete soil samples were collected from boring SB-07 at the 4.5 to 5 foot depth and the 14.5 to 15 foot depth. Two discrete samples were collected from boring SB-08 at the 4.5-5 foot depth and the 7-7.5 foot depth. The samples were analyzed for VOCs and total chromium and

lead. The sample results for the four discrete soil samples were non-detect for VOCs while the total chromium and lead detections were below background (Table 19 in Phase II RI).

Due to the abundance and configuration of the trees around the southernmost pond, soil samples were not collected.

The two Peterson Property ponds can be eliminated as source areas, especially in the Highway AF areas, since sampling determined the ponds are not impacting the surrounding soil or shallow groundwater.

4.4.3 Sullivan/OGV Sanitary Sewers

The Phase II RI included sampling the OGV/Sullivan sanitary sewers (Figure 8 in Phase II RI). The intent of the sampling was to determine whether the sanitary sewers had impacted the surrounding soil and groundwater in the past. Sampling via the manholes was used to determine where residual VOCs and metal contamination was still present, the location of potential businesses or industries responsible for the discharge, and whether the contamination had leached out of the sanitary sewers at some point in time to impact the surrounding soil and groundwater

The sanitary sewers are constructed of unlined clay tiles or concrete block, with brick or block concrete junction boxes. Any contamination in the flowing liquid could settle or precipitate out to accumulate on the bottom of the sanitary sewers. Over time the accumulated contamination could leach out of or around the tiles or block into the surrounding soil and migrate into the shallow groundwater. The sanitary sewers can also act, as shallow conduits, distributing contamination throughout the OGV/Sullivan area where area sewage lagoons, acting as receptors, could ultimately receive the contamination.

The OGV/Sullivan sewer line sampling was conducted on January 17 and 18, 2005. The concrete junction boxes with manhole access were chosen as sample locations. Twenty-nine sewer manholes were sampled to determine where VOC and metal contamination was located in the OGV and Sullivan sanitary sewer lines (Figure 8 in Phase II RI). Of the eleven VOCs detected in the sanitary sewers, PCE and methylene chloride were the only COPCs detected. Both PCE and methylene chloride were detected at the manhole near the Wal-Mart property. PCE was detected in the manhole west of the TRW/Ramsey facility, and methylene chloride was detected in the manhole east of the TRW/Ramsey facility. Historically PCE contamination has been detected in soil and/or groundwater at both of these locations.

All four metals (arsenic, cadmium, chromium, and lead) were detected in twenty-four of the twenty-nine samples collected from the sanitary sewers. However, chromium and lead were the only metals detected. Arsenic and lead were both detected in the manholes near the Wal-Mart property and east of the TRW/Ramsey facility (Figure 8 and Table 9 in Phase II RI). Chromium contamination was not detected in the manholes on either side of the TRW/Ramsey facility.

The remaining non-site related VOC contaminants detected in the sewer manholes are commonly used in adhesives, paints, varnishes, refrigerants, propellants, and solvents, and originate from

many businesses or industries, including auto repair and shoe manufacturing. The four remaining metals are commonly used in the production of alloys, batteries, insecticides, weed killers, and glass pigments.

Over time, accumulated contamination could have leached out of the OGV and Sullivan sanitary sewer lines into the surrounding soil and could have migrated into the shallow groundwater. If the shallow groundwater rises above the water level in the lines, the contamination from the shallow soils could leach back into the sewers. Current sampling indicates that localized sources of soil contamination have leached back into the sanitary sewers over time. Therefore, the sanitary sewers are receptors or collection systems, and possibly sources or distribution systems of contamination. However, these levels are at very small concentrations and are not impacting the groundwater or creating health risks.

4.4.4 Abandoned Drum Burial Site

The abandoned drum burial site was discovered on February 22, 2005, by a surveying team who reported the discovery to the DNR. The drum burial site is located in OGV, north of the new Highway 185 South overpass, west of the St. Louis-San Francisco railroad tracks, and southeast of the closed OGV sewage lagoon (Figures 24 and 25 in Phase II RI, Figure 13).

The initial investigation of the abandoned drum burial site determined it was a very old, abandoned site that lacked signs and fencing. Surface drums were rusty and in poor condition, with a few worn and faded labels, and biota overgrowth. The site was reported to the Missouri Spill Line due to its abandoned and uncontrolled condition. The current property owner was contacted. He denied ownership of the drums stating the drums were on-site when the property was purchased. The owner granted permission to characterize the site.

On March 30, 2005, soil borings were completed to define the horizontal and vertical extent of the drums and on-site soil contamination, and possible off-site soil contamination (Figure 25 in Phase II RI) Six discrete soil borings (DB-01 to DB-06) were drilled using a track mounted direct push method (Geoprobe®). Borings DB-01 to DB-03 were completed in a triangulation fashion along the perimeter of the site. Boring DB-04 was completed in a gully wash that migrated from the site towards the closed OGV sewage lagoon. Borings DB-05 and DB-06 were drilled within the site boundaries.

The six borings were drilled to refusal from 8 to 10 foot depths. DB-05 and DB-06 were drilled through the drums until refusal was encountered within the native soils. One sample per boring, plus a QA/QC sample, were collected and sent to the DNR laboratory for analysis. The samples were analyzed for VOCs, total chromium, and total lead. The sample results for the six soil samples were non-detect for VOC contaminants and total chromium and lead (Table 19 in Phase II RI).

On September 27, 2005, tree core samples were collected at the abandoned drum burial site. The tree core sampling was conducted south of the abandoned drum burial site, between it and the railroad tracks. Two tree core samples (4-1 and 5-1) were collected (Figure 13). The tree cores were collected from deciduous trees, with diameters greater than 3 inches. The core samples

were analyzed for specific VOC contaminants: PCE, TCE, cis-1,2-DCE, Benzene, and Toluene. The sample results for the tree core samples south of the abandoned drum burial site were non-detect for all five VOCs (Table 4-4).

The abandoned drum disposal area can be eliminated as a source area. Sampling of the site determined potential contaminant sources, such as liquids and solids/soil, are not impacting soil or the shallow groundwater.

4.4.5 Oak Grove Village Closed Sewage Lagoon

The closed OGV sewage lagoon (Figures 24 and 25 in Phase II RI, Figure 13) was investigated during the Phase II RI due to multiple site-related factors, including operational history and public recommendations. Wastes from businesses and industries were sent to the OGV sewage lagoon throughout its operational history via the sanitary sewers. The OGV sewage lagoon had a clay bottom liner; however, any contamination sent to it could have settled or precipitated out and accumulated on the lagoon bottom. Depending on the thickness and condition of the clay liners, over time contamination could have leached out into the soil and migrated into the shallow groundwater.

OGV constructed and began operating its sewage lagoon in 1958. The sewage lagoon is located north of the new Highway 185 South overpass and west of the St. Louis-San Francisco railroad tracks (Figures 24 and 25 in Phase II RI). Once the sewage lagoon reached operational capacity, OGV negotiated with Sullivan to send its sewage to Sullivan's sewage lagoon. An agreement between OGV and Sullivan was reached in August 1985, and OGV closed its sewage lagoon in September 1985. Closure consisted of breaching the dam to allow the accumulated fluids to discharge, which is not considered a proper closure. The accumulated solids/sediments remained undisturbed within the lagoon's basin.

During the closed OGV sewage lagoon's operational past, wastewater entering the lagoon could have been contaminated by multiple sources. The sources could have received and used contaminated water, or received clean water and, through a facility's operation, contaminated the water before discharging to the sewers. Under either scenario, the sewage lagoon would have received VOC or metal contaminated water.

On August 25, 2004, soil and tree core samples were collected at the closed OGV sewage lagoon. Due to the wet conditions at the closed OGV sewage lagoon, seven discrete soil boring samples were collected from two soil borings (SB-13 and SB-14) using the direct push track mounted Geoprobe®. SB-13 was drilled within the closed sewage lagoon, while SB-14 was drilled at the spillway. The two borings were completed to refusal, 16 feet for SB-13 and 15 feet for SB-14. (Figure 24 and Table 19 in Phase II RI).

Three discrete soil samples were collected from SB-13. They were collected from the 0-1 foot depth, the 7-8 foot depth, and the 15-16 foot depth. Four discrete samples were collected from SB-14. They were collected from the 0-1 foot depth, the 4.5-5 foot depth, the 11.5-12 foot depth, and the 14.5-15 foot depth. The samples were analyzed for VOC contamination, and total chromium and lead. The sample results for the seven soil samples were all non-detect for VOCs and total chromium and lead (Table 19 in Phase II RI).

The tree core sampling was conducted along the perimeter and within the spillway of the closed OGV sewage lagoon. Four tree core samples (TC-054 to TC-057) were collected (Figure 24 in Phase II RI). The tree cores were collected from various deciduous trees, all with a diameter of greater than 3 inches. The core samples were analyzed for specific VOC contaminants: TCE, cis-1,2-DCE, and trans-1,2-DCE. The sample results for the tree core samples around the closed OGV sewage lagoon were non-detect for all three targeted VOCs (Table 19 in Phase II RI).

Additional tree core sampling was conducted on September 27, 2005, within and south and southwest between the closed OGV sewage lagoon, the abandoned drum burial site, and the railroad tracks. Four tree core samples (#6-1 to #9-1) were collected (Figure 13). The tree cores were collected from deciduous trees, all with a diameter of greater than 3 inches. The core samples were analyzed for specific VOC contaminants: PCE, TCE, cis-1,2-DCE, Benzene, and Toluene. The sample results for the tree core samples associated with the closed OGV sewage lagoon were non-detect for all five targeted VOCs (Table 4-4).

The completed sampling at the closed OGV sewage lagoon confirmed that the remaining solids/sediments are presently not impacting soils or the shallow groundwater. The closed OGV sewage lagoon can be eliminated as a source area.

4.4.6 Blanton-Sohn-Wal-Mart Properties

Before 1993, nine adjacent tracts of land were located on the southwest corner of the intersection of Interstate 44 and Highway 185 in OGV and Sullivan (Figure 6 in Phase II RI). Of the nine tracts of land, four were vacant lots, four were residential properties, and one was a commercial business. One of the four vacant lots contained standing water, which acted as a sewage lagoon/collection pond. This property was owned by and was downgradient of the Blanton Oil Company/Goodyear Tire Center. The Blanton Oil Company/Goodyear Tire Center is adjacent to the other tracts, but was considered a separate entity (not part of the nine tracts). One of the residential properties also had a home-based machine shop (not the Highway 185 Garage) out back. The Highway 185 Garage (Sohn property) occupies the commercial business tract. (Figures 6 and 25 in Phase II RI, Figure 2).

The Blanton-Sohn-Wal-Mart properties were investigated twice before the Phase II RI. The first investigation included the 1992 Phase II Environmental Site Assessment by Wal-Mart in anticipation of a property purchase, and the second investigation was the 1994 Expanded Site Investigation by the EPA. The investigations of the properties revealed the presence of VOC contamination, including TCE and PCE.

The nine tracts of land plus the Blanton property were investigated in the 1992 Phase II Environmental Site Assessment. VOCs, including TCE and PCE, were detected on the Highway 185 Garage and Blanton properties. TCE and PCE were detected at 35 µg/kg and 74 µg/kg, respectively, in the stained soil of the Highway 185 Garage's drum storage area. In the lagoon/pond on the Blanton property, TCE was detected at 6 µg/kg. In 1993, Wal-Mart purchased eight of the nine properties, covering them with its building and parking lot. The Highway 185 Garage (Sohn property) was not purchased.

During the 1994 EPA Expanded Site Investigation, the Highway 185 Garage and a previously uninvestigated area on the Blanton property were sampled. Soil samples were collected in the drum storage area on the Highway 185 Garage (Sohn property) and in the drum storage area and the drainage ditch in the previously uninvestigated area on the Blanton property. Sample results revealed TCE and PCE in the soil of the Highway 185 Garage's drum storage area at 28 µg/kg and 80 µg/kg, respectively. In the previously uninvestigated area on the Blanton property, no VOC contamination was detected in either the drum storage area or the drainage ditch.

In June 2004, limited tree core sampling (TC-001 and TC-002) was conducted (Figure 24 in Phase II RI, Figure 2). One tree core sample (TC-001) was collected from the easement off the Highway 185 Garage property and another sample (TC-002) was collected on the Highway 185 Garage property. The two tree cores were collected from deciduous trees, with a diameter of greater than 3 inches. The core samples were analyzed for three specific VOC contaminants: TCE, cis-1,2-DCE, and trans-1,2-DCE. The sample results for the tree core samples associated with the Highway 185 Garage property were non-detect for all three VOCs (Table 19 in Phase II RI).

In January 2005, during the OGV/Sullivan sewer line investigation, a water sample was collected from the manhole, which was the junction point of the sewer lines for the Blanton-Sohn-Wal-Mart properties. The sample was analyzed for VOCs and metal contaminants. Sample results revealed the detection of six VOCs, including PCE contamination at 1.4 µg/l. The metal contaminants that were detected included arsenic, cadmium, chromium, and lead.

To determine whether the Blanton-Sohn-Wal-Mart properties were a potential source area, an investigation of the properties was included in the Post-Phase II RI investigation. Sampling began in March 2006, on the Blanton property and ended in November 2006, on the Wal-Mart property.

The investigation on the Blanton property was conducted on March 23, 2006. Six probe locations were drilled west and north of the Blanton Oil Company/Goodyear Tire Center building. The probe locations included one probe north of the concrete pad (BH-1), one probe 25 feet north of the first probe (BH-2), one probe on the southwest side of the back of the property near the tank pit (BH-3), one probe near the back of the building (BH-4), and one probe near the loading dock (BH-5) (Figure 14).

Eleven discrete soil samples were collected from the five probe locations, with at least one discrete soil sample collected from each probe location. The split soil samples were analyzed for VOCs, including TCE and PCE, using the field GC and the DNR laboratory. Although VOCs were detected, no TCE or other COPCs were detected by the field GC or the laboratory (Tables 4-12 and 4-13 and Appendix D). The nine VOC contaminants detected in the laboratory samples were at low concentrations (Table 4-13) and are found in petroleum and cleaning products, which are common at service repair and gas stations.

An investigation of the Highway 185 Garage (Sohn property) was completed on April 13, 2006. Six probe locations were spaced around the Highway 185 Garage building. The probe locations included two probes north of the building in the soil stained area (185G-BH3 and 185G-BH5),

one probe east of the building (185G-BH1), one probe southeast and just off the Sohn property (185G-BH2), one probe south of the building (185G-BH4), and one probe west of the building (185G-BH6) (Figure 15).

Thirteen discrete soil samples were collected from the six probe locations, with at least two discrete soil samples collected from each probe location at different depths. The split soil samples were analyzed for VOCs, including TCE and PCE, using the field GC and the DNR laboratory. Although VOCs were detected, no TCE or other COPCs were detected in the field GC and laboratory samples (Tables 4-14 and 4-15 and Appendix D). The seven VOC contaminants detected in the laboratory samples were at low concentrations (Table 4-15) and are found in petroleum and cleaning products, which are common at service repair and gas stations.

The installation of the Highway 185 Garage well (MW-4) on the Sohn property began on June 2, 2006 on the Highway 185 right-of-way adjacent to and northeast of the Highway 185 Garage building. MW-4 was installed to determine if the Sohn-Wal-Mart property was a possible source of TCE contamination in the groundwater. Initial groundwater sample results revealed no VOC contamination in MW-4. The installation was completed on June 21, 2006. Additional groundwater sample results confirmed that no VOCs were impacting MW-4.

The investigation of the Wal-Mart property was conducted on November 7 and 8, 2006. Sixteen probe locations were spaced in the northern portion of the Wal-Mart parking lot. The sixteen locations were chosen due to previous detections of TCE and PCE in those areas. The areas of interest consisted of the sewage lagoon/settling pond on the Blanton vacant lot and a residence with a machine shop and sewage lagoon (Figure 2).

A discrete sample was collected from each of the sixteen soil borings (WAL-1 to WAL-16) using the direct push track mounted Geoprobe®. A duplicate QA/QC sample was collected from WAL-2. The soil samples were sent to the DNR laboratory and analyzed for VOCs, including TCE and PCE, as well as total chromium and total lead. PCE, methylene chloride, total chromium and total lead were the only other COPCs detected, all at low concentrations. The other eight VOC contaminants that were detected were also at low concentrations and are typically found in petroleum and cleaning products, which are common at service repair and gas stations (Table 4-16 and Appendix D)

TCE and PCE were detected on the Sohn property drum storage area during past investigations. During the Phase II RI, TCE contamination was only detected on the previously owned Blanton property near the sewage lagoon/settling pond. Since contamination directly impacted surface soil and water, the potential existed at these locations for the contamination to leach into the soil, migrating to the shallow groundwater. However, groundwater sample results from MW-4 indicated that the impacted surface soils had not impacted the shallow groundwater on the Blanton-Sohn-Wal-Mart properties.

The only current detections of COPCs in soil and/or groundwater from the Blanton-Sohn-Wal-Mart properties was the Wal-Mart parking lot and the sewer line manhole. PCE and total chromium were detected in the soil under the Wal-Mart parking lot. And PCE and arsenic were detected in the sewer line manhole adjacent to the Blanton-Sohn-Wal-Mart properties. However, the surface water in the next manhole down the sewer line did not have PCE contamination in the sample.

Due to the low concentrations of PCE and total chromium detected in the soil under the Wal-Mart parking lot, and the non-existence of COPCs in other property soil and shallow groundwater, the Blanton-Sohn-Wal-Mart properties are not a source of the TCE or PCE contamination that has impacted the OGV wells.

4.4.7. Ditch Witch Facility

The Ditch Witch Sales, Inc. facility in OGV has been in operation for almost forty years, specializing in sales and servicing of trenching equipment. Equipment servicing, which is done on-site, includes cleaning parts.

At the time of the Post-Phase II RI investigation, the Ditch Witch property was up for sale. Since soil sampling had never occurred on the property, the existence of on-site contamination was unknown. A prospective purchaser completed a Phase I and Phase II Environmental Investigation, which included on-site sampling. Sample results were non-detect for the parameters sampled (verbal report so parameters unknown). Based on the length of time the Ditch Witch facility has been on the property and the possible use of COPCs, the facility was included in the Post-Phase II RI investigation.

To determine whether the Ditch Witch facility was a potential source area, soil sampling was conducted on August 14 - 15, 2006. Seventeen soil borings (SB-1 to SB-17) were drilled across the Ditch Witch property (Figure 2), using the direct push track mounted Geoprobe®. A duplicate QA/QC sample was collected from SB-3.

Three soil borings were drilled in the closed sewage lagoon (SB-1 and SB-2) and closed pond (SB-17) in the southwest portion of the property. SB-16 was drilled along the property drainway midway between the closed sewage lagoon and the new paint shop. The remaining soil borings were located near the new paint shop (SB-3 to SB-6), the main building (SB-14 and SB-15), the old paint shop (SB-10 and SB-11), and the machine shop (SB-7 to SB-9, SB-12 and SB-13) (Figure 2).

One soil sample was collected from each soil boring and sent to the DNR laboratory for analysis (Table 4-17 and Appendix D). The samples were all analyzed for VOCs, TPH and metals, except for SB-03, SB-04, SB-06, SB-12, and SB-16. These borings were excluded due to location.

No VOCs were detected for any of the soil samples, except the soil sample from boring SB-09 at 2 to 3 feet bgs. This sample had detections of both TCE and PCE. TCE was 0.118 µg/kg, which was above background concentrations and the "PRG – migration to groundwater" benchmark of 0.06 µg/kg. The "migration to groundwater" benchmark indicates that the contaminated media could be impacting groundwater. The PCE was 0.199 µg/kg, which was also above background concentrations and the "PRG - migration to groundwater" benchmark of 0.06 µg/kg. Total chromium and lead were detected in the soil samples from SB-07 (7 to 8 feet bgs), SB-08 (5 to 6 feet bgs), SB-09 (2 to 3 feet bgs), SB-10 (6 to 7 feet bgs), SB-11 (7 to 8 feet bgs), and SB-14 (7 to 8 feet bgs) above background concentrations, but below all benchmarks (Table 4-17 and Appendix D).

All the samples with low concentrations of total chromium and lead were around the old paint shop, except SB-14, which was at the entrance to the main building across from the old paint shop. No. 2 diesel was detected in the soil sample from SB-05 (3 to 4 feet bgs) and TPH-ORO, which is a fuel or waste oil, was detected in the soil sample SB-09 (2 to 3 feet bgs). Currently, no benchmarks exist for No. 2 diesel or TPH-ORO (Table 4-17 and Appendix D).

To define the extent of the TCE and PCE contamination, the area around SB-09 was drilled and sampled on September 26, 2006. Soil borings SB-18 through SB-21 encircled SB-09. SB-18 was drilled east of SB-9 between SB-09 and SB-10. SB-19 was drilled west of SB-09. SB-20 was drilled south of SB-09. And SB-21 was drilled north of SB-09.

SB-18 had a PID hit at 4.0 feet below ground surface (bgs) and SB-21 had a PID hit at 5.0 feet bgs (Figure 2). In addition to the PID results, one sample was collected from each soil boring between the 4.0 to 5.0 foot bgs interval and sent to the DNR laboratory for analysis. No COPCs were detected in the four samples, except the soil sample from SB-19. The TCE and PCE contamination detected in SB-19 was above the background concentrations and the PRG that indicates the contaminated media could be impacting groundwater. Since SB-19 is located between SB-9 and SB-14 (non-detect for VOCs), an additional boring for further characterization was not necessary. Total chromium was detected in all four soil samples. The total chromium detected in the four soil samples was above background concentrations, but below all benchmarks (Table 4-18 and Appendix D).

Based on the soil sampling completed on the Ditch Witch property, TCE and PCE contamination was detected in one localized area outside the rear door of the machine shop. As delineated by the soil sampling, the low concentrations of TCE and PCE contamination extend about 20 feet southwest of the machine shop's rear door, ranging from three to five feet bgs in depth. Except for this localized area, no other areas on the Ditch Witch facility were found to contain COPCs.

To determine whether the contaminated soil had impacted the soil at depth and ultimately impacted the shallow groundwater, a shallow monitoring well (MW-5) was installed between the impacted soil and the OGV wells. Groundwater sample results indicated that the impacted soils had not impacted the shallow groundwater at MW-5. Since the Ditch Witch facility has not impacted groundwater, the Ditch Witch facility can be eliminated as a source area impacting the OGV wells.

4.4.8 Winsel Creek Tributary Near the TRW Facility

As part of the OGV investigations, an investigation of the Winsel Creek tributary near the TRW/Ramsey facility was conducted during the Post-Phase II RI investigation. Limited soil samples along the Winsel Creek tributary and a surface water sample from the TRW/Ramsey outfall were collected to determine whether the TRW/Ramsey facility had or was impacting the Winsel Creek tributary. Since the tributary and the soil along the Winsel Creek tributary is unlined, the potential exists for past and current contaminants to impact deeper soils and the shallow groundwater.

On September 26, 2006, limited soil and surface water sampling was conducted along Winsel Creek (Figure 2). Since standing water was present within the creek tributary, it was decided to

Geoprobe along the western bank of the creek tributary. Three discrete samples were collected from three soil borings using the direct push track mounted Geoprobe® (Figure 2). Two borings were drilled along the Winsel Creek tributary just west of the TRW/Ramsey facility (WC-1 and WC-2). The third boring was drilled about ¼ mile northwest of the TRW/Ramsey facility, still along the Winsel Creek tributary (WC-3). The borings were drilled until refusal: 20 feet bgs for WC-1, 16 feet bgs at WC-2, and 18.5 feet bgs at WC-3.

One soil sample was collected at each boring location. Soil samples were collected between 8 - 10 feet bgs for WC-1 and WC-2, and 17-18.5 feet bgs for WC-3. The samples were analyzed for VOCs, as well as total chromium and lead. Sample results detected no VOCs in the three soil samples; however, chromium and lead were detected above background in very low concentrations (Table 4-19 and Appendix D). The chromium concentration was also above the EPA's PRG that indicates the contaminated media could be impacting groundwater; however, chromium and lead were below all other benchmarks (Table 4-19 and Appendix D).

A surface water sample was collected at the property's outfall into the Winsel Creek tributary (Figure 2). The water sample was analyzed for VOCs and total chromium and lead. Sample results revealed five VOCs in the sample; however, the same VOCs were detected in the Trip Blank (Table 4-20 and Appendix D). Since the same contaminants were detected in the Trip Blank, it is likely that the VOCs detected in the surface water sample were false positives. A very low concentration of chromium was also detected. The chromium concentration was below all benchmarks (Table 4-20 and Appendix D).

No VOCs were detected in the soil samples along the Winsel Creek tributary or in the surface sample. However, total chromium and lead above background concentrations were detected in the soil samples at depth. Total chromium was also detected in the TRW/Ramsey facility's outfall surface water sample. The current depth of the metal contamination in the limited soil samples would indicate that in the past metals, and possibly VOCs, migrated from the facility. The low chromium concentration in the facility outfall's surface water sample could indicate continued contaminant off-site migration.

4.4.9 TRW/Ramsey Facility

From 1950 until 1983, TRW/Ramsey facility operated an automobile piston ring manufacturing plant in Sullivan. The plant used various organic solvents in association with its chrome plating operation. Wastewater from the facility was treated on-site in unlined surface impoundments. Beginning in 1983, TRW excavated over 8,000 tons of contaminated sludge and soil, and dismantled the chrome plating building. A TCE groundwater plume was identified within the Ozark Aquifer beneath the TRW/Ramsey facility.

In 1993, the EPA, TRW and the current property owner entered into an Administrative Order on Consent pursuant to the Resource Conservation and Recovery Act. Under the 1993 Order, TRW constructed an extraction system and a monitoring well network. The extraction system consists of an on-site pump and treat aeration (air stripper) system on COS02. The pump and treat system principally acts as containment to prevent further contaminant transport from the source areas.

Based on work completed by TRW, TRW and the Permits Section believes that only diffuse concentrations of contamination exist beyond the capture of COS02 and it is not readily remediated through the pump and treat system. The Permits Section remains concerned that there may exist contaminant transport features, such as karstic and bedding planes, that have conveyed contaminants beyond their known range in the past. However, TRW's available evidence shows that if the contamination beyond the zone of capture is more than a diffuse edge of the plume, it represents a 'snapped-off' plume now separate from the plume emanating from the TRW/Ramsey facility. Of course, in karstic systems there is never enough evidence for strong certainty and future evidence could change this conclusion. A further complication to establishing capture ensues from the variable pumping rates and frequencies for the various COS municipal wells.

A Ground Water Monitoring Plan, established as part of the RCRA Order, requires routine sampling of the monitoring well network within a two-mile radius of the TRW/Ramsey facility. The monitoring well network consists of 41 monitoring wells, the COS wells, and four private wells. (Figure A, Figures 2 and 7 in Phase II RI). In June 2002 and June 2003, when TRW sampled the four private (residential) wells and the COS wells, the DNR took split samples. When the COS wells were sampled, Sullivan also split samples (Table 7 in Phase II RI). A good correlation existed between the split sample results for the private (residential) wells and most of the COS wells.

A rail line runs alongside the TRW/Ramsey facility, extending north towards OGV and south through Sullivan. TRW has drilled monitoring wells near the rail line, both north and south of the TRW/Ramsey facility. A review of TRW's sample results indicates the presence of TCE in intermediate and deep wells near the rail line. The highest concentrations of TCE in these wells are listed in the following paragraph.

The furthest north well is OBG-12D (intermediate) with TCE at 3.5 µg/l (11/02). The furthest south well is OBG-14D (intermediate) with TCE at 1.0 µg/l (12/95). OBG-18D (intermediate), which is located about three blocks north of the rail line, has TCE contamination in groundwater at 2.1 µg/l (06/06). OBG-20 DD (deep), also has TCE concentrations in groundwater at 2.0J µg/l (06/06).

Based on the 2006 sample results, the furthest north intermediate and deep monitoring wells, towards OGV, have TCE contamination in groundwater, both along and north of the rail line. Even though the concentrations are low (below the MCL), the concentrations continue to rise in these "edge of the network" wells. Based on current TCE detections in groundwater, TRW may not have hydraulic control of the plume beneath the facility at this time based on available information. Thus the TRW/Ramsey facility can not be eliminated as a past or current potential source area for the contamination in OU1.

4.5 Water Level Measurements

Water level measurements of the deep municipal and monitoring wells were collected to assist in determining the direction of groundwater flow in the deeper portion of the aquifer and the possibility of an interconnection between the municipal wells.

The water level measurements for the Post-Phase II investigation were collected digitally over a thirty-seven day period from February 13 – March 21, 2007. The wells included in the investigation were OGV01, OGV02, COS03, COS09, and MW-3. Submersible pressure transducers were inserted into MW-3 and the OGV wells on February 13, 2007, and removed on March 21, 2007. During the same timeframe, motor timers were installed on OGV02, COS03, COS09, and COS10.

The water level measurements were plotted and graphed, so the information and data obtained could be depicted in graphical presentations (Figures 3 and 16). Figure 16 is a portion of Figure 3 and represents a shorter operational timeframe. OGV02 cycled on and off daily, COS03 operated daily (as needed) for varied periods of time each day, and COS09 operated continuously throughout the investigation. This information is needed to read and understand the graphs and to detect the response relationships depicted on the graphs between the different wells. The graphs visually demonstrate the pumping interconnection and influence among OGV01, OGV02, COS09, COS10, and MW-3. The graphs also demonstrate the lack of communication between the previously mentioned wells and COS03.

Pumping of OGV02

When OGV02 was not pumping, the water levels in OGV01 and MW-3 were nearly flat (not oscillating). The water level in OGV01 was higher than the water level in MW-3. When OGV02 was pumping, the water levels in OGV01 and MW-3 responded rapidly and significantly (oscillations). The water level in OGV01 decreased in less than 5 minutes after OGV02 began pumping, and its drawdown averaged about 15 feet. The water level in MW-3 decreased in about 25 minutes after OGV02 began pumping, and its drawdown averaged about 4 feet.

Since OGV01 experiences a greater drawdown than MW-3, recovery for OGV01 is quicker and more pronounced. Thus, the pumping operation of OGV02 impacts OGV01 more than MW-3. The response difference between OGV01 verses MW-3 can be attributed to their distance from OGV02, the total depth of each well, and/or the inside diameter of each well.

Pumping of COS09 and COS10

The pumping of COS09 directly impacts the water levels of OGV01 and MW-3. Within a short period of time (about 6 hours) after COS09 began pumping, the water levels in OGV01 and MW-3 dropped appreciably. The water level in MW-3 dropped about 12 feet, whereas the water level in OGV01 dropped about 7 feet.

When COS09 began operation, it created a drawdown equally on OGV01 and MW-3. While COS09 was not operational, the OGV01 and MW-3 water levels almost returned to their pre-operational levels. When COS09 began operating again, the OGV01 and MW-3 water levels dropped to just short of the same, lower operational depth.

After COS10 was completed, Sullivan personnel noted that the water level in COS09 would drop while COS10 operated and a nearby spring began drying up. The decrease in the water level of COS09 and the drying up of the spring indicates a hydrogeologic connection exists between

COS10, COS09, and the spring. Therefore, it is reasonable to expect that pumping COS10 should impact the water levels in MW-3 and OGV01 in a similar fashion as COS09 since each of these wells appears to be in communication with COS09.

Pumping of COS03

The pumping of COS03 had little or no direct impact on the water levels in OGV01 and MW-3. Neither the depth of drawdown, nor the recovery, in OGV01 and MW-3 were impacted by COS03 during the water level investigation.

COS03 is 400 feet further in total distance from OGV01 and MW-3 than COS09. The difference in the drawdown on OGV01 and MW-3 by COS03 and COS09 could be attributed to the additional distance between the wells. However, it is more likely that COS03 is in a relatively dense block and/or lacks any karstic features, which facilitate communication between the other nearby municipal and monitoring wells.

Conclusions

The data obtained from the water level investigation indicates a hydrogeologic connection among OGV01, OGV02, MW-3, COS09, and COS10. Even though COS03 is about 400 feet further from OGV01 than COS09, COS03 should have had some influence on the water levels in OGV01 and MW-3. This lack of impact on the water levels indicates a lack of an interconnection between COS03 and the other wells in the water level study.

4.6 Calculations

As part of the Post-Phase II RI, calculations were done to estimate the amount of TCE needed to contaminate the groundwater in the OGV wells. The following assumptions were used for the TCE calculations:

1. OGV indicated that it currently pumps about 50,000 gal/day, so we assumed 40,000 gal/day for historical purposes.

2. An average extraction of 50 ug/l of TCE.

3. The extraction of TCE at 50 ug/l for 25 years (OGV wells have had known contamination in the wells since 1986).

4. The density of TCE is about 1.46 kg/l.

Calculations:
(40,000 gal/day)(365 d/yr)(3.785 liters/gal) = 55,261,000 liters per year

50 ug/l = (0.05 mg/l of TCE)(55,261,000 liter/yr of groundwater = (2,759,400 mg/yr)(1g/1,000mg)(1kg/1000g) = ~2.8 kg/year

(2.8 kg/yr)(1-liter/1.46 kg) = 1.9 liters per year

(1.9 liters per year)(25 years) = ~47 liters

(47 liters)(1-gal/3.78 liters) = 12.5 gals of pure TCE product

Based on these results, 12.5 gallons of pure TCE product would have been needed to contaminate the extracted groundwater in the operating OGV wells at 50 µg/l for 25 years. Taking into account the OGV wells have extracted up to 100 µg/l in recent operating history, the calculated value would be a minimum for just the OGV wells.

Considering that COS02, COS08, COS09, COS10, and COS11 are also contaminated with TCE in groundwater, the volume of released TCE actually in groundwater could equate to at least one 55-gallon drum of pure TCE product. If the volume of released TCE represents a small fraction of a facility's use, then the facility's operation would need to be large enough and operate long enough to absorb the loss without suffering an operational impact, such as the TRW/Ramsey facility or a similar unknown facility.

5.0 Summation and Conclusions

Background

The purpose and scope of this RI for OU1 was to determine the nature and extent of the contamination in groundwater impacting the OGV wells, to identify the sources of the contamination in groundwater and other environmental media, to identify potential responsible parties and to characterize the ecological and human-health risks posed by the contamination. Previous investigations indicated that numerous municipal and private drinking water wells within the OGV/Sullivan area have been impacted by TCE. Potential sources of groundwater contaminants were identified during these investigations; however, additional characterization was needed to determine the nature and extent of contaminant plumes, to identify additional potential source areas, and to evaluate and eliminate all potential source areas not contributing to the groundwater contamination.

The data collected during Phase I and Phase II of the RI narrowed the data gaps and better defined the location and extent of the contaminant plumes. However, additional site work was needed to fill in the remaining data gaps and to adequately define the OGV site. The Post-Phase II RI investigation, which was a continuation of the Phase II RI investigation, included source area investigations and the additional characterization, installation, and/or completion of private, municipal, and monitoring wells.

Phase II RI and Post-Phase II RI Investigations

Wells in OGV, the city of Sullivan, and the unincorporated area were investigated during the RI and Post-RI.

OGV Wells

To better define the vertical extent and possible location of the contaminant plumes in OGV01, borehole investigations and sampling was conducted. The borehole investigations included video recording of the borehole, followed by geophysical investigations, and packer testing with sampling at discrete intervals. This information was used to characterize geohydrology and water quality in the bedrock aquifer in the vicinity of OGV01.

The initial pumping, non-discrete investigation was a limited sampling event conducted in November 2000 at a pumping rate of 50 gpm, creating a small cone-of-capture. The maximum TCE concentrations detected in OGV01 was 4.7 µg/l, which indicated the cone-of-capture had captured only a small portion of the contaminant plume impacting the well.

Discrete water sampling using a Bar-Cad™ multi-level low-flow monitoring system was conducted between the fall of 2001 and the summer of 2002 in OGV01. Initial sample results, at the 378 feet bgs and 536 feet bgs depths, were non-detect for VOCs. The follow-up sample results at the 392 feet bgs, 500 feet bgs, 608 feet bgs, and 715 feet bgs depths were non-detect for VOCs, except for a detection of TCE at 0.5 µg/l at 717 feet bgs and methane at all four depths, ranging from 4.48 to 6.08 µg/l.

In 2003 and 2004, an additional investigation was conducted to determine the vertical locations (intervals) where contamination was entering and leaving OGV01. Downhole geophysical logging and water samples were collected during borehole packer testing. The geophysical tests indicated the open borehole of OGV01 is only about 735 feet deep, and water flows downward in the borehole entering at the 420 feet, 485 feet, and 580 feet depths and leaving between 545 and 550 foot depth. The borehole appears to be stagnant below 700 feet.

The December 2003, non-pumping (ambient) water sample results indicated that TCE concentrations increased with depth from < 0.1 µg/l to 4.21 µg/l at 400 feet deep and to 4.51 µg/l at 550 feet, thus TCE is entering the borehole between 400 and 550 feet. The results of the March 2004 water samples collected during the pumping borehole geophysical logging and the packer tests on OGV01 indicated the highest TCE concentrations (99.6 µg/l) enter OGV01 in the 540 to 560 foot interval. The same interval has the largest permeability as it contributes about 40 % of the yield under pumping conditions. The packer tests indicate that the optimal pumping rate is 14.2 gpm.

A lack of contamination in the sample results and the correlation between the pumping rate and the TCE concentrations in OGV01 indicates that the most contaminated region of the aquifer is not directly intersected by OGV01. The pumping conditions create a cone-of-capture, which influences the localized groundwater gradients, causing groundwater to be drawn into the well primarily from the most permeable zones; however, groundwater could inflow from any direction into the open borehole.

Since the installation of OGV02, sample results revealed TCE concentrations ranging from 5.85 to 119 µg/l for TCE, with low concentrations of other COPCs before the treatment system. The sample results after the treatment system revealed that the air stripper has functioned as designed, removing (stripping) the TCE (non-detect) and other COPCs (non-detect or low

values) from the water before distribution. The sample results indicate the pumping rate (125 verses 150gpm) and duration of operation impacts to concentrations detected when OGV02 is sampled.

Although OGV02 is in close proximity to OGV01, the differences in contaminant concentrations in the two wells may be attributed to the interval at which contamination is entering OGV02, the interval size (thickness), the pumping rate needed to impact the volume of contamination entering the OGV02 borehole, and its proximity to the contaminant plumes.

COS Wells

Sullivan has had eleven municipal wells over its operational history. The four COS wells closed or inactive (not used) due to contamination or other issues are COS01, COS04, COS06 and COS08. The remaining seven COS wells in use are COS02, COS03, COS05, COS07, COS09, COS10, and COS11. Monitoring and groundwater sampling of the Sullivan municipal wells has been part of various investigations since the discovery of TCE in the OGV/Sullivan area in 1986.

COS01 was not sampled during the original RI or Post-RI groundwater investigations. Sample results from COS04, COS05 and COS06 were non-detect or below 1.0 µg/l. Samples results from COS03, COS07, and COS10 were non-detect or below 1.0 µg/l, except for two TCE detections in COS03 and COS10, and four TCE detections in COS07. All the TCE detections in the three wells were below the MCL. Sample results from COS11 have fluctuated from non-detect or below 1.0 µg/l (March 1999) to 4.6 µg/l (June 2002).

Sample results were non-detect or below 1.0 µg/l for COS02 until May 1988, COS08 until June 1995, and COS09 until April 1997. Since May 1988, the TCE concentrations in COS02 have fluctuated between 1.0 µg/l to 52.9 µg/l (June 2006). Since June 1995, the TCE concentrations in COS08 have fluctuated between 1.0 µg/l to 11.5 µg/l (November 1999). Since April 1997, the TCE concentrations in COS09 have fluctuated between 1.0 µg/l to 4.2 µg/l (September 2003).

Furthermore, the gradual increase of TCE in COS09 and COS10 indicates that contaminated groundwater is moving towards these two wells, and that the pumping of OGV02 does not fully capture the TCE plumes. Thus, over time, the contaminant plumes that have contaminated and continue to contaminate the OGV wells, will continue to migrate towards COS09 and COS10, causing an increase in TCE contamination in both wells.

Highway AF Wells

The Highway AF wells are located along State Highway AF and are located northwest of OGV. In the Highway AF area, investigations were done on two ponds, a private well, and along Highway AF and East-West Road to define the contaminant plume and locate the potential source. The investigation of the two Peterson property ponds included tree core and soil sampling. The investigation of the private well (AF-P) along Highway AF included characterization and sampling. The investigation along Highway AF and East-West Road included tree core sampling.

The Peterson property is located along Highway AF and contains two residential property ponds. The possibility existed that the Peterson property ponds could have been a source for the Highway AF contamination via dumping into the ponds over a period of time. The contamination could then leach into the soil and ultimately into the shallow groundwater, creating the contamination currently seen in the Highway AF area. The investigation of the two Peterson property ponds determined that the ponds can be eliminated as source areas, since sampling determined the ponds are not impacting the surrounding soil or shallow groundwater.

The characterization and sampling of a well (AF-P) along Highway AF confirmed that TCE is still present in the Highway AF area, and AF-P is not acting as a conduit to the deeper aquifer. The uniform TCE concentrations in groundwater throughout the borehole under ambient conditions with downward flow suggests the TCE contamination impacting AF-P is present at or near the water table and probably is related to a local, shallow source of TCE contamination.

The existence of VOC contamination in trees near the Highway AF and East-West Road intersection and along Highway AF supports the idea that an unknown localized source or a shallow groundwater plume is impacting the residential wells in the Highway AF area. The recent (2006) detection of other COPCs in the Highway AF wells may indicate a change in the chemistry of a localized , shallow source or the addition of another source, impacting the Highway AF wells.

White House Well

Initially the main building on the property was a residence until its conversion to a restaurant named the White House in the late 1990s. It operated until early 2000. The OGV supplied water to the restaurant. The former residential well (WH1) is an unused well, located in the basement (about 7 feet bgs) of a building behind the former residence.

At the time of a site visit (February 1991), the depth to water measured 192 feet and the total well depth was estimated to be about 360 feet deep. The well was not sampled in 1991 and was reportedly abandoned and plugged at the time of the Phase II RI in 2004-2006.

In an attempt to verify previous information and obtain addition data on the VOC distributions in shallow groundwater near OGV01, a determination was made as to verify the location and status of well WH1. On April 10, 2007, the well was located at the previously known location, uncapped and open. The water-level measurement was 191.41 feet, measured from the basement floor or 197.40 feet from the top of basement wall.

On May 17, 2007, a video log of WH1 was completed. The video log determined the well has 140 feet of casing with large holes in the casing at 27-foot, 46-foot, and 91-foot depths, the water-level depth was 191 feet. Geophysical tests determined the bottom of the borehole at 336 feet below the basement floor or about 342 feet bgs. Point samples were collected at the 220 feet and 332 feet depth and analyzed on May 18, 2007, using the portable GC. No VOCs were detected in the samples. The well was purged and a water sample collected on May 24, 2007, and submitted to a laboratory for analysis. Sample results were non-detect for all VOCs.

The bottom of WH1 (342-foot bgs) is slightly shallower than the bottom of the casing in OGV01 (350 feet deep) making WH1 a good monitoring point for the shallow groundwater at OGV01.

The absence of TCE and other COPCs in the May 2007 sample from WH1 is consistent with the absence of TCE in the shallow part of MW3, the absence of TCE in shallow monitoring wells MW4 and MW5, and small TCE concentrations in shallow (less than 450 feet deep) packered zone in OGV01. The absence of TCE in WH1 and other nearby shallow monitoring wells and the large TCE concentrations detected at depth in OGV01 strongly suggests that the source of TCE in OGV01 and OGV02 is not from a local source.

Wells Near TRW/Ramsey Facility

The TRW/Ramsey facility is currently undergoing RCRA corrective action. A TCE contaminant groundwater plume was defined within the Ozark Aquifer beneath the TRW facility. A groundwater pump and treatment system has been installed on COS02 to mitigate the potential migration of the contamination in groundwater. The Ground Water Monitoring Plan (GWMP), established as part of the RCRA consent order, requires routine sampling of wells within a two-mile radius of the TRW/Ramsey facility.

Sampling of five private residential wells (LOC 105, LOC 157, LOC 244, LOC 245, and LOC 246) was included under the GWMP beginning in December 1993. The wells are the closest known wells to the TRW facility, and are located in various directions from the facility. Sample results for all samples collected for the residential wells have been non-detect or below detection limits for all VOCs. As part of the GWMP sampling, TRW will continue to collect water samples from the five private residential wells

Monitoring Wells

The Phase II investigation included drilling and sampling of three new deep monitoring wells. The location of the monitoring wells was designed to triangulate the OGV wells, assisting in defining the extent and location of the TCE and other COPCs impacting the OGV wells. The wells are the Landfill monitoring well (MW-1), the Flying J monitoring well (MW-2) and the VFW monitoring well (MW-3). Two wells, MW-1 and MW-3, were located between potential source areas and the OGV wells. The third well, MW-2, was located between the contaminated Highway AF wells and the OGV wells. Its location was chosen to assist in determining where the contamination impacting the Highway AF wells originates (source area).

Drilling of the three boreholes began on February 23, 2005, and ended on May 18, 2005. The downhole geophysical logging was done after all three deep monitoring wells had been drilled and the surface casings set. After the geophysical logging was completed, the three monitoring wells were left as open borehole completions with only a surface casing. One sampling event was conducted for each of the three deep boreholes during the Phase II investigation. Sample results indicated the COPC concentrations in the three deep boreholes diminished over time, with the highest TCE concentrations in MW-1 at 0.83 µg/l (10-minute sample). TCE was not detected in MW-2 or MW-3.

The Post-Phase II RI investigation included the completion of the borehole geophysical logging, finalized construction of two of the three partially constructed deep monitoring wells, and the collection of additional water samples from the completed deep monitoring wells. When work resumed on MW-1 and MW-3, the measured total depths were 505 feet bgs for MW-1 and 580

feet bgs for MW-3, which were the final construction depths for the completed monitoring wells. The measured total depth on MW-2 was 631 feet bgs.

MW-1

A down-hole video log of the MW-1 borehole was completed in early December 2005, followed by geophysical logging. The logs confirmed that MW-1 had about 104 feet of casing, and a generally smooth open borehole, with openings between 425 and 450 ft deep. Geophysical logging of MW-1 indicated an inward downward flow (175 feet to about 280 feet bgs) and inward upward flow (borehole bottom to about 320 feet bgs) existed in the borehole. A decreased flow between 260 feet and 320 feet bgs indicated the flow was exiting. The downward flow contained detectable TCE concentrations (0.55 to 1.68 ug/l) compared to the upward flow with no detectable TCE concentrations.

In December 2005, samples were collected at the 185, 250, 415, and 480-foot depths. TCE was detected at 1.1 µg/l to 1.71 µg/l (185 feet bgs sample), 0.55 µg/l (250 feet bgs sample), and non-detect (415 and 480 feet bgs samples). Other COPCs were also detected in the 185-foot sample.

Based on the borehole geophysical logging and point sampling, MW-1 was completed in January 2006. An annular space, referred to as MW-1A, was left open from 280 feet bgs to 105 feet bgs to allow for water-level measurements and water sampling. The deeper open-hole section below the riser from 349 to 505 feet bgs is referred to as MW-1. Both MW-1 and MW-1A were sampled in April 2006. Results indicated TCE (0.6 to 1.71 µg/l) and other COPCs in samples from MW-1A (annular well), however no COPCs were detected in MW-1. Thus the presence of TCE and other VOCs in the upper part (MW-1A) of the MW-1 borehole indicates that local contamination in groundwater from the adjacent closed Sullivan Landfill is impacting MW-1.

MW-3

A down-hole video log of the MW-3 borehole was completed in early-December 2005. The video log and the geophysical logs indicated the well had about 132 feet of casing. The open borehole below 132 feet was generally smooth, with several openings at the 190-foot, the 415-foot, the 460-foot, and the 495-foot bgs depths. The geophysical logs indicated a nearly uniform inward downward flow from the water surface to about 440-foot bgs depth and an outward flow exiting the borehole in the 440 to 580 foot interval. Four point samples were taken in December 2005 at the 125, 300, 425, and 525-foot depths. Samples results were non-detect for TCE and other COPCs.

Based on the borehole geophysical logging and point sampling, MW-3 was completed in January 2006. With the completion of MW-3, it was determined that the annular space was too narrow for collection of water level measurements and groundwater samples, thus comparison data within the well was lost from the open interval because of this inability to measure and sample.

Due to the large amount of downward flow that occurred in the open borehole after its partial construction, an initial water sample from the completed well was collected after extensive pumping. The sample results revealed no detections of TCE or other COPCs. Samples were collected in April and May 2006. Sample results from the April-May 2006 sampling events

revealed no TCE or other COPCs. The completed well was sampled a second time in October 2006. The sample results revealed no TCE or other COPCs in MW-3.

The installation of two additional shallow monitoring wells was incorporated into the Post-Phase II RI. There were several potential TCE source areas near the OGV wells, and installation of additional monitoring wells between the potential source areas and the OGV wells was intended to reduce uncertainty regarding the TCE contaminant source in the OGV wells.

MW-4

The installation of the first shallow monitoring well, the Highway 185 Garage well (MW-4) began on June 2, 2006. MW-4 was installed to determine if the Sohn-Wal-Mart property was a possible source of TCE and PCE contamination in the groundwater. MW-4 was drilled to 170 feet deep and initial samples were collected in June 2006. Sample results were non-detect for TCE and other COPCs. The borehole was advanced to a total depth of 225 feet bgs. The water level measurement was about 160 feet bgs. The well was temporally completed on June 21, 2006, until a determination was made to deepen the borehole.

The second round of sampling was completed in late June 2006. Sample results were non-detect for TCE and other COPCs. Since the sample results were non-detect for TCE and other COPCs from both sampling rounds, it was determined that the on-site soil contamination was not leaching into the subsurface, contaminating the subsurface soils or groundwater. Thus, it was determined not to deepen the hole, so the construction of the 4-in monitoring well was completed on June 30, 2006. Samples from MW-4 were collected in September and October 2006 and February 2007. The sample results from the three sampling events showed no TCE or other COPCs in MW-4.

MW-5

The installation of the second shallow monitoring well, the Ditch Witch well (MW-5) began on July 24, 2006. MW-5 was initially drilled to 170 feet deep, and then advanced to a total depth of 240 feet bgs, which was deep enough to intersect the 540-560 foot zone in OGV01. The water level measurement was 180 feet deep. MW-5 was completed on September 9, 2006.

During the installation of MW-5, between July and September 2006, seven water samples were collected. Sample results were non-detect for TCE and other COPCs. Samples were also collected from MW-5 in September and October 2006 and February 2007. No TCE or other COPCs were detected in the samples. (Table 4-6 and Appendix C).

After the completion of the deep monitoring wells and the installation of the shallow monitoring wells, the contaminated groundwater impacting the OGV wells was better defined. Sampling of MW-3, MW-4 and MW-5 revealed no TCE or other COPCs in the deep (580 feet) well (MW-3), and the two shallow (225 and 240 feet) wells (MW-4 and MW-5). Based on these results, the shallow (less than 250 feet deep) groundwater west, southwest, and south of the OGV wells and the deep (less than 580 feet deep) groundwater directly south of the OGV wells are not contributing to the groundwater contamination in the OGV wells.

Sampling of MW-1 revealed TCE and other COPCs impacting the shallow portion of MW-1 (in the MW-1A annular space); however the deeper portion of MW-1 revealed no TCE or other COPCs in the deep well. Based on these results and previous results from the closed Sullivan Landfill, the landfill is impacting the shallow groundwater.

Potential Source Areas

The investigation of potential source areas began during the Phase II RI investigation and continued during the Post-Phase II RI. One of the activities completed during the Phase II RI was the investigation of the Sullivan/OGV sanitary sewers. The information and data gathered from the sanitary sewer investigation assisted in determining other potential source areas to investigate in the Phase II RI and the Post-Phase II RI investigations. Additional source areas investigated included Sullivan and OGV closed sewage lagoons, the Peterson ponds, an abandoned drum disposal area, the Winsel Creek tributary, the Blanton – Sohn – Wal-Mart Properties, the Ditch Witch facility, and the TRW facility.

Sullivan/OGV Sanitary Sewers

The Phase II RI included sampling the OGV/Sullivan sanitary sewers, with the intent to determine if the sanitary sewers had impacted the surrounding soil and groundwater. Sampling, via the manholes, was used to determine whether residual VOCs and metal contamination were present, the location of businesses or industries potentially responsible for the discharge, and whether the contamination had leached out of the sanitary sewers at some point in time, impacting the surrounding soil and groundwater

The sanitary sewers are constructed of unlined clay tiles or concrete block, with brick or block concrete junction boxes. Any contamination in the flowing liquid could precipitate out to accumulate on the bottom of the sewers and leach out into the surrounding soil and migrate into the shallow groundwater. The sanitary sewers can also act, as shallow conduits, distributing contamination throughout the OGV/Sullivan area where area sewage lagoons, acting as receptors, could ultimately receive the contamination.

The sewer line sampling was conducted in January 2005. Sample results revealed two COPCs were detected in the sanitary sewers, PCE and methylene chloride. PCE and methylene chloride were detected at the manhole near the Wal-Mart property, while PCE was detected in the manhole west of the TRW facility and methylene chloride was detected in the manhole east of the TRW facility. Historically, PCE contamination has been detected in soil and/or groundwater at both of these locations.

Over time, accumulated contamination could have leached out of the OGV and Sullivan sanitary sewer lines into the surrounding soil and could have migrated into the shallow groundwater. If the shallow groundwater rises above the water level in the lines, the contamination from the shallow soils could leach back into the sewers. Current sampling indicates that localized sources of soil contamination have leached back into the sanitary sewers over time. Therefore, the sanitary sewers are receptors or collection systems, and possibly sources or distribution systems of contamination. However, these levels are at very small concentrations and are not impacting the groundwater or creating health risks.

Sullivan Closed Sewage Lagoons

The two closed Sullivan sewage lagoons were investigated during the Phase II RI, due to multiple site-related factors, including operational history, data from the sanitary sewer investigation and public recommendations. Wastes were sent to the two Sullivan sewage lagoons throughout their operational histories via the sanitary sewers. The two Sullivan sewage lagoons had clay bottom liners; however, any contamination sent to them could have precipitated out and accumulated on the lagoon bottom. Depending on the thickness and condition of the clay liners, over time, contamination could have leached out into the soil and migrated into the shallow groundwater.

To determine the contamination status of the two closed Sullivan sewage lagoons, tree core and soil sampling was conducted. The results for the tree core samples around the sewage lagoons were non-detect for the all three of the targeted VOCs. The samples collected from the soil borings from both sewage lagoons were analyzed for VOCs, and total chromium and lead. The analytical results reported non-detect for all COPCs from both lagoons. Low levels of total chromium and lead were detected in all samples. The analysis of the sampling activities at the closed Sullivan sewage lagoons has determined that potential contaminant sources, such as liquids and solids/sediments, have been removed to bedrock. Therefore, the two closed Sullivan sewage lagoons can be eliminated as source areas.

Peterson Ponds

The two Peterson property ponds were investigated during the Phase II RI due to their proximity to the Highway AF groundwater contamination. The property owner stated that contamination might have been dumped in either pond in the past. Since the ponds are unlined, any contamination dumped in them could have settled or precipitated out and accumulated on the pond bottom. Over time, the contamination could have leached out into the soil and migrated into the shallow groundwater.

To determine the contamination status of the two Peterson property ponds, tree core and soil sampling was conducted. The results for the tree core samples around the ponds were non-detect for all three of the targeted VOCs. The samples collected from the soil borings from one pond were analyzed for VOCs. The analytical results reported non-detect for all COPCs. The other pond was not sampled due to trees. The two Peterson Property ponds can be eliminated as source areas, especially in the Highway AF areas, since sampling determined the ponds are not impacting the surrounding soil or shallow groundwater.

Abandoned Drum Burial Site

The abandoned drum burial site, which is located in OGV, was discovered in February 2005. The initial investigation of the site determined it was a very old, abandoned site. In March 2005, soil borings were completed to define the horizontal and vertical extent of the drums, on-site soil contamination, and possible off-site soil contamination. The sample results for the soil samples were non-detect for COPCs and metals. In September 2005, tree core samples were collected at the abandoned drum burial site. The sample results for the tree core samples were non-detect for the five targeted VOCs.

The abandoned drum disposal area can be eliminated as a source area. Sampling of the site determined potential contaminant sources, such as liquids and solids/soil, are not impacting soil or the shallow groundwater.

OGV Closed Sewage Lagoon

The closed OGV sewage lagoon was investigated during the Phase II RI, due to multiple site-related factors, including operational history and public recommendations. Wastes were sent to the OGV sewage lagoon throughout its operational history. The lagoon had a clay bottom liner; however, any contamination sent to it could have precipitated out and accumulated on the lagoon bottom. Depending on the thickness and condition of the clay liners, over time, contamination could have leached out into the soil and migrated into the shallow groundwater.

Upon closure, the dam was breached to allow the accumulated fluids to discharge, while the accumulated solids/sediments remained undisturbed within the lagoon's basin. In August 2004, soil and tree core samples were collected at the closed OGV sewage lagoon. Sample results for the soil samples were non-detect for VOCs and metals. Tree core sampling was also conducted. The sample results for the tree core samples were non-detect for all three targeted VOCs. Additional tree core sampling was conducted in September 2005 between the closed OGV sewage lagoon, the abandoned drum burial site, and the railroad tracks. The sample results for the tree core samples were non-detect for all five targeted VOCs.

The completed sampling at the closed OGV sewage lagoon confirmed that the remaining solids/sediments are presently not impacting soils or the shallow groundwater. The closed OGV sewage lagoon can be eliminated as a source area.

Blanton/Sohn/Wal-Mart properties

The Blanton/Sohn/Wal-Mart properties are located on the southwest corner of the intersection of Interstate 44 and Highway 185 in OGV and Sullivan. The properties were investigated in 1992 and 1994, before the Phase II RI. The previous investigations determined VOCs including TCE and PCE had impacted soils on the Highway 185 Garage (Sohn) and Blanton properties.

Phase II RI investigations were conducted in June 2004 and January 2005. In June 2004, limited tree core sampling was conducted. Sample results for the tree core samples associated with the Highway 185 Garage property were non-detect for all three targeted VOCs. In the January 2005 sewer line investigation, a water sample was collected from the junction point of the sewer lines for the Blanton-Sohn-Wal-Mart properties. The sample was analyzed for VOCs and metal contaminants. PCE was the only COPC detected in the sample.

To determine whether the Blanton-Sohn-Wal-Mart properties were a potential source area, sampling began in March 2006 on the Blanton property and ended in November 2006 on the Wal-Mart property. The Blanton property investigation was conducted in March 2006. Soil samples were collected from various locations. No TCE or other COPCs were detected in the soil samples. The Highway 185 Garage (Sohn property) investigation was conducted in April 2006. Soil samples were collected from various locations. No TCE or other COPCs were detected in the soil samples. The Wal-Mart property investigation was conducted in

November 2006. Soil samples were collected from various locations. PCE and methylene chloride were the only COPCs detected in the soil samples. Metals were also detected. Groundwater sample results from MW-4 indicated that the impacted surface soils had not impacted the shallow groundwater on the Blanton-Sohn-Wal-Mart properties.

Due to the low concentrations of PCE and total chromium detected in the soil under the Wal-Mart parking lot, and the non-existence of COPCs in other property soil and shallow groundwater, the Blanton-Sohn-Wal-Mart properties are not a source of the TCE or PCE contamination that has impacted the OGV wells.

Ditch Witch property

The Ditch Witch Sales, Inc. facility is located in OGV. At the time of the Post-Phase II RI, an investigation had been done on the property. Soil sample results were non-detect for the parameters sampled. Based on the length of time the Ditch Witch facility has been on the property, and the possible use of COPCs, the facility was included in the Post-Phase II RI investigation.

Soil sampling was conducted in August 2006 from various locations on the property. No TCE or other COPCs were detected in the soil samples, except at one location – near the rear of the Machine Shop. TCE and PCE were detected in the sample at 2 to 3 feet bgs, above the "migration to groundwater" benchmark. Low levels of metals were also detected near the rear of the Old Paint Shop.

To define the extent of the TCE and PCE contamination, additional soil samples were collected in September 2006. No COPCs, especially TCE and PCE, were detected in the additional samples, except at one location. Since a non-detect for COPCs soil sample had previously been collected downgradient from the others, no other samples were collected.

Based on the soil sampling completed on the Ditch Witch property, TCE and PCE contamination was detected in one localized area ranging from three to five feet bgs in depth. Except for this localized area, no other areas on the Ditch Witch facility were found to contain COPCs. Groundwater sample results from MW-5 determined the contaminated soils had not impacted the shallow groundwater. Since the Ditch Witch facility has not impacted groundwater, the Ditch Witch facility can be eliminated as a source area impacting the OGV wells.

Winsel Creek Tributary Near TRW Facility

An investigation of the Winsel Creek tributary near the TRW facility was conducted during the Post-Phase II RI investigation. Limited soil samples along the Winsel Creek tributary and a surface water sample from the TRW/Ramsey outfall were collected to determine whether the TRW/Ramsey facility had or was impacting the tributary. Since the tributary and the soil along the tributary are unlined, the potential exists for past and current contaminants to impact deeper soils and the shallow groundwater.

In September 2006, limited soil and surface water sampling was conducted along the Winsel Creek tributary. Sample results detected no VOCs in the soil samples; however, chromium and lead were detected above background in very low concentrations. The chromium concentration

was also above the EPA benchmark that indicates the contaminated media could be impacting groundwater. The surface water sample was collected at the property's outfall into the tributary. No VOCs were detected in the water sample; however, a very low concentration of chromium was detected. The chromium concentration was below all benchmarks.

No VOCs were detected in the soil samples along the Winsel Creek tributary or in the surface sample. However, total chromium and lead above background concentrations were detected in the soil samples at depth. Total chromium was also detected in the TRW/Ramsey facility's outfall surface water sample. The current depth of the metal contamination in the limited soil samples would indicate that in the past metals, and possibly VOCs, migrated from the facility. The low chromium concentration in the facility outfall's surface water sample could indicate continued contaminant off-site migration.

TRW/Ramsey Facility

From 1950 until 1983, TRW operated an automobile piston ring manufacturing plant in Sullivan that used organic solvents. A TCE groundwater plume was identified within the Ozark Aquifer beneath the TRW/Ramsey facility.

As part of the 1993 Order, TRW constructed an extraction system on COS02 and a monitoring well (41) network. The Ground Water Monitoring Plan requires routine sampling of the monitoring well network, the COS wells, and four private wells within a two-mile radius of the TRW/Ramsey facility. As part of the monitoring well network, TRW drilled monitoring wells near the rail line. A review of TRW's sample results indicates the presence of TCE in intermediate and deep wells near the rail line.

Based on the 2006 sample results, the furthest north intermediate and deep monitoring wells towards OGV have TCE contamination in groundwater, both along and north of the rail line. Even though the concentrations are low (below the MCL), the concentrations continue to rise in these "edge of the network" wells. Based on current TCE detections in groundwater, TRW may not have hydraulic control of the plume beneath the facility at this time. Thus, the TRW/Ramsey facility can not be eliminated as a past or current potential source area for the contamination in OU1.

Water Level Measurements

Water level measurements of the deep municipal and monitoring wells were collected to assist in determining the direction of groundwater flow in the deeper portion of the aquifer and the possibility of an interconnection between the municipal wells.

The water level measurements for the Post-Phase II investigation were collected digitally from OGV01, OGV02, COS03, COS09, and MW-3. The water level measurements were plotted and graphed. The graphs visually demonstrate the pumping interconnection and influence among OGV01, OGV02, COS09, COS10, and MW-3. The graphs also demonstrate the lack of communication between the previously mentioned wells and COS03.

The data obtained from the water level investigation indicates a hydrogeologic connection among OGV01, OGV02, MW-3, COS09, and COS10. Even though COS03 is further from

OGV01 than COS09, COS03 should have had some influence on the water levels in OGV01 and MW-3. This lack of impact on the water levels indicates a lack of an interconnection between COS03 and the other wells in the water level study.

Calculations

As part of the Post-Phase II RI, calculations were done to estimate the amount of TCE needed to contaminate the groundwater in the OGV wells. Based on the results from the calculations, 12.5 gallons of pure TCE product was needed to contaminate the extracted groundwater in the OGV wells.

Considering that COS02, COS08, COS09, COS10, and COS11 are also contaminated with TCE in groundwater, the volume of released TCE actually in groundwater could equate to at least one 55-gallon drum of pure TCE product. If the volume of released TCE represents a small fraction of a facility's use, then the facility's operation would need to be large enough and operate long enough to absorb the loss without suffering an operational impact, such as the TRW/Ramsey facility or a similar unknown facility.

Conclusion

Based on investigative sampling and the volume of TCE contamination in groundwater, the closed sewage lagoons, area ponds, sanitary sewers, service stations and repair shops can be eliminated as sole sources for the contamination in the OGV and Sullivan wells. The only known potential source area left within the study area for OU1, with previous releases of TCE at high enough concentrations to contaminate area wells is the TRW/Ramsey facility. Sample results indicate that TRW/Ramsey may not have complete capture (hydraulic control) of the plume beneath its facility at this time. If the state's Hazardous Waste Permit Section determines that the TRW/Ramsey facility has the TCE plume beneath its property under control, then the contamination impacting the OGV wells will have to be attributed to an unknown source.

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TABLES

Table 1-1: Summary of Operable Units Designations for the Remedial Investigation History of OU1 Post Phase II Remedial Investigation Oak Grove Village Well Site, OU1 Oak Grove Village, Missouri

Operable unit	Approximate area of investigation	Contamination summary
OU1	2 square miles including Oak Grove Village, Sullivan and, unincorporated areas	- Known TCE use and disposal - TCE/PCE in soils below EPA guidelines - TCE and cis-DCE below MCLs in groundwater - Contaminated private, commercial and municipal wells in OU1
OU2	3 square miles including Oak Grove Village, Sullivan and, unincorporated areas	- Landfill used for industrial and municipal waste disposal (1970-1983), currently in post closure - TCE and Freon™ in surface water and cave air below guidelines - TCE above MCL &MWQSs in groundwater - TCE and Freon™ below MCLs, PRGs, & MWQSs in groundwater - Contaminated private, commercial and municipal wells in OU2

Notes:

[OU, Operable unit; TCE, trichloroethene; PCE, tetrachloroethene; EPA, U.S. Environmental Protection Agency; MCL, maximum contaminant level; PRG, preliminary remediation goals]

Table 1-2: Summary of History of OU1
Post-Phase II Remedial Investigation
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Date	Location	Event	Contaminant
1964	OGV01	Municipal well constructed	
06/86	OGV01	Routine sampling by DNR detected contaminants in groundwater	TCE (above MCL), PCE
06/87	OGV01	Preliminary Assessment completed	TCE
10/88	OGV01, COS02 & Voss well	Site Inspection completed	TCE
07/91	OGV01	OGV01 taken out of service, OGV purchases water from Sullivan	TCE
09/92	OGV01	Reopened OGV01	
02/94	OGV01	OGV01 taken out of service again	TCE
09/94		Expanded Site Inspection completed	
1997-1998		Additional Site Assessment completed	
09/01	OGV Site	OGV Site proposed for EPA National Priorities List (NPL)	TCE
09/02	OGV Site	OGV Site added to EPA NPL	TCE
03/02	OGV Site	Phase I Remedial Investigation (RI) (Jacobs)	
12/02	OGV02	New municipal well constructed & contaminants in groundwater	TCE
2004-2005	OGV02	Air stripper installed on OGV02	
04/05	OGV02	OGV begins treatment & distribution of water	
06/05		DHSS completed Final Human Health Risk Assessment	
08/05		Phase II RI completed (Benham)	
05/07		Post Phase II RI completed (DNR)	

Notes:

1. TCE: Trichloroethylene
2. PCE: Tetrachloroethylene
3. Table modified for OU1 Post-Phase II RI document, based on Benham 2005 Phase II Remedial Investigation.

Table 1-3: Contaminants of Potential Concern and Contaminants of Concern for Groundwater Post-Phase II Remedial Investigation Oak Grove Village Well Site, OU1 Oak Grove Village, Missouri

Contaminants of Potential Concern and Contaminants of Concern[1]	CAS#
1,2,4-Trichlorobenzene	120-82-1
4-Methyl-2-pentanone (MIBK)	108-10-1
Acetone	67-64-1
Chloroform	67-66-3
cis-1,2-Dichloroethene	156-59-2
Dichlorodifluoromethane (Freon 12)	75-71-8
Total-Xylenes	1330-20-7
Methane	74-82-8
Dichloromethane (Methylene Chloride)	75-09-2
Methyl-tertiary-butyl ether (MTBE)	1634-04-4
n-Butylbenzene	104-51-8
Toluene	108-88-3
Tetrachloroethene (PCE)	127-18-4
Trichloroethene (TCE) (provisional)	**79-01-6**
Trichlorofluoromethane (Freon-11)	75-69-4
Vinyl Chloride	75-01-4

Note:

1. Contaminants of Potential Concern and Contaminants of Concern list taken from Table 2 of the "Baseline Human Health Risk Assessment for the Oak Grove Village Well Site" prepared by the Missouri Department of Health and Senior Services (DHSS) document dated June 2005. The list was modified based on information provided by DHSS after the completion of the Phase II RI/FS and for applicability for OU1.
2. Contaminants of Concern highlighted and bold on Table 1-3.

Table 4-1: Groundwater Sample Results Collected in June 2006 for Hwy AF Area
Oak Grove Village Well Site, OU1, Franklin County, Missouri

- All values listed in parts per billion (ug/l) unless otherwise noted.
- NL denotes benchmark value not listed in reference source.

Sample ID	PW023	PH040	PH038	PH039	PH053	PW027	PW028	PH041	PH054	PH054	PH015	PW067	PH011	SCDM[2]		EPA PRG[4]	MO WQS[5]
Laboratory Number	0606127	0606128	0606129	0606130	0606131	0606132	0606133	0606156	0606157	0606158	0606159	0606160	0606165	MCL	SL		
Volatile Organic Compounds (VOCs)																	
Trichloroethene (TCE)	1.17	.29 (e)	<.25	< 25	3 (e)	46 (e)	.58	1.25	< 25	<.25	2.42	3 83	1 98	5	7.7	0.028	5
Trichlorofluoromethane	<.25	< 25	<.25	< 25	< 25	< 25	<.25	26 (e)	< 25	<.25	< 25	< 25	.47 (e)	NL	11000	1300	NL

[1] Above the PQL when background concentration is < PQL, or three times the background concentration when contaminant is detected in background sample.

[2] SCDM - Superfund Chemical Data Matrix January 2004, Maximum Contaminant Level (MCL) for drinking water, and lowest of reference dose and cancer risk screening levels (SL) for groundwater/surface water pathway drinking water.

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, tap water

[5] MO WQS - Missouri Water Quality Standards, groundwater/drinking water use catagories, Missouri Code of State Regulations, 10 CSR 20-7 031, October 31, 1999

e - Estimated value, detected below PQL

Table 4-2: Groundwater Sample Results Collected in October 2006 f or Hwy AF Area
Oak Grove Village Well Site, OU1, F ranklin County, Missouri

- All values listed in parts per billion (ug/l) unless otherwise noted.
- NL denotes benchmark value not listed in reference source.

Sample ID	PW023	PH040	PH038	PH039	PH058	PH053	PH011	PH054	PH015	PW027	PW027 dup	PW028	PW067	SCDM[2]		EPA PRG[4]	MO WQS[5]
Laboratory Number	0610231	0610233	0610238	0610239	0610240	0610241	0610242	0610243	0610244	0610246	0610247	0610248	0610249	MCL	SL		
Volatile Organic Compounds (VOCs)																	
1,2,4-Trichlorobenzene	.25 (e)	<.25	<.25	<.25	<.25	<.25	<.25	<.25	<.25	< 25	<.25	<.25	< 25	70	360	7.2	70
Trichloroethene (TCE)	.94	.31 (e)	<.25	<.25	1.11	<.25	1 78	<.25	1 67	.37 (e)	35 (e)	44 (e)	2 65	5	7.7	0.028	5

[1] Above the PQL when background concentration is < PQL, or three times the background concentration when contaminant is detected in background sample.

[2] SCDM - Superfund Chemical Data Matrix January 2004, Maximum Contaminant Level (MCL) for drinking water, and lowest of reference dose and cancer risk screening levels (SL) for groundwater/surface water pathway drinking water

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals. October 2004, tap water

[5] MO WQS - Missouri Water Quality Standards, groundwater/drinking water use catagories, Missouri Code of State Regulations, 10 CSR 20-7.031, October 31, 1999.

e - Estimated value, detected below PQL

Table 4-3: AF-P Residential Well. Estimated concentrations of selected volatile organic compounds (VOCs) detected by the portable gas-chromatograph in water samples from domestic well AF-P (highway AF area).

[PCE, tetrachloroethene; TCE, trichloroethene; cis-DCE, cis-1,2-dichlroethene; E-Benzene, ethylbenzene; ug/kg, micrograms per kilogram]
[<, less than reporting limit; a, probable false peak because of numerous hydrocarbon peaks in chromatogram]

Location	Depth (ft)	Collection Date	Time	PCE ug/kg	TCE ug/kg	cis DCE ug/kg	Benzene ug/kg	Toluene ug/kg	Xylene ug/kg	E-Benzene ug/kg
Well AF-P	190	02/06/06	1226	<.2	**1.2**	<.2	<.2	<.2	<.2	<.2
Well AF-P	222	02/06/06	1323	<.2	**1.5**	**0.2**	<.2	<.2	<.2	<.2
Well AF-P	262	02/06/06	1413	<.2	**1.2**	**0.2**	<.2	<.2	<.2	<.2
Well AF-P	297	02/06/06	1506	<.2	**1.2**	**0.3**	<.2	<.2	<.2	<.2
Well AF-P	324	02/06/06	1609	<.2	**1.2**	**0.3**	<.2	<.2	<.2	**1.3**
Well AF-P	190	02/14/06	1301	<.2	**1.6**	<.2	<.2	**0.3**	<.2	<.2
Well AF-P	206	02/14/06	1348	<.2	**1.5**	<.2	<.2	<.2	<.2	<.2
Well AF-P	240	02/14/06	1446	<.2	**1.6**	**0.2**	<.2	<.2	<.2	<.2
Well AF-P	283	02/14/06	1525	<.2	**1.6**	<.2	<.2	<.2	<.2	<.2
Well AF-P	320	02/14/06	1617	<.2	**1.6**	**0.7**	<.2	<.2	<.2	<.2
Well AF-P	Faucet	02/14/06	1700	<.2	**2.0**	<.2	<.2	<.2	<.2	<.2

Table 4-4: Hwy AF, closed OGV Sewage Lagoon, and Abandoned Drum Burial sites Tree Core Samples. *Estimated concentrations of selected volatile organic compounds (VOCs) detected* by the portable gas-chromatograph in tree-core samples collected by DGLS.

[PCE, tetrachloroethene; TCE, trichloroethene; cis-DCE, cis-1,2-dichlroethene; ug/kg, micrograms per kilogram]

[<, less than reporting limit; a, probable false peak because of numerous hydrocarbon peaks in chromatogram]

LOCATION	Date	Time	Lattitude	Longitiude	PCE ug/kg	TCE ug/kg	cis DCE ug/kg	Benzene ug/kg	Toluene ug/kg
1-1	09/27/05	1000			<.5	<.5	<.5	<.5	<.5
1-2	09/27/05	1000			<.5	<.5	<.5	<.5	<.5
2-1	09/27/05	1035			<.5	<.5	<.5	<.5	<.5
3-1	09/27/05	1030			<.5	<.5	<.5	<.5	<.5
4-1	09/27/05	1130			<.5	<.5	<.5	<.5	<.5
5-1	09/27/05	1140			<.5	<.5	<.5	<.5	<.5
6-1	09/27/05	1145			<.5	<.5	<.5	<.5	<.5
7-1	09/27/05	1150			<.5	<.5	<.5	<.5	<.5
8-1	09/27/05				<.5	<.5	<.5	<.5	<.5
1 AF	10/19/05	1005			<.5	<.5	<.5	<.5	<.5
2 AF	10/19/05	1015			<.5	<.5	<.5	<.5	<.5
3 AF	10/19/05	1025			<.5	<.5	<.5	<.5	<.5
4 AF	10/19/05	1035			<.5	<.5	<.5	<.5	<.5
5 AF	10/19/05	1040			<.5	<.5	<.5	<.5	<.5
6 AF	10/19/05	1045			<.5	<.5	<.5	<.5	<.5
7 AF	10/19/05	1102			<.5	<.5	<.5	<.5	<.5
8 AF	10/19/05	1108			<.5	<.5	<.5	<.5	<.5
9 AF	10/19/05	1115			<.5	<.5	<.5	<.5	<.5
10 AF	10/19/05	1123			<.5	<.5	**0.51**	<.5	**0.41**
11 AF	10/19/05	1130			<.5	<.5	<.5	<.5	<.5
12 AF	10/19/05	1305			<.5	<.5	<.5	<.5	<.5
13 AF	10/19/05	1320			<.5	<.5	<.5	<.5	<.5
14 AF	10/19/05	1323			<.5	<.5	<.5	<.5	<.5
15 AF	10/19/05	1328			<.5	<.5	<.5	<.5	<.5
16 AF	10/19/05	1334			<.5	<.5	<.5	<.5	<.5
17 AF	10/19/05	1341			<.5	<.5	<.5	<.5	**2.30**
18 AF	10/19/05	1354			<.5	<.5	**1.10**	<.5	<.5
19 AF	10/20/05	0918			<.5	<.5	<.5	<.5	<.5
20 AF	10/20/05	0936			<.5	<.5	<.5	<.5	<.5
21 AF	10/20/05	0946			<.5	**0.08**	<.5	<.5	**0.30**
22 AF	10/20/05	0955			<.5	<.5	<.5	<.5	<.5
23 AF	10/20/05	1005			<.5	<.5	<.5	<.5	<.5
24 AF	10/20/05	1011			<.5	<.5	<.5	0.110	<.5
25 AF	10/20/05	1018			<.5	<.5	**2.00**	<.5	<.5
26 AF	10/20/05	1025			<.5	<.5	<.5	<.5	<.5
27 AF	10/20/05	1031			<.5	<.5	<.5	<.5	<.5

Table 4-5: Portable GC Results for Landfill (MW-1) and VFW (MW-3) Wells. Estimated concentrations of selected volatile organic compounds (VOCs) detected by the portable gas-chromatograph in water samples using a downhole point sampler in the Landfill well and VFW well. 0.173648178

[PCE, tetrachloroethene; TCE, trichloroethene; cis-DCE, cis-1,2-dichlroethene; E-Benzene, ethylbenzene; ug/kg, micrograms per kilogram]

[<, less than reporting limit]

LOCATION	Depth	Date	Time	PCE ug/kg	TCE ug/kg	cis DCE ug/kg	Benzene ug/kg	Toluene ug/kg	Xylene ug/kg	E-Benzene ug/kg
OGV-Landfill Well	185	12/13/05	1445	<.2	**1.03**	**0.46**	<.2	<.2	<.2	<.2
OGV-Landfill Well (d)	185	12/13/05	1445	<.2	**1.01**	**0.49**	<.2	<.2	<.2	<.2
OGV-Landfill Well	185	12/16/05	0944	<.2	**0.9**	**0.43**	<.2	<.2	<.2	<.2
OGV-Landfill Well (d)	185	12/16/05	0944	<.2	**1.1**	**0.49**	<.2	<.2	<.2	<.2
OGV-Landfill Well (d)	250	12/16/05	1108	<.2	**0.82**	<.2	<.2	<.2	<.2	<.2
OGV-Landfill Well (d)	250	12/16/05	1130	<.2	**0.55**	<.2	<.2	<.2	<.2	<.2
OGV-Landfill Well	415	12/16/05	1155	<.2	<.2	<.2	<.2	<.2	<.2	<.2
OGV-Landfill Well	415	12/16/05	1115	<.2	<.2	<.2	<.2	<.2	<.2	<.2
OGV-Landfill Well	480	12/16/05	1247	<.2	<.2	<.2	<.2	<.2	<.2	<.2
OGV-Landfill Well (r)	480	12/16/05	1250	<.2	<.2	<.2	<.2	<.2	<.2	<.2
OGV-VFW Well	225	12/20/05	1023	<.2	<.2	<.2	<.2	**0.21**	<.2	<.2
OGV-VFW Well (d)	225	12/20/05	1023	<.2	<.2	<.2	<.2	**0.18**	<.2	<.2
OGV-VFW Well	300	12/20/05	1115	<.2	<.2	<.2	<.2	**0.16**	<.2	<.2
OGV-VFW Well (d)	300	12/20/05	1115	<.2	<.2	<.2	<.2	**0.14**	<.2	<.2
OGV-VFW Well	425	12/20/05	1208	<.2	<.2	<.2	<.2	**0.28**	<.2	<.2
OGV-VFW Well (d)	425	12/20/05	1250	<.2	<.2	<.2	<.2	**0.33**	<.2	<.2
OGV-VFW Well	525	12/20/05	1311	<.2	<.2	<.2	<.2	**0.37**	<.2	<.2
OGV-VFW Well (d)	525	12/20/05	1311	<.2	<.2	<.2	<.2	**0.33**	<.2	**0.61**

(d) duplicate analysis of sample

(r) replicate sample from point sampler

** Samples collected using a mt sopris downhole point sampler from open borehole under ambient (non-pumping conditions. Wells had surface casing only at the time of this sampling (landfill well XXX ft steel casing; VFW well XXX 6-in. steel casing).

*** Sample times for duplicate sample may not agree because USGS times represent time point sampler opened downhole compared to DGLS whom used time that vial was filled from sampler at the surface.

Table 4-6: Portable GC Results for MW-1, MW-3, MW-4, and MW-5 Wells. Estimated concentrations of selected volatile organic compounds (VOCs) detected by the portable gas-chromatograph and VOC concentrations in laboratory samples from monitoring wells during the post-RI investigation.

[PCE, tetrachloroethene; TCE, trichloroethene; cis-DCE, cis-1,2-dichlroethene; E-Benzene, ethylbenzene; ug/kg, micrograms per kilogram]

[<, less than reporting limit; J, estimated concentration below the reporting limit]

LOCATION	Depth	Date	Time	PCE ug/kg	TCE ug/kg	cis DCE ug/kg	Benzene ug/kg	Toluene ug/kg	Xylene ug/kg	E-Benzene ug/kg
MW1 (Landfill well)	349-505	04/26/06	1100	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW1 (Landfill well)	349-505	04/26/06	1245	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW1 (Landfill well)	349-505	04/26/06	1415	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW1 (Landfill well) [a]	349-505	04/26/06	1545	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW1A (Landfill annulus)	104-280	04/27/06	1025	**0.1 J**	**0.8**	<.2	**0.1 J**	<.2	<.2	<.2
MW1A (Landfill annulus)	104-280	04/27/06	1050	**0.1 J**	**0.8**	<.2	**0.1 J**	<.2	<.2	<.2
MW1A (Landfill annulus)	104-280	04/27/06	1145	**0.1 J**	**0.6**	<.2	**0.1 J**	<.2	<.2	<.2
MW1A (Landfill annulus) [a]	104-280	04/27/06	1200	**0.1 J**	**0.7**	<.2	**0.1 J**	<.2	<.2	<.2
MW3 (VFW well)	327-580	04/24/06	1320	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW3 (VFW well)	327-580	04/29/06	1300	<.2	<.2	<.2	**16.4**	<.2	<.2	<.2
MW3 (VFW well)	327-580	05/02/06	0730	<.2	<.2	<.2	**18.8**	<.2	<.2	<.2
MW3 (VFW well)	327-580	05/09/06	0715	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW3 (VFW well)	327-580	05/09/06	0715	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW3 (VFW well)	327-580	05/11/06	0930	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW3 (VFW well) [a]	327-580	05/12/06	1030	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW3 (VFW well)	327-580	10/17/06	1000	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW3 (VFW well)	327-580	10/17/06	1230	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW3 (VFW well)	327-580	10/17/06	1330	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW3 (VFW well) [a]	327-580	10/17/06	1425	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW4 (185 garage well) [b]	160-225	09/11/06	1020	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW4 (185 garage well)	160-225	10/17/06	1100	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW4 (185 garage well)	160-225	10/17/06	1145	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW4 (185 garage well)	160-225	10/17/06	1245	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW4 (185 garage well)	160-225	10/17/06	1330	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW4 (185 garage well) [b]	160-225	10/17/06	1415	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW5 (Ditch Witch)	178-240	09/11/06	1410	<.2	<.2	<.2	<.2	<.2	<.2	<.2
MW5 (Ditch Witch) [c]	178-240	10/30/06	1415	<.2	<.2	<.2	<.2	<.2	<.2	<.2

[a] Laboratory samples collected by USGS on 4-26-06 and 4-27-06 from MW1 and MW1A and transferred to DGLS for submittal to MDNR laboratory.
[b] Laboratory sample collected by USGS on 5/12/06 at 1030 and 10/17/06 at 1530 by USGS and transferred to DGLS for submittal to MDNR laboratory.
[c] Laboratory sample collected by USGS on 09/11/06 @ 1020 and on 10/17/06 at 1500 and transferred to DGLS for transmittal to MDNR laboratory.

Table 4-7: Highway 185 Garage GW Sample Results Collected on June 19 and 21, 2006
Oak Grove Vilaage Well Site, OU1, Franklin County, Missouri

- All values listed in parts per billion (ug/l) unless otherwise noted.
- NL denotes benchmark value not listed in reference source.

Sample ID	Baller	5 min.	1 min.	SCDM[2]		EPA PRG[4]	MO WQS[5]
Laboratory Number	0602387	0602388	0602389	MCL	SL		
Volatile Organic Compounds (VOCs)							
1,2,4-Trimethylbenzene	.3 (e)	< 25	<.25	NL	NL	12	NL
Ethylbenzene	.36 (e)	<.25	<.25	700	3700	1300	700
Toluene	73	.34 (e)	43 (e)	1000	7300	720	1000

[2] SCDM - Superfund Chemical Data Matrix January 2004. Maximum Contaminant Level (MCL) for drinking water, and lowest of reference dose and cancer risk screening levels (SL) for groundwater/surface water pathway drinking water

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, tap water

[5] MO WQS - Missouri Water Quality Standards, groundwater/drinking water use catagories, Missouri Code of State Regulations, 10 CSR 20-7.031, October 31, 1999.

e - Estimated value, detected below PQL

Table 4-8: Portable GC Results for MW-4 well Drill Cuttings. Estimated concentrations of selected volatile organic compounds (VOCs) detected by the portable gas-chromatograph in drill cuttings and ground-water samples during the installation and completion of monitoring well MW4 (185 garage).

[PCE, tetrachloroethene; TCE, trichloroethene; cis-DCE, cis-1,2-dichlroethene; E-Benzene, ethylbenzene; ug/kg, micrograms per kilogram]

[<, less than reporting limit; note reporitng limits raised due to interferrences from heavy hydrocarbons on drill string]

			Sample Interval											
LOCATION	Media	Feature	Top	Bottom	Date	Time	Method	PCE ug/kg	TCE ug/kg	cis DCE ug/kg	Benzene ug/kg	Toluene ug/kg	Xylene ug/kg	E-Benzene ug/kg
MW4 (185 Garage)	CU	BH	10	10	06/02/06	--	SP	<10	<10	**96a**	**1.4**	**3.2**	<1	<1
MW4 (185 Garage)	CU	BH	15	15	06/02/06	--	SP	<10	<10	**18.2a**	**5.9**	<1	<1	<1
MW4 (185 Garage)	CU	BH	20	20	06/02/06	--	SP	<10	<10	**88.9a**	**2.9**	<1	<1	<1
MW4 (185 Garage)	CU	BH	25	25	06/02/06	--	SP	<10	<10	**166a**	**3.4**	**9.1**	<1	<1
MW4 (185 Garage)	CU	BH	35	35	06/06/06	--	bl	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	40	40	06/06/06	--	SP	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	40	40	06/06/06	--	SP	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	70	70	06/07/06	--	SP	<10	<10	**19.8a**	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	85	85	06/07/06	--	SP	<10	<10	**24.4a**	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	100	100	06/08/06	--	SP	<10	<10	<1	**2.5**	**2.3**	<1	<1
MW4 (185 Garage)	CU	BH	90	90	06/08/06	--	SP	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	120	120	06/13/06	--	SP	<10	<10	<1	**5.5**	**1.9**	<1	<1
MW4 (185 Garage)	CU	BH	130	130	06/13/06	--	SP	<10	<10	<1	**1.4**	<1	<1	<1
MW4 (185 Garage)	CU	BH	135	135	06/14/06	--	SP	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	140	140	06/14/06	--	SP	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	145	145	06/14/06	--	SP	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	GW	BH	130	130	06/14/06	--	SP	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	150	150	06/15/06	--	SP	<10	<10	<1	<1	**<1**	<1	<1
MW4 (185 Garage)	CU	BH	155	155	06/15/06	--	SP	<10	<10	<1	**5.8**	**2.2**	<1	<1
MW4 (185 Garage)	Cu	BH	160	160	06/15/06	--	SP	<10	<10	<1	**4.7**	**1.**	<1	<1
MW4 (185 Garage)	CU	BH	165	165	06/15/06	--	SP	<10	<10	<1	**3.8**	**1.4**	<1	<1
MW4 (185 Garage)	GW	BH	150	150	06/15/06	--	SP	<10	<10	<1	**1.4**	<1	<1	<1
MW4 (185 Garage)	CU	BH	170	170	06/16/06	--	SP	<10	<10	<1	**4.5**	**1.9**	<1	<1
MW4 (185 Garage)	GW	BH	170	170	06/16/06	--	SP	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	180	180.00	06/20/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	190	190.00	06/20/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	200	200.00	06/20/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	GW	BH	180	180.00	06/20/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	210	210.00	06/21/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	215	215.00	06/21/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	CU	BH	225	225.00	06/21/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW4 (185 Garage)	GW	BH	210	210.00	06/21/06	--	BL	<10	<10	<1	<1	<1	<1	<1

a concentration reported but probable inteferrence with numerous hydrocarbons from drill cable.

Table 4-9: Groundwater Sample Results Collected on July 28 and August 3, 2006 for MW-5 well
Oak Grove Village Well Site, OU1, Franklin County, Missouri

- All values listed in parts per billion (ug/l) unless otherwise noted.
- NL denotes benchmark value not listed in reference source.

Sample ID	50 ft	75 ft	142 ft	170 ft	SCDM[2]		EPA PRG[4]	MO WQS[5]
Laboratory Number	0602390	0602391	0602392	0602430	MCL	SL		
Volatile Organic Compounds (VOCs)								
Acetone	<10.0	19.2 (e)	<10.0	12.1 (e)	NL	33000	5500	NL
Chloroform	<.5	61 (e)	< 5	<.5	80	360	0.17	100
Ethylbenzene	< 5	<.5	.53 (e)	<.5	700	3700	1300	700
p-Isopropyltoluene (p-Cymene)	< 5	<.5	1.18	<.5	NL	NL	NL	NL
Toluene	<.5	< 5	.99 (e)	.98 (e)	1000	7300	720	1000

[1] Above the PQL when background concentration is < PQL, or three times the background concentration when contaminant is detected in background sample

[2] SCDM - Superfund Chemical Data Matrix January 2004, Maximum Contaminant Level (MCL) for drinking water, and lowest of reference dose and cancer risk screening levels (SL) for groundwater/surface water pathway drinking water.

4 EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, tap water

[5] MO WQS - Missouri Water Quality Standards, groundwater/drinking water use catagories, Missouri Code of State Regulations, 10 CSR 20-7.031, October 31, 1999

e - Estimated value, detected below PQL

Table 4-10: Groundwater Sample Results Collected on August 4, 2006 f or MW-5 well
Oak Grove Village Well Site OU1, F ranklin County, Missouri

- All values listed in parts per billion (ug/l) unless otherwise noted.
- NL denotes benchmark value not listed in reference source.

Sample ID	155 ft	SCDM[2]		EPA PRG[4]	MO WQS[5]
Laboratory Number	0602400	MCL	SL		
Volatile Organic Compounds (VOCs)					
Acetone	13.7 (e)	NL	33000	5500	NL

[1] Above the PQL when background concentration is < PQL, or three times the background concentration when contaminant is detected in background sample.

[2] SCDM - Superfund Chemical Data Matrix January 2004, Maximum Contaminant Level (MCL) for drinking water, and lowest of reference dose and cancer risk screening levels (SL) for groundwater/surface water pathway drinking water

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, tap water

[5] MO WQS - Missouri Water Quality Standards, groundwater/drinking water use catagories, Missouri Code of State Regulations, 10 CSR 20-7.031, October 31, 1999.

e - Estimated value, detected below PQL

Table 4-11: Portable GC Results for MW-5 well Drill Cuttings. Estimated concentrations of selected volatile organic compounds (VOCs) detected by the portable gas-chromatographin drill cuttings and ground-water samples during the installation and completion of monitoring well MW5 (Ditch Witch).

[PCE, tetrachloroethene; TCE, trichloroethene; cis-DCE, cis-1,2-dichlroethene; E-Benzene, ethylbenzene; ug/kg, micrograms per kilogram]

[<, less than reporting limit; note reporitng limits raised due to interferrences from heavy hydrocarbons on drill string]

			Sample Interval											
LOCATION	Media	Feature	Top	Bottom	Date	Time	Method	PCE ug/kg	TCE ug/kg	cis DCE ug/kg	Benzene ug/kg	Toluene ug/kg	Xylene ug/kg	E-Benzene ug/kg
MW5 (Ditch)	CU	BH	15	15	07/25/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	20	20	07/25/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	25	25	07/25/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	30	30	07/25/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	35	35	07/25/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	GW	BH	35	35	07/26/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	45	45	07/26/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	50	50	07/26/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	55	55	07/26/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	60	60	07/28/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	65	65	07/28/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	70	70	07/28/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	75	75	07/28/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	85	85	07/28/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	95	95	07/31/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	105	105	07/31/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	115	115	08/01/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	125	125	08/01/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	135	135	08/02/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	140	140	08/02/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	GW	BH	142	142	08/03/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	145	145	08/03/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	150	150	08/03/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	155	155	08/03/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	GW	BH	155	155	08/04/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	165	165	08/04/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	170	170	08/04/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	175	175	08/07/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	180	180	08/07/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	185	185	08/07/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	185	185	08/07/06	--	BL	<10	<10	<1	<1	<1	<1	<1

MW5 (Ditch)	CU	BH	190	190	08/07/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	195	195	08/07/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	GW	BH	200	200	09/01/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	210	210	09/01/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	220	220	09/01/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	GW	BH	220	220	09/05/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	230	230	09/05/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	CU	BH	240	240	09/05/06	--	BL	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	GW	MW	178	240	09/11/06	1410	SP	<10	<10	<1	<1	<1	<1	<1
MW5 (Ditch)	GW	MW	178	240	09/11/06	1140	SP	<10	<10	<1	<1	<1	<1	<1

Table 4-12: Portable GC Results for Blanton Soil Borings. Estimated concentrations of selected volatile organic compounds (VOCs) detected by the portable gas-chromatograph in soil samples from property 1 (Goodyear).

[PCE, tetrachloroethene; TCE, trichloroethene; cis-DCE, cis-1,2-dichlroethene; E-Benzene, ethylbenzene; ug/kg, micrograms per kilogram]
[<, less than reporting limit; a, probable false peak because of numerous hydrocarbon peaks in chromatogram]

Location	Depth (ft)	Media	Collection Date	PCE ug/kg	TCE ug/kg	cis DCE ug/kg	Benzene ug/kg	Toluene ug/kg	Xylene ug/kg	E-Benzene ug/kg
Hole #1	2	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #1	2	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #1	4	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #1	6	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #1	8	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #1	10	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #1	12	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #1	16	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #2	6	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #2	6	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #2	6	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #2	6	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #2	10	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #2	12	soil	03/23/06	<1	<1	**83a**	**288.**	<1	<1	<1
Hole #3	12	soil	03/23/06	<1	**219a**	**36a**	**9.**	**324.**	<1	<1
Hole #4	2	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #4	6	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #4	6	soil	03/23/06	<1	<1	<1	<1	<1	<1	<1
Hole #4	10	soil	03/23/06	<1	**89.4a**	**1.8a**	**16.8**	**158.**	<1	<1
Hole #4	14	soil	03/23/06	<1	**77.9a**	**59[a]**	**57.4**	**121.**	<1	<1
Hole #5	3.8	soil	03/23/06	<1	**1a**	**276a**	<1	2.8	<1	<1
Hole #5	3.8	soil	03/23/06	<1	<1	**32.8a**	<1	<1	<1	<1
Hole #5	6	soil	03/23/06	<1	<1	**272a**	<1	<1	<1	<1
Hole #5	6	soil	03/23/06	<1	<1	**14.1a**	<1	<1	<1	<1

a Probable false detection because of interference from numerous hydrocarbon peaks in chromatogram and identification unreliable.
*Note shaded sample had substantial hydrocarbon interference.

Table 4-13: Blanton Soil Boring Sample Results Collected on March 23, 2006
Oak Grove Village Well Site, OU1, Franklin County, Missouri

- All values listed in parts per million (mg/kg) unless otherwise noted.
- NL denotes benchmark value not listed in reference source.

Sample ID	N. of	N. of	N. of	25' N.	25' N.	SW side	Back	Back	Loading	Loading	Dock	SCDM[2]	EPA PRG[4]		
Sample ID cont., ft	Pad	Pad	Pad	of G4-1	of Slab	of back	of bldg	of bldg	Dock	Dock	@ 6'		Res.	Ind.	Migrn to GW
Laboratory Number	0600071	0600072	0600075	0600078	0600080	0600081	0600083	0600084	0600086	0600087	0600088				
Volatile Organic Compounds (VOCs)															
1,2,4-Trimethylbenzene	<.0025	<.0025	<.0025	<.0025	<.0025	.00261 (e)	<.0025	<.0025	<.0025	<.0125 (i)	<.0025	NL	52	170	NL
acetone	<.05	<.05	<.05	<.05	<.05	< 05	< 05	<.05	.11	<.25 (i)	<.05	70000	14000	54000	16
Benzene	<.0025	<.0025	<.0025	<.0025	<.0025	.0077	<.0025	<.0025	<.0025	<.0125 (i)	<.0025	12	0.64	1.4	0.03
Ethylbenzene	<.0025	<.0025	<.0025	<.0025	<.0025	.0115	<.0025	<.0025	<.0025	<.0125 (i)	<.0025	7800	400	400	13
Isopropylbenzene (Cumene)	<.0025	<.0025	<.0025	<.0025	<.0025	.0146	<.0025	<.0025	<.0025	<.0125 (i)	<.0025	7800	570	2000	NL
Methyl tertiary-butyl ether (MTBE)	<.0025	<.0025	<.0025	<.0025	<.0025	<.0025	< 0025	.00521	.0348	<.0125 (i)	<.0025	NL	32	70	NL
n-Butylbenzene	<.0025	<.0025	<.0025	<.0025	<.0025	.0165	<.0025	<.0025	<.0025	<.0125 (i)	<.0025	NL	240	240	NL
n-Propylbenzene (Isocumene)	<.0025	<.0025	<.0025	< 0025	<.0025	.0522	<.0025	<.0025	<.0025	<.0125 (i)	<.0025	NL	240	240	NL
Naphthalene	<.0125	<.0125	<.0125	<.0125	<.0125	.0225 (e)	<.0125	<.0125	<.0125	<.0625 (i)	<.0125	3100	56	190	84
sec-Butylbenzene	< 0025	<.0025	<.0025	<.0025	<.0025	.00576	<.0025	<.0025	<.0025	<.0125 (i)	<.0025	NL	220	220	NL

[2] SCDM - Superfund Chemical Data Matrix, January 28, 2004, lower of reference dose and cancer risk benchmarks for soil pathway

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, residential and industrial use, and migration to groundwater soil benchmarks (dilution/attenuation factor = 20).

e - Estimated value, detected below PQL

i - PQL elevated due to sample dilution

Table 4-14: Portable GC Results for Highway 185 Garage Soil Borings. Estimated concentrations of selected volatile organic compounds (VOCs) detected by the portable gas-chromatograph in soil samples from property 2 (185 Garage).

[PCE, tetrachloroethene; TCE, trichloroethene; cis-DCE, cis-1,2-dichlroethene; E-Benzene, ethylbenzene; ug/kg, micrograms per kilogram]
[<, less than reporting limit; a, probable false peak because of numerous hydrocarbon peaks in chromatogram]

LOCATION	Date	Depth	PCE ug/kg	TCE ug/kg	cis DCE ug/kg	Benzene ug/kg	Toluene ug/kg	Xylene ug/kg	E-Benzene ug/kg
185 gar, hole2, sample 1	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole2, sample 1	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole2, sample 2	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole2, sample 2	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole3, sample 1	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole3, sample 1	04/13/06		**4.3**	<1	<1	<1	<1	<1	<1
185 gar, hole3, sample 1	04/13/06		**4.7**	<1	1.	<1	<1	<1	<1
185 gar, hole3, sample 2	04/13/06		<1	<1	5.	<1	<1	<1	<1
185 gar, hole3, sample 2	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole3, sample 3	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole3, sample 3	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole4, sample 1	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole4, sample 1	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole4, sample 2	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole4, sample 2	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole5, sample 1	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole5, sample 1	04/13/06		3.8	<1	<1	<1	<1	<1	<1
185 gar, hole5, sample 2	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole5, sample 2	04/13/06		<1	<1	1.	<1	<1	<1	<1
185 gar, hole6, sample 1	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole6, sample 1	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole6, sample 2	04/13/06		<1	<1	<1	<1	<1	<1	<1
185 gar, hole6, sample 2	04/13/06		<1	<1	<1	<1	<1	<1	<1

Table 4-15: Highway 185 Garage Soil Boring Sample Results Collected on April 13, 2006
Oak Grove Village Well Site, OU1, Franklin County, Missouri

- All values listed in parts per million (mg/kg) unless otherwise noted.
- NL denotes benchmark value not listed in reference source.

Sample ID	BH1-1	BH1-2	BH2-1	BH2-2	BH3-1	BH3-2	BH3-3	BH4-1	BH5-1	BH5-2	BH6-1	BH6-2	BH4-2	SCDM[2]	EPA PRG[4]		
Depth of Sample, in or ft	0'-4'	5'	0'-4'	4'-7'	0'-4'	4'-8'	8'-12'	0'-4'	0'-4'	4'-5'	0'-4'	4'-7'	7'-8'		Res.	Ind.	Migrn to GW
Laboratory Number	0604001	0604002	0604003	0604004	0604005	0604006	0604007	0604008	0604009	0604010	0604011	0604012	0604013				
Volatile Organic Compounds (VOCs)																	
1,2,4-Trimethylbenzene	<.0025	< 0025	< 0025	.0026 (e)	<.0025	<.0025	<.005 (i)	<.0025	<.005 (i)	<.0025	<.005 (i)	<.005 (i)	<.005 (i)	NL	52	170	NL
Benzene	<.0025	<.0025	.00317 (e)	.00507	<.0025	.00341 (e)	<.005 (i)	.0025 (e)	<.005 (i)	<.0025	<.005 (i)	<.005 (i)	<.005 (i)	12	0.64	1.4	0.03
Ethylbenzene	<.0025	<.0025	.00281 (e)	.00529	<.0025	<.0025	<.005 (i)	00254 (e)	<.005 (i)	<.0025	<.005 (i)	<.005 (i)	<.005 (i)	7800	400	400	13
Methyl tertiary-butyl ether (MTBE)	<.0025	<.0025	<.0025	<.0025	<.0025	.00989	<.005 (i)	<.0025	<.005 (i)	<.0025	<.005 (i)	<.005 (i)	<.005 (i)	NL	32	70	NL
Toluene	.00631	.00876	.0166	.0291	.00431 (e)	.0185	.00921 (e)	.0139	.014	.011	.0171	<.005 (i)	<.005 (i)	16000	520	520	12
Xylenes (Total)	<.005	<.005	.00692 (e)	.0127	<.005	.00535 (e)	<.01 (i)	.00639 (e)	.011 (e)	.0057 (e)	<.01 (i)	<.01 (i)	<.01 (i)	16000	270	420	210

[2] SCDM - Superfund Chemical Data Matrix, January 28, 2004, lower of reference dose and cancer risk benchmarks for soil pathway

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, residential and industrial use, and migration to groundwater soil benchmarks (dilution/attenuation factor = 20).

e - Estimated value, detected below PQL

i - PQL elevated due to sample dilution

Table 4-16: Wal-Mart Soil Boring Sample Results Collected on November 7 and 8, 2006
Oak Grove Village Well Site, OU1, Franklin County, Missouri

- All values listed in parts per million (mg/kg) unless otherwise noted
- NL denotes benchmark value not listed in reference source
- NA denotes not analyzed

Sample ID	WAL-1	WAL-2	DUP	WAL-4	WAL-3	WAL-5	WAL-6	WAL-7	WAL-15	WAL-10	WAL-11	WAL-12	WAL-13	WAL-14	WAL-17	WAL-16	WAL-8	SCDM[2]	EPA PRG[4]		
Depth of Sample, in or ft	8'-9'	21'-22'		11'-12'	3'-4'	7'-8'	13'-14'	11'-12'	12'-13'	6'-7'	3'-4'	18'-19'	6'-7'	4'-5'	13'-14'	10'-11'	14'-15'		Res.	Ind.	Migrn to GW
Laboratory Number	0608036	0608037	0608038	0608039	0608040	0608041	0608042	0608043	0608044	0608045	0608046	0608047	0608048	0608049	0608050	0608051	0610347				
Metals																					
Chromium, total	30 2	24 3	74 3	33 5	70 4	21 1	33 1	41 2	21 7	26 7	57 9	56 3	55 0	37 2	44 9	39 1	36 2	230	210	450	38
Lead	6 25	7 53	8 75	1 91	8 58	3 21	3 06	6 55	2 84	13 2	7 88	14 7	10 1	14 1	24 3	14 0	5 67	NL	400	750	NL
Volatile Organic Compounds (VOCs)																					
1,2,4-Trimethylbenzene	< 0025	< 0025	< 0025	< 0025	00433 (e)	< 0025	< 0025	< 0025	< 0025	< 0025	< 0125 (1)	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	NL	52	170	NL
acetone	< 05	< 05	< 05	< 05	< 05	< 05	< 05	< 05	< 05	< 05	< 25 (1)	< 05	< 05	< 05	< 05	0956 (e)	< 05	70000	14000	54000	16
carbon disulfide	< 0025	00378 (e)	0035 (e)	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0125 (1)	< 0025	< 0025	< 0025	< 0025	00298 (e)	< 0025	7800	360	720	32
Ethylbenzene	< 0025	< 0025	< 0025	< 0025	00909	< 0025	< 0025	< 0025	< 0025	< 0025	< 0125 (1)	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	7800	400	400	13
Methylene chloride	< 05	< 05	< 05	< 05	108	< 05	< 05	< 05	< 05	< 05	< 25 (1)	< 05	< 05	< 05	< 05	< 05	< 05	85	9 1	21	0 02
Methylmethacrylate	< 0025	< 0025	0101	< 0025	0274	00634	< 0025	< 0025	< 0025	< 0025	< 0125 (1)	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	NL	2200	2700	NL
p-Isopropyltoluene (p-Cymene)	< 0025	< 0025	< 0025	< 0025	00452 (e)	< 0025	< 0025	< 0025	< 0025	< 0025	< 0125 (1)	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	NL	NL	NL	NL
Tetrachloroethene (PCE)	< 0025	< 0025	< 0025	< 0025	0299	< 0025	00416 (e)	< 0025	< 0025	< 0025	< 0125 (1)	< 0025	00264 (e)	< 0025	< 0025	0236	< 0025	12	0 48	1 3	0 06
Toluene	< 0025	< 0025	01	< 0025	0809	00628	0109	< 0025	< 0025	00914	0142 (e)	00686	00855	00683	< 0025	0504	< 0025	16000	520	520	12
Xylenes (Total)	< 005	< 005	< 005	< 005	028	< 005	< 005	< 005	< 005	< 005	< 025 (1)	< 005	< 005	< 005	< 005	< 005	< 005	16000	270	420	210

[2] SCDM - Superfund Chemical Data Matrix, January 28, 2004, lower of reference dose and cancer risk benchmarks for soil pathway

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, residential and industrial use, and migration to groundwater soil benchmarks (dilution/attenuation factor = 20)

e - Estimated value detected below PQL

1 - PQL elevated due to sample dilution

Table 4-17: Ditch Witch Soil Boring Sample Results Collected on August 14 and 15, 2006
Oak Grove Village Well Site, OU1, Franklin County, Missouri

- All values listed in parts per million (mg/kg) unless otherwise noted
- NL denotes benchmark value not listed in reference source
- NA denotes not analyzed

Sample ID	SB-01	SB-02	SB-17	SB-03	Dup	SB-04	SB-06	SB-16	SB-15	SB-05	SB-07	SB-13	SB-08	SB-14	SB-09	SB-10	SB-11	SB-12	SCDM[2]	EPA PRG[4]		
Depth of Sample, in or ft	12'	16'-17'	14'	8.5'-9.5'		10'-11'	5'-6'	10'	13'-14'	3'-4'	7'-8'	11'-12'	5'-6'	7'-8'	2'-3'	6'-7'	7'-8'	7'-8'		Res.	Ind.	Migrn to GW
Laboratory Number	0603023	0603024	0603025	0603026	0603027	0603028	0603029	0603030	0603031	0603032	0603033	0603034	0603035	0603036	0603037	0603038	0603039	0603040				
Metals																						
Chromium, total	23 7	24 4	31 1	NA	NA	NA	NA	NA	23 8	30 5	48 7	55 4	51 7	56 6	38 4	53 6	50 4	NA	230	210	450	38
Lead	5 87	3 89	18 9	NA	NA	NA	NA	NA	2 78	12 7	11 4	10 3	21 8	9 17	12 6	9 41	18 4	NA	NL	400	750	NL
Volatile Organic Compounds (VOCs)																						
1,2,4-Trimethylbenzene	< 0025	0364	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	112	< 0025	< 0025	< 0025	NL	52	170	NL
1,3,5-Trimethylbenzene	< 0025	0118	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 025 (1)	< 0025	< 0025	< 0025	NL	21	70	NL
1,4-Dichlorobenzene	< 0025	0166	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 025 (1)	< 0025	< 0025	< 0025	27	3 4	7 9	2
acetone	< 05	< 05	0529 (e)	< 05	< 05	< 05	< 05	< 05	< 05	0893 (e)	< 05	< 05	< 05	< 05	< 5 (1)	< 05	< 05	< 05	70000	14000	54000	16
carbon disulfide	< 0025	00937	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 025 (1)	< 0025	< 0025	< 0025	7800	360	720	32
Chlorobenzene	< 0025	0454	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 025 (1)	< 0025	< 0025	< 0025	1600	150	530	1
Isopropylbenzene (Cumene)	< 0025	00301 (e)	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 025 (1)	< 0025	< 0025	< 0025	7800	570	2000	NL
Methyl tertiary-butyl ether (MTBE)	< 0025	< 0025	< 0025	038	041	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 025 (1)	< 0025	< 0025	< 0025	NL	32	70	NL
n-Butylbenzene	< 0025	0214	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 025 (1)	< 0025	< 0025	< 0025	NL	240	240	NL
n-Propylbenzene (Isocumene)	< 0025	00859	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 025 (1)	< 0025	< 0025	< 0025	NL	240	240	NL
p-Isopropyltoluene (p-Cymene)	< 0025	00897	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 025 (1)	< 0025	< 0025	< 0025	NL	NL	NL	NL
sec-Butylbenzene	< 0025	00932	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 025 (1)	< 0025	< 0025	< 0025	NL	220	220	NL
Tetrachloroethene (PCE)	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	118	< 0025	< 0025	< 0025	12	0 48	1 3	0 06
Trichloroethene (TCE)	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	< 0025	199	< 0025	< 0025	< 0025	58	0 053	0 11	0 06
Petroleum Hydrocarbons																						
No 2 Diesel	<13 2	<14 7	<12 3	NA	NA	NA	NA	NA	<13 0	22 0 (e)	<13 7	<14 2	<13 6	<13 7	<13 3	<13 4	<13 1	NA	NL	NL	NL	NL
TPH-ORO	<13 2	<14 7	<12 3	NA	NA	NA	NA	NA	<13 0	<12 4	<13 7	<14 2	<13 6	<13 7	330 0	<13 4	<13 1	NA	NL	NL	NL	NL

[2] SCDM - Superfund Chemical Data Matrix, January 28, 2004, lower of reference dose and cancer risk benchmarks for soil pathway

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, residential and industrial use, and migration to groundwater soil benchmarks (dilution/attenuation factor = 20)

e - Estimated value, detected below PQL

1 - PQL elevated due to sample dilution

Table 4-18: Additional Ditch Witch Soil Boring Sample Results Collected on September 26, 2006
Oak Grove Village Well Site, OU1, Franklin County, Missouri

- All values listed in parts per million (mg/kg) unless otherwise noted
- NL denotes benchmark value not listed in reference source
- NA denotes not analyzed

Sample ID	SB-18	SB-19	SB-20	SB-21	Trip Blank	SCDM[2]	EPA PRG[4]		
Depth of Sample, in or ft	4'-5'	4'-5'	4'-5'				Res.	Ind.	Migrn to GW
Laboratory Number	0608009	0608010	0608011	0608012	0608016				
Metals									
Chromium, total	28 9	38 9	19 2	21 2	52 1	230	210	450	38
Lead	13 7	75 5	10 4	12 5	14 6	NL	400	750	NL
Volatile Organic Compounds (VOCs)									
1,2,4-Trimethylbenzene	< 0025	0267	< 0025	< 0025	< 0025	NL	52	170	NL
1,3,5-Trimethylbenzene	< 0025	00551	< 0025	< 0025	< 0025	NL	21	70	NL
Benzene	< 0025	0142	< 0025	< 0025	< 0025	12	0 64	1 4	0 03
cis-1,2-dichloroethene	< 0025	105	< 0025	< 0025	< 0025	780	43	150	0 4
Ethylbenzene	< 0025	00636	< 0025	< 0025	< 0025	7800	400	400	13
Isopropylbenzene (Cumene)	< 0025	00405 (e)	< 0025	< 0025	< 0025	7800	570	2000	NL
Methyl tertiary-butyl ether (MTBE)	< 0025	0642	< 0025	< 0025	< 0025	NL	32	70	NL
n-Butylbenzene	< 0025	00689	< 0025	< 0025	< 0025	NL	240	240	NL
n-Propylbenzene (Isocumene)	< 0025	00584	< 0025	< 0025	< 0025	NL	240	240	NL
Naphthalene	< 0125	0142 (c)	< 0125	< 0125	< 0125	3100	56	190	84
Tetrachloroethene (PCE)	< 0025	0169	< 0025	< 0025	< 0025	12	0 48	1 3	0 06
Toluene	< 0025	00343 (e)	< 0025	< 0025	< 0025	16000	520	520	12
trans-1,2-Dichloroethene	< 0025	00305 (c)	< 0025	< 0025	< 0025	1600	69	230	0 7
Trichloroethene (TCE)	< 0025	153	00486 (e	< 0025	< 0025	58	0 053	0 11	0 06
Xylenes (Total)	< 005	013	< 005	< 005	< 005	16000	270	420	210

[2] SCDM - Superfund Chemical Data Matrix, January 28, 2004, lower of reference dose and cancer risk benchmarks for soil pathway

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, residential and industrial use, and migration to groundwater soil benchmarks (dilution/attenuation factor = 20)

e - Estimated value, detected below PQL

Table 4-19 : Winsel Creek Soil Boring Results Collected on September 26, 2006
Oak Grove Village Well Site, OU1, Franklin County, Missouri

- All values listed in parts per million (mg/kg) unless otherwise noted.
- NL denotes benchmark value not listed in reference source

Sample ID	WC-1	WC-2	WC-3	Trip Blank	SCDM[2]	EPA PRG[4]		
Depth of Sample, in or ft	8'-10'	8'-10'	17'-18.5'			Res.	Ind.	Migrn to GW
Laboratory Number	0608013	0608014	0608015	0608016				
Metals								
Chromium, total	36 0	42 3	128 0	52 1	230	210	450	38
Lead	25 8	20 3	18 6	14 6	NL	400	750	NL

[2] SCDM - Superfund Chemical Data Matrix, January 28, 2004, lower of reference dose and cancer risk benchmarks for soil pathway

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, residential and industrial use, and migration to groundwater soil benchmarks (dilution/attenuation factor = 20)

Table 4-20: Winsel Creek Surface Water Sample Results Collected on September 26, 2006
Oak Grove Village Well Site, OU1, Franklin County, Missouri

- All values listed in parts per billion (ug/l) unless otherwise noted
- NL denotes benchmark value not listed in reference source
- NA denotes not analyzed

Sample ID	Trip Blank	WC Outfall	SCDM[2]			MO WQS[3]			
Laboratory Number	0603041	0603044	MCL	SC	CMC/CCC	DW / GW	Aq. Life	Fish Consmp	Irr. / Lvstock
Metals									
Chromium, total	NA	3 08	100	110	NL	100	42	NL	100
Chromium, total, dissolved	NA	1 69	100	180	74	100	42	NL	100
Volatile Organic Compounds (VOCs)									
1,2,3-Trichlorobenzene	54 (e)	< 5	NL	NL	NL	NL	NL	NL	NL
1,2,4-Trichlorobenzene	< 25	44 (e)	70	360	NL	70	NL	940	NL
Hexachlorobutadiene	28 (e)	< 25	NL	1 1	NL	0 45	NL	50	NL
n-Butylbenzene	26 (e)	25 (e)	NL	NL	NL	NL	NL	NL	NL
Naphthalene	< 5	6 (e)	NL	1500	NL	20	NL	NL	NL

[2] SCDM - Superfund Chemical Data Matrix, January 28, 2004, maximum contaminant level (MCL), lowest of reference dose and cancer risk screening concentrations (SC) for groundwater/surface water pathway, drinking water, and lower of criteria maximum concentration and criteria continuous concentration (CMC/CCC)

[3] MO WQS - Missouri Water Quality Standards, benchmarks for drinking water, groundwater, protection of aquatic life, fish consumption, irrigation/livestock watering use categories, Missouri Code of State Regulations, 10 CSR 20-7 031, October 31, 1999

e - Estimated value, detected below PQL

Table 4-21: Water-level measurements in selected monitoring wells and domestic wells, April 10, 2007.

Well Name	Date	Time	SWL (feet)	Description of SWL measuring point	Elevation of measuring point (feet)	Water altitude (feet)
MW1	4/10/2007	1050	156 6	top PVC	861.1	704 5
MW1A	4/10/2007	1052	127.61	top PVC	861.1	733.49
MW3	4/10/2007	940	202.33	top 6-in steel	938 63	736.3
MW4	4/10/2007	947	161.4	top PVC	946 83	785.43
MW5	4/10/2007	935	184.68	top PVC	955.46	770 78
WH1 (White house)	4/10/2007	850	191.41	basement floor	957	765.59

Note SWL = static water level depth in feet

Table 4-22: Summary of OGV02 DNR Sampling
Post-Phase II Remedial Investigation
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Date	Pumping Rate (gpm)	Time Pumped before Sampling	TCE (µg/l)	Cis-1,2-DCE (µg/l)	CFC-11 (µg/l)
May 2005	150	About 1½ hours	60.0	1.04	ND
July 2005	125	Over 3 hours	119	2.27	0.97
October 2005	150	Over 3 hours	60.1	1.38	0.54
June 2006	125	Over 3 hours	76.2	1 57	1.39
October 2006	125	About ½ hour	7.35	0.34	ND

Table 4-23: City of Sullivan Municipal Wells
Post-Phase II Remedial Investigation
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Well Designation	Total Depth (feet)	Highest TCE Detection (µg/l)	Date of Highest TCE Detection
COS01	805	NS	
COS02	850	52.9	06/06
COS03	905	2.8	06/01
COS04	810	ND	
COS05	655	ND	
COS06	850	ND	
COS07	670	1.4	11/99
COS08	965	11.5	11/99
COS09	775	4.2	09/03
COS10	1840	3.3	08/01
COS11	890	4.6	06/02

Notes·
1 NS = not sampled during the original RI and Post-Phase II RI due to closure.
2. ND = non-detect

Table 5-3: Cost for Alternative I: No Action
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Description	Total Capital	Periodic Cost	Total O&M/Year
Response Action 1	Five-Year Reviews	$0	$50,000*	$0
Total of All Components		**$0**	**$50,000***	**$0**

Cost Type	Year	Total Cost	Discount Factor (%)	Present Value
Periodic Cost*	5	$50,000	0 713	$35,650
Periodic Cost*	10	$50,000	0 508	$25,400
Periodic Cost*	15	$50,000	0 362	$18,100
Periodic Cost*	20	$50,000	0.258	$12,900
Periodic Cost*	25	$50,000	0 184	$9,200
Periodic Cost*	30	$50,000	0.131	$6,550
		$300,000		$107,800

Cost Type	Total Cost	Total Cost per Year	Discount Factor (%)	Present Value
Capital Costs	$0	$0	1.000	$0
O&M Costs	$0	$0	12.409	$0
Periodic Costs	$300,000	See Above	See Above	$107,800
Total Costs	$300,000			$107,800

Present Worth Calculations for Alternative I

1. Estimated Capital Cost: $0
2. Estimated O&M Costs. $0
3. Periodic Costs: $300,000
4. Total Costs: $300,000
5. Estimated Present Worth Costs: $107,800

Present Worth Calculation:

Present Worth = Total Capital plus Total O&M/Year multiplied by the multi-year discount factor plus the Total Periodic Costs

PW = $0 + (($0 x 12.409) + $107,800) = $107,800

Notes:

*The Periodic Cost is for Five-Year Reviews, which will be completed every five years for 30-years due to contamination left in-place in OU1.

Reference: A Guide to Developing and Documenting Cost Estimates During the Feasibility Study, July 2000, OSWER 9355.0-75.

Table 5-4: Cost for Alternative II: Treatment at Private Wellheads and Groundwater Monitoring
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Description	Total Capital	Periodic Cost	Total O&M/Year
Response Action 1	Five-Year Reviews	$0	$50,000*	$0
Response Action 2	Educational Material	$5,000		$0*
Response Action 3	Plug & Abandon OGV01	$25,503		$0
Response Action 4	Groundwater Monitoring	$5,000		$42,400*
Response Action 5	Treatment at Wellhead	$4,200		$2,700
Total of All Components		**$37,708**	**$50,000**	**$45,100**

Cost Type	Year	Total Cost	Discount Factor (%)	Present Value
Periodic Cost*	5	$50,000	0.713	$35,650
Periodic Cost*	10	$50,000	0.508	$25,400
Periodic Cost*	15	$50,000	0.362	$18,100
Periodic Cost*	20	$50,000	0.258	$12,900
Periodic Cost*	25	$50,000	0.184	$9,200
Periodic Cost*	30	$50,000	0 131	$6,550
		$300,000		$107,800

Cost Type	Total Cost	Total Cost per Year	Discount Factor (%)	Present Value
Capital Costs	$39,708		1.000	$39,708
O&M Costs	$1,353,000	$45,100	12.409	$559,646
Periodic Costs	$300,000	See Above	See Above	$107,800
Total Costs	$1,690,708	$45,100		$705,154

Present Worth Calculations for Alternative II

1. Estimated Capital Cost: $37,708
2. Estimated O&M Costs: $1,353,000
3. Periodic Costs: $300,000
4. Total Costs: $1,690,708
5. Estimated Present Worth Costs: $705,154

Present Worth Calculation:

Present Worth = Total Capital plus Total O&M/Year multiplied by the multi-year discount factor plus the Total Periodic Costs

PW = $37,708 + (($45,100 x 12.409) + $107,800) = $705,154

Notes:

1. *The Periodic Cost includes Five-Year Reviews, which will be completed every five years for 30-years due to contamination left in-place in OU1.
2. *Capital Costs of RA 2 includes the development of Educational Materials for owners of contaminated wells and for drillers installing new wells in the impacted areas. Part of the Five-Year Reviews will include a review and update as needed of the Educational Materials
3. *Capital Costs for the Action 4 includes an on-site Well Survey and the development of a Well Inventory to assist in groundwater monitoring. The cost includes a crew of two on-site for 2-days, with an overnight stay. Part of the Five-Year Reviews will include a review and update as needed of the Well Inventory.
4. Groundwater sampling costs includes 2 events per year.
5. See Appendix B Post- Phase II Feasibility Study for cost breakdown and assumptions.

Reference: A Guide to Developing and Documenting Cost Estimates During the Feasibility Study, July 2000, OSWER 9355.0-75.

Table 5-5: Cost for Alternative III: Alternative Water Supply/Treatment at Private Wellheads and Groundwater Monitoring
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Description	Total Capital	Periodic Cost	Total O&M/Year
Response Action 1	Five-Year Reviews	$0	$50,000*	$0
Response Action 2	Educational Material	$5,000		$0*
Response Action 3	Plug & Abandon OGV01	$25,503		$0
Response Action 4	Groundwater Monitoring	$5,000		$42,400*
Response Action 5	Treatment at Wellhead	$4,200		$2,700
Response Action 6	Alternative Water Supply	$288,213		$7,000
Total of All Components		**$327,916**	**$50,000**	**$52,100**

Cost Type	Year	Total Cost	Discount Factor (%)	Present Value
Periodic Cost*	5	$50,000	0.713	$35,650
Periodic Cost*	10	$50,000	0.508	$25,400
Periodic Cost*	15	$50,000	0 362	$18,100
Periodic Cost*	20	$50,000	0.258	$12,900
Periodic Cost*	25	$50,000	0.184	$9,200
Periodic Cost*	30	$50,000	0.131	$6,550
		$300,000		$107,800

Cost Type	Total Cost	Total Cost per Year	Discount Factor (%)	Present Value
Capital Costs	$327,916		1.000	$327,916
O&M Costs	$1,563,000	$52,100	12.409	$646,509
Periodic Costs	$300,000	See Above	See Above	$107,800
Total Costs	$2,190,916	$52,100		$1,082,225

Present Worth Calculations for Alternative III

1. Estimated Capital Cost: $327,916
2. Estimated O&M Costs: $1,563,000
3. Periodic Costs: $300,000
4. Total Costs: $2,190,916
5. Estimated Present Worth Costs: $1,082,225

Present Worth Calculation:

Present Worth = Total Capital plus Total O&M/Year multiplied by the multi-year discount factor plus the Total Periodic Costs

PW = $327,916 + (($52,100 x 12.409) + $107,800) = $1,082,225

Notes:

1. *The Periodic Cost includes Five-Year Reviews, which will be completed every five years for 30-years due to contamination left in-place in OU1.
2. *Capital Costs of RA 2 includes the development of Educational Materials for owners of contaminated wells and for drillers installing new wells in the impacted areas. Part of the Five-Year Reviews will include a review and update as needed of the Educational Materials.
3. *Capital Costs for the Action 4 includes an on-site Well Survey and the development of a Well Inventory to assist in groundwater monitoring. The cost includes a crew of two on-site for 2-days, with an overnight stay. Part of the Five-Year Reviews will include a review and update as needed of the Well Inventory.
4. Groundwater sampling costs includes 2 events per year.
5. See Appendix B Post- Phase II Feasibility Study for cost breakdown and assumptions.

Reference: A Guide to Developing and Documenting Cost Estimates During the Feasibility Study, July 2000, OSWER 9355.0-75.

Table 5-6: Cost for Alternative IV: Treatment at Wellhead Private Wellheads, Groundwater Monitoring, and Operation/Monitoring of Air Stripper
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Description	Total Capital	Periodic Cost	Total O&M/Year
Response Action 1	Five-Year Reviews	$0	$50,000*	$0
Response Action 2	Educational Material	$5,000		$0*
Response Action 3	Plug & Abandon OGV01	$25,503		$0
Response Action 4	Groundwater Monitoring	$5,000		$42,400*
Response Action 5	Treatment at Wellhead	$4,200		$2,700
Response Action 7	Operation/Monitoring of Air Stripper	$0		$3,367*
Total of All Components		**$39,703**	**$50,000**	**$48,467**

Cost Type	Year	Total Cost	Discount Factor (%)	Present Value
Periodic Cost*	5	$50,000	0 713	$35,650
Periodic Cost*	10	$50,000	0 508	$25,400
Periodic Cost*	15	$50,000	0.362	$18,100
Periodic Cost*	20	$50,000	0 258	$12,900
Periodic Cost*	25	$50,000	0 184	$9,200
Periodic Cost*	30	$50,000	0.131	$6,550
		$300,000		$107,800

Cost Type	Total Cost	Total Cost per Year	Discount Factor (%)	Present Value
Capital Costs	$327,916		1.000	$327,916
O&M Costs	$1,563,000	$52,100	12.409	$646,509
Periodic Costs	$300,000	See Above	See Above	$107,800
Total Costs	$2,190,916	$52,100		$1,082,225

Present Worth Calculations for Alternative III

1. Estimated Capital Cost: $327,916
2. Estimated O&M Costs: $1,563,000
3. Periodic Costs: $300,000
4. Total Costs: $2,190,916
5. Estimated Present Worth Costs: $1,082,225

Present Worth Calculation:

Present Worth = Total Capital plus Total O&M/Year multiplied by the multi-year discount factor plus the Total Periodic Costs

PW = $327,916 + (($52,100 x 12.409) + $107,800) = $1,082,225

Component	Capital	O&M/Year
Response Action 1	$0	$16,407*
Response Action 2	$5,000	$0*
Response Action 3	$25,503	$0
Response Action 4	$5,000	$42,400*
Response Action 5	$4,200	$2,700
Response Action 7	$0	$3,367**
Total of All Components	**$47,680**	**$50,114**

Present Worth Calculations for Alternative IV

1. Present Worth of Capital Costs. $47,680
2. Present Worth of O&M Costs: $1,093,637
3. Combined Present Worth: **$1,141,317**

Present Worth Calculation:

Present Worth = Total Capital plus Total O&M/Year multiplied by the multi-year discount factor plus the Total Periodic Costs

PW = $47,680 + (($48,467 x 12.409) + $492,210) = $1,141,317

Notes:

1. *The Periodic Cost includes Five-Year Reviews, which will be completed every five years for 30-years due to contamination left in-place in OU1.
2. *Initial Costs of ICs includes development of Informational Literature for owners of contaminated wells and for drillers installing new wells. Part of the Five-Year Reviews will include a review and update as needed of the ICs.
3. *Capital costs for the Action 4 includes the Well Survey and Inventory The cost includes a crew of two on-site for 2-days, with an overnight stay. Part of the Five-Year Reviews will include a review and update as needed of the Well Survey and Inventory.
4 Groundwater sampling costs includes (50 samples + 5 duplicates) x 2 events per year for a total of 110 samples/year
5. **O&M Costs for Air Stripper sampling assumes 4 sampling events/year, where 2 events will be coupled with the semi-annual groundwater sampling events and 2 additional events will be conducted.

See Appendix B of Phase II Feasibility Study for cost breakdown and assumptions. Due to cost increases since completion of the Phase II Feasibility Study, adjustments were made to the initial costs for Capital Costs and O&M Costs/year

Reference. A Guide to Developing and Documenting Cost Estimates During the Feasibility Study, July 2000, OSWER 9355.0-75. Assume 7% discount factor for 30 years From Exhibit 4-6 the multi-year discount factor for 30 years is 12 41.

Table 5-7: Cost for Alternative V: Alternative Water Supply/Treatment at Private Wellheads, Groundwater Monitoring, and Operation/Monitoring of Air Stripper
Interim Proposed Plan
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Description	Total Capital	Periodic Cost	Total O&M/Year
Response Action 1	Five-Year Reviews	$0	$50,000*	$0
Response Action 2	Educational Material	$5,000		$0*
Response Action 3	Plug & Abandon OGV01	$25,503		$0
Response Action 4	Groundwater Monitoring	$5,000		$42,400*
Response Action 5	Treatment at Wellhead	$4,200		$2,700
Response Action 6	Alternative Water Supply	$288,213		$7,000
Response Action 7	Operation/Monitoring of Air Stripper	$0		$3,367*
Total of All Components		**$327,916**	**$50,000**	**$55,467**

Cost Type	Year	Total Cost	Discount Factor (%)	Present Value
Periodic Cost*	5	$50,000	0.713	$35,650
Periodic Cost*	10	$50,000	0.508	$25,400
Periodic Cost*	15	$50,000	0 362	$18,100
Periodic Cost*	20	$50,000	0.258	$12,900
Periodic Cost*	25	$50,000	0 184	$9,200
Periodic Cost*	30	$50,000	0.131	$6,550
		$300,000		$107,800

Cost Type	Total Cost	Total Cost per Year	Discount Factor (%)	Present Value
Capital Costs	$327,916		1 000	$327,916
O&M Costs	$1,664,010	$55,467	12.409	$688,290
Periodic Costs	$300,000	See Above	See Above	$107,800
Total Costs	$2,291,926	$55,467		$1,124,006

Present Worth Calculations for Alternative V

1. Estimated Capital Cost. $327,916
2. Estimated O&M Costs· $1,664,010
3. Periodic Costs: $300,000
4. Total Costs· $2,291,926
5. Estimated Present Worth Costs: $1,124,006

Present Worth Calculation·

Present Worth = Total Capital plus Total O&M/Year multiplied by the multi-year discount factor plus the Total Periodic Costs

PW = $327,916 + (($55,467 x 12.409) + $107,800) = $1,124,006

Notes:

1. *The Periodic Cost includes Five-Year Reviews, which will be completed every five years for 30-years due to contamination left in-place in OU1.
2. *Capital Costs of Action 2 includes development of Educational Materials for owners of contaminated wells and for drillers installing new wells. Part of the Five-Year Reviews will include a review and update as needed of the Educational Materials.
3. *Capital Costs for the Action 4 includes the Well Survey and Inventory The cost includes a crew of two on-site for 2-days, with an overnight stay Part of the Five-Year Reviews will include a review and update as needed of the Well Survey and Inventory. Groundwater sampling costs includes (50 samples + 5 duplicates) x 2 events per year for a total of 110 samples/year.
4. *O&M Costs for Air Stripper sampling assumes 4 sampling events/year, where 2 events will be coupled with the semi-annual groundwater sampling events and 2 additional events will be conducted. Part of the Five-Year Reviews will include a review of calculations and confirmation of the viability of the air stripper on OGV02.

See Appendix See Appendix B of Phase II Feasibility Study and Post- Phase II Feasibility Study for cost breakdown and assumptions. Due to cost increases since completion of the Phase II Feasibility Study, adjustments were made to the initial costs for Capital Costs and O&M Costs/year.

Reference: A Guide to Developing and Documenting Cost Estimates During the Feasibility Study, July 2000, OSWER 9355 0-75. Assume 7% discount factor for 30 years From Exhibit 4-6 the multi-year discount factor for 30 years is 12.409.

FIGURES

Figure 1: Base Map and Drinking Water, Spring and Surface Water Sampling Map Oak Grove Village Well Site 2000 - 2007

Legend

- Spring Sample
- Surface Water Sample
- Private Drinking Water Well Sample

Figure 2: Soils and Tree Core Sampling Maps
Oak Grove Village Well Site
2000 - 2006

Legend

Tree Core Sample

Soil Sample

Road

Major River

Deep well (public-supply or montioring well)

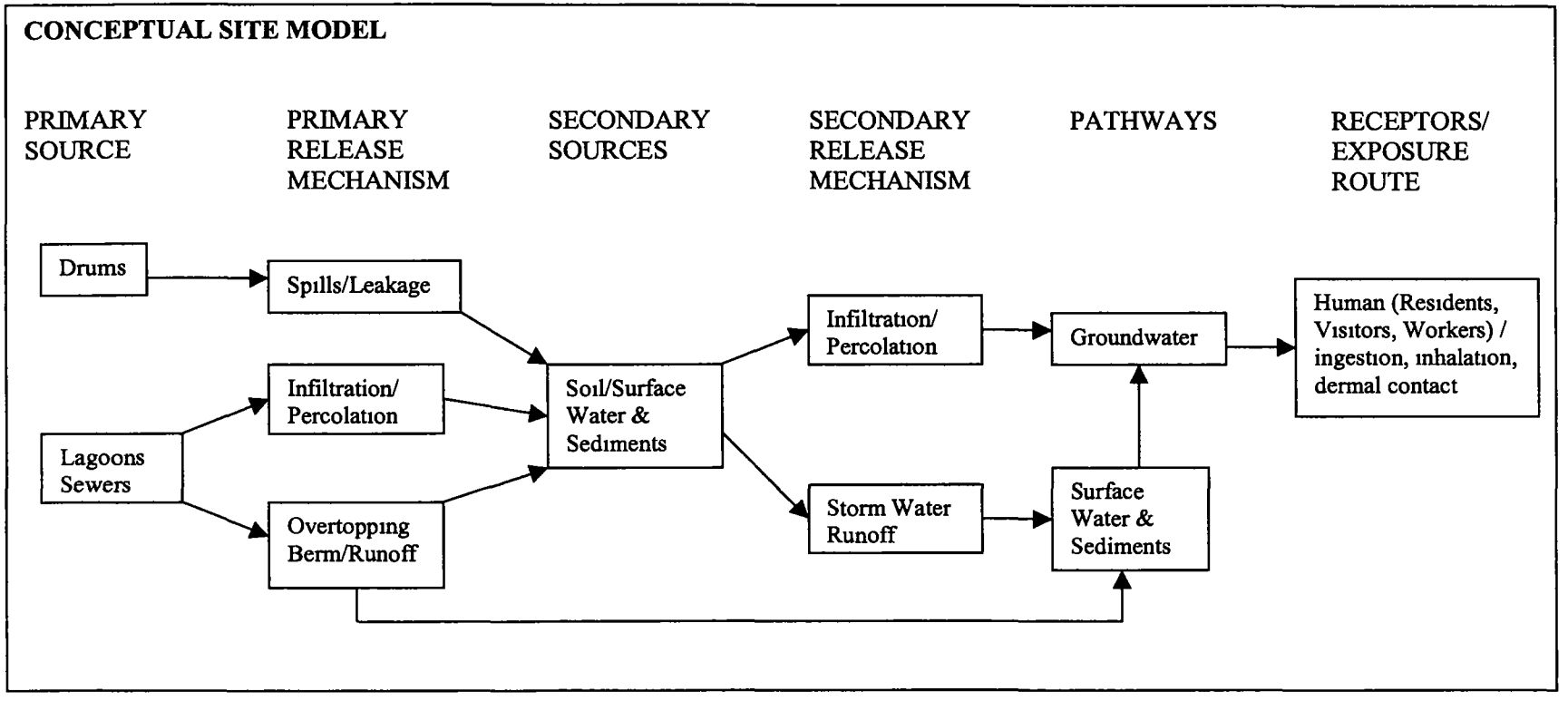
Shallow well (domestic or montioring well)

Partially completed monitoring well

0 1,000 2,000 3,000 4,000 5,000 Feet

Figure 3: Residential, Municipal, and Monitoring Well Locations, Post-Phase II RI, Oak Grove Village Well Site, OU1, Oak Grove Village, Missouri,

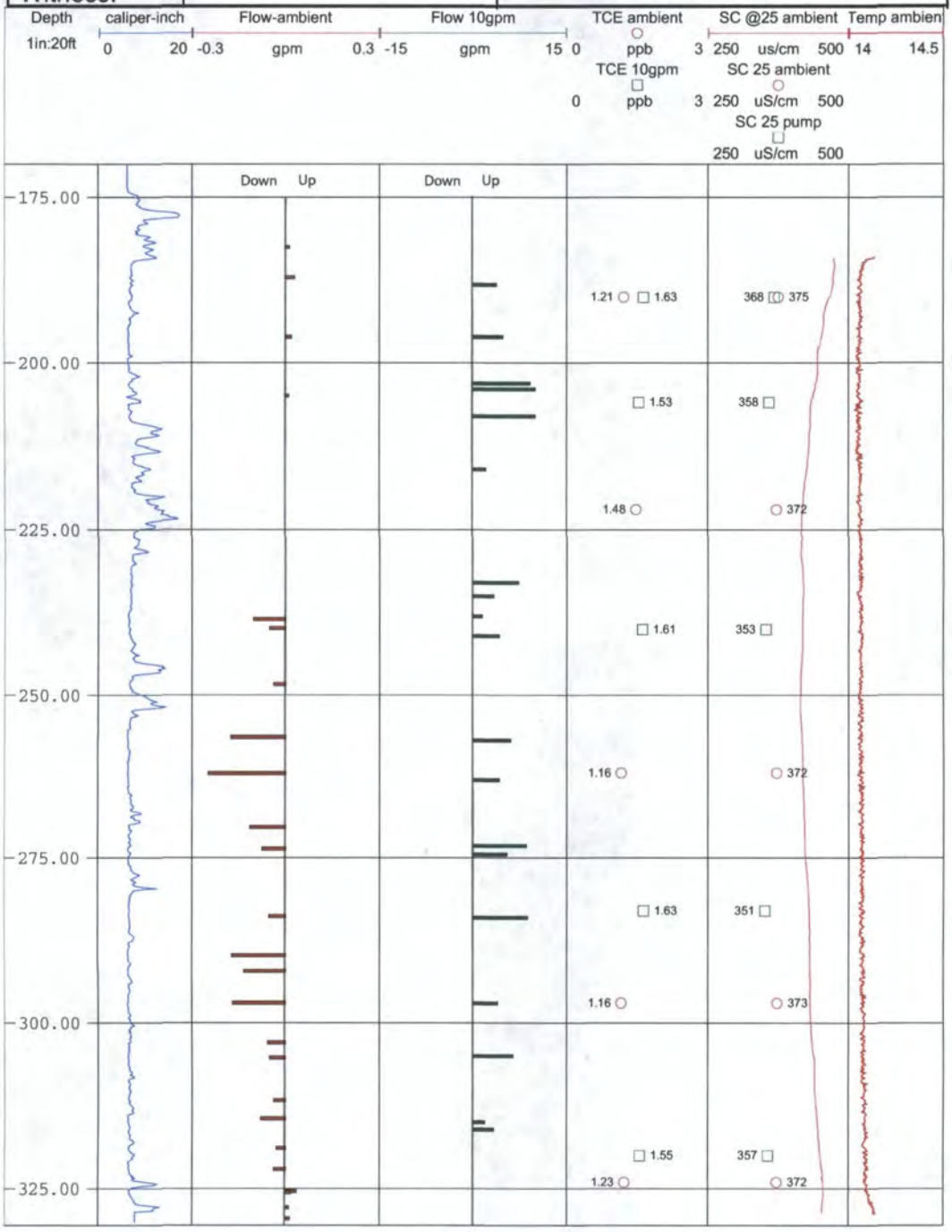
Figure 4: Conceptual Site Model for OU1
Post-Phase II Remedial Investigation
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri



COMPANY:	U.S. Geological Survey
Location:	Sullivan, Missouri

Well	Peterson Well		
Date	1/31 - 2/14/06	BH Fluid	Water
Casing	6-inch steel to 175 ft		
File Name	peterson_101606.wcl		
Depth Driller			
Depth Logger	depths from land surface		
Logged by:	D. Mugel		
Witness:			

Figure 5: Geophysical Logging of AF-P Residential Well, Post-Phase II RI, Oak Grove Village Well Site, OU1, Oak Grove Village, Missouri,



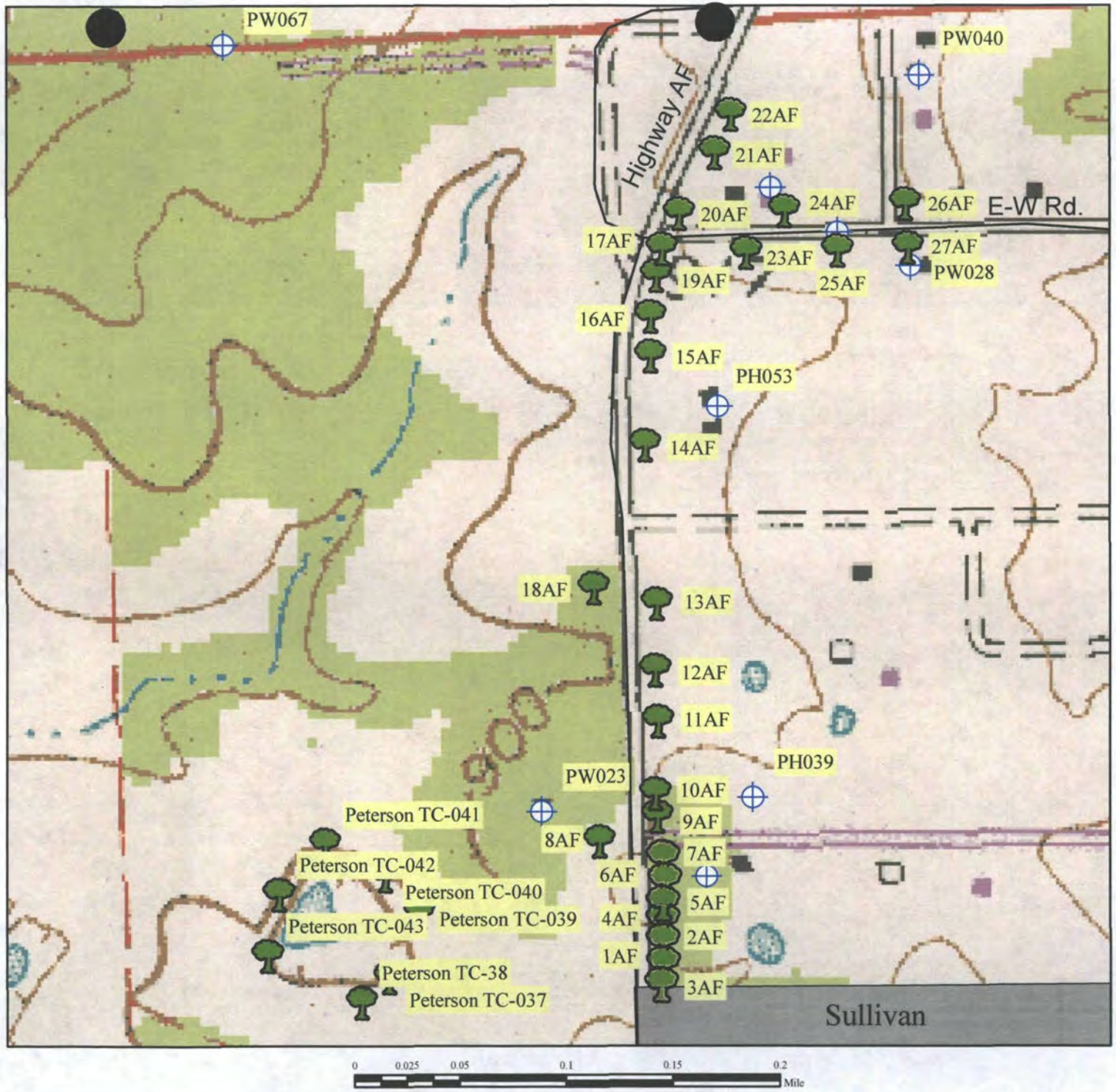


Figure 6: Location of Highway AF Tree Core Samples, Post-Phase II Remedial Investigation
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri
Franklin County

Legend
- Tree Core Sample Location
- Private Drinking Water Wells

Map Created in March 2007 by Valerie Wilder and named Val Map 7.
Edited June 6, 2007 by Shelly Jackson. This map is locatated at M/Superfund/Oak_Grove_Village/Figure_6_AF_EW_TreeCore.mxd

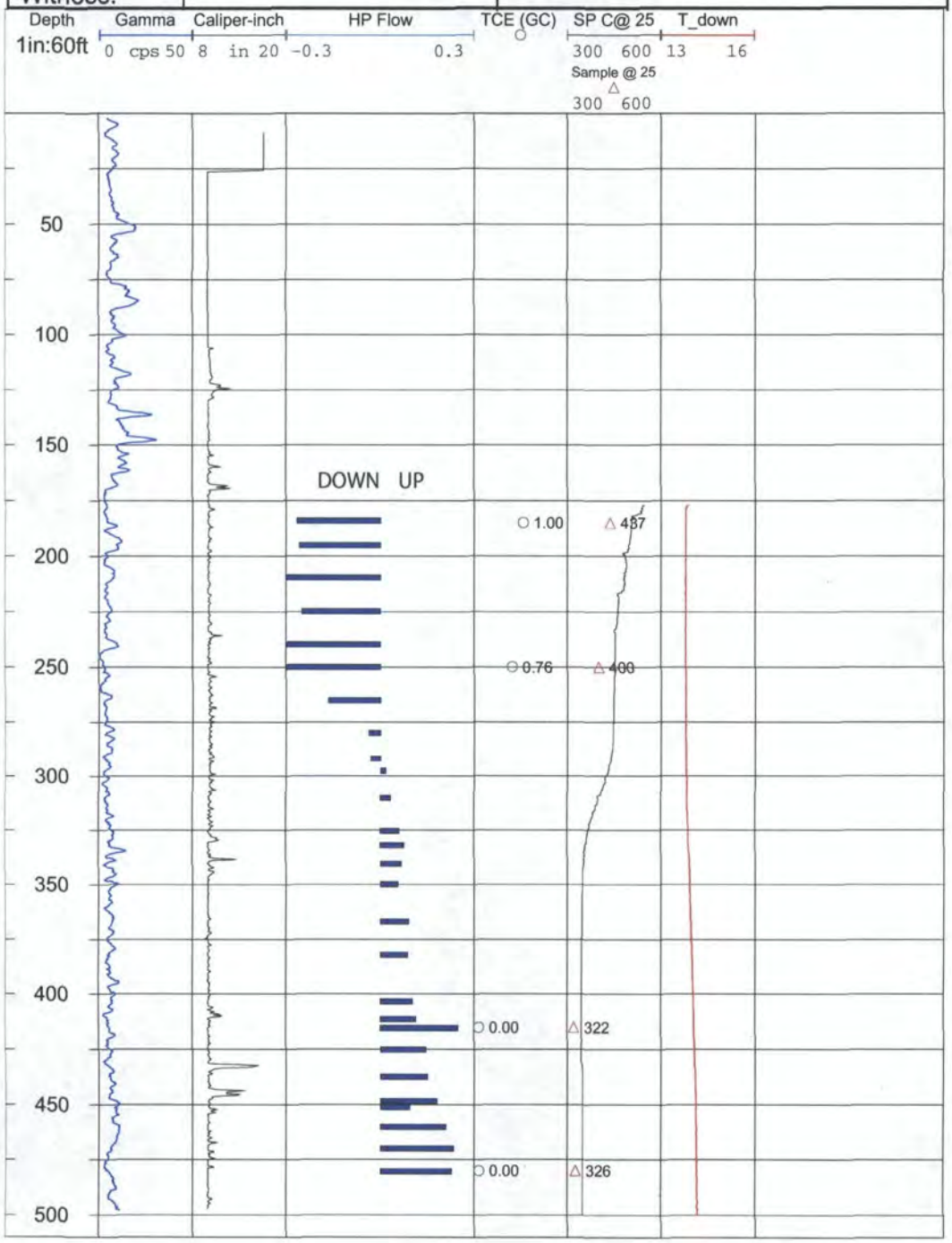
Base Maps: Digital Raster Graphic 1:24,000 USGS Topgraphic Map, 7.5 Minute Series

Although data sets used to create this map have been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the accuracy of the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials. Tree Core Locations along Highway AF and East-West Road are approximate locations.

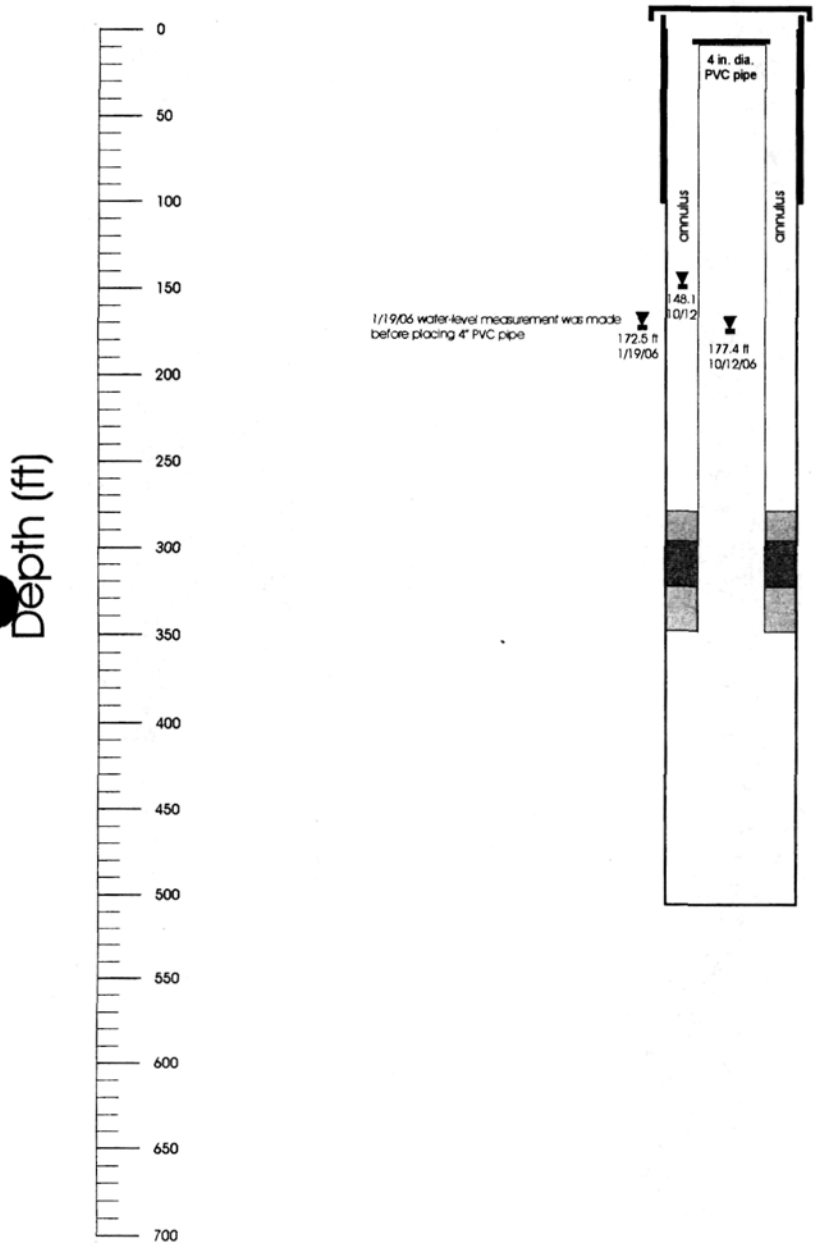
Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste Program

COMPANY:	
Location:	Oak Grove Village, Missouri
Well	Landfill Well (MW-1)
Date	12/13-16/2005 | BH Fluid | Water
Casing	10"" Steel to 104 ft
File Name	landfill_well-101206.WCL
Depth Driller	
Depth Logger	Depths from top steel (+3.2 ft)
Logged by:	D. Mugel
Witness:	

Figure 7: Geophysical Logging of Landfill Well (MW-1), Post-Phase II RI, Oak Grove Village Well Site, OU1, Oak Grove Village, Missouri



Oak Grove Village	Prepared by: D. Mugel (USGS)
Hole No: Landfill Well (MW-1)	Drilling Method: Air
Depth to BOW: 505 ft. BOH: 505 ft.	Top 10" steel: 861.10 ft LS Altitude: 858.90 ft. Riser Stickup: 2.20 ft.
Top of filter pack N/A; open-hole completion	Top of screen N/A Open-hole



104 ft Bottom of 10-in steel casing

104-280 ft Open annulus for water-level measurements, sampling

280 ft Approx top of bentonite seal, ~ 1 ft sand on top

295 ft Approx top of cement seal

325 ft Approx top of bentonite pellets

349 ft Bottom of 4" Tri-Lock PVC pipe with 5 ft packer at bottom (bentonite between grout cups)

505 ft Bottom of 10-in diameter borehole

Abbreviations:

ATD - At Time of Drilling
BOH - Bottom of Hole
BOW - Bottom of Well
SCH - Schedule
SWL - Static Water Level
LS - Land Surface

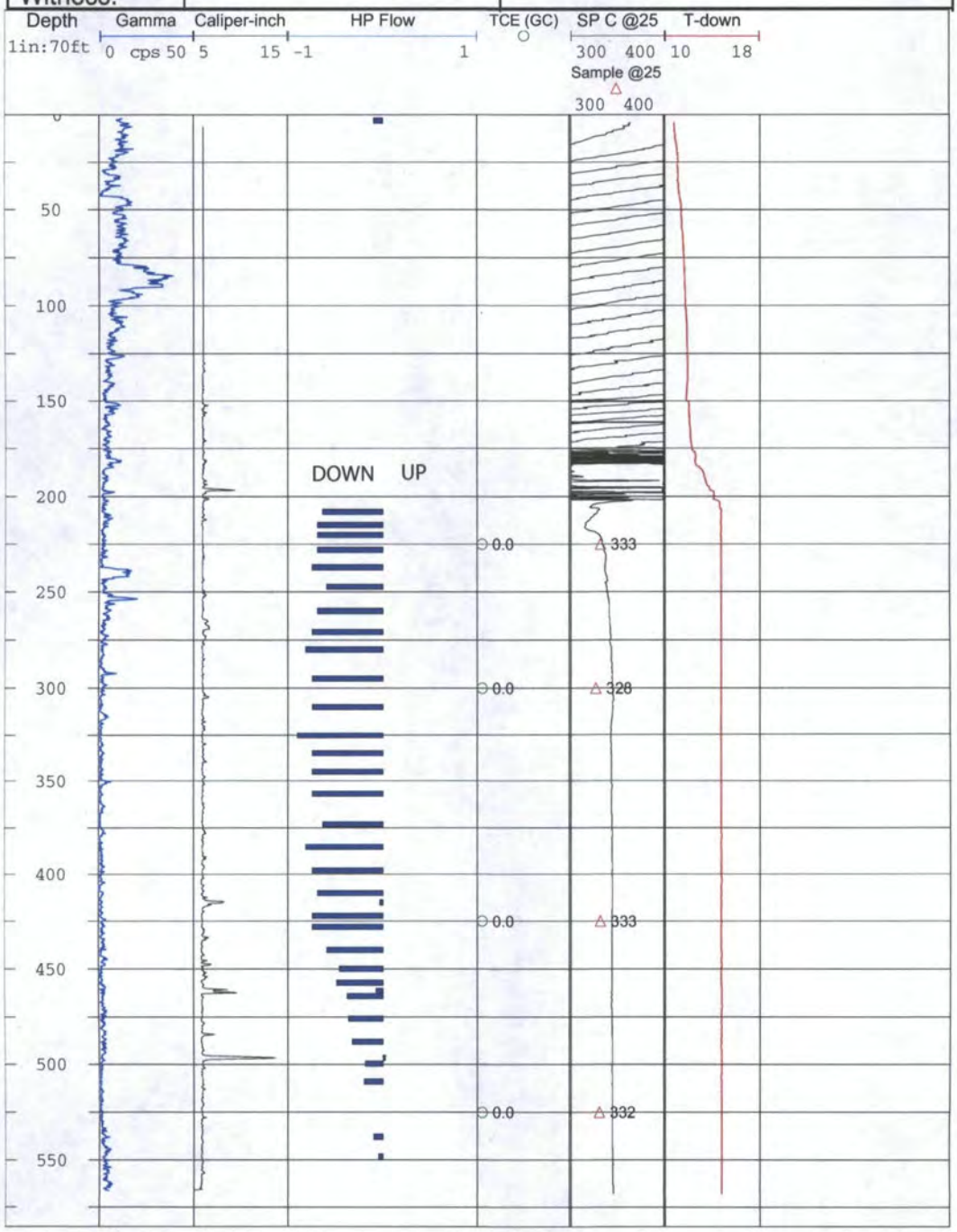
Note: All depths below land surface

Figure 8: Well Construction Diagram of Landfill Well (MW-1), Post-Phase II RI, Oak Grove Village Well Site, OU1, Oak Grove Village, Missouri.

COMPANY:	U.S. Geological Survey
Location:	Oak Grove Village, Missouri

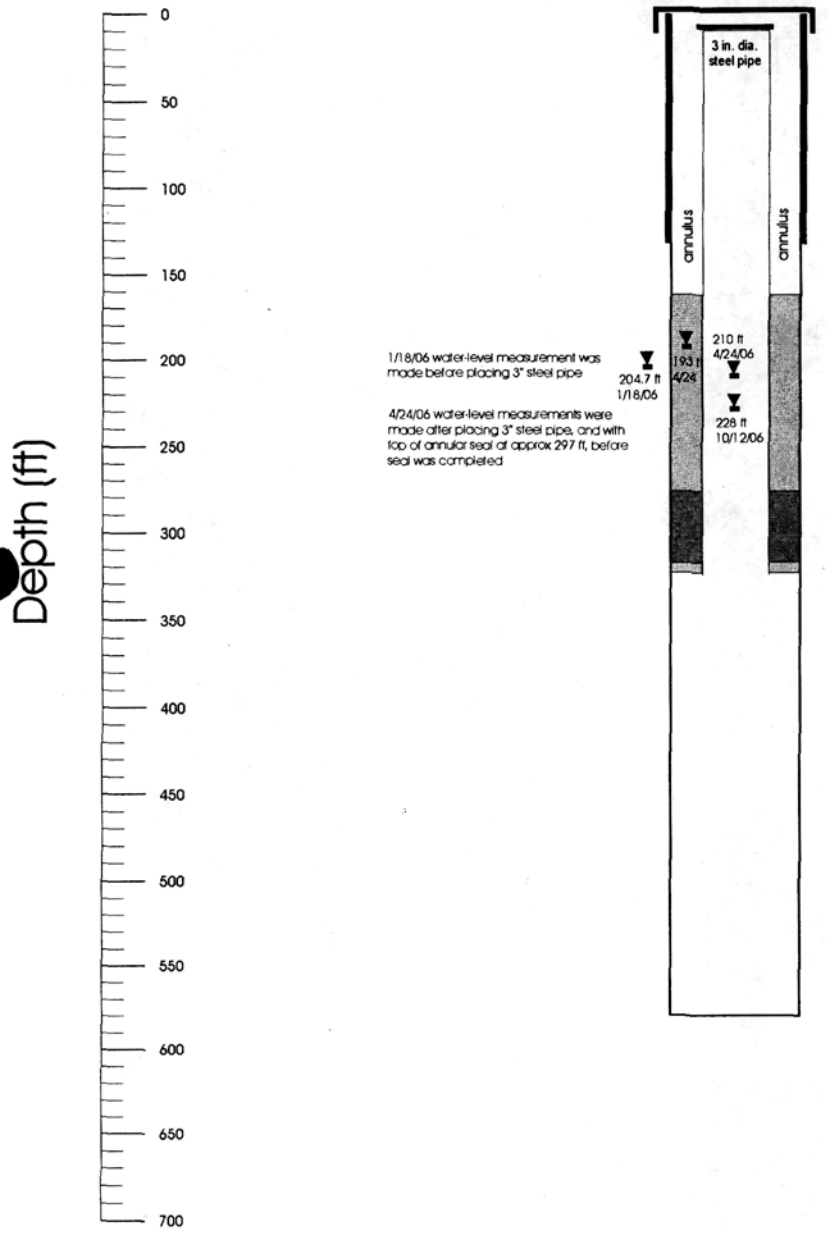
Well	VFW Well (MW-3)		
Date	12/12-19/2005	BH Fluid	Water
Casing	6" steel to 132 ft		
File Name	vfw well.072506.WCL		
Depth Driller			
Depth Logger			
Logged by:	D. Mugel		
Witness:			

Figure 9: Geophysical Logging of VFW Well (MW-3), Post-Phase II RI, Oak Grove Village Well Site, OU1, Oak Grove Village, Missouri.



Oak Grove Village	Prepared by: D. Mugel (USGS)
Hole No. VFW Well (MW-3)	Drilling Method: Air
Depth to BOW: 580 ft. BOH: 580 ft.	Top 6" casing (mp): 938.63 ft. LS Altitude: 939.10 ft. Stickup: - 0.47 ft.
Top of filter pack N/A; open-hole completion	Top of screen N/A Open-hole

Surveyed land surface is top of flush-mount steel bolt-down cover, in concrete slab



132 ft Bottom of 6-in steel casing
132-160 (approx) ft Open annulus

160 ft Approx top of cement-bentonite mix seal

274 ft Approx top of cement seal

327 ft Bottom of 3" steel pipe with 3.5 ft packer at bottom (bentonite between grout cups)

580 ft Bottom of 6-in diameter borehole

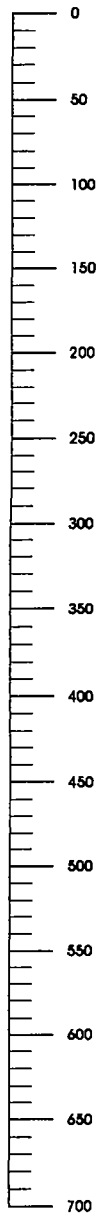
Abbreviations:

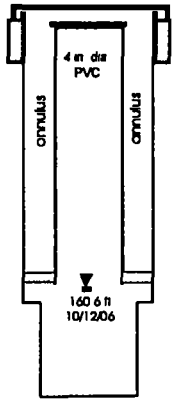
ATD - At Time of Drilling
BOH - Bottom of Hole
BOW - Bottom of Well
SCH - Schedule
SWL - Static Water Level
LS - Land Surface

Note: All depths below land surface

Figure 10: Well Construction Diagram of VFW Well (MW-3), Post-Phase II RI, Oak Grove Village Well Site, OU1, Oak Grove Village, Missouri.

Oak Grove Village	Prepared by D Mugel (USGS)
Hole No 185 Garage Well	Drilling Method Cable
Depth to BOW 225 ft BOH 225 ft	Top PVC riser 946 83 ft LS Altitude 944 70 ft Riser Stickup 2 13 ft
Top of filter pack N/A, open hole completion	Top of screen N/A Open-hole





29 ft Bottom of 8-in steel casing (12-in ID borehole)

29-156 ft Open annulus

160 ft Bottom of 4" PVC with 3 ft packer at bottom (bentonite between grout cups), and ~ 1 ft bentonite above

170 ft Bottom of 8-in diameter borehole

225 ft Bottom of 6-in diameter borehole

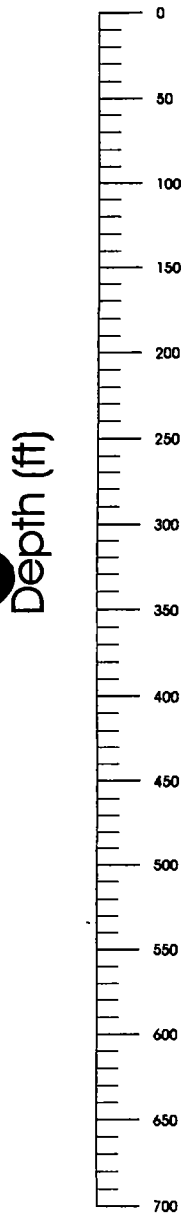
Abbreviations

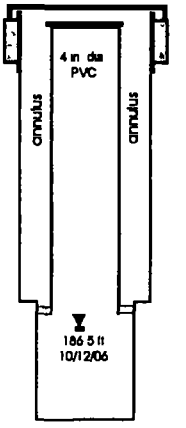
ATD - At Time of Drilling
BOH - Bottom of Hole
BOW - Bottom of Well
SCH - Schedule
SWL - Static Water Level
LS - Land Surface

Note All depths below land surface

Figure 11: Well Construction Diagram of 185 Garage Well (MW-4), Post-Phase II RI, Oak Grove Village Well Site, OU1, Oak Grove Village, Missouri.

Oak Grove Village	Prepared by D Mugel (USGS)
Hole No Ditch Witch Well	Drilling Method Cable
Depth to BOW 240 ft BOH 240 ft	Top PVC riser 955 46 ft LS Altitude 952 90 ft Riser Stickup 2 56 ft
Top of filter pack N/A, open hole completion	Top of screen N/A Open-hole





35 5 ft Bottom of 8-in steel casing in 12-in borehole

35 5-174 ft Open annulus

170 ft Bottom of 8-in diameter borehole
178 ft Bottom of 4" PVC with 3 ft packer at bottom (bentonite between grout cups), and ~ 1 ft bentonite above

240 ft Bottom of 6-in diameter borehole

Abbreviations

ATD - At Time of Drilling
BOH - Bottom of Hole
BOW - Bottom of Well
SCH - Schedule
SWL - Static Water Level
LS - Land Surface

Note All depths below land surface

Figure 12: Well Construction Diagram of Ditch Witch Well (MW-5), Post-Phase II RI, Oak Grove Village Well Site, OU1, Oak Grove Village, Missouri.

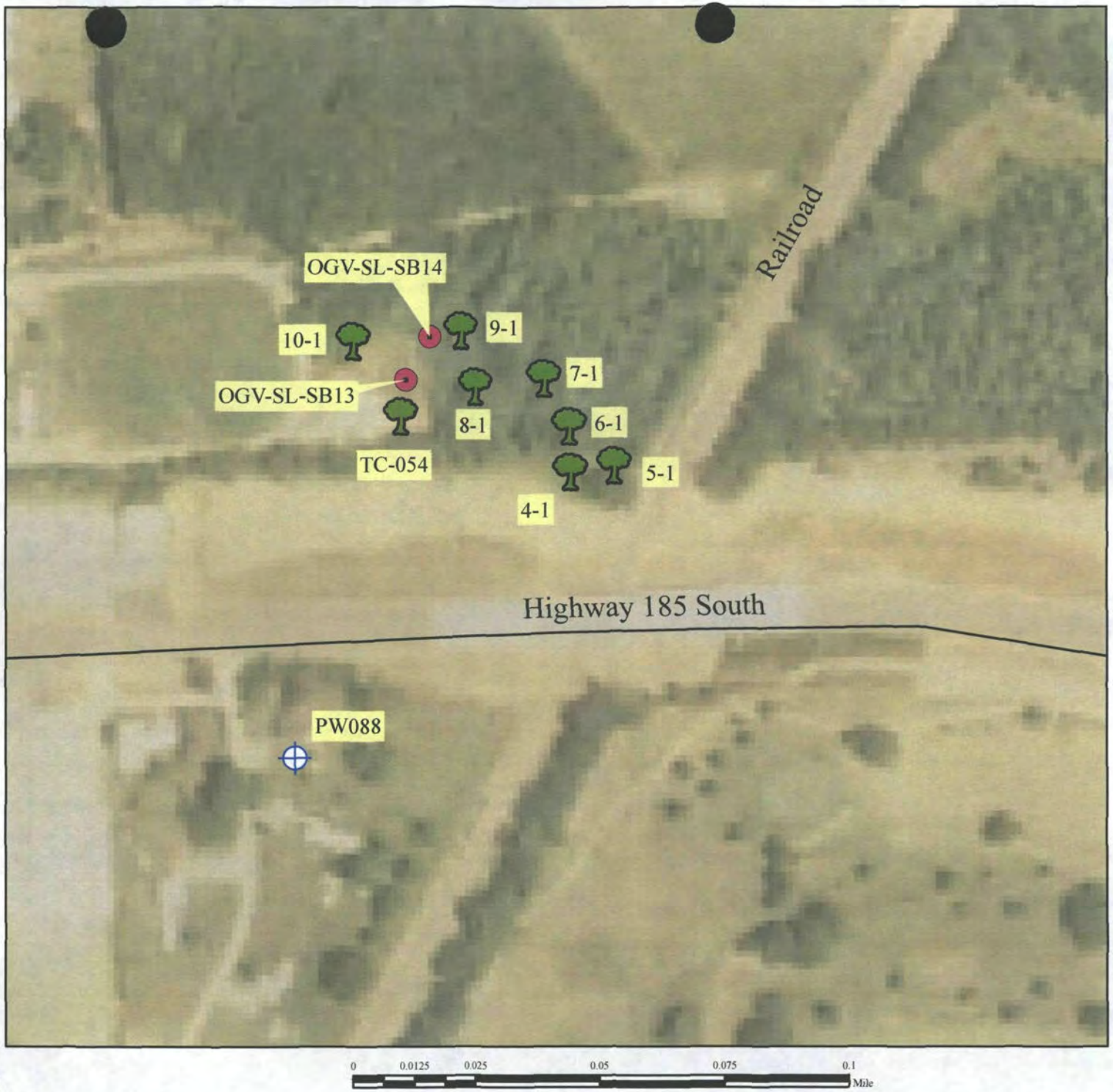


Figure 13: Location [illegible] ighway 185 S
Abandoned Drum Burial Site
Tree Core Samples, Post-Phase II
Remedial Investigation
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri
Franklin County

Legend
- Tree Core Sample Location
- Private Drinking Water Wells

Map Created in March 2007 by Valerie Wilder and named Val Map 7.
Edited June 6, 2007 by Shelly Jackson. This map is locatated at M/Superfund/Oak_Grove_Village/Figure_13_Hwy185S_TreeCore.mxd

Base Maps: Digital Raster Graphic 1:24,000 USGS Topgraphic Map, 7.5 Minute Series

Although data sets used to create this map have been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the accuracy of the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials. Tree Core Locations along Highway AF and East-West Road are approximate locations.

Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste Program

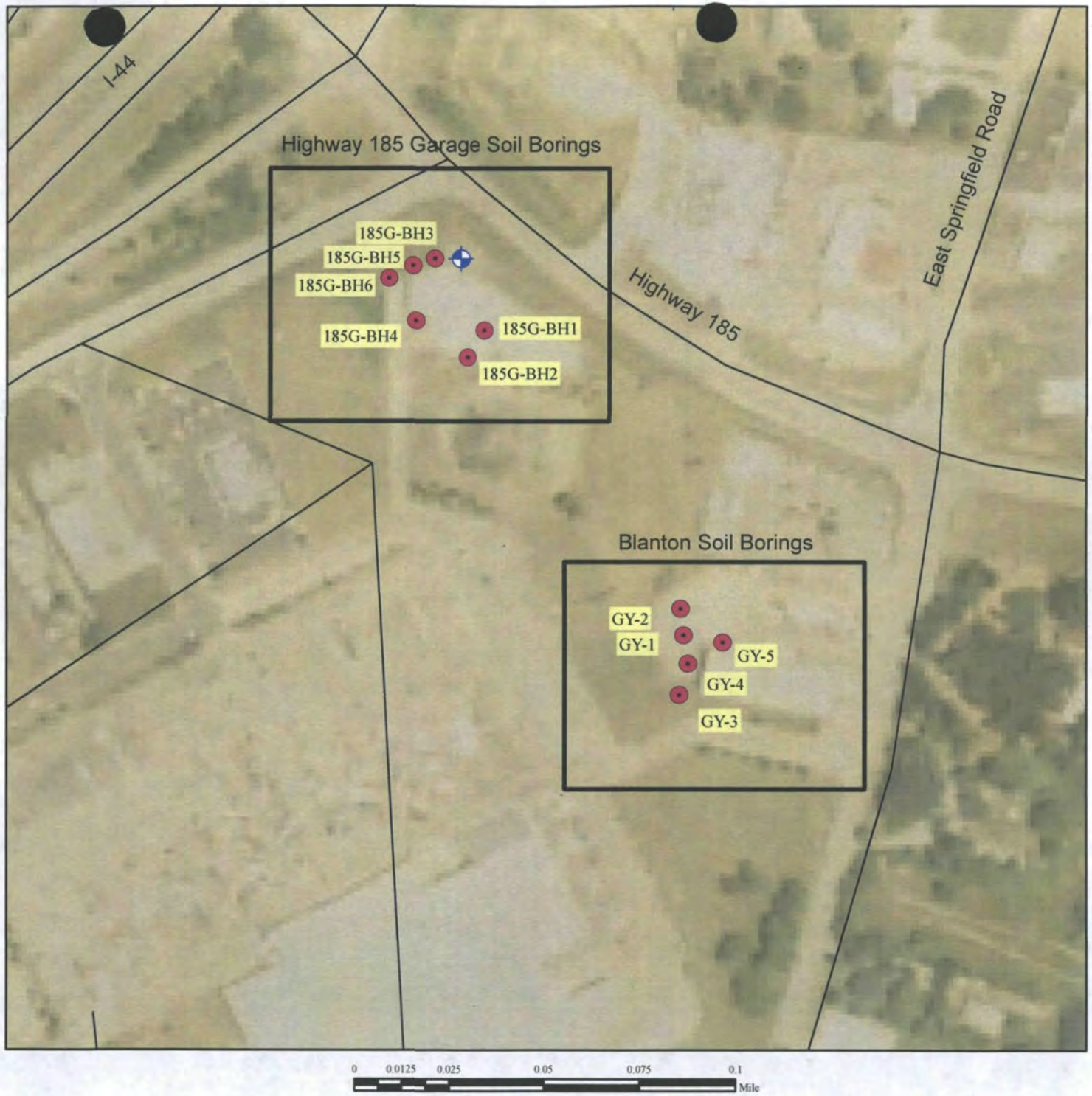


Figure 14: Location of B[redacted]on Soil Borings
Figure 15: Location of Highway 185 Garage Soil Borings
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri
Franklin County

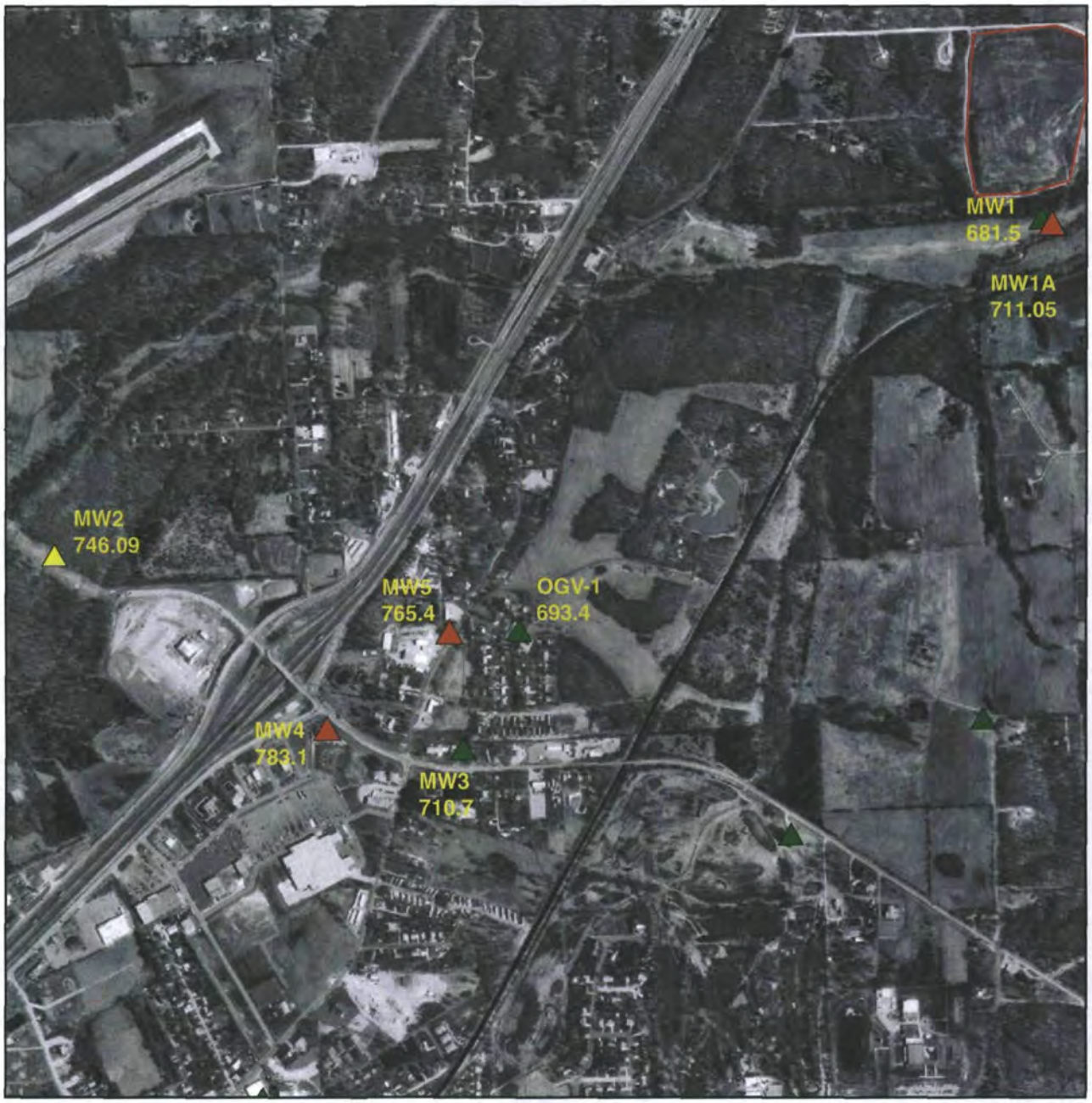
Legend
- Soil Boring Location
- Monitoring Well

Map Created in March 2007 by Valerie Wilder and named Val Map 7.
Edited June 6, 2007 by Shelly Jackson. This map is locatated at M/Superfund/Oak_Grove_Village/Figures_14_and_15.mxd

Base Maps: Digital Raster Graphic 1:24,000 USGS Topgraphic Map, 7.5 Minute Series

Although data sets used to create this map have been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the accuracy of the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials. Tree Core Locations along Highway AF and East-West Road are approximate locations.

Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste Program



Deep well (public-supply or montioring well)

Shallow well (domestic or montioring well)

Partially completed monitoring well

0 500 1,000 2,000 3,000 4,000 Feet

Figure 16: Water-level altitudes in selected wells in the vicinity of OGV-1 measured on October 12, 2006. Post-Phase II RI, Oak Grove Village Well Site, OU1, Oak Grove Village, Missouri,

Deep well (public-supply or montioring well)

Shallow well (domestic or montioring well)

Partially completed monitoring well

0 500 1,000 2,000 3,000 4,000 Feet

Figure 17: Water-level altitudes in selected wells in the vicinity of OGV-1 measured on April 10, 2007. Post-Phase II RI, Oak Grove Village Well Site, OU1, Oak Grove Village, Missouri.

APPENDICES

APPENDIX A

SYSTEM

Gasconade Dolomite (Gunter Sandstone Member)

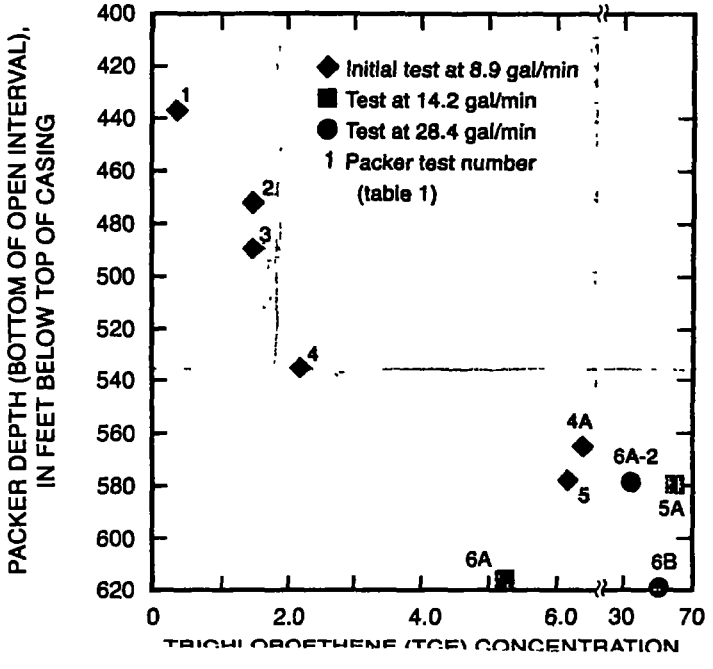
Eminence Dolomite

BOREHOLE PACKER TESTS AND WATER-QUALITY SAMPLING

Water-quality samples were collected and analyzed for TCE and other volatile organic compounds under ambient (non-pumping) and pumping conditions. Samples were collected at specific depths using a discrete sampler, and composite samples from the entire pumped interval were collected from the pump outlet.

Under ambient conditions, TCE concentrations in discrete samples collected at the beginning of the study (December 17, 2003) increased from less than 0.1 μg/L at 400 ft deep to 4.21 and 4.51 μg/L at 550 ft and 724 ft deep. These results indicate that TCE enters the borehole between 400 and 550 ft deep.

Beginning in March 2004, packer tests were conducted by pumping the borehole above an inflatable packer set at various depths. During the initial tests, the borehole was pumped at 8.9 gal/min and the packer was placed at depths of 437, 472, 489.5, 535, 564, and 578 ft (fig. 2, table 1). At each test depth, the pump was run from 24.5 to 77 hours before the final laboratory sample was collected from the pump outlet. Results from initial tests conducted at 8.9 gal/min indicate a gradual increase in TCE concentrations with increasing packer depth with the maximum concentration of 6.36 μg/L obtained at a packer depth of 564 ft deep. Subsequent packer tests conducted at higher pumping rates generally resulted in higher TCE concentrations with the maximum concentration of 67.3 μg/L detected in packer test 5A [packer at 578 ft and pumping at 14.2 gal/min (fig. 2, table 1)].



APPENDIX B

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060208005 **Program, Contact:** HWP, Candy McGhee

Report Date: 2/22/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 060208005-02 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0507365 **County:** Franklin **Collect Date:** 2/6/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 1 00 00 PM

Matrix: Misc Potable Water **Sample Comment:** 190' Peterson, 1402 Highway AF

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,1-Trichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,2,2-Tetrachloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,2-Trichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloropropene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,3-Trichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,4-Trichlorobenzene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,4-Trimethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dibromoethane (EDB)	0 05	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichlorobenzene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3,5-Trimethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,4-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	2,2-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	2-Chlorotoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	4-Chlorotoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Benzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromobenzene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromochloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromodichloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromoform	0 20	ND	ug/L	Q60216-02voc	524 2/VOC

Sample: 060208005-02
Customer #: 0507365
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 190' Peterson, 1402 Highway AF

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 2/6/2006
Collect Time: 1 00 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1 00	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Carbon Tetrachloride	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chlorobenzene	0.20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	Chloroethane	2 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloroform	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloromethane	5 00	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	cis-1,2-dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	cis-1,3-Dichloropropene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dibromochloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dibromomethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dichlorodifluoromethane	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Ethylbenzene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Hexachlorobutadiene	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Isopropylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	m&p-Xylenes	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Methyl-t-butyl ether	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Methylene chloride	0 20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	n-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	n-Propylbenzene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Naphthalene	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	o-Xylene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	p-isopropyltoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	sec-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Styrene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	tert-Butylbenzene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Tetrachloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Toluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Total THM	0.80	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Total Xylenes	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	trans-1,2-Dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	trans-1,3-Dichloropropene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Trichloroethene	1.55		ug/L	Q60216-02voc	524 2/VOC
VOC	Trichlorofluoromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Vinyl Chloride	0 20	ND	ug/L	Q60216-02voc	524 2/VOC

Sample: 060208005-02
Customer #: 0507365
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 190' Peterson, 1402 Highway AF

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date. 2/6/2006
Collect Time: 1 00 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060208005 **Program, Contact:** HWP, Candy McGhee

Report Date: 2/22/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 060208005-03 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0507366 **County:** Franklin **Collect Date:** 2/6/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 1 49 00 PM

Matrix: Misc Potable Water **Sample Comment:** 222' Peterson

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,1-Trichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,2,2-Tetrachloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,2-Trichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloropropene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,3-Trichlorobenzene	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,3-Trichloropropane	0 20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,4-Trimethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dibromo-3-chloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dibromoethane (EDB)	0 05	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	1,2-Dichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3,5-Trimethylbenzene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,4-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	2,2-Dichloropropane	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	2-Chlorotoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	4-Chlorotoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Benzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromochloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromodichloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromoform	0 20	ND	ug/L	Q60216-02voc	524 2/VOC

Sample: 060208005-03
Customer #: 0507366
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 222' Peterson

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 2/6/2006
Collect Time: 1 49 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1 00	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Carbon Tetrachloride	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chlorobenzene	0.20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	Chloroethane	2 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloroform	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloromethane	5 00	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	cis-1,2-dichloroethene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	cis-1,3-Dichloropropene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dibromochloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dibromomethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dichlorodifluoromethane	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Ethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Hexachlorobutadiene	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Isopropylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	m&p-Xylenes	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Methyl-t-butyl ether	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Methylene chloride	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	n-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	n-Propylbenzene	0.20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	Naphthalene	0 50	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	o-Xylene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	p-isopropyltoluene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	sec-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Styrene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	tert-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Tetrachloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Toluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Total THM	0 80	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Total Xylenes	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	trans-1,2-Dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	trans-1,3-Dichloropropene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Trichloroethene	1.78		ug/L	Q60216-02voc	524 2/VOC
VOC	Trichlorofluoromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Vinyl Chloride	0 20	ND	ug/L	Q60216-02voc	524.2/VOC

Sample: 060208005-03
Customer #: 0507366
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 222' Peterson

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 2/6/2006
Collect Time: 1 49 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060208005 **Program, Contact:** HWP, Candy McGhee

Report Date: 2/22/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 060208005-04 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0507367 **County:** Franklin **Collect Date:** 2/6/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 2 40 00 PM

Matrix: Misc Potable Water **Sample Comment:** 262' Peterson

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,1-Trichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,2,2-Tetrachloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,2-Trichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloropropene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,3-Trichlorobenzene	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,3-Trichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,4-Trichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,4-Trimethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dibromoethane (EDB)	0 05	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3,5-Trimethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,4-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	2,2-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	2-Chlorotoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	4-Chlorotoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Benzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromochloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromodichloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromoform	0 20	ND	ug/L	Q60216-02voc	524 2/VOC

Sample: 060208005-04
Customer #: 0507367
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 262' Peterson

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date. 2/6/2006
Collect Time. 2 40.00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1 00	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Carbon Tetrachloride	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloroethane	2 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloroform	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloromethane	5 00	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	cis-1,2-dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	cis-1,3-Dichloropropene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dibromochloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dibromomethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dichlorodifluoromethane	0.50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Ethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Hexachlorobutadiene	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Isopropylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	m&p-Xylenes	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Methyl-t-butyl ether	0 50	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	Methylene chloride	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	n-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	n-Propylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Naphthalene	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	o-Xylene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	p-isopropyltoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	sec-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	Styrene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	tert-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Tetrachloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Toluene	0.20	05	ug/L	Q60216-02voc	524 2/VOC
VOC	Total THM	0.80	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Total Xylenes	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	trans-1,2-Dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	trans-1,3-Dichloropropene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Trichloroethene	1 48		ug/L	Q60216-02voc	524 2/VOC
VOC	Trichlorofluoromethane	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Vinyl Chloride	0 20	ND	ug/L	Q60216-02voc	524 2/VOC

Sample: 060208005-04
Customer #: 0507367
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 262' Peterson

Site. Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 2/6/2006
Collect Time: 2 40 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060208005
Report Date: 2/22/2006
Order Comment:

Program, Contact: HWP, Candy McGhee
LDPR: QEOAK/NJ00OAKG

Sample: 060208005-05
Customer #: 0507368
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 297' Peterson

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 2/6/2006
Collect Time: 3 42 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,1-Trichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,2,2-Tetrachloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,2-Trichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloropropene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,3-Trichlorobenzene	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,3-Trichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,4-Trichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,4-Trimethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dibromo-3-chloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dibromoethane (EDB)	0 05	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3,5-Trimethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,4-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	2,2-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	2-Chlorotoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	4-Chlorotoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Benzene	0 20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	Bromobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromochloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromodichloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromoform	0 20	ND	ug/L	Q60216-02voc	524 2/VOC

Sample: 060208005-05
Customer #: 0507368
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 297' Peterson

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 2/6/2006
Collect Time: 3 42 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1 00	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Carbon Tetrachloride	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloroethane	2 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloroform	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloromethane	5 00	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	cis-1,2-dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	cis-1,3-Dichloropropene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dibromochloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dibromomethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dichlorodifluoromethane	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Ethylbenzene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Hexachlorobutadiene	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Isopropylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	m&p-Xylenes	0 20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	Methyl-t-butyl ether	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Methylene chloride	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	n-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	n-Propylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	o-Xylene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	p-isopropyltoluene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	sec-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Styrene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	tert-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Tetrachloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Toluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Total THM	0 80	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Total Xylenes	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	trans-1,2-Dichloroethene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	trans-1,3-Dichloropropene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Trichloroethene	1 50		ug/L	Q60216-02voc	524 2/VOC
VOC	Trichlorofluoromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Vinyl Chloride	0 20	ND	ug/L	Q60216-02voc	524.2/VOC

Sample: 060208005-05
Customer #: 0507368
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 297' Peterson

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 2/6/2006
Collect Time: 3 42 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060208005
Report Date: 2/22/2006
Order Comment:

Program, Contact: HWP, Candy McGhee
LDPR: QEOAK/NJ00OAKG

Sample: 060208005-06
Customer #: 0507369
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 324' Peterson

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 2/6/2006
Collect Time: 4 46 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,1-Trichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1,2-Trichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloroethene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,1-Dichloropropene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,3-Trichloropropane	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,4-Trichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2,4-Trimethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dibromo-3-chloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dibromoethane (EDB)	0 05	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichlorobenzene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichloroethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,2-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3,5-Trimethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3-Dichlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,3-Dichloropropane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	1,4-Dichlorobenzene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	2,2-Dichloropropane	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	2-Chlorotoluene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	4-Chlorotoluene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Benzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromochloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromodichloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Bromoform	0 20	ND	ug/L	Q60216-02voc	524 2/VOC

Sample: 060208005-06
Customer #: 0507369
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 324' Peterson

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 2/6/2006
Collect Time: 4 46 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1.00	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Carbon Tetrachloride	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chlorobenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloroethane	2 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloroform	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	cis-1,2-dichloroethene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	cis-1,3-Dichloropropene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dibromochloromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dibromomethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Dichlorodifluoromethane	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Ethylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Hexachlorobutadiene	0.50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Isopropylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	m&p-Xylenes	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Methyl-t-butyl ether	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Methylene chloride	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	n-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	n-Propylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Naphthalene	0 50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	o-Xylene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	p-isopropyltoluene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	sec-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Styrene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	tert-Butylbenzene	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Tetrachloroethene	0.20	ND	ug/L	Q60216-02voc	524.2/VOC
VOC	Toluene	0 24	05	ug/L	Q60216-02voc	524 2/VOC
VOC	Total THM	0 80	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	trans-1,2-Dichloroethene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	trans-1,3-Dichloropropene	0.20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Trichloroethene	1 44		ug/L	Q60216-02voc	524 2/VOC
VOC	Trichlorofluoromethane	0 20	ND	ug/L	Q60216-02voc	524 2/VOC
VOC	Vinyl Chloride	0 20	ND	ug/L	Q60216-02voc	524 2/VOC

Sample: 060208005-06
Customer #: 0507369
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 324' Peterson

Site: *Oak Grove Village Well Site*
Affiliation: DGLS

Collect Date: 2/6/2006
Collect Time: 4 46 00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

U.S. Geological Survey (USGS)
Oak Grove/New Haven-OU4
Project Number: 8611-9D649

Lot #: D7E250237 **Date Reported:** 6/15/07

Client Sample ID: OGV-GW-WH1
Sample #: 001 Date Sampled: 05/24/07 09:45 Date Received: 05/25/07 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Measurement of Purgeable Organic Compounds					Reviewed
Benzene	ND	0.30	ug/L	EPA-DW 524.2	
Bromobenzene	ND	0.30	ug/L	EPA-DW 524.2	
Bromochloromethane	ND	0.30	ug/L	EPA-DW 524.2	
Bromodichloromethane	ND	0.30	ug/L	EPA-DW 524.2	
Bromoform	ND	0.30	ug/L	EPA-DW 524.2	
Bromomethane	ND	0.60	ug/L	EPA-DW 524.2	
n-Butylbenzene	ND	0.30	ug/L	EPA-DW 524.2	
sec-Butylbenzene	ND	0.30	ug/L	EPA-DW 524.2	
tert-Butylbenzene	ND	0.30	ug/L	EPA-DW 524.2	
Carbon tetrachloride	ND	0.30	ug/L	EPA-DW 524.2	
Chlorobenzene	ND	0.30	ug/L	EPA-DW 524.2	
Dibromochloromethane	ND	0.30	ug/L	EPA-DW 524.2	
Chloroethane	ND	0.30	ug/L	EPA-DW 524.2	
Chloroform	ND	0.30	ug/L	EPA-DW 524.2	
Chloromethane	ND	1.0	ug/L	EPA-DW 524.2	
2-Chlorotoluene	ND	1.0	ug/L	EPA-DW 524.2	
4-Chlorotoluene	ND	0.30	ug/L	EPA-DW 524.2	
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	EPA-DW 524.2	
1,2-Dibromoethane (EDB)	ND	0.30	ug/L	EPA-DW 524.2	
Dibromomethane	ND	0.60	ug/L	EPA-DW 524.2	
1,2-Dichlorobenzene	ND	0.30	ug/L	EPA-DW 524.2	
1,3-Dichlorobenzene	ND	0.30	ug/L	EPA-DW 524.2	
1,4-Dichlorobenzene	ND	0.30	ug/L	EPA-DW 524.2	
Dichlorodifluoromethane	ND	0.30	ug/L	EPA-DW 524.2	
1,1-Dichloroethane	ND	0.30	ug/L	EPA-DW 524.2	
1,2-Dichloroethane	ND	0.60	ug/L	EPA-DW 524.2	
cis-1,2-Dichloroethene	ND	0.30	ug/L	EPA-DW 524.2	
trans-1,2-Dichloroethene	ND	0.30	ug/L	EPA-DW 524.2	
1,1-Dichloroethene	ND	0.60	ug/L	EPA-DW 524.2	
1,2-Dichloropropane	ND	0.30	ug/L	EPA-DW 524.2	
1,3-Dichloropropane	ND	0.60	ug/L	EPA-DW 524.2	
2,2-Dichloropropane	ND	0.30	ug/L	EPA-DW 524.2	
cis-1,3-Dichloropropene	ND	0.30	ug/L	EPA-DW 524.2	
trans-1,3-Dichloropropene	ND	0.30	ug/L	EPA-DW 524.2	
1,1-Dichloropropene	ND	0.30	ug/L	EPA-DW 524.2	
Ethylbenzene	ND	0.30	ug/L	EPA-DW 524.2	

(Continued on next page)

SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

U.S. Geological Survey (USGS)
Oak Grove/New Haven-OU4
Project Number: 8611-9D649

Lot #: D7E250237 **Date Reported:** 6/15/07

Client Sample ID: OGV-GW-WH1
Sample #: 001 Date Sampled: 05/24/07 09:45 Date Received: 05/25/07 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Measurement of Purgeable Organic Compounds					Reviewed
Hexachlorobutadiene	ND	0.30	ug/L	EPA-DW 524.2	
Isopropylbenzene	ND	0.30	ug/L	EPA-DW 524.2	
4-Isopropyltoluene	ND	0.30	ug/L	EPA-DW 524.2	
Methylene chloride	ND	1.0	ug/L	EPA-DW 524.2	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	EPA-DW 524.2	
Naphthalene	ND	1.0	ug/L	EPA-DW 524.2	
n-Propylbenzene	ND	0.30	ug/L	EPA-DW 524.2	
Styrene	ND	0.30	ug/L	EPA-DW 524.2	
1,1,1,2-Tetrachloroethane	ND	0.30	ug/L	EPA-DW 524.2	
1,1,2,2-Tetrachloroethane	ND	0.30	ug/L	EPA-DW 524.2	
Tetrachloroethene	ND	0.30	ug/L	EPA-DW 524.2	
Toluene	ND	0.30	ug/L	EPA-DW 524.2	
1,2,3-Trichlorobenzene	ND	0.60	ug/L	EPA-DW 524.2	
1,2,4-Trichlorobenzene	ND	0.30	ug/L	EPA-DW 524.2	
1,1,1-Trichloroethane	ND	0.30	ug/L	EPA-DW 524.2	
1,1,2-Trichloroethane	ND	0.60	ug/L	EPA-DW 524.2	
Trichloroethene	ND	0.30	ug/L	EPA-DW 524.2	
Trichlorofluoromethane	ND	0.30	ug/L	EPA-DW 524.2	
1,2,3-Trichloropropane	ND	1.0	ug/L	EPA-DW 524.2	
1,2,4-Trimethylbenzene	ND	0.30	ug/L	EPA-DW 524.2	
1,3,5-Trimethylbenzene	ND	0.30	ug/L	EPA-DW 524.2	
Vinyl chloride	ND	0.30	ug/L	EPA-DW 524.2	
m-Xylene & p-Xylene	ND	0.30	ug/L	EPA-DW 524.2	
o-Xylene	ND	0.30	ug/L	EPA-DW 524.2	
Xylenes (total)	ND	0.90	ug/L	EPA-DW 524.2	

APPENDIX C

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 051222001
Report Date: 1/3/2006
Order Comment:

Program, Contact: HWP, Candy McGhee
LDPR: QEOAK/NJ00OAKG

Sample: 051222001-01
Customer #: 0507352
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: OGV Landfill well 185'

Site: Oak Grove Village Well Site
Affiliation:

Collect Date: 12/16/2005
Collect Time: 10:10:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloroethane	0.43	05	ug/L	Q51223-02voc	524 2/VOC
VOC	1,1-Dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	2,2-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	2-Chlorotoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	4-Chlorotoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Benzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromochloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromodichloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromoform	0.20	ND	ug/L	Q51223-02voc	524.2/VOC

Sample: 051222001-01
Customer #: 0507352
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: OGV Landfill well 185'

Site: Oak Grove Village Well Site
Affiliation:

Collect Date: 12/16/2005
Collect Time: 10:10:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1.00	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Carbon Tetrachloride	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloroform	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.56		ug/L	Q51223-02voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dibromochloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dibromomethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dichlorodifluoromethane	1.36		ug/L	Q51223-02voc	524.2/VOC
VOC	Ethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Hexachlorobutadiene	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Isopropylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	m&p-Xylenes	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Methylene chloride	0.51		ug/L	Q51223-02voc	524.2/VOC
VOC	n-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	n-Propylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	o-Xylene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	p-isopropyltoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	sec-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Styrene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	tert-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Tetrachloroethene	0.24	05	ug/L	Q51223-02voc	524.2/VOC
VOC	Toluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Total THM	0.80	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Trichloroethene	1.68		ug/L	Q51223-02voc	524.2/VOC
VOC	Trichlorofluoromethane	11.6		ug/L	Q51223-02voc	524.2/VOC
VOC	Vinyl Chloride	0.20	ND	ug/L	Q51223-02voc	524.2/VOC

Sample: 051222001-01
Customer #: 0507352
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: OGV Landfill well 185'

Site: Oak Grove Village Well Site
Affiliation:

Collect Date: 12/16/2005
Collect Time: 10:10:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 051222001 **Program, Contact:** HWP, Candy McGhee

Report Date: 1/3/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 051222001-03 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0507355 **County:** Franklin **Collect Date:** 12/16/2005

Collector: Kurt Hollman **Affiliation:** **Collect Time:** 1:15:00 PM

Matrix: Misc Potable Water **Sample Comment:** OGV Landfill well 480'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.20	ND	ug/L	Q51223-02voc	524 2/VOC
VOC	1,1,2-Trichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	2,2-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	2-Chlorotoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	4-Chlorotoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Benzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromochloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromodichloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromoform	0.20	ND	ug/L	Q51223-02voc	524.2/VOC

Sample: 051222001-03
Customer #: 0507355
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: OGV Landfill well 480'

Site: Oak Grove Village Well Site
Affiliation:

Collect Date: 12/16/2005
Collect Time: 1:15.00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1.00	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Carbon Tetrachloride	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloroform	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dibromochloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dibromomethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Ethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Hexachlorobutadiene	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Isopropylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	m&p-Xylenes	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Methylene chloride	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	n-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	n-Propylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q51223-02voc	524 2/VOC
VOC	o-Xylene	0.20	ND	ug/L	Q51223-02voc	524 2/VOC
VOC	p-isopropyltoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	sec-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Styrene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	tert-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Tetrachloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Toluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Total THM	0.80	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Trichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Trichlorofluoromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Vinyl Chloride	0.20	ND	ug/L	Q51223-02voc	524.2/VOC

Sample: 051222001-03
Customer #: 0507355
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: OGV Landfill well 480'

Site: Oak Grove Village Well Site
Affiliation:

Collect Date: 12/16/2005
Collect Time: 1:15:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060428009 **Program, Contact:** HWP, Candy McGhee

Report Date: 5/9/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 060428009-01 **Facility ID:** **Site:** Oak Grove Village

Customer #: 0603001 **County:** Franklin **Collect Date:** 4/26/2006

Collector: Candy McGhee **Affiliation:** HWP **Collect Time:** 3:45:00 PM

Matrix: Misc Potable Water **Sample Comment:** Grab water sample for MW-1 @ 185'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1-Dichloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1-Dichloroethene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1-Dichloropropene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2-Dichloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2-Dichloropropane	0.25	ND	ug/L	Q60505-04voc	524 2/VOC
VOC	1,3,5-Trimethylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,3-Dichloropropane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	2,2-Dichloropropane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	2-Chlorotoluene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	4-Chlorotoluene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Benzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Bromobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Bromochloromethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Bromodichloromethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Bromoform	0.25	ND	ug/L	Q60505-04voc	524.2/VOC

Sample: 060428009-01
Customer #: 0603001
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Candy McGhee
Sample Comment: Grab water sample for MW-1 @ 185'

Site: Oak Grove Village
Affiliation: HWP

Collect Date: 4/26/2006
Collect Time: 3:45:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Carbon Tetrachloride	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Chlorobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Chloroform	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Dibromochloromethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Dibromomethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Ethylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Hexachlorobutadiene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Isopropylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	m&p-Xylenes	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Methylene chloride	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	n-Butylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	n-Propylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	o-Xylene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	p-isopropyltoluene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	sec-Butylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Styrene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	tert-Butylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Tetrachloroethene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Toluene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Total THM	1.00	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Trichloroethene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Trichlorofluoromethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Vinyl Chloride	0.25	ND	ug/L	Q60505-04voc	524.2/VOC

Sample: 060428009-01
Customer #: 0603001
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Candy McGhee
Sample Comment: Grab water sample for MW-1 @ 185'

Site: Oak Grove Village
Affiliation: HWP

Collect Date: 4/26/2006
Collect Time: 3:45:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060428009 **Program, Contact:** HWP, Candy McGhee

Report Date: 5/9/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 060428009-02 **Facility ID:** **Site:** Oak Grove Village

Customer #: 0603002 **County:** Franklin **Collect Date:** 4/27/2006

Collector: Candy McGhee **Affiliation:** HWP **Collect Time:** 12:05:00 PM

Matrix: Misc Potable Water **Sample Comment:** Grab water sample for MW-1 annular space

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1-Dichloroethane	0.42	05	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1-Dichloroethene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,1-Dichloropropene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2-Dichloroethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,2-Dichloropropane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,3-Dichloropropane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	2,2-Dichloropropane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	2-Chlorotoluene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	4-Chlorotoluene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Benzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Bromobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Bromochloromethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Bromodichloromethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Bromoform	0.25	ND	ug/L	Q60505-04voc	524.2/VOC

Sample: 060428009-02
Customer #: 0603002
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Candy McGhee
Sample Comment: Grab water sample for MW-1 annular space

Site: Oak Grove Village
Affiliation: HWP

Collect Date: 4/27/2006
Collect Time: 12:05:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Carbon Tetrachloride	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Chlorobenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Chloroform	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.52		ug/L	Q60505-04voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Dibromochloromethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Dibromomethane	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Dichlorodifluoromethane	1.97		ug/L	Q60505-04voc	524.2/VOC
VOC	Ethylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Hexachlorobutadiene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Isopropylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	m&p-Xylenes	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Methylene chloride	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	n-Butylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	n-Propylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	o-Xylene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	p-isopropyltoluene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	sec-Butylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Styrene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	tert-Butylbenzene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Tetrachloroethene	0.27	05	ug/L	Q60505-04voc	524.2/VOC
VOC	Toluene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Total THM	1.00	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.25	ND	ug/L	Q60505-04voc	524.2/VOC
VOC	Trichloroethene	1.71		ug/L	Q60505-04voc	524.2/VOC
VOC	Trichlorofluoromethane	11.6		ug/L	Q60505-04voc	524.2/VOC
VOC	Vinyl Chloride	0.25	ND	ug/L	Q60505-04voc	524.2/VOC

Sample: 060428009-02
Customer #: 0603002
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Candy McGhee
Sample Comment: Grab water sample for MW-1 annular space

Site: Oak Grove Village
Affiliation: HWP

Collect Date: 4/27/2006
Collect Time: 12:05:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 051222001 **Program, Contact:** HWP, Candy McGhee

Report Date: 1/3/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 051222001-04 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0507356 **County:** Franklin **Collect Date:** 12/20/2005

Collector: Kurt Hollman **Affiliation:** **Collect Time:** 10:48:00 AM

Matrix: Misc Potable Water **Sample Comment:** 225' VFW OGV

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	2,2-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	2-Chlorotoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	4-Chlorotoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Benzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromochloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromodichloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromoform	0.20	ND	ug/L	Q51223-02voc	524.2/VOC

Sample: 051222001-04
Customer #: 0507356
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 225' VFW OGV

Site: Oak Grove Village Well Site
Affiliation:

Collect Date: 12/20/2005
Collect Time: 10:48:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1.00	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Carbon Tetrachloride	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloroform	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dibromochloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dibromomethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Ethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Hexachlorobutadiene	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Isopropylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	m&p-Xylenes	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Methylene chloride	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	n-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	n-Propylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	o-Xylene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	p-isopropyltoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	sec-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Styrene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	tert-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Tetrachloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Toluene	0.56		ug/L	Q51223-02voc	524.2/VOC
VOC	Total THM	0.80	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Trichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Trichlorofluoromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Vinyl Chloride	0.20	ND	ug/L	Q51223-02voc	524.2/VOC

Sample: 051222001-04
Customer #: 0507356
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 225' VFW OGV

Site: Oak Grove Village Well Site
Affiliation:

Collect Date: 12/20/2005
Collect Time: 10:48:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 051222001 **Program, Contact:** HWP, Candy McGhee

Report Date: 1/3/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 051222001-05 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0507359 **County:** Franklin **Collect Date:** 12/20/2005

Collector: Kurt Hollman **Affiliation:** **Collect Time:** 1:52:00 PM

Matrix: Misc Potable Water **Sample Comment:** 525' VFW OGV

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,1-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q51223-02voc	524 2/VOC
VOC	1,2,3-Trichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichloroethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,2-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,3-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	2,2-Dichloropropane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	2-Chlorotoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	4-Chlorotoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Benzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromochloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromodichloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Bromoform	0.20	ND	ug/L	Q51223-02voc	524.2/VOC

Sample: 051222001-05
Customer #: 0507359
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 525' VFW OGV

Site: Oak Grove Village Well Site
Affiliation:

Collect Date: 12/20/2005
Collect Time: 1:52:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromomethane	1.00	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Carbon Tetrachloride	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chlorobenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloroform	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dibromochloromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dibromomethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Ethylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Hexachlorobutadiene	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Isopropylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	m&p-Xylenes	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Methylene chloride	0.42	05	ug/L	Q51223-02voc	524.2/VOC
VOC	n-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	n-Propylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q51223-02voc	524 2/VOC
VOC	o-Xylene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	p-isopropyltoluene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	sec-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Styrene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	tert-Butylbenzene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Tetrachloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Toluene	0.83		ug/L	Q51223-02voc	524.2/VOC
VOC	Total THM	0.80	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Trichloroethene	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Trichlorofluoromethane	0.20	ND	ug/L	Q51223-02voc	524.2/VOC
VOC	Vinyl Chloride	0.20	ND	ug/L	Q51223-02voc	524.2/VOC

Sample: 051222001-05
Customer #: 0507359
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 525' VFW OGV

Site: Oak Grove Village Well Site
Affiliation:

Collect Date: 12/20/2005
Collect Time: 1:52:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060516001 **Program, Contact:** HWP, Candy McGhee

Report Date: 5/25/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 060516001-01 **Facility ID:** **Site:** Oak Grove Village

Customer #: 0507372 **County:** Franklin **Collect Date:** 5/12/2006

Collector: Doug Mugel **Affiliation:** USGS **Collect Time:** 10:30:00 AM

Matrix: Misc Potable Water **Sample Comment:** Pumping 14 gal/min. VFW - well

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	2-Hexanone	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60522-04VOA	8260B

Sample: 060516001-01
Customer #: 0507372
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Doug Mugel
Sample Comment: Pumping 14 gal/min. VFW - well

Site: Oak Grove Village
Affiliation: USGS

Collect Date: 5/12/2006
Collect Time: 10:30:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	acetone	10.0	ND	ug/L	Q60522-04VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	carbon disulfide	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60522-04VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60522-04VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60522-04VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Methylene chloride	10.0	ND	ug/L	Q60522-04VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B

Sample: 060516001-01
Customer #: 0507372
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Doug Mugel
Sample Comment: Pumping 14 gal/min. VFW - well

Site: Oak Grove Village
Affiliation: USGS

Collect Date: 5/12/2006
Collect Time: 10:30:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Naphthalene	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q60522-04VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Toluene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60522-04VOA	8260B

Sample: 060516001-01
Customer #: 0507372
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Doug Mugel
Sample Comment: Pumping 14 gal/min. VFW - well

Site: Oak Grove Village
Affiliation: USGS

Collect Date: 5/12/2006
Collect Time: 10:30:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060516001
Report Date: 5/25/2006
Order Comment:

Program, Contact: HWP, Candy McGhee
LDPR: QEOAK/NJ00OAKG

Sample: 060516001-01
Customer #: 0507372
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Doug Mugel
Sample Comment: Pumping 14 gal/min. VFW - well

Site: Oak Grove Village
Affiliation: USGS

Collect Date: 5/12/2006
Collect Time: 10:30:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	2-Hexanone	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60522-04VOA	8260B

Sample: 060516001-01
Customer #: 0507372
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Doug Mugel
Sample Comment: Pumping 14 gal/min. VFW - well

Site: Oak Grove Village
Affiliation: USGS

Collect Date: 5/12/2006
Collect Time: 10:30:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	acetone	10.0	ND	ug/L	Q60522-04VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	carbon disulfide	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60522-04VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60522-04VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60522-04VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Methylene chloride	10.0	ND	ug/L	Q60522-04VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B

Sample: 060516001-01
Customer #: 0507372
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Doug Mugel
Sample Comment: Pumping 14 gal/min. VFW - well

Site: Oak Grove Village
Affiliation: USGS

Collect Date: 5/12/2006
Collect Time: 10:30:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Naphthalene	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q60522-04VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Toluene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60522-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60522-04VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60522-04VOA	8260B

Sample: 060516001-01
Customer #: 0507372
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Doug Mugel
Sample Comment: Pumping 14 gal/min. VFW - well

Site: Oak Grove Village
Affiliation: USGS

Collect Date: 5/12/2006
Collect Time: 10.30:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Environmental Services Program

RECEIVED
JUN 29 2006
Hazardous Waste Program
MO Dept. of Natural Resources

Order ID: 060609004 **Program, Contact:** HWP, Candy McGhee

Report Date: 6/23/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 060609004-01 **Facility ID:** **Site:** Oak Grove Village

Customer # : 0600096 **County:** Franklin **Sample Reference ID:** **Collect Date:** 6/7/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 12:35 PM

Matrix: Soils **Sample Comment:** Sample from cable tool bailer. Taken at 70 ft. 185 Garage. Lat. 38.22366 Long. -91.15456

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	41.1		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60613-11VOA	8260B

Sample: 060609004-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0600096 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 6/7/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 12:35 PM

Matrix: Soils | **Sample Comment:** Sample from cable tool bailer. Taken at 70 ft. 185 Garage. Lat. 38.22366 Long. -91.15456

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60613-11VOA	8260B

Date Printed: 6/23/2006

Sample: 060609004-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0600096 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 6/7/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 12:35 PM

Matrix: Soils | **Sample Comment:** Sample from cable tool bailer. Taken at 70 ft. 185 Garage. Lat. 38.22366 Long. -91.15456

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60613-11VOA	8260B

Sample: 060609004-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0602386 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 6/8/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** Bailer grab sample. Drill hole, taken at 110 ft. Lat. 38.22366 Long. -91.15456 - 185 Garage

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	33.0		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B

Date Printed: 6/23/2006

Sample: 060609004-02

Customer # : 0602386

Matrix: Soils

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 6/8/2006

Collector: Kurt Hollman

Affiliation: DGLS

Collect Time: 2:25 PM

Sample Comment: Bailer grab sample. Drill hole, taken at 110 ft.
Lat. 38.22366 Long. -91.15456 - 185 Garage

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B

Sample: 060609004-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0602386 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 6/8/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** Bailer grab sample. Drill hole, taken at 110 ft. Lat. 38.22366 Long. -91.15456 - 185 Garage

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60613-11VOA	8260B

Date Printed: 6/23/2006

Sample: 060609004-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0602386 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 6/8/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** Bailer grab sample. Drill hole, taken at 110 ft. Lat. 38.22366 Long. -91.15456 - 185 Garage

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60613-11VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60613-11VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01	Improper collection method	11	Estimated value, matrix interference
02	Improper preservation	12	Insufficient quantity
03	Exceeded holding time	13	Estimated value, true result is > reported value
04	Analyzed by Contract Laboratory	14	Estimated value, non-homogeneous sample
05	Estimated value, detected below PQL	15	No Result - Failed Quality Controls Requirements
06	Estimated value, QC data outside limits	16	Not analyzed - related analyte not detected
07	Estimated value, analyte outside calibration range	17	Results in dry weight
08	Analyte present in blank at > 1/2 reported value	18	Sample pH is outside the acceptable range
09	Sample was diluted during analysis	19	Estimated value
10	Laboratory error	ND	Not detected at reported value

Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Date Printed: 6/23/2006

Missouri Department of Natural Resources

Environmental Services Program

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Hazardous Waste Program
MO Dept. of Natural Resources

Order ID: 060623001 **Program, Contact:** HWP, Candy McGhee

Report Date: 6/29/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060623001-01 **Facility ID:** **Site:** Oak Grove Village

Customer # : 0602387 **County:** Franklin **Sample Reference ID:** **Collect Date:** 6/19/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 1:45 PM

Matrix: Misc Potable Water **Sample Comment:** Cable tool bailer, 18S Garage
Lat. 38.22366, Long.-91.15456.

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1-Dichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1-Dichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1-Dichloropropene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.30	05	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,3-Dichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	2,2-Dichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	2-Chlorotoluene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	4-Chlorotoluene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Benzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromochloromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromodichloromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC

Date Printed: 6/29/2006

Sample: 060623001-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0602387 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 6/19/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 1:45 PM

Matrix: Misc Potable Water | **Sample Comment:** Cable tool bailer, 18S Garage
Lat. 38.22366, Long.-91.15456.

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromoform	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromomethane	1.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Carbon Tetrachloride	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chloroform	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Dibromochloromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Dibromomethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Ethylbenzene	0.36	05	ug/L	Q60628-10voc	524.2/VOC
VOC	Hexachlorobutadiene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Isopropylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	m&p-Xylenes	0.46	05	ug/L	Q60628-10voc	524.2/VOC
VOC	Methylene chloride	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	n-Butylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	n-Propylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	o-Xylene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	p-isopropyltoluene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	sec-Butylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Styrene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	tert-Butylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Tetrachloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Toluene	0.73		ug/L	Q60628-10voc	524.2/VOC
VOC	Total THM	1.00	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Trichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Trichlorofluoromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Vinyl Chloride	0.25	ND	ug/L	Q60628-10voc	524.2/VOC

Date Printed: 6/29/2006

Sample: 060623001-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0602388 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 6/19/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 2:15 PM

Matrix: Misc Potable Water | **Sample Comment:** Cable tool bailer (5min.) Lat. 38.22366, Long.-91.15456.

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1-Dichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1-Dichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1-Dichloropropene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,3-Dichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	2,2-Dichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	2-Chlorotoluene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	4-Chlorotoluene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Benzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromochloromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromodichloromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromoform	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromomethane	1.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Carbon Tetrachloride	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chloroform	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC

Date Printed: 6/29/2006

Sample: 060623001-02

Customer # : 0602388

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 6/19/2006

Collector: Kurt Hollman

Affiliation: DGLS

Collect Time: 2:15 PM

Matrix: Misc Potable Water

Sample Comment: Cable tool bailer (5min.)
Lat. 38.22366, Long.-91.15456.

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	cis-1,3-Dichloropropene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Dibromochloromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Dibromomethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Ethylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Hexachlorobutadiene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Isopropylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	m&p-Xylenes	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Methylene chloride	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	n-Butylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	n-Propylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	o-Xylene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	p-isopropyltoluene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	sec-Butylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Styrene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	tert-Butylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Tetrachloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Toluene	0.34	05	ug/L	Q60628-10voc	524.2/VOC
VOC	Total THM	1.00	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Trichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Trichlorofluoromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Vinyl Chloride	0.25	ND	ug/L	Q60628-10voc	524.2/VOC

Date Printed: 6/29/2006

Sample: 060623001-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0602389 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 6/21/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 12:35 PM

Matrix: Misc Potable Water | **Sample Comment:** Cable tool bailer (1 min.) Lat. 38.22366, Long.-91.15456.

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1-Dichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1-Dichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,1-Dichloropropene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dichloroethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,2-Dichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,3-Dichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	2,2-Dichloropropane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	2-Chlorotoluene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	4-Chlorotoluene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Benzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromochloromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromodichloromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromoform	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Bromomethane	1.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Carbon Tetrachloride	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chlorobenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chloroform	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC

Date Printed: 6/29/2006

Sample: 060623001-03

Customer # : 0602389

Matrix: Misc Potable Water

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 6/21/2006

Collector: Kurt Hollman

Affiliation: DGLS

Collect Time: 12:35 PM

Sample Comment: Cable tool bailer (1 min.)
Lat. 38.22366, Long.-91.15456.

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	cis-1,3-Dichloropropene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Dibromochloromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Dibromomethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Ethylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Hexachlorobutadiene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Isopropylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	m&p-Xylenes	0.28	05	ug/L	Q60628-10voc	524.2/VOC
VOC	Methylene chloride	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	n-Butylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	n-Propylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	o-Xylene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	p-isopropyltoluene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	sec-Butylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Styrene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	tert-Butylbenzene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Tetrachloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Toluene	0.43	05	ug/L	Q60628-10voc	524.2/VOC
VOC	Total THM	1.00	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Trichloroethene	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Trichlorofluoromethane	0.25	ND	ug/L	Q60628-10voc	524.2/VOC
VOC	Vinyl Chloride	0.25	ND	ug/L	Q60628-10voc	524.2/VOC

Date Printed: 6/29/2006

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Cindy Zoechenthoff
for Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Qualifier Descriptions

01	Improper collection method	11	Estimated value, matrix interference
02	Improper preservation	12	Insufficient quantity
03	Exceeded holding time	13	Estimated value, true result is > reported value
04	Analyzed by Contract Laboratory	14	Estimated value, non-homogeneous sample
05	Estimated value, detected below PQL	15	No Result - Failed Quality Controls Requirements
06	Estimated value, QC data outside limits	16	Not analyzed - related analyte not detected
07	Estimated value, analyte outside calibration range	17	Results in dry weight
08	Analyte present in blank at > 1/2 reported value	18	Sample pH is outside the acceptable range
09	Sample was diluted during analysis	19	Estimated value
10	Laboratory error	ND	Not detected at reported value

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060912007 **Program, Contact:** HWP, Candy McGhee

Report Date: 9/14/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060912007-04 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0602395 **County:** Franklin **Collect Date:** 9/11/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 11:21:00 AM

Matrix: Misc Potable Water **Sample Comment:** 185 Garage MW-4
Lat. 38.22366 Long. -91.15456

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Field pH	pH	7.70		pH Units		EPA 150.1
Field Specific Conductivity	Specific Conductivity	517		umhos/c		SM 2510
Field Temperature	Temperature	15.8		degrees C		EPA 170.1
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-04
Customer #: 0602395
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 185 Garage MW-4
Lat. 38.22366 Long. -91.15456

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/11/2006
Collect Time: 11:21:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Hexanone	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	acetone	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	carbon disulfide	0.50	05	ug/L	Q60913-01VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60913-01VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-04
Customer #: 0602395
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 185 Garage MW-4
Lat. 38.22366 Long. -91.15456

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/11/2006
Collect Time: 11:21:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylene chloride	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Naphthalene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Tetrahydrofuran	10.3		ug/L	Q60913-01VOA	8260B
VOAs	Toluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-04
Customer #: 0602395
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: 185 Garage MW-4
Lat. 38.22366 Long. -91.15456

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/11/2006
Collect Time: 11:21:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Environmental Services Program

RECEIVED
OCT 3 0 2006
Hazardous Waste Program

Order ID: 061019005 **Program, Contact:** HWP, Candy McGhee

Report Date: 10/26/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 061019005-01 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer # : 0606177 **County:** Franklin **Sample Reference ID:** **Collect Date:** 10/17/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 3:00 PM

Matrix: Misc Potable Water **Sample Comment:** 185 Garage pump test

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.25	ND	ug/L	Q61025-02voc	524 2/VOC
VOC	1,1-Dichloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1-Dichloroethene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1-Dichloropropene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2-Dichloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2-Dichloropropane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.25	ND	ug/L	Q61025-02voc	524 2/VOC
VOC	1,3-Dichloropropane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	2,2-Dichloropropane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	2-Chlorotoluene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	4-Chlorotoluene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Benzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Bromobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Bromochloromethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Bromodichloromethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC

Date Printed: 10/26/2006

Sample: 061019005-01 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0606177 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 10/17/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 3:00 PM

Matrix: Misc Potable Water | **Sample Comment:** 185 Garage pump test

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromoform	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Bromomethane	1.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Carbon Tetrachloride	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Chlorobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Chloroform	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Dibromochloromethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Dibromomethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Ethylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Hexachlorobutadiene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Isopropylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	m&p-Xylenes	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Methylene chloride	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	n-Butylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	n-Propylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	o-Xylene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	p-isopropyltoluene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	sec-Butylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Styrene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	tert-Butylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Tetrachloroethene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Toluene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Total THM	1.00	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Trichloroethene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Trichlorofluoromethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Vinyl Chloride	0.25	ND	ug/L	Q61025-02voc	524.2/VOC

Date Printed: 10/26/2006

Sample: 061019005-02 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0606178 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 10/17/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 3:30 PM

Matrix: *Misc Potable Water* | **Sample Comment:** VFW pump test

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Dibromochloromethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Dibromomethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Ethylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Hexachlorobutadiene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Isopropylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	m&p-Xylenes	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Methylene chloride	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	n-Butylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	n-Propylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	o-Xylene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	p-isopropyltoluene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	sec-Butylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Styrene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	tert-Butylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Tetrachloroethene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Toluene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Total THM	1.00	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Trichloroethene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Trichlorofluoromethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Vinyl Chloride	0.25	ND	ug/L	Q61025-02voc	524.2/VOC

Date Printed: 10/26/2006

Sample: 061019005-02 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0606178 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 10/17/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 3:30 PM

Matrix: Misc Potable Water | **Sample Comment:** VFW pump test

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	1,1,1,2-Tetrachloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1-Dichloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1-Dichloroethene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,1-Dichloropropene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2-Dichloroethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,2-Dichloropropane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,3-Dichloropropane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	2,2-Dichloropropane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	2-Chlorotoluene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	4-Chlorotoluene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Benzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Bromobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Bromochloromethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Bromodichloromethane	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Bromoform	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Bromomethane	1.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Carbon Tetrachloride	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Chlorobenzene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Chloroform	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.25	ND	ug/L	Q61025-02voc	524.2/VOC

Date Printed: 10/26/2006

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Qualifier Descriptions

01	Improper collection method	11	Estimated value, matrix interference
02	Improper preservation	12	Insufficient quantity
03	Exceeded holding time	13	Estimated value, true result is > reported value
04	Analyzed by Contract Laboratory	14	Estimated value, non-homogeneous sample
05	Estimated value, detected below PQL	15	No Result - Failed Quality Controls Requirements
06	Estimated value, QC data outside limits	16	Not analyzed - related analyte not detected
07	Estimated value, analyte outside calibration range	17	Results in dry weight
08	Analyte present in blank at > 1/2 reported value	18	Sample pH is outside the acceptable range
09	Sample was diluted during analysis	19	Estimated value
10	Laboratory error	ND	Not detected at reported value

Date Printed: 10/26/2006

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 070223005 **Program, Contact:** HWP, Candy McGhee

Report Date: 3/5/2007 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 070223005-01 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0703631 **County:** Franklin **Collect Date:** 2/21/2007

Collector: Justin Davis **Affiliation:** HWP **Collect Time:** 10:00:00 AM

Matrix: Misc Potable Water **Sample Comment:** 185 Garage well

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Field Dissolved Oxygen	Dissolved Oxygen	6.00		mg/L		SM 4500-O-G
Field pH	pH	7.81		pH Units		EPA 150.1
Field Specific Conductivity	Specific Conductivity	500		umhos/c		SM 2510
Field Temperature	Temperature	15.5		degrees C		EPA 170.1
VOC	1,1,1,2-Tetrachloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.25	ND	ug/L	Q70228-03voc	524 2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1-Dichloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1-Dichloroethene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1-Dichloropropene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2-Dichloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2-Dichloropropane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,3-Dichloropropane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	2,2-Dichloropropane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	2-Chlorotoluene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	4-Chlorotoluene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Benzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC

Sample: 070223005-01
Customer #: 0703631
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Justin Davis
Sample Comment: 185 Garage well

Site: Oak Grove Village Well Site
Affiliation: HWP

Collect Date: 2/21/2007
Collect Time: 10:00:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Bromochloromethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Bromodichloromethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Bromoform	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Bromomethane	1.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Carbon Tetrachloride	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Chlorobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Chloroform	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Dibromochloromethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Dibromomethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Ethylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Hexachlorobutadiene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Isopropylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	m&p-Xylenes	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Methylene chloride	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	n-Butylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	n-Propylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	o-Xylene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	p-isopropyltoluene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	sec-Butylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Styrene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	tert-Butylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Tetrachloroethene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Toluene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Total THM	1.00	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Trichloroethene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Trichlorofluoromethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC

Sample: 070223005-01
Customer #: 0703631
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Justin Davis
Sample Comment: 185 Garage well

Site: Oak Grove Village Well Site
Affiliation: HWP

Collect Date: 2/21/2007
Collect Time: 10:00:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Vinyl Chloride	0.25	ND	ug/L	Q70228-03voc	524.2/VOC

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060810006 **Program, Contact:** HWP, Candy McGhee

Report Date: 8/24/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060810006-01 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0602400 **County:** Franklin **Collect Date:** 8/3/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 3:30:00 PM

Matrix: Misc Potable Water **Sample Comment:** Cable tool grab sample, cuttings and water from 155'.
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	2-Hexanone	1.00	ND	ug/L	Q60811-01VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60811-01VOA	8260B

Sample: 060810006-01
Customer #: 0602400
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: Cable tool grab sample, cuttings and water from 155'.
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 8/3/2006
Collect Time: 3:30:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	acetone	13.7	05	ug/L	Q60811-01VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60811-01VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	carbon disulfide	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60811-01VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60811-01VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60811-01VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60811-01VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60811-01VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Methylene chloride	10.0	ND	ug/L	Q60811-01VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60811-01VOA	8260B

Sample: 060810006-01
Customer #: 0602400
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: Cable tool grab sample, cuttings and water from 155'.
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 8/3/2006
Collect Time: 3:30:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Naphthalene	2.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60811-01VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q60811-01VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60811-01VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Toluene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60811-01VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60811-01VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60811-01VOA	8260B

Sample: 060810006-01
Customer #: 0602400
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: Cable tool grab sample, cuttings and water from 155'.
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 8/3/2006
Collect Time: 3:30:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060912007 **Program, Contact:** HWP, Candy McGhee

Report Date: 9/14/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060912007-02 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0602393 **County:** Franklin **Collect Date:** 9/1/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 3:08:00 PM

Matrix: Misc Potable Water **Sample Comment:** New Street well, 220'
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Hexanone	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-02
Customer #: 0602393
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: New Street well, 220'
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/1/2006
Collect Time: 3:08:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	acetone	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	carbon disulfide	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60913-01VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methylene chloride	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-02
Customer #: 0602393
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: New Street well, 220'
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/1/2006
Collect Time: 3:08:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Naphthalene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Toluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-02
Customer #: 0602393
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: New Street well, 220'
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/1/2006
Collect Time: 3:08:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060912007 **Program, Contact:** HWP, Candy McGhee

Report Date: 9/14/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060912007-03 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0602394 **County:** Franklin **Collect Date:** 9/5/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 2:00:00 PM

Matrix: Misc Potable Water **Sample Comment:** New Street Well 240
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Hexanone	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-03
Customer #: 0602394
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: New Street Well 240
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/5/2006
Collect Time: 2:00:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	acetone	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	carbon disulfide	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60913-01VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methylene chloride	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-03
Customer #: 0602394
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: New Street Well 240
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/5/2006
Collect Time: 2:00:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Naphthalene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Toluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-03
Customer #: 0602394
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: New Street Well 240
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/5/2006
Collect Time: 2:00:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 060912007 **Program, Contact:** HWP, Candy McGhee

Report Date: 9/14/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060912007-05 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0602396 **County:** Franklin **Collect Date:** 9/11/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 2:10:00 PM

Matrix: Misc Potable Water **Sample Comment:** New Street MW-5
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Field pH	pH	7.84		pH Units		EPA 150.1
Field Specific Conductivity	Specific Conductivity	386		umhos/c		SM 2510
Field Temperature	Temperature	18.4		degrees C		EPA 170.1
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-05
Customer #: 0602396
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: New Street MW-5
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/11/2006
Collect Time: 2:10:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Hexanone	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	acetone	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	carbon disulfide	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60913-01VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-05
Customer #: 0602396
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: New Street MW-5
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/11/2006
Collect Time: 2:10:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylene chloride	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Naphthalene	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q60913-01VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Toluene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60913-01VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60913-01VOA	8260B

Sample: 060912007-05
Customer #: 0602396
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Kurt Hollman
Sample Comment: New Street MW-5
Lat. 38.22563 Long. -91.15106

Site: Oak Grove Village Well Site
Affiliation: DGLS

Collect Date: 9/11/2006
Collect Time: 2:10:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

Missouri Department of Natural Resources

Environmental Services Program

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Hazardous Waste Program
MO Dept. of Natural Resources

Order ID: 061031004 **Program, Contact:** HWP, Candy McGhee

Report Date: 11/7/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 061031004-01 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer # : 0606179 **County:** Franklin **Sample Reference ID:** **Collect Date:** 10/30/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 2:15 PM

Matrix: Nonpotable Water **Sample Comment:** MW-5 Ditch Witch

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	2-Hexanone	1.00	ND	ug/L	Q61102-04VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q61102-04VOA	8260B

Date Printed: 11/7/2006

Sample: 061031004-01 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0606179 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 10/30/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 2:15 PM

Matrix: Nonpotable Water | **Sample Comment:** MW-5 Ditch Witch

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	acetone	10.0	ND	ug/L	Q61102-04VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q61102-04VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	carbon disulfide	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q61102-04VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q61102-04VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q61102-04VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q61102-04VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q61102-04VOA	8260B
VOAs	Methylene chloride	10.0	ND	ug/L	Q61102-04VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q61102-04VOA	8260B

Date Printed: 11/7/2006

Sample: 061031004-01 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0606179 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 10/30/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 2:15 PM

Matrix: Nonpotable Water | **Sample Comment:** MW-5 Ditch Witch

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Naphthalene	2.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q61102-04VOA	8260B
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q61102-04VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q61102-04VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Toluene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q61102-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q61102-04VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q61102-04VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01	Improper collection method	11	Estimated value, matrix interference
02	Improper preservation	12	Insufficient quantity
03	Exceeded holding time	13	Estimated value, true result is > reported value
04	Analyzed by Contract Laboratory	14	Estimated value, non-homogeneous sample
05	Estimated value, detected below PQL	15	No Result - Failed Quality Controls Requirements
06	Estimated value, QC data outside limits	16	Not analyzed - related analyte not detected
07	Estimated value, analyte outside calibration range	17	Results in dry weight
08	Analyte present in blank at > 1/2 reported value	18	Sample pH is outside the acceptable range
09	Sample was diluted during analysis	19	Estimated value
10	Laboratory error	ND	Not detected at reported value

Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Date Printed: 11/7/2006

Missouri Department of Natural Resources

Environmental Services Program

RECEIVED
AUG 16 2006
Hazardous Waste Program
MO Dept.

Order ID: 060807001 **Program, Contact:** HWP, Candy McGhee

Report Date: 8/14/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060807001-01 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer # : 0602390 **County:** Franklin **Sample Reference ID:** **Collect Date:** 7/26/2006

Collector: Kurt Hollman **Affiliation:** DGLS **Collect Time:** 2:00 PM

Matrix: Misc Potable Water **Sample Comment:** New Street, 50 ft., Lat.38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Hexanone	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60808-04VOA	8260B

Date Printed: 8/14/2006

Sample: 060807001-01

Customer # : 0602390

Matrix: Misc Potable Water

Facility ID:

County: Franklin

Collector: Kurt Hollman

Sample Comment: New Street, 50 ft., Lat.38.22563 Long. -91.15106

Site: Oak Grove Village Well Site

Sample Reference ID:

Affiliation: DGLS

Collect Date: 7/26/2006

Collect Time: 2:00 PM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	acetone	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	carbon disulfide	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60808-04VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methylene chloride	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60808-04VOA	8260B

Date Printed: 8/14/2006

Sample: 060807001-01

Customer # : 0602390

Facility ID: | **Site:** Oak Grove Village Well Site

County: Franklin | **Sample Reference ID:** | **Collect Date:** 7/26/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 2:00 PM

Matrix: Misc Potable Water | **Sample Comment:** New Street, 50 ft., Lat.38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Naphthalene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Toluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60808-04VOA	8260B

Sample: 060807001-02

Customer # : 0602391

Facility ID: | **Site:** Oak Grove Village Well Site

County: Franklin | **Sample Reference ID:** | **Collect Date:** 7/28/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 12:30 PM

Matrix: Misc Potable Water | **Sample Comment:** New Street, 75 ft. Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B

Date Printed: 8/14/2006

Sample: 060807001-02

Customer # : 0602391

Matrix: Misc Potable Water

Facility ID:

Site: Oak Grove Village Well Site

County: Franklin

Sample Reference ID:

Collect Date: 7/28/2006

Collector: Kurt Hollman

Affiliation: DGLS

Collect Time: 12:30 PM

Sample Comment: New Street, 75 ft.
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Hexanone	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	acetone	19.2	05	ug/L	Q60808-04VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60808-04VOA	8260B

Date Printed: 8/14/2006

Sample: 060807001-02 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0602391 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 7/28/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 12:30 PM

Matrix: Misc Potable Water | **Sample Comment:** New Street, 75 ft.
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	carbon disulfide	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroform	0.61	05	ug/L	Q60808-04VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60808-04VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methylene chloride	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Naphthalene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60808-04VOA	8260B

Date Printed: 8/14/2006

Sample: 060807001-02 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0602391 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 7/28/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 12:30 PM

Matrix: Misc Potable Water | **Sample Comment:** New Street, 75 ft.
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Toluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60808-04VOA	8260B

Sample: 060807001-03 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0602392 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/2/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 2:00 PM

Matrix: Misc Potable Water | **Sample Comment:** New Street, First Water, 142 ft.
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60808-04VOA	8260B

Sample: 060807001-03 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0602392 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/2/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 2:00 PM

Matrix: Misc Potable Water | **Sample Comment:** New Street, First Water, 142 ft. Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Hexanone	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	acetone	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	carbon disulfide	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60808-04VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60808-04VOA	8260B

Date Printed: 8/14/2006

Sample: 060807001-03 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0602392 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/2/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 2:00 PM

Matrix: Misc Potable Water | **Sample Comment:** New Street, First Water, 142 ft. Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	Ethylbenzene	0.53	05	ug/L	Q60808-04VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methylene chloride	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Naphthalene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	p-isopropyltoluene	1.18		ug/L	Q60808-04VOA	8260B
VOAs	Propionitrile	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Toluene	0.99	05	ug/L	Q60808-04VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60808-04VOA	8260B

Date Printed: 8/14/2006

Sample: 060807001-04 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0602430 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/4/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 12:45 PM

Matrix: Misc Potable Water | **Sample Comment:** New Street, 170 ft.
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,1-Trichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1,2-Trichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloropropanone	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,1-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,3-Trichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,2-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,3-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1,4-Dichlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	1-Chorobutane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2,2-Dichloropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Butanone (MEK)	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Chlorotoluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Hexanone	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	2-Nitropropane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	4-Chlorotoluene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	acetone	12.1	05	ug/L	Q60808-04VOA	8260B
VOAs	Acrylonitrile	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Allyl Chloride	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Benzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromochloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B

Date Printed: 8/14/2006

Sample: 060807001-04 | **Facility ID:** | **Site:** Oak Grove Village Well Site

Customer # : 0602430 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/4/2006

Collector: Kurt Hollman | **Affiliation:** DGLS | **Collect Time:** 12:45 PM

Matrix: Misc Potable Water | **Sample Comment:** New Street, 170 ft.
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromodichloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromoform	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Bromomethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	carbon disulfide	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Carbon Tetrachloride	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroacetonitrile	12.5	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chlorobenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloroform	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Chloromethane	12.5	ND	ug/L	Q60808-04VOA	8260B
VOAs	cis-1,2-dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dibromochloromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dibromomethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Dichlorodifluoromethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Diethyl ether	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	Ethylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Ethylmethacrylate	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Hexachlorobutadiene	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Hexachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Iodomethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Isopropylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	m&p-Xylenes	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methacrylonitrile	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methyl Acrylate	5.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methylene chloride	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methylmethacrylate	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Methyl-t-butyl ether	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Naphthalene	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	n-Butylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Nitrobenzene	5.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	n-Propylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	o-Xylene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Pentachloroethane	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	p-isopropyltoluene	0.50	ND	ug/L	Q60808-04VOA	8260B

Date Printed: 8/14/2006

Sample: 060807001-04

Customer # : 0602430

Facility ID:

Site: Oak Grove Village Well Site

County: Franklin

Sample Reference ID:

Collect Date: 8/4/2006

Collector: Kurt Hollman

Affiliation: DGLS

Collect Time: 12:45 PM

Matrix: Misc Potable Water

Sample Comment: New Street, 170 ft.
Lat. 38.22563 Long. -91.15106

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Propionitrile	10.0	ND	ug/L	Q60808-04VOA	8260B
VOAs	sec-Butylbenzene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Styrene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	tert-Butylbenzene	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	Tetrachloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Tetrahydrofuran	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Toluene	0.98	05	ug/L	Q60808-04VOA	8260B
VOAs	Total Xylenes	1.00	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Trichloroethene	0.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Trichlorofluoromethane	2.50	ND	ug/L	Q60808-04VOA	8260B
VOAs	Vinyl Chloride	0.50	ND	ug/L	Q60808-04VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01	Improper collection method	11	Estimated value, matrix interference
02	Improper preservation	12	Insufficient quantity
03	Exceeded holding time	13	Estimated value, true result is > reported value
04	Analyzed by Contract Laboratory	14	Estimated value, non-homogeneous sample
05	Estimated value, detected below PQL	15	No Result - Failed Quality Controls Requirements
06	Estimated value, QC data outside limits	16	Not analyzed - related analyte not detected
07	Estimated value, analyte outside calibration range	17	Results in dry weight
08	Analyte present in blank at > 1/2 reported value	18	Sample pH is outside the acceptable range
09	Sample was diluted during analysis	19	Estimated value
10	Laboratory error	ND	Not detected at reported value

Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Date Printed: 8/14/2006

Missouri Department of Natural Resources

Hazardous Waste Program

Order ID: 070223005 **Program, Contact:** HWP, Candy McGhee

Report Date: 3/5/2007 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 070223005-02 **Facility ID:** **Site:** Oak Grove Village Well Site

Customer #: 0703633 **County:** Franklin **Collect Date:** 2/21/2007

Collector: Justin Davis **Affiliation:** HWP **Collect Time:** 10:00:00 AM

Matrix: Misc Potable Water **Sample Comment:** Ditch witch well

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Field Dissolved Oxygen	Dissolved Oxygen	7.00		mg/L		SM 4500-O-G
Field pH	pH	7.90		pH Units		EPA 150.1
Field Specific Conductivity	Specific Conductivity	361		umhos/c		SM 2510
Field Temperature	Temperature	17.1		degrees C		EPA 170.1
VOC	1,1,1,2-Tetrachloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1,1-Trichloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1,2,2-Tetrachloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1,2-Trichloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1-Dichloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1-Dichloroethene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,1-Dichloropropene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2,3-Trichlorobenzene	0.50	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2,3-Trichloropropane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2,4-Trichlorobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2,4-Trimethylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2-Dibromo-3-chloropropane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2-Dibromoethane (EDB)	0.05	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2-Dichlorobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2-Dichloroethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,2-Dichloropropane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,3,5-Trimethylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,3-Dichlorobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,3-Dichloropropane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	1,4-Dichlorobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	2,2-Dichloropropane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	2-Chlorotoluene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	4-Chlorotoluene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Benzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC

Sample: 070223005-02
Customer #: 0703633
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Justin Davis
Sample Comment: Ditch witch well

Site: Oak Grove Village Well Site
Affiliation: HWP

Collect Date: 2/21/2007
Collect Time: 10:00:00 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOC	Bromobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Bromochloromethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Bromodichloromethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Bromoform	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Bromomethane	1.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Carbon Tetrachloride	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Chlorobenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Chloroethane	2.50	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Chloroform	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Chloromethane	5.00	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	cis-1,2-dichloroethene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	cis-1,3-Dichloropropene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Dibromochloromethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Dibromomethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Dichlorodifluoromethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Ethylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Hexachlorobutadiene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Isopropylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	m&p-Xylenes	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Methyl-t-butyl ether	0.50	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Methylene chloride	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	n-Butylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	n-Propylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Naphthalene	0.50	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	o-Xylene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	p-isopropyltoluene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	sec-Butylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Styrene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	tert-Butylbenzene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Tetrachloroethene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Toluene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Total THM	1.00	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Total Xylenes	0.50	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	trans-1,2-Dichloroethene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	trans-1,3-Dichloropropene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Trichloroethene	0.25	ND	ug/L	Q70228-03voc	524.2/VOC
VOC	Trichlorofluoromethane	0.25	ND	ug/L	Q70228-03voc	524.2/VOC

Sample: 070223005-02
Customer #: 0703633
Matrix: Misc Potable Water

Facility ID:
County: Franklin
Collector: Justin Davis
Sample Comment: Ditch witch well

Site: Oak Grove Village Well Site
Affiliation: HWP

Collect Date: 2/21/2007
Collect Time: 10:00:00 AM

Test	Parameter		Result	Qualifier	Units	QC BatchID	Method
VOC	Vinyl Chloride	0.25		ND	ug/L	Q70228-03voc	524.2/VOC

Qualifier	Description
01	Improper collection method
02	Improper preservation
03	Exceeded holding time
04	Analyzed by Contract Laboratory
05	Estimated value, detected below PQL
06	Estimated value, QC data outside limits
07	Estimated value, analyte outside calibration range
08	Analyte present in blank at > 1/2 reported value
09	PQL elevated due to sample dilution
10	Laboratory error
11	Estimated value, matrix interference
12	Insufficient quantity
13	Estimated value, true result is > reported value
14	Estimated value, non-homogeneous sample
15	No Result - failed quality controls requirements
16	Not analyzed - related analyte not detected
17	Results in dry weight
18	Sample pH is outside the acceptable range

APPENDIX D

Missouri Department of Natural Resources

Environmental Services Program

Order ID: 060329001 **Program, Contact:** HWP, Candy McGhee

Report Date: 4/6/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 060329001-01 **Facility ID:** **Site:** Blanton Oil Company

Customer # : 0600071 **County:** Franklin **Sample Reference ID:** **Collect Date:** 3/23/2006

Collector: Terry Hawkins **Affiliation:** DGLS **Collect Time:** 10:30 AM

Matrix: Soils **Sample Comment:** North of Concrete Pad-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	22.7		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-01 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600071 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 10:30 AM

Matrix: Soils | **Sample Comment:** North of Concrete Pad-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-01 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600071 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 10:30 AM

Matrix: Soils | **Sample Comment:** North of Concrete Pad-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-02 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600072 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 10:35 AM

Matrix: Soils | **Sample Comment:** North of Concrete Pad-Geoprobe QAQC

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	17.1		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-02 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600072 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 10:35 AM

Matrix: Soils | **Sample Comment:** North of Concrete Pad-Geoprobe QAQC

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-02 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600072 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 10:35 AM

Matrix: Soils | **Sample Comment:** North of Concrete Pad-Geoprobe QAQC

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-02 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600072 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 10:35 AM

Matrix: Soils | **Sample Comment:** North of Concrete Pad-Geoprobe QAQC

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-03 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600075 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 11:15 AM

Matrix: Soils | **Sample Comment:** North of Concrete Pad-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	17.6		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-03 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600075 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 11:15 AM

Matrix: Soils | **Sample Comment:** North of Concrete Pad-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-03 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600075 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 11:15 AM

Matrix: Soils | **Sample Comment:** North of Concrete Pad-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	*Methylene chloride*	*50.0*	***ND,17***	*ug/kg*	Q60331-04VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-04 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600078 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 11:55 AM

Matrix: Soils | **Sample Comment:** 25 feet North of G4-1-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	11.0		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-04 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600078 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 11:55.AM

Matrix: Soils | **Sample Comment:** 25 feet North of G4-1-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-04 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600078 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 11:55 AM

Matrix: Soils | **Sample Comment:** 25 feet North of G4-1-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-05 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600080 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 12:25 PM

Matrix: Soils | **Sample Comment:** 25 feet North of Concrete Slab-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	17.0		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-05 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600080 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 12:25 PM

Matrix: Soils | **Sample Comment:** 25 feet North of Concrete Slab-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-05 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600080 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 12:25 PM

Matrix: Soils | **Sample Comment:** 25 feet North of Concrete Slab-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-06 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600081 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 12:35 PM

Matrix: Soils | **Sample Comment:** Southwest side of back of property-Geoprobe Tank Pit

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	16.5		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.61	05,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Benzene	7.70	17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-06 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600081 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 12:35 PM

Matrix: Soils | **Sample Comment:** Southwest side of back of property-Geoprobe Tank Pit

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylbenzene	11.5	17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Isopropylbenzene	14.6	17	ug/kg	Q60331-04VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Naphthalene	22.5	05,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Butylbenzene	16.5	17	ug/kg	Q60331-04VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Propylbenzene	52.2	17	ug/kg	Q60331-04VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-06 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600081 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 12:35 PM

Matrix: Soils | **Sample Comment:** Southwest side of back of property-Geoprobe Tank Pit

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	sec-Butylbenzene	5.76	**17**	ug/kg	Q60331-04VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-07 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600083 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 1:40 PM

Matrix: Soils | **Sample Comment:** Back of building-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	22.1		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-07 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600083 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 1:40 PM

Matrix: Soils | **Sample Comment:** Back of building-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-07 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600083 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 1:40 PM

Matrix: Soils | **Sample Comment:** Back of building-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-07 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600083 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 1:40 PM

Matrix: Soils | **Sample Comment:** Back of building-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-08 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600084 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 1:55 PM

Matrix: Soils | **Sample Comment:** Back of building-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	22.9		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-08 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600084 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 1:55 PM

Matrix: Soils | **Sample Comment:** Back of building-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-08 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600084 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 1:55 PM

Matrix: Soils | **Sample Comment:** Back of building-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl-t-butyl ether	5.21	**17**	ug/kg	Q60331-04VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-09 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600086 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** Loading Dock-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	20.3		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-09 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600086 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** Loading Dock-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	acetone	110	17	ug/kg	Q60331-04VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-09 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600086 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** Loading Dock-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Methyl-t-butyl ether	34.8	17	ug/kg	Q60331-04VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60331-04VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60331-04VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-09 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600086 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** Loading Dock-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60331-04VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60331-04VOA	8260B

Sample: 060329001-10 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600087 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 2:45 PM

Matrix: Soils | **Sample Comment:** Loading Dock-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	17.1		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,1,1-Trichloroethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,1,2-Trichloroethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,1-Dichloroethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,1-Dichloroethene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,1-Dichloropropanone	25.0	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,1-Dichloropropene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,2,3-Trichlorobenzene	62.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,2,3-Trichloropropane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,2,4-Trichlorobenzene	62.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,2,4-Trimethylbenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,2-Dichlorobenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,2-Dichloroethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B

Sample: 060329001-10 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600087 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 2:45 PM

Matrix: Soils | **Sample Comment:** Loading Dock-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2-Dichloropropane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,3,5-Trimethylbenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,3-Dichlorobenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,3-Dichloropropane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1,4-Dichlorobenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	1-Chorobutane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	2,2-Dichloropropane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	2-Butanone (MEK)	62.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	2-Chlorotoluene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	2-Hexanone	25.0	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	2-Nitropropane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	4-Chlorotoluene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	acetone	250	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Acrylonitrile	25.0	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Allyl Chloride	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Benzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Bromobenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Bromochloromethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Bromodichloromethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Bromoform	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Bromomethane	62.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	carbon disulfide	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Carbon Tetrachloride	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Chloroacetonitrile	312	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Chlorobenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Chloroethane	62.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Chloroform	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Chloromethane	312	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	cis-1,2-dichloroethene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	cis-1,3-Dichloropropene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Dibromochloromethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Dibromomethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Dichlorodifluoromethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Diethyl ether	250	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Ethylbenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B

Sample: 060329001-10 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600087 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:** 2:45 PM

Matrix: Soils | **Sample Comment:** Loading Dock-Geoprobe

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Ethylmethacrylate	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Hexachlorobutadiene	25.0	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Hexachloroethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Iodomethane	62.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Isopropylbenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	m&p-Xylenes	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Methacrylonitrile	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Methyl Acrylate	125	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Methylene chloride	250	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Methylmethacrylate	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Methyl-t-butyl ether	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Naphthalene	62.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	n-Butylbenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Nitrobenzene	125	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	n-Propylbenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	o-Xylene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Pentachloroethane	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	p-isopropyltoluene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Propionitrile	250	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	sec-Butylbenzene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Styrene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	tert-Butylbenzene	25.0	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Tetrachloroethene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Tetrahydrofuran	62.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Toluene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Total Xylenes	25.0	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	trans-1,2-Dichloroethene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	trans-1,3-Dichloropropene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Trichloroethene	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Trichlorofluoromethane	62.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Vinyl Chloride	12.5	**09, ND,17**	ug/kg	Q60403-02VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-11 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600088 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:**

Matrix: Soils | **Sample Comment:** Taken from Geoprobe in dock area at 6 feet

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	22.8		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60403-02VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60403-02VOA	8260B

Sample: 060329001-11 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600088 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:**

Matrix: Soils | **Sample Comment:** Taken from Geoprobe in dock area at 6 feet

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q60403-02VOA	8260B

Date Printed: 4/6/2006

Sample: 060329001-11 | **Facility ID:** | **Site:** Blanton Oil Company

Customer # : 0600088 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 3/23/2006

Collector: Terry Hawkins | **Affiliation:** DGLS | **Collect Time:**

Matrix: Soils | **Sample Comment:** Taken from Geoprobe in dock area at 6 feet

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60403-02VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60403-02VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01 Improper collection method	11 Estimated value, matrix interference
02 Improper preservation	12 Insufficient quantity
03 Exceeded holding time	13 Estimated value, true result is > reported value
04 Analyzed by Contract Laboratory	14 Estimated value, non-homogeneous sample
05 Estimated value, detected below PQL	15 No Result - Failed Quality Controls Requirements
06 Estimated value, QC data outside limits	16 Not analyzed - related analyte not detected
07 Estimated value, analyte outside calibration range	17 Results in dry weight
08 Analyte present in blank at > 1/2 reported value	18 Sample pH is outside the acceptable range
09 Sample was diluted during analysis	ND Not detected at reported value
10 Laboratory error	

for:

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Date Printed: 4/6/2006

Missouri Department of Natural Resources

Environmental Services Program

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APR 27 2006
Hazardous Waste Program
MO

Order ID: 060414010 **Program, Contact:** HWP, Candy McGhee

Report Date: 4/26/2006 **LDPR:** QEOAK/NJ00OAKG

Order Comment:

Sample: 060414010-01 **Facility ID:** **Site:** Oak Grove Village

Customer #: 0604001 **County:** Franklin **Sample Reference ID:** **Collect Date:** 4/13/2006

Collector: Peter Bachle **Affiliation:** DGLS **Collect Time:** 9:30 AM

Matrix: Soils **Sample Comment:** 185 Garage
185G-BH1-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	28.3		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604001 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 9:30 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH1-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60424-03VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604001 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 9:30 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH1-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Toluene	6.31	17	ug/kg	Q60424-03VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604002 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 9:45 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH1-2 (5)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	22.2		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604002 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 9:45 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH1-2 (5)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604002 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 9:45 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH1-2 (5)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604002 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 9:45 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH1-2 (5)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Toluene	8.76	17	ug/kg	Q60424-03VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604003 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 9:55 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH2-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	24.9		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604003 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 9:55 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH2-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Benzene	3.17	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604003 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 9:55 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH2-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylbenzene	2.81	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	m&p-Xylenes	3.62	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	o-Xylene	3.29	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	p-Isopropyltoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Toluene	16.6	17	ug/kg	Q60424-03VOA	8260B
VOAs	Total Xylenes	6.92	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-03

Customer # : 0604003

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 4/13/2006

Collector: Peter Bachle

Affiliation: DGLS

Collect Time: 9:55 AM

Matrix: Soils

Sample Comment: 185 Garage
185G-BH2-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-04

Customer # : 0604004

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 4/13/2006

Collector: Peter Bachle

Affiliation: DGLS

Collect Time: 10:00 AM

Matrix: Soils

Sample Comment: 185 Garage
185G-BH2-2 (4-7)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	18.3		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.60	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604004 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | ***Affiliation:*** *DGLS* | **Collect Time:** 10:00 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH2-2 (4-7)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Benzene	5.07	17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylbenzene	5.29	17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604004 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 10:00 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH2-2 (4-7)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	m&p-Xylenes	7.13	17	ug/kg	Q60424-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	o-Xylene	5.57	17	ug/kg	Q60424-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Toluene	29.1	17	ug/kg	Q60424-03VOA	8260B
VOAs	Total Xylenes	12.7	17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604005 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 10:09 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH3-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	22.4		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604005 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 10:09 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH3-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604005 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 10:09 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH3-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Toluene	4.31	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-06 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604006 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 10:18 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH3-2 (4-8)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	26.8		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-06

Customer # : 0604006

Matrix: Soils

Facility ID:

County: Franklin

Collector: Peter Bachle

Sample Comment: 185 Garage
185G-BH3-2 (4-8)

Site: Oak Grove Village

Sample Reference ID:

Affiliation: DGLS

Collect Date: 4/13/2006

Collect Time: 10:18 AM

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Benzene	3.41	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-06 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604006 | **County:** Franklin | ***Sample Reference ID:*** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 10:18 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH3-2 (4-8)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	m&p-Xylenes	3.11	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl-t-butyl ether	9.89	17	ug/kg	Q60424-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	p-Isopropyltoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Toluene	18.5	17	ug/kg	Q60424-03VOA	8260B
VOAs	Total Xylenes	5.35	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-06 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604006 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 10:18 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH3-2 (4-8)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-07 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604007 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 10:38 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH3-3 (8-12)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	14.6		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,1-Trichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2-Trichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropanone	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,3-Trichlorobenzene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,3-Trichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trichlorobenzene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trimethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3,5-Trimethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Sample: 060414010-07 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604007 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 10:38 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH3-3 (8-12)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,3-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,4-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1-Chorobutane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2,2-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Butanone (MEK)	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Chlorotoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Hexanone	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Nitropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Chlorotoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	acetone	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Acrylonitrile	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Allyl Chloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Benzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromochloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromodichloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromoform	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromomethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	carbon disulfide	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Carbon Tetrachloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroacetonitrile	125	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroform	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloromethane	125	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,2-dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,3-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromochloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromomethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dichlorodifluoromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Diethyl ether	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylmethacrylate	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Hexachlorobutadiene	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-07 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604007 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 10:38 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH3-3 (8-12)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Hexachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Iodomethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Isopropylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	m&p-Xylenes	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methacrylonitrile	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl Acrylate	50.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylene chloride	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylmethacrylate	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl-t-butyl ether	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Naphthalene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Butylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Nitrobenzene	50.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Propylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	o-Xylene	5.22	09, 05,17	ug/kg	Q60424-07VOA	8260B
VOAs	Pentachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	p-isopropyltoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Propionitrile	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	sec-Butylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Styrene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	tert-Butylbenzene	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrachloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrahydrofuran	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Toluene	9.21	09, 05,17	ug/kg	Q60424-07VOA	8260B
VOAs	Total Xylenes	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,2-Dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,3-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichlorofluoromethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Vinyl Chloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-08 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604008 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 11:00 AM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH4-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	11.2		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Benzene	2.50	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-08

Customer # : 0604008

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 4/13/2006

Collector: Peter Bachle

Affiliation: DGLS

Collect Time: 11:00 AM

Matrix: Soils

Sample Comment: 185 Garage
185G-BH4-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylbenzene	2.54	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	m&p-Xylenes	3.44	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	o-Xylene	2.95	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-08 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604008 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 11:00 AM

Matrix: Soils | **Sample Comment:** 185 Garage 185G-BH4-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Toluene	13.9	17	ug/kg	Q60424-03VOA	8260B
VOAs	Total Xylenes	6.39	05,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60424-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60424-03VOA	8260B

Sample: 060414010-09 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604009 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:00 PM

Matrix: Soils | **Sample Comment:** 185 Garage 185G-BH5-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	15.9		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,1-Trichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2-Trichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropanone	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,3-Trichlorobenzene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B

Sample: 060414010-09 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604009 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:00 PM

Matrix: Soils | **Sample Comment;** 185 Garage
185G-BH5-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,3-Trichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trichlorobenzene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trimethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3,5-Trimethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,4-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1-Chorobutane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2,2-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Butanone (MEK)	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Chlorotoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Hexanone	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Nitropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Chlorotoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	acetone	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Acrylonitrile	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Allyl Chloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Benzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromochloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromodichloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromoform	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromomethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	carbon disulfide	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Carbon Tetrachloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroacetonitrile	125	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroform	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-09 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604009 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:00 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH5-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Chloromethane	125	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,2-dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,3-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromochloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromomethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dichlorodifluoromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Diethyl ether	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylmethacrylate	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Hexachlorobutadiene	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Hexachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Iodomethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Isopropylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	m&p-Xylenes	5.87	09, 05,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methacrylonitrile	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl Acrylate	50.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylene chloride	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylmethacrylate	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl-t-butyl ether	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Naphthalene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Butylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Nitrobenzene	50.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Propylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	o-Xylene	5.18	09, 05,17	ug/kg	Q60424-07VOA	8260B
VOAs	Pentachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	p-isopropyltoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Propionitrile	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	sec-Butylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Styrene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	tert-Butylbenzene	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrachloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrahydrofuran	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Toluene	14.0	09,17	ug/kg	Q60424-07VOA	8260B
VOAs	Total Xylenes	11.0	09, 05,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,2-Dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-09 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604009 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:00 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH5-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	trans-1,3-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichlorofluoromethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Vinyl Chloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Sample: 060414010-10 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604010 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:07 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH5-2 (4-5)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	21.6		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B

Sample: 060414010-10 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604010 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:07 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH5-2 (4-5)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60424-07VOA	8260B

Sample: 060414010-10

Customer # : 0604010

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 4/13/2006

Collector: Peter Bachle

Affiliation: DGLS

Collect Time: 12:07 PM

Matrix: Soils

Sample Comment: 185 Garage
185G-BH5-2 (4-5)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	m&p-Xylenes	3.13	05,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	o-Xylene	2.57	05,17	ug/kg	Q60424-07VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Toluene	11.0	17	ug/kg	Q60424-07VOA	8260B
VOAs	Total Xylenes	5.70	05,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60424-07VOA	8260B

Sample: 060414010-11 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604011 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:35 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH6-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	18.0		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,1-Trichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2-Trichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropanone	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,3-Trichlorobenzene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,3-Trichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trichlorobenzene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trimethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3,5-Trimethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,4-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1-Chorobutane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2,2-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Butanone (MEK)	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Chlorotoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Hexanone	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Nitropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Chlorotoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	acetone	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Acrylonitrile	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Allyl Chloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Benzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Sample: 060414010-11 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604011 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:35 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH6-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromochloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromodichloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromoform	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromomethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	carbon disulfide	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Carbon Tetrachloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroacetonitrile	125	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroform	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloromethane	125	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,2-dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,3-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromochloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromomethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dichlorodifluoromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Diethyl ether	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylmethacrylate	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Hexachlorobutadiene	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Hexachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Iodomethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Isopropylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	m&p-Xylenes	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methacrylonitrile	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl Acrylate	50.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylene chloride	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylmethacrylate	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl-t-butyl ether	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Naphthalene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Butylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Nitrobenzene	50.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Propylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	o-Xylene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Pentachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-11 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604011 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:35 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH6-1 (0-4)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	p-isopropyltoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Propionitrile	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	sec-Butylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Styrene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	tert-Butylbenzene	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrachloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrahydrofuran	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Toluene	17.1	09,17	ug/kg	Q60424-07VOA	8260B
VOAs	Total Xylenes	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,2-Dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,3-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichlorofluoromethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Vinyl Chloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Sample: 060414010-12 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604012 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:40 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH6-2 (4-7)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	8.85		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,1-Trichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2-Trichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropanone	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,3-Trichlorobenzene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-12 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604012 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:40 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH6-2 (4-7)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,3-Trichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trichlorobenzene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trimethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3,5-Trimethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,4-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1-Chorobutane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2,2-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Butanone (MEK)	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Chlorotoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Hexanone	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Nitropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Chlorotoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	acetone	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Acrylonitrile	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Allyl Chloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Benzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromochloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromodichloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromoform	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromomethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	carbon disulfide	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Carbon Tetrachloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroacetonitrile	125	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroform	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-12 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604012 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:40 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH6-2 (4-7)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Chloromethane	125	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,2-dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,3-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromochloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromomethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dichlorodifluoromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Diethyl ether	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylmethacrylate	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Hexachlorobutadiene	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Hexachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Iodomethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Isopropylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	m&p-Xylenes	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methacrylonitrile	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl Acrylate	50.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylene chloride	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylmethacrylate	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl-t-butyl ether	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Naphthalene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Butylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Nitrobenzene	50.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Propylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	o-Xylene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Pentachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	p-isopropyltoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Propionitrile	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	sec-Butylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Styrene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	tert-Butylbenzene	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrachloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrahydrofuran	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Toluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Total Xylenes	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,2-Dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-12 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604012 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:40 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH6-2 (4-7)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	trans-1,3-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichlorofluoromethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Vinyl Chloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Sample: 060414010-13 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604013 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:45 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH4-2 (7-8)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	8.92		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,1-Trichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1,2-Trichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropanone	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,1-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,3-Trichlorobenzene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,3-Trichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trichlorobenzene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2,4-Trimethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,2-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3,5-Trimethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,3-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

Sample: 060414010-13 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604013 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:45 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH4-2 (7-8)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,3-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1,4-Dichlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	1-Chorobutane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2,2-Dichloropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Butanone (MEK)	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Chlorotoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Hexanone	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	2-Nitropropane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Chlorotoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	acetone	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Acrylonitrile	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Allyl Chloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Benzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromochloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromodichloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromoform	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Bromomethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	carbon disulfide	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Carbon Tetrachloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroacetonitrile	125	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chlorobenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloroform	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Chloromethane	125	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,2-dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	cis-1,3-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromochloromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dibromomethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Dichlorodifluoromethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Diethyl ether	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Ethylmethacrylate	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Hexachlorobutadiene	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B

Date Printed: 4/26/2006

Sample: 060414010-13 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0604013 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 4/13/2006

Collector: Peter Bachle | **Affiliation:** DGLS | **Collect Time:** 12:45 PM

Matrix: Soils | **Sample Comment:** 185 Garage
185G-BH4-2 (7-8)

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Hexachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Iodomethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Isopropylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	m&p-Xylenes	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methacrylonitrile	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl Acrylate	50.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylene chloride	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methylmethacrylate	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Methyl-t-butyl ether	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Naphthalene	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Butylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Nitrobenzene	50.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	n-Propylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	o-Xylene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Pentachloroethane	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	p-isopropyltoluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Propionitrile	100	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	sec-Butylbenzene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Styrene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	tert-Butylbenzene	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrachloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Tetrahydrofuran	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Toluene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Total Xylenes	10.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,2-Dichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,3-Dichloropropene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichloroethene	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Trichlorofluoromethane	25.0	09, ND,17	ug/kg	Q60424-07VOA	8260B
VOAs	Vinyl Chloride	5.00	09, ND,17	ug/kg	Q60424-07VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recogn[illegible]by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01	Improper collection method	11	Estimated value, matrix interference
02	Improper preservation	12	Insufficient quantity
03	Exceeded holding time	13	Estimated value, true result is > reported value
04	Analyzed by Contract Laboratory	14	Estimated value, non-homogeneous sample
05	Estimated value, detected below PQL	15	No Result - Failed Quality Controls Requirements
06	Estimated value, QC data outside limits	16	Not analyzed - related analyte not detected
07	Estimated value, analyte outside calibration range	17	Results in dry weight
08	Analyte present in blank at > 1/2 reported value	18	Sample pH is outside the acceptable range
09	Sample was diluted during analysis	19	Estimated value
10	Laboratory error	ND	Not detected at reported value

Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Date Printed: 4/26/2006

Missouri Department of Natural Resources

Environmental Services Program

Order ID: 060815007 **Program, Contact:** HWP, Candy McGhee

Report Date: 8/25/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060815007-01 **Facility ID:** **Site:** Oak Grove Village

Customer # : 0603023 **County:** Franklin **Sample Reference ID:** **Collect Date:** 8/14/2006

Collector: Hugh Murrell **Affiliation:** ESP **Collect Time:** 1:35 PM

Matrix: Soils **Sample Comment:** SB-1 @ 12 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	23700	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	5870	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	24.3		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	13200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	13200	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B

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Hazardous Waste Program
MO Dept. of Natural Resources

Date Printed: 8/25/2006

Sample: 060815007-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603023 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 1:35 PM

Matrix: Soils | **Sample Comment:** SB-1 @ 12 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603023 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 1:35 PM

Matrix: Soils | **Sample Comment:** SB-1 @ 12 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603023 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 1:35 PM

Matrix: Soils | **Sample Comment:** SB-1 @ 12 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603024 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:00 PM

Matrix: Soils | **Sample Comment:** SB-2 @ 16' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	24400	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	3890	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	32.2		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	14700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	14700	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603024 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:00 PM

Matrix: Soils | **Sample Comment:** SB-2 @ 16' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	36.4	17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	11.8	17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,4-Dichlorobenzene	16.6	17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	9.37	17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	45.4	17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603024 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:00 PM

Matrix: Soils | **Sample Comment:** SB-2 @ 16' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Isopropylbenzene	3.01	05,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	21.4	17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	8.59	17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	8.97	17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	9.32	17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603024 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:00 PM

Matrix: Soils | **Sample Comment:** SB-2 @ 16' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603025 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:20 PM

Matrix: Soils | **Sample Comment:** SB-17 @ 14-15 1/2 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	31100	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	18900	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	19.0		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	12300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	12300	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603025 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:20 PM

Matrix: Soils | **Sample Comment:** SB-17 @ 14-15 1/2 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	52.9	05,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603025 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:20 PM

Matrix: Soils | **Sample Comment:** SB-17 @ 14-15 1/2 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603025 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:20 PM

Matrix: Soils | **Sample Comment:** SB-17 @ 14-15 1/2 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603026 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:15 PM

Matrix: Soils | **Sample Comment:** SB-3 @ 8 1/2- 9 1/2 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	20.0		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603026 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:15 PM

Matrix: Soils | **Sample Comment:** SB-3 @ 8 1/2- 9 1/2 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603026 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:15 PM

Matrix: Soils | **Sample Comment:** SB-3 @ 8 1/2- 9 1/2 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	38.0	17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603027 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:**

Matrix: Soils | **Sample Comment:** Trip Duplicate

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	26.0		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-05 | Facility ID: | Site: Oak Grove Village

Customer # : 0603027 | County: Franklin | Sample Reference ID: | Collect Date: 8/14/2006

Collector: Hugh Murrell | Affiliation: ESP | Collect Time:

Matrix: Soils | Sample Comment: Trip Duplicate

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
/OAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
/OAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603027 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:**

Matrix: Soils | **Sample Comment:** Trip Duplicate

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	41.0	17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603027 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:**

Matrix: Soils | **Sample Comment:** Trip Duplicate

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-06 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603028 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:35 PM

Matrix: Soils | **Sample Comment:** SB-4 @ 10-11 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	23.2		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-06 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603028 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:35 PM

Matrix: Soils | **Sample Comment:** SB-4 @ 10-11 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-06 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603028 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:35 PM

Matrix: Soils | **Sample Comment:** SB-4 @ 10-11 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-07 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603029 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:02 PM

Matrix: Soils | **Sample Comment:** SB-6 @ 5-6 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	25.5		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-07 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603029 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:02 PM

Matrix: Soils | **Sample Comment:** SB-6 @ 5-6 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-07 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603029 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:02 PM

Matrix: Soils | **Sample Comment:** SB-6 @ 5-6 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-08 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603030 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:45 PM

Matrix: Soils | **Sample Comment:** SB-16 @ 10 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	14.6		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-08 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603030 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:45 PM

Matrix: Soils | **Sample Comment:** SB-16 @ 10 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-08 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603030 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:45 PM

Matrix: Soils | **Sample Comment:** SB-16 @ 10 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-09 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603031 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 5:15 PM

Matrix: Soils | **Sample Comment:** SB-15 @ 13-14 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	23800	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	2780	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	22.8		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	13000	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	13000	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-09 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603031 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 5:15 PM

Matrix: Soils | **Sample Comment:** SB-15 @ 13-14 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-09 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603031 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 5:15 PM

Matrix: Soils | **Sample Comment:** SB-15 @ 13-14 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-10 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603032 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 5:30 PM

Matrix: Soils | **Sample Comment:** SB-5 @ 3-4 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	30500	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	12700	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	19.3		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	12400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	12400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	12500	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	12400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	12400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	12400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	12400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	22000	05,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	12400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	12400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	12400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	12400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	12400	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-10 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603032 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 5:30 PM

Matrix: Soils | **Sample Comment:** SB-5 @ 3-4 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	89.3	05,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-10 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603032 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 5:30 PM

Matrix: Soils | **Sample Comment:** SB-5 @ 3-4 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-11 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603033 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 6:05 PM

Matrix: Soils | **Sample Comment:** SB-7 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	48700	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	11400	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	26.8		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	13700	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-11 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603033 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 6:05 PM

Matrix: Soils | **Sample Comment:** SB-7 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-11 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603033 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/14/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 6:05 PM

Matrix: Soils | **Sample Comment:** SB-7 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-12 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603034 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 8:05 AM

Matrix: Soils | **Sample Comment:** SB-13 @ 11-12 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	55400	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	10300	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	29.4		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	14200	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	14200	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-12 | Facility ID: | Site: Oak Grove Village

Customer # : 0603034 | County: Franklin | Sample Reference ID: | Collect Date: 8/15/2006

Collector: Hugh Murrell | Affiliation: ESP | Collect Time: 8:05 AM

Matrix: Soils | Sample Comment: SB-13 @ 11-12 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-12 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603034 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 8:05 AM

Matrix: Soils | **Sample Comment:** SB-13 @ 11-12 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-13 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603035 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 8:20 AM

Matrix: Soils | **Sample Comment:** SB-8 @ 5-6 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	51700	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	21800	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	26.4		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	13600	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	13600	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-14 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603036 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 9:05 AM

Matrix: Soils | **Sample Comment:** SB-14 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	56600	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	9170	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	26.9		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	13700	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	13700	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-14 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603036 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 9:05 AM

Matrix: Soils | **Sample Comment:** SB-14 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-14 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603036 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 9:05 AM

Matrix: Soils | **Sample Comment:** SB-14 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-15 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603037 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 9:30 AM

Matrix: Soils | **Sample Comment:** SB-9 @ 2-3 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	38400	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	12600	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	24.9		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	13300	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	330000	17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	50.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	125	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	125	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	112	09,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	25.0	09, ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-15 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603037 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 9:30 AM

Matrix: Soils | **Sample Comment:** SB-9 @ 2-3 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,4-Dichlorobenzene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	125	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	50.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	500	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	50.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	125	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	625	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	125	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	625	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	500	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	50.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	125	**09, ND,17**	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-15 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603037 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 9:30 AM

Matrix: Soils | **Sample Comment:** SB-9 @ 2-3 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Isopropylbenzene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	250	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	500	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	125	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	250	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	33.1	**09, 05,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	500	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	50.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	118	**09,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	125	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	50.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	199	**09,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	125	**09, ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	25.0	**09, ND,17**	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-16 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603038 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 10:00 AM

Matrix: Soils | **Sample Comment:** SB-10 @ 6-7 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	53600	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	9410	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	25.6		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	13400	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	13400	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-16 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603038 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 10:00 AM

Matrix: Soils | **Sample Comment:** SB-10 @ 6-7 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-16 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603038 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 10:00 AM

Matrix: Soils | **Sample Comment:** SB-10 @ 6-7 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-17 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603039 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 10:25 AM

Matrix: Soils | **Sample Comment:** SB-11 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	50400	17	ug/kg		SW 846 6020 (ICP-MS)
Lead-Total	Lead	18400	17	ug/kg		SW 846 6020 (ICP-MS)
Percent Moisture	Percent Moisture	23.8		%		Not Applicable
Petroleum Fractions	TPH as Gasoline	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Hydraulic Fluid	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Jet Fuel	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as JP4	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Kerosene	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Mineral Spirits	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 1 Diesel	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 2 Diesel	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 3 Diesel	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 4 Diesel	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 5 Diesel	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as No. 6 Diesel	13100	ND,17	ug/kg	Q60821-01oa2	8270C
Petroleum Fractions	TPH as Waste Oil	13100	ND,17	ug/kg	Q60821-01oa2	8270C
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-17 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603039 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 10:25 AM

Matrix: Soils | **Sample Comment:** SB-11 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B

Sample: 060815007-17 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603039 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 10:25 AM

Matrix: Soils | **Sample Comment:** SB-11 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-18 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603040 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:05 AM

Matrix: Soils | **Sample Comment:** SB-12 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Percent Moisture	Percent Moisture	29.4		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-18 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603040 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:05 AM

Matrix: Soils | **Sample Comment:** SB-12 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60823-09VOA	8260B
VOAs	Proplonitrile	50.0	ND,17	ug/kg	Q60823-09VOA	8260B

Date Printed: 8/25/2006

Sample: 060815007-18 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0603040 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 8/15/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:05 AM

Matrix: Soils | **Sample Comment:** SB-12 @ 7-8 foot depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60823-09VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60823-09VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01 Improper collection method	11 Estimated value, matrix interference
02 Improper preservation	12 Insufficient quantity
03 Exceeded holding time	13 Estimated value, true result is > reported value
04 Analyzed by Contract Laboratory	14 Estimated value, non-homogeneous sample
05 Estimated value, detected below PQL	15 No Result - Failed Quality Controls Requirements
06 Estimated value, QC data outside limits	16 Not analyzed - related analyte not detected
07 Estimated value, analyte outside calibration range	17 Results in dry weight
08 Analyte present in blank at > 1/2 reported value	18 Sample pH is outside the acceptable range
09 Sample was diluted during analysis	19 Estimated value
10 Laboratory error	ND Not detected at reported value

Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Date Printed: 8/25/2006

Missouri Department of Natural Resources

Environmental Services Program

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Hazardous Waste Program
MO Dept. of Natural Resources

Order ID: 060927006 **Program, Contact:** HWP, Candy McGhee

Report Date: 10/12/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060927006-01 **Facility ID:** **Site:** Oak Grove Village

Customer # : 0608009 **County:** Franklin **Sample Reference ID:** **Collect Date:** 9/26/2006

Collector: Hugh Murrell **Affiliation:** ESP **Collect Time:** 10:27 AM

Matrix: Soils **Sample Comment:** SB-18, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	28900	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	13700	**09,17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	26.1		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B

Sample: 060927006-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608009 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 10:27 AM

Matrix: Soils | **Sample Comment:** SB-18, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/12/2006

Sample: 060927006-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608009 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 10:27 AM

Matrix: Soils | **Sample Comment:** SB-18, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B

Sample: 060927006-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608010 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:10 AM

Matrix: Soils | **Sample Comment:** SB-19, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	38900	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	75500	**09,17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	20.7		%		Not Applicable

Sample: 060927006-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608010 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:10 AM

Matrix: Soils | **Sample Comment:** SB-19, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	26.7	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	5.51	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Benzene	14.2	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B

Sample: 060927006-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608010 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:10 AM

Matrix: Soils | **Sample Comment:** SB-19, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,2-dichloroethene	105	**09,17**	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylbenzene	6.36	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Isopropylbenzene	4.05	**05,17**	ug/kg	Q60928-03VOA	8260B
VOAs	m&p-Xylenes	3.47	**05,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl-t-butyl ether	64.2	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	Naphthalene	14.2	**05,17**	ug/kg	Q60928-03VOA	8260B
VOAs	n-Butylbenzene	6.89	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	n-Propylbenzene	5.84	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	o-Xylene	9.51	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/12/2006

Sample: 060927006-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608010 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:10 AM

Matrix: Soils | **Sample Comment:** SB-19, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrachloroethene	16.9	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Toluene	3.43	**05,17**	ug/kg	Q60928-03VOA	8260B
VOAs	*Total Xylenes*	13.0	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	3.05	**05,17**	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Trichloroethene	153	**17**	ug/kg	Q60928-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B

Sample: 060927006-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608011 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:41 AM

Matrix: Soils | **Sample Comment:** SB-20, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	19200	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	10400	**09,17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	16.7		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B

Sample: 060927006-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608011 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:41 AM

Matrix: Soils | **Sample Comment:** SB-20, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B

Sample: 060927006-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608011 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:41 AM

Matrix: Soils | **Sample Comment:** SB-20, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Trichloroethene	4.86	05,17	ug/kg	Q60928-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B

Sample: 060927006-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608012 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:05 PM

Matrix: Soils | **Sample Comment:** SB-21, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	21200	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	12500	**09,17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	15.8		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B

Sample: 060927006-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608012 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:05 PM

Matrix: Soils | **Sample Comment:** SB-21, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/12/2006

Sample: 060927006-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608012 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:05 PM

Matrix: Soils | **Sample Comment:** SB-21, 4-5' depth

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B

Sample: 060927006-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608013 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:29 PM

Matrix: Soils | **Sample Comment:** WL-1, 8-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	36000	17	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	25800	09,17	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	24.9		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60928-03VOA	8260B

Missouri Department of Natural Resources

Environmental Services Program

Order ID: 060927006 **Program, Contact:** HWP, Candy McGhee

Report Date: 10/12/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060927006-05 **Facility ID:** **Site:** Oak Grove Village

Customer # : 0608013 **County:** Franklin **Sample Reference ID:** **Collect Date:** 9/26/2006

Collector: Hugh Murrell **Affiliation:** ESP **Collect Time:** 2:29 PM

Matrix: Soils **Sample Comment:** WL-1, 8-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	36000	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	25800	**09,17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	24.9		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/17/2006

Sample: 060927006-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608013 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:29 PM

Matrix: Soils | **Sample Comment:** WL-1, 8-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/17/2006

Sample: 060927006-05

Customer # : 0608013

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 9/26/2006

Collector: Hugh Murrell

Affiliation: ESP

Collect Time: 2:29 PM

Matrix: Soils

Sample Comment: WL-1, 8-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01	Improper collection method	11	Estimated value, matrix interference
02	Improper preservation	12	Insufficient quantity
03	Exceeded holding time	13	Estimated value, true result is > reported value
04	Analyzed by Contract Laboratory	14	Estimated value, non-homogeneous sample
05	Estimated value, detected below PQL	15	No Result - Failed Quality Controls Requirements
06	Estimated value, QC data outside limits	16	Not analyzed - related analyte not detected
07	Estimated value, analyte outside calibration range	17	Results in dry weight
08	Analyte present in blank at > 1/2 reported value	18	Sample pH is outside the acceptable range
09	Sample was diluted during analysis	19	Estimated value
10	Laboratory error	ND	Not detected at reported value

Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Date Printed: 10/17/2006

Missouri Department of Natural Resources

Environmental Services Program

Order ID: 060927006 **Program, Contact:** HWP, Candy McGhee

Report Date: 10/12/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060927006-06 **Facility ID:** **Site:** Oak Grove Village

Customer # : 0608014 **County:** Franklin **Sample Reference ID:** **Collect Date:** 9/26/2006

Collector: Hugh Murrell **Affiliation:** ESP **Collect Time:** 3:10 PM

Matrix: Soils **Sample Comment:** WL-2, 8-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	42300	17	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	20300	09,17	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	16.3		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/17/2006

Sample: 060927006-06

Customer # : 0608014

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 9/26/2006

Collector: Hugh Murrell

Affiliation: ESP

Collect Time: 3:10 PM

Matrix: Soils

Sample Comment: WL-2, 8-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/17/2006

Sample: 060927006-06
Customer # : 0608014

Facility ID: | **Site:** Oak Grove Village
County: Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006
Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:10 PM
Matrix: Soils | **Sample Comment:** WL-2, 8-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01 Improper collection method	11 Estimated value, matrix interference
02 Improper preservation	12 Insufficient quantity
03 Exceeded holding time	13 Estimated value, true result is > reported value
04 Analyzed by Contract Laboratory	14 Estimated value, non-homogeneous sample
05 Estimated value, detected below PQL	15 No Result - Failed Quality Controls Requirements
06 Estimated value, QC data outside limits	16 Not analyzed - related analyte not detected
07 Estimated value, analyte outside calibration range	17 Results in dry weight
08 Analyte present in blank at > 1/2 reported value	18 Sample pH is outside the acceptable range
09 Sample was diluted during analysis	19 Estimated value
10 Laboratory error	ND Not detected at reported value

Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Servic[illegible]ivision

Date Printed: 10/17/2006

Missouri Department of Natural Resources

Environmental Services Program

Order ID: 060927006 **Program, Contact:** HWP, Candy McGhee

Report Date: 10/12/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060927006-07 **Facility ID:** **Site:** Oak Grove Village

Customer # : 0608015 **County:** Franklin **Sample Reference ID:** **Collect Date:** 9/26/2006

Collector: Hugh Murrell **Affiliation:** ESP **Collect Time:** 4:50 PM

Matrix: Soils **Sample Comment:** WL-3, 17-18.5'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	128000	**09,17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	18600	**09,17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	13.1		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q60928-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/17/2006

Sample: 060927006-07 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608015 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:50 PM

Matrix: Soils | **Sample Comment:** WL-3, 17-18.5'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/17/2006

Sample: 060927006-08 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608016 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 9/26/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:**

Matrix: Soils | **Sample Comment:** Trip blank

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/17/2006

Sample: 060927006-08
Customer # : 0608016

Facility ID:
Site: Oak Grove Village
County: Franklin
Sample Reference ID:
Collect Date: 9/26/2006
Collector: Hugh Murrell
Affiliation: ESP
Collect Time:
Matrix: Soils
Sample Comment: Trip blank

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01 Improper collection method	11 Estimated value, matrix interference
02 Improper preservation	12 Insufficient quantity
03 Exceeded holding time	13 Estimated value, true result is > reported value
04 Analyzed by Contract Laboratory	14 Estimated value, non-homogeneous sample
05 Estimated value, detected below PQL	15 No Result - Failed Quality Controls Requirements
06 Estimated value, QC data outside limits	16 Not analyzed - related analyte not detected
07 Estimated value, analyte outside calibration range	17 Results in dry weight
08 Analyte present in blank at > 1/2 reported value	18 Sample pH is outside the acceptable range
09 Sample was diluted during analysis	19 Estimated value
10 Laboratory error	ND Not detected at reported value

Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Servic[illegible]ivision

Date Printed: 10/17/2006

Sample: 060927006-07

Customer # : 0608015

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 9/26/2006

Collector: Hugh Murrell

Affiliation: ESP

Collect Time: 4:50 PM

Matrix: Soils

Sample Comment: WL-3, 17-18.5'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Toluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q60928-03VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01	Improper collection method	11	Estimated value, matrix interference
02	Improper preservation	12	Insufficient quantity
03	Exceeded holding time	13	Estimated value, true result is > reported value
04	Analyzed by Contract Laboratory	14	Estimated value, non-homogeneous sample
05	Estimated value, detected below PQL	15	No Result - Failed Quality Controls Requirements
06	Estimated value, QC data outside limits	16	Not analyzed - related analyte not detected
07	Estimated value, analyte outside calibration range	17	Results in dry weight
08	Analyte present in blank at > 1/2 reported value	18	Sample pH is outside the acceptable range
09	Sample was diluted during analysis	19	Estimated value
10	Laboratory error	ND	Not detected at reported value

Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Date Printed: 10/17/2006

Missouri Department of Natural Resources

Environmental Services Program

Order ID: 060927006 **Program, Contact:** HWP, Candy McGhee

Report Date: 10/12/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 060927006-08 **Facility ID:** **Site:** Oak Grove Village

Customer # : 0608016 **County:** Franklin **Sample Reference ID:** **Collect Date:** 9/26/2006

Collector: Hugh Murrell **Affiliation:** ESP **Collect Time:**

Matrix: Soils **Sample Comment:** Trip blank

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	52100	17	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	14600	17	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	12.4		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q60928-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q60928-03VOA	8260B

Date Printed: 10/17/2006

Missouri Department of Natural Resources

Environmental Services Program

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Hazardous Waste Program
MO Dept. of Natural Resources

Order ID: 061109001 **Program, Contact:** HWP, Candy McGhee

Report Date: 12/20/2006 **LDPR:** FEOAK/NJ00OAKG

Order Comment:

Sample: 061109001-01 **Facility ID:** **Site:** Oak Grove Village

Customer # : 0608036 **County:** Franklin **Sample Reference ID:** **Collect Date:** 11/7/2006

Collector: Hugh Murrell **Affiliation:** ESP **Collect Time:** 11:41 AM

Matrix: Soils **Sample Comment:** WAL-1 at 8-9'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	30200	17	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	6250	17	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	15.6		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q61122-03VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608036 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:41 AM

Matrix: Soils | **Sample Comment:** WAL-1 at 8-9'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-01 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608036 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:41 AM

Matrix: Soils | **Sample Comment:** WAL-1 at 8-9'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608037 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:45 PM

Matrix: Soils | **Sample Comment:** WAL-2 at 21-22'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	24300	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	7530	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	19.5		%		Not Applicable

Sample: 061109001-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608037 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:45 PM

Matrix: Soils | **Sample Comment:** WAL-2 at 21-22'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608037 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:45 PM

Matrix: Soils | **Sample Comment:** WAL-2 at 21-22'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	3.78	**05,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-02 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608037 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:45 PM

Matrix: Soils | **Sample Comment:** WAL-2 at 21-22'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608038 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:**

Matrix: Soils | **Sample Comment:** Blind duplicate

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	74300	**09,17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	8750	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	29.5		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608038 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:**

Matrix: Soils | **Sample Comment:** Blind duplicate

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	3.50	05,17	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-03 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608038 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:**

Matrix: Soils | **Sample Comment:** Blind duplicate

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	10.1	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	10.0	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608039 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:10 PM

Matrix: Soils | **Sample Comment:** WAL-4 at 11-12'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	33500	17	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	1910	17	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	15.5		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608039 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:10 PM

Matrix: Soils | **Sample Comment:** WAL-4 at 11-12'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-04 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608039 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:10 PM

Matrix: Soils | **Sample Comment:** WAL-4 at 11-12'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608040 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** WAL-3 at 3-4'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	70400	**09,17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	8580	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	24.4		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608040 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** WAL-3 at 3-4'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	4.33	**05,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608040 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** WAL-3 at 3-4'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	9.09	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	19.4	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	108	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	27.4	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	8.61	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	4.52	**05,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	29.9	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	80.9	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	28.0	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-05 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608040 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:25 PM

Matrix: Soils | **Sample Comment:** WAL-3 at 3-4'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-06 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608041 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:41 PM

Matrix: Soils | **Sample Comment:** WAL-5 at 7-8'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	21100	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	3210	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	14.5		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-06 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608041 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:41 PM

Matrix: Soils | **Sample Comment:** WAL-5 at 7-8'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-06 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608041 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:41 PM

Matrix: Soils | **Sample Comment:** WAL-5 at 7-8'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	6.34	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	6.28	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-07 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608042 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:15 PM

Matrix: Soils | **Sample Comment:** WAL-6 at 13-14'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	33100	17	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	3060	17	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	21.0		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-07 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608042 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:15 PM

Matrix: Soils | **Sample Comment:** WAL-6 at 13-14'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	2.77	**05,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-07 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608042 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:15 PM

Matrix: Soils | **Sample Comment:** WAL-6 at 13-14'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	4.16	**05,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	10.9	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-08 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608043 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:44 PM

Matrix: Soils | **Sample Comment:** WAL-7 at 9-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	41200	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	6550	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	23.3		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-08 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608043 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:44 PM

Matrix: Soils | **Sample Comment:** WAL-7 at 9-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-08 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608043 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:44 PM

Matrix: Soils | **Sample Comment:** WAL-7 at 9-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-08 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608043 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 3:44 PM

Matrix: Soils | **Sample Comment:** WAL-7 at 9-10'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-09 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608044 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:30 PM

Matrix: Soils | **Sample Comment:** WAL-15 at 12-13'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	21700	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	2840	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	15.5		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-09 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608044 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:30 PM

Matrix: Soils | **Sample Comment:** WAL-15 at 12-13'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-09 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608044 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:30 PM

Matrix: Soils | **Sample Comment:** WAL-15 at 12-13'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-10 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608045 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:50 PM

Matrix: Soils | **Sample Comment:** WAL-10 at 6-7'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	26700	17	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	13200	17	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	17.1		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-10 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608045 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:50 PM

Matrix: Soils | **Sample Comment:** WAL-10 at 6-7'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-10 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608045 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 4:50 PM

Matrix: Soils | **Sample Comment:** WAL-10 at 6-7'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	9.14	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-11 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608046 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 5:01 PM

Matrix: Soils | **Sample Comment:** WAL-11 at 3-4'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	57900	**09,17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	7880	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	23.0		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	25.0	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	62.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-11 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608046 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 5:01 PM

Matrix: Soils | **Sample Comment:** WAL-11 at 3-4'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,3-Trichloropropane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	62.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	62.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	25.0	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	250	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	25.0	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	62.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	312	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	62.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	312	**09, ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-11 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608046 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 5:01 PM

Matrix: Soils | **Sample Comment:** WAL-11 at 3-4'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	cis-1,2-dichloroethene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	250	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	25.0	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	62.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	125	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	250	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	62.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	125	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	250	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	25.0	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	62.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	14.2	**09, 05,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	25.0	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-11 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608046 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/7/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 5:01 PM

Matrix: Soils | **Sample Comment:** WAL-11 at 3-4'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Trichloroethene	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	62.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	12.5	**09, ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-12 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608047 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:57 AM

Matrix: Soils | **Sample Comment:** WAL-12 at 18-19'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	56300	**09,17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	14700	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	23.6		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-12 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608047 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:57 AM

Matrix: Soils | **Sample Comment:** WAL-12 at 18-19'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-12 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608047 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 11:57 AM

Matrix: Soils | **Sample Comment:** WAL-12 at 18-19'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	6.86	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-13 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608048 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:43 PM

Matrix: Soils | **Sample Comment:** WAL-13 at 6-7'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	55000	**09,17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	10100	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	21.0		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-13 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608048 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:43 PM

Matrix: Soils | **Sample Comment:** WAL-13 at 6-7'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-13 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608048 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:43 PM

Matrix: Soils | **Sample Comment:** WAL-13 at 6-7'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.64	**05,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	8.55	**17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-14 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608049 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:58 PM

Matrix: Soils | **Sample Comment:** WAL-14 at 4-5'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	37200	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	14100	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	21.8		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-14 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608049 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:58 PM

Matrix: Soils | **Sample Comment:** WAL-14 at 4-5'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1-Chorobutane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-14 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608049 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:58 PM

Matrix: Soils | **Sample Comment:** WAL-14 at 4-5'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	m&p-Xylenes	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	6.83	17	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-14 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608049 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 12:58 PM

Matrix: Soils | **Sample Comment:** WAL-14 at 4-5'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-15 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608050 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 1:33 PM

Matrix: Soils | **Sample Comment:** WAL-17 at 10-13'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	44900	**17**	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	24300	**17**	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	27.2		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,1-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,2-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,3-Dichloropropane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-15 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608050 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 1:33 PM

Matrix: Soils | **Sample Comment:** WAL-17 at 10-13'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromochloromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dibromomethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Diethyl ether	50.0	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Ethylmethacrylate	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachlorobutadiene	5.00	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Hexachloroethane	2.50	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Iodomethane	12.5	ND,17	ug/kg	Q61122-03VOA	8260B
VOAs	Isopropylbenzene	2.50	ND,17	ug/kg	Q61122-03VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-15 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608050 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 1:33 PM

Matrix: Soils | **Sample Comment:** WAL-17 at 10-13'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-03VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-03VOA	8260B

Sample: 061109001-16 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608051 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:12 PM

Matrix: Soils | **Sample Comment:** WAL-16 at 10-11'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	39100	17	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	14000	17	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	29.9		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	acetone	95.6	05,17	ug/kg	Q61122-04VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-16 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608051 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:12 PM

Matrix: Soils | **Sample Comment:** WAL-16 at 10-11'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Bromobenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Bromochloromethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Bromodichloromethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Bromoform	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Bromomethane	12.5	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	carbon disulfide	2.98	**05,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Chlorobenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Chloroethane	12.5	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Chloroform	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Chloromethane	62.5	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B

Sample: 061109001-16 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0608051 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:12 PM

Matrix: Soils | **Sample Comment:** WAL-16 at 10-11'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	p-isopropyltoluene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Propionitrile	50.0	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	sec-Butylbenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Styrene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	tert-Butylbenzene	5.00	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Tetrachloroethene	23.6	17	ug/kg	Q61122-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Toluene	50.4	17	ug/kg	Q61122-04VOA	8260B
VOAs	Total Xylenes	5.00	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Trichloroethene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Trichlorofluoromethane	12.5	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Vinyl Chloride	2.50	ND,17	ug/kg	Q61122-04VOA	8260B

Sample: 061109001-17 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0610347 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:55 PM

Matrix: Soils | **Sample Comment:** WAL-8 at 14-15'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
Chromium-Total	Chromium	36200	17	ug/kg		SW 846 6010B (ICP)
Lead-Total	Lead	5670	17	ug/kg		SW 846 6010B (ICP)
Percent Moisture	Percent Moisture	16.3		%		Not Applicable
VOAs	1,1,1,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1,1-Trichloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1,2,2-Tetrachloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1,2-Trichloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1-Dichloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1-Dichloroethene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1-Dichloropropanone	5.00	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,1-Dichloropropene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2,3-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-04VOA	8260B

Sample: 061109001-17 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0610347 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:55 PM

Matrix: Soils | **Sample Comment:** WAL-8 at 14-15'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	1,2,3-Trichloropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2,4-Trichlorobenzene	12.5	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2,4-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2-Dibromo-3-chloropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2-Dibromoethane (EDB)	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2-Dichloroethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,3,5-Trimethylbenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,3-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,3-Dichloropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1,4-Dichlorobenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	1-Chorobutane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	2,2-Dichloropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	2-Butanone (MEK)	12.5	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	2-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	2-Hexanone	5.00	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	2-Nitropropane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	4-Chlorotoluene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	acetone	50.0	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Acrylonitrile	5.00	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Allyl Chloride	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Benzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Bromobenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Bromochloromethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Bromodichloromethane	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Bromoform	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Bromomethane	12.5	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	carbon disulfide	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Carbon Tetrachloride	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Chloroacetonitrile	62.5	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Chlorobenzene	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Chloroethane	12.5	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Chloroform	2.50	ND,17	ug/kg	Q61122-04VOA	8260B
VOAs	Chloromethane	62.5	ND,17	ug/kg	Q61122-04VOA	8260B

Date Printed: 12/20/2006

Sample: 061109001-17 | **Facility ID:** | **Site:** Oak Grove Village

Customer # : 0610347 | **County:** Franklin | **Sample Reference ID:** | **Collect Date:** 11/8/2006

Collector: Hugh Murrell | **Affiliation:** ESP | **Collect Time:** 2:55 PM

Matrix: Soils | **Sample Comment:** WAL-8 at 14-15'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	cis-1,2-dichloroethene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	cis-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Dibromochloromethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Dibromomethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Dichlorodifluoromethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Diethyl ether	50.0	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Ethylbenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Ethylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Hexachlorobutadiene	5.00	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Hexachloroethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Iodomethane	12.5	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Isopropylbenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	m&p-Xylenes	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Methacrylonitrile	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Methyl Acrylate	25.0	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Methylene chloride	50.0	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Methylmethacrylate	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Methyl-t-butyl ether	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Naphthalene	12.5	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	n-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Nitrobenzene	25.0	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	n-Propylbenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	o-Xylene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Pentachloroethane	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	p-isopropyltoluene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Propionitrile	50.0	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	sec-Butylbenzene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Styrene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	tert-Butylbenzene	5.00	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Tetrachloroethene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Tetrahydrofuran	12.5	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Toluene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Total Xylenes	5.00	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	trans-1,2-Dichloroethene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	trans-1,3-Dichloropropene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	trans-1,4-Dichloro-2-butene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B

Sample: 061109001-17

Customer # : 0610347

Facility ID:

Site: Oak Grove Village

County: Franklin

Sample Reference ID:

Collect Date: 11/8/2006

Collector: Hugh Murrell

Affiliation: ESP

Collect Time: 2:55 PM

Matrix: Soils

Sample Comment: WAL-8 at 14-15'

Test	Parameter	Result	Qualifier	Units	QC BatchID	Method
VOAs	Trichloroethene	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Trichlorofluoromethane	12.5	**ND,17**	ug/kg	Q61122-04VOA	8260B
VOAs	Vinyl Chloride	2.50	**ND,17**	ug/kg	Q61122-04VOA	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Qualifier Descriptions

01	Improper collection method	11	Estimated value, matrix interference
02	Improper preservation	12	Insufficient quantity
03	Exceeded holding time	13	Estimated value, true result is > reported value
04	Analyzed by Contract Laboratory	14	Estimated value, non-homogeneous sample
05	Estimated value, detected below PQL	15	No Result - Failed Quality Controls Requirements
06	Estimated value, QC data outside limits	16	Not analyzed - related analyte not detected
07	Estimated value, analyte outside calibration range	17	Results in dry weight
08	Analyte present in blank at > 1/2 reported value	18	Sample pH is outside the acceptable range
09	Sample was diluted during analysis	19	Estimated value
10	Laboratory error	ND	Not detected at reported value

Connie Giesing

Connie Giesing, Laboratory Manager
Environmental Services Program
Field Services Division

Date Printed: 12/20/2006

APPENDIX E

Location: Oak Grove Date: 4-13-06

Project / Client: 185 Garage

Scale

1 @ 185G-BH1-1 0-3 red clay
3-4 gray clay
4-5 green clay

2 " -2 5- hard whitish clay w/ Cs

3 185G-BH2-1 0-4 clay red-brown

4 " -2 4-7
4-5.5 red clay
5.5-6 white clay
6-7 dry white clay

5 185G-BH3-1 0-4 red-gray mottled clay
wet zone at 3.5' moist at that

6 BH3-2 4-7.5 same clay
7.5-8 chert + clay

36

Location Oak grove Date 4-13-06

Project / Client

7 1856-BH3-3 8-12
white + pink
hard clay, chert, ss
dry -13' TD

8 1856-BH4-1 0-4 red clay
4-8 stuck
13 BH4-2 8-9 TD

9 1856-BH5-1 0-4 gray + red clay

10 BH5-2 4-5 red brown clay
5-9 stuck TD

11 1856-BH6-1 0-4 red brown clay

12 BH6-2 4-7 sand + clay
6-7 sand

Location OGV Date 6/2/6

Project / Client

Sunny warm

S+S Drilling @ 185 Gauge
arrive 1pm, Rig at 20+ feet
report BR @ 10' BGS. Niel Stevens
says hole smells like petro

10 - 20 Lt. Gray dolomite w/ Lt. Gray
Chert, 5% Lt. Brown Chert
(looks like Gasconade)
20-28 Same as above Lt gray Chert
& Dolomite (Gasconade)
Niel said he will work sat

Location OGV Date 6/5/6

Project / Client

Sunny-warm Scale

S+S Drilling at 185 Gauge
arrive noon, depth 35' bgs
in Buff ss. (Rbx)? all above
could be Rbx
40' Alam. buff silica sand
(inc. 92.

RECEIVED
FEB 06 2007
Hazardous Waste Program
MO Dept. of Natural Resources

Location Oak Grove Date 6/6/6

Project / Client 185 Gauge

arrive 11:30. Nicl setting 8" Casing to 29' bgs / 31' TOC
USGS notifys me that their GC is seeing multiple peaks, some in TCE time. Could be slow hydrocarbons in soil - washing down borehole.
12:45 tried to sample - No H_2O
resume drilling
6' x 10" Conductor Casing, 3' into ground
31' 8" Steel casing set 29' into ground - No Grout

Well Coordinates
N. 38° 13.420'
W 91° 9.273'
Alt ~~981~~ ~~973~~ 975

Decimal Degs.
38°. 22366
91°. 15456

40-50 Silica Sand, Buff Rbx
52' air filled Void blowing cool air

Location 185 Gauge Date 6/7/6

Project / Client OGV

Scale

50-60 NOT OBSERVED
60-65 Buff silica sand, 1 white chert
65-70 50% sand 50% white chert
trace Black Dolomite
70-75 Buff Silica Sandstone
trace white chert.
Ann Keller DGLS said top 30' of dolomitic chert is Rbx On
Hole still taking water. +250 gal 2 DAY
water > Sample taken from 70' #060096 ANR
chert holding some water
75-80 Buff Silica sandstone 75% - USGS
white chert 25% - Sam

Location OGV Date 6/8/6

Project / Client 185 Garage

arrive 11:00 SES drilling at 185.
water sample taken for USGS
this AM after water collected in
Blt.

80-85 50% sand, white chert, 50%

85-90 Formation change to white dolomite
& white chert 50%

90-95 same as above but incr brown dolomite

95-100 Brown dolomite 90% 5-10% chert
(Holding water better)

100-105 Brown dolomite, 50%, sandy br. dolomite.
white chert 25%, trace blk chert
~~Some had mud encountered~~ + lt. Br sandstone

105-110 Encountered void, - Red clay
Brown fine gr dolomite, 70%

Samp. # 0602386 14:25 from 110'

Location OGV Date 6/20/6

Project / Client 185 Garage

Scale

Took samples H_2O from
175 + 200' - Mist labled
DATE as 6/19/6 as I
Trusted my cheap watch.
call to Hinjs also Gasconade
0602387 175'
0602388 200'
(settled) 5 min in
beaker to Reduce Solids.

This entry made 6/20/6

Ⓓ measured this AM 170.

Location OGU Date 6/21/6

Project / Client 185 Garage

Approx EL MAP ~940

170 Bit Change 8" → 6"

200'

Talked w Candy + JS. Re 40' water column in 185 well.

200 - 205 Buff @ Clean SS fine Gr (Gunter Top) Dries to white sand

205 - 210 Buff SS arenite Gunter

210 - 215 Buff SS arenite

215 - 220 " Gunter

water ▽ measured this am before drilling at 161' bgs (▽ has come up ~10' since yesterday)

J.S. to sample cuttings ~~from~~ rolloff for disposale decision.
All samps clean so far while drilling

Location OGU Date 6/21/6

Project / Client 185 Garage

Scale

Need to check logs to see if any S.S. Need at Oo Ee contact

220 ▽ 173.2' TOC

220 - 225 white fine sand (Gunter)

225 - Fine Gr, Lt Gray dolomite, 90% 10% Brown dolomite, Same

T.D. 225 Clay from above
Ee

Took lab sample 060 2389 From 220 - 225 bgs

Kurt Kudrey
11 meeting

Location OGU Date 6/26/6

Project / Client 185 Garage

Below samples logged w microscope

170-175 50% Buff dolomite
50% white chert
125-180 60% Buff dolomite
25% white chert
,5% calcite, trace
Trace Blk chert
180-185 60 ~~80%~~ Buff dolomite
35 ~~25%~~ white chert
trace blk chert trace sand
5% calcite
185-190 80% Buff dolomite
20% white chert tr. brown chert
190-195 50% Buff Dolomite
50% white chert
195-200 50% dolomite Buff
50% white chert
trace calcite

6/30/6 Logged in Ann's office Microscope
110-115 90% Buff Dolomite 10% chert
Tr Blk Rosette
115-120 80% Buff dolomite 20% chert
Tr Blk Mtt. chert Tr. Qtz Quartzose chert

Location OGU Date 6/30/6

Project / Client 185 Garage

Scale

Oxxoforder

Tr office
125-130 90% Buff dolomite 10% white chert
Tr. Limonite Cement
120-125 60% Dolomite Buff 40% chert
wh. Flint. tr. Qtz chert
130-135 60% Buff dolomite
40% white flint chert
135-140 80% Buff dolomite
20% white chert, trace
Trace Qtz. Angular clear
140-145 60% Buff dolomite
40% white chert, trace calcite
145-150 60% dolomite Buff
40% wh chrt
150-155 50% chert, (milky white ~~80%~~ chalky 20)
50% dolomite, buff tr Qtz chert
155-160 60% Buff dolomite
40% chert, white milky
160-165 50% Buff dolomite
50% chert (50% milky 50% chalky)
165-170 80% Buff dolomite
20% chalky wh. chert

Casing for 185 Garage
7 Feet of 12"
31 Feet of 8"
160 Feet of 4" Certi-Lock

8/14 Oak Grove Village 12 hrs.

We arrived on site @ 1000 hours
Weather 80°F very humid. I forgot
the PID. Danny is bringing it down.

SB-1 GPS: wpt 1
N ~~38° 55' 33.7"~~ 38° 13' 28.8"
W -91° ~~28' 27.5"~~ 09' 12.3"

Refusal @ 15.5' @ 11:00 am

SB-2 GPS wpt. 2
N 38° 13' 28.7"
W -91 09' 12.5" odor @ 12'

Refusal @ 17.5' @ 1205 hrs

~~SB-3~~ wpt. 3
GPS N 38° 13' 29.0"
SB-17 W 91 09' 14.0"

SB-1	0	1	2	3	4
PID	15	6	7		84
	9	10	11		12
	13	14	15		

PID on SB-1 0.0 ppm but sample taken @ 12'

#0603023 ⇒ SB-1 @ 12' depth
@ 1335 VOAS, TPH, Cr, Pb
Brown silty clay w/ gravel
no odor

SB-2
PID

0	1	2	3	4
0.0	0.0	0.0	0.0	
5	6	7	8	
0.0	0.0	0.2	0.0	
9	10	11	12	
0.0	0.1	0.0	14.6	
13	14	15	16	
0.5	5.7	0.0	0.0	
16		17		
24.3		1.4		

SB-2 ⇒ #0603024 @ 1400 ~16' Depth
silty clay with lots of gravel, no odor

SB-17 → Refusal @ 15½'

1	2	3	4	~~wpt. 7~~
PID 5	6	7	8	~~GPS N 38° 13' 29.0"~~
9	10	11	12	~~W 91° 09' 14.0"~~
13	14	15.5		

PID 0.0 on all hits.

The decision was made to sample @ 14' interval by the project manager.
#0603025 @ 1420 hrs. 14-15½' depth
SB-17 ↗ silty clay w/ chert, gravel

SB-3 North side of ditch with Refusal @ 10.5'

GPS N 38° 13' 30.5"
wpt. 4 W 91° 09' 10.0"

DUP2

Only VOA samples
#0603026 @ 1515 @ 8½-9½ depth no odor

#0603027 @ 1515
Duplicate ↗

SB-3 PID data

1	2	3	4
0.0	0.0	0.0	0.0

5	6	7	8
0.2	0.0	0.0	0.0

9	10	11	12
0.0	3.1	0.0	0.0

SB-4 (front of bldg) GPS = wpt. 5 N 38° 13' 30.8" W-90 09' 10.3" → 10-11' depth
#0603028 @ 1535
silty clay w/ lots of chert, no odor
PID data

1	2	3	4
0.0	0.0	0.0	0.0

5	6	7	8
0.0	0.0	0.0	0.8

9	10	11
0.0	0.0	0.0

SB-5 in bldg GPS wpt. 6 N 38° 13' 30.8" W 90° 09' 09.9" VOAs Refusal @ 10'
#0603029 @ 1602 5-6' depth brown silty clay no odor

PID data	1	2	3	4
	0.0	0.0	0.0	0.0

5	6	7	8
0.0	0.0	0.0	0.0

9	10
0.0	0.0

SB-16 ~~SB-5~~ (front of) in ~~gutter by~~ bldg GPS wpt. 7 N 38° 13' 30.4" W 90° 09' 09.5"
#0603030 @ 10' depth VOAs @ 1645 hrs brown silty clay, no odor Refusal @ 10'

PID Data

1	2	3	4
0.0	0.0	0.0	0.0

5	6	7	8
0.0	0.0	0.0	0.0

9	10	11	12

SB-15 VOCs + TPH, Metals Refusal @ 14'
#0603031 @ 13-14' depth @ 1715 wpt. 8 GPS N 38° 13' 30.4" W 90° 09' 08.8"

PID Data
Brown clay no odor

1	2	3	4
0.0	0.6	0.6	0.0

5	6	7	8
0.0	0.0	0.0	0.0

9	10	11	12
0.0	0.0	0.0	0.0

13	14
0.0	0.0

VOAs, TPH, Cr, Pb

SB 5 GPS N 38° 13' 30.5"

#0030332 W 91° 09' 01.5"

3-4' @ 2.5' depth Brown silty clay

@ 1730 no odor Refusal @ 5'

PID Data

1	2	3	4
0.0	0.0	17.7	5.8
5	6	7	8
0.0	0.0	0.0	0.0

SB-7

VOAs, TPH, Pb, Cr

#0003033 @ 7-8' depth

@ 1905

Brown silty clay no odor

Refusal @ 8.5'

PID Data

1	2	3	4
0.0	0.0	0.0	0.0
5	6	7	8
0.0	0.0	0.0	0.0
8.5'			
0.0			

Wpt. 10

GPS N 38° 13' 31.2"

W 91° 09' 08.0"

8/15/06 OAK GROVE 7-4 9 hours

#0003034 VOAs, metals, TPH

SB-13 @ 11-12' depth

@ 0905

Wpt. 11

GPS N 38° 13' 31.2"

W 91° 09' 07.2"

Refusal @ 17' brown silty clay no odor

PID data #13

1	2	3	4
[illegible]	[illegible]	[illegible]	[illegible]
5	6	7	8
[illegible]	[illegible]	[illegible]	[illegible]
9	10	11	12
[illegible]	[illegible]	[illegible]	[illegible]

SB-5 VOAs, metals, TPH

#0003035 @ 5-6' depth

@ 0920

Wpt. 12

GPS N 38° 13' 31.2"

W 91° 09' 08.0"

Refusal @ 6.5' Brown clay

PID data #5

Brown silty clay

no odor

1	2	3	4
0.0	0.0	0.0	0.0
5	6	7	8
0.0	0.0	0.0	0.0
9	10		
0.0	0.0		

SB-14 VOAs, metals, TPH

#0003036 @ 7-8' depth

@ 0905

Wpt. 17

GPS N 38° 13' 30.8"

W 91° 09' 07.4"

Refusal @ 11' PID data

Brown clay

no odor

1	2	3	4
0.0	0.0	0.0	0.0
5	6	7	8
0.0	0.0	0.0	0.0
9	10	[illegible]	

VOAs, metals, TPH

SB-9 @2-3' depth @0930

wpt. 14
GPS N 38° 13' 30.9"
W-91° 09' 02.4"

#0603039

Brown clay, slight ~~no~~ odor

Refusal @10'

PID data

1	2	3	4
0.6	~~[illegible]~~ 33.3	17.5	1.7
5	6	7	8
0.0	0.0	0.0	0.0
9	10		

SB-10 VOAs metals TPH @6-7' depth @1000

wpt. 15
GPS N 38° 13' 26.2"
W-91° 09' 09.8"

#0603038

Brown clay, no odor

Refusal @9'

PID Data

1	2	3	4
0.0	0.0	0.0	0.0
5	6	7	8
0.0	0.0	0.0	0.0
9			
0.0			

SB-11 VOAs metals TPH @7-8' depth @1025

wpt. 16
GPS N 38° 13' 30.9"
W-91° 09' 05.5"

#0603039

Brown clay, no odor

Refusal @12'

PID data

1	2	3	4
0.0	0.0	0.0	0.0
5	6	7	8
0.0	0.0	0.0	0.0

VOAs only

SB-12 @7-8' depth @1105

#0603040

Refusal @19.5'

Brown clay, no odor although it was wet, perched H_2O.

wpt. 17
GPS N 38° 13' 32.1"
W-91° 09' 04.0"

PID

1	2	3	4
0.0	0.0	0.0	0.0
5	6	7	8
0.0	0.0	0.0	0.0
9	10	11	12
0.0	0.0	0.0	0.0
13	14	15	16
0.0	0.0	0.0	0.0
17	18	19	
0.0	0.0	0.0	

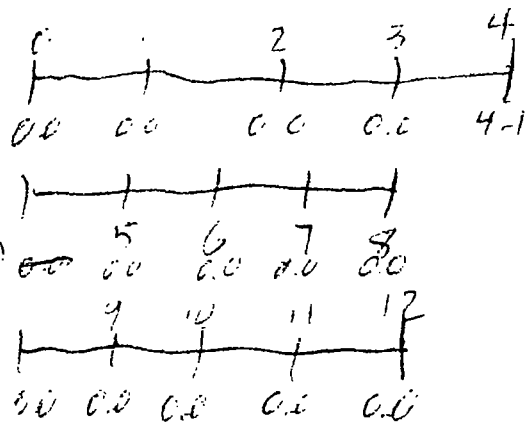
26 SEP 06 Oak Grove Sunny 70°F

Ditch Witch

Arrived on-site @ 0940.
We will drill ditch witch first, then Wanzil Creek.

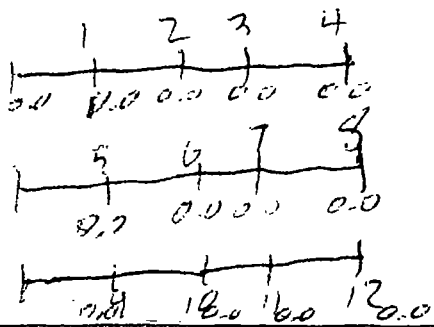
We will start with SB-18 → refusal @ 4'

P11)



#060804 @ 4-5' depth brown silty clay
@ 1027 no odor

SB-19



26 SEP 06 Oak Grove Sunny 70°F

Ditch Witch

Arrived on-site @ 0940.
We will drill ditch witch first, then Wanzil Creek.

We will start with SB-18 → refusal @ 4'

PID

0	1	2	3	4
0.0	0.0	0.0	0.0	4.1

5	6	7	8
0.0	0.0	0.0	0.0

9	10	11	12
0.0	0.0	0.0	0.0

#0608004 @ 4-5' depth brown silty clay
@ 1027 no odor

SB-19

1	2	3	4
0.0	0.0	0.0	0.0

5	6	7	8
0.7	0.0	0.0	0.0

9	10	11	12
0.0	0.0	0.0	0.0

SB-19 (cont)

13 14 15 16
0.0 0.0 0.0 0.0
17 18 19.5
0.0 0.0 0.0

SB-19 refusal @ 19.5'
#0608010 @ 1110 brown silty clay,
4-5' depth slight septic odor

SB-20 refusal @ 19.5'
#0608011
@ 1141 4-5' depth
brown silty clay,
no odor

0.0 0.0 0.0 0.0
1 2 3 4
5 6 7 8
0.0 0.0 0.0 0.0
9 10 11 12
0.0 0.0 0.0 0.0
13 14 15 16
0.0 0.0 0.0 0.0
17 18 19.5'
0.0 0.0 0.0

SB-21 refusal @ 9'
#0608012 4-5' depth
@ 1205
brown silty clay
no odor

1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8 9
0.0 0.0 0.0 0.0 0.0

Winsel Creek
Start: 1340 hrs.

WC-1 refusal @ — water between 10-12'
Stopped @ 20'
#0608013 @ 1429
8-10'
Brown clayey silt with
some gravel, no odor

1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8
0.0 0.0 0.0 0.0
9 10 11 12
0.0 0.0 0.0 0.0
13 14 15 16
0.0 0.0 0.0 0.0
17 18 19 20
0.0 0.0 0.0 0.0

WC-2 Stopped @ 16'
#0608014 @ 1510
8-10'
Brown clayey silt
w/gravel. No odor

1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8
0.0 0.0 0.0 0.0
9 10 11 12
0.0 0.0 0.0 0.0
13 14 15 16
0.0 0.0 0.0 0.0

8/30/06

9/14/06 →

Wensel Creek sampling →

WC01 → just S of Ramsey St. in creek -

WC02 → between Rd + 1st walkway

WC03 → between 1st + 2nd walkway heading N

WC04 → between 3rd walkway + Blair St.

WC05 → just W of bend in creek between Blair St. + Elmont Rd.

WC06 → just N of underpass on Elmont Rd. in break of concrete @ spillway

7 → 6

11/7/[illegible] [illegible] Walbert [illegible]
weather [illegible] overcast

Arrived on site @ 0945

WAL - 1 refusal @ 9.5'
~~2B~~ - 1 @ 1141
0604936
sample taken @ 8.4'
no odor, brown silty clay
w/some gravel

PID
1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8
0.0 0.0 0.0 0.0
9 10 11 12
0.0 0.0 0.0 0.0

WAL-2 refusal @ 22.5'
#0604937 @ 1245
#0604938 @ 1243 Duplicate

PID
1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8
0.0 0.0 0.0 0.0
9 10 11 12
0.0 0.0 0.0 0.0
13 14 15 16
0.0 0.0 0.0 0.0
17 18 19 20
0.0 0.0 0.0 0.0
21 22 23
0.0 0.0 0.0

sample taken ~~[illegible]~~ 4-22' depth

no odor, brown silty clay

hammer hit rock

At project manager's request, borings 3-~~8~~7 will be evenly spaced along the eastern edge of the walmart parking lot. Borings 8-9 will be eliminated. Number 10 will be the next number after #~~8~~7

#0608039 @ 1410
WAL 4 refusal @ 12'
sample taken 11-12'
no odor, gray weathered clay

PID
1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8
0.0 0.0 0.0 0.0
9 10 11 12
0.0 0.0 0.0 0.0

WAL 3 @ 1425
#0608040 refusal @ 4.5'

PID
1 2 3 4
0.0 0.0 0.0 0.0

sample taken @ 3-4'
no odor brown silty clay

WAL 5 @ 1441
#0608041
Refusal @ 8'
sample taken @ 7-8'
no odor grayish brown silty clay

PID
1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8
0.0 0.0 0.0 0.0

WAL 6 @ 1515
#0608042
refusal @ 14.5'
sample taken @ 13-14'

no odor gray-brown silty clay

PID
1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8
0.0 0.0 0.0 0.0
9 10 11 12
0.0 0.0 0.0 0.0
13 14 14.5
0.0 0.0 0.0

WAL 7 @ 1544
#0608043
refusal @ 10'
some surface water present
sample @ 9-10'
Inside of soil was dry.
no odor brown clay

PID
1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8
0.0 0.0 0.0 0.0
9 9 10

WAL 15 @ ~~1430~~ 1630
#0608044
refusal @ 13'
sample taken @ 12-13'
brown silty clay, no odor

PID
1 2 3 4
0.0 11.2 7.2 0.3
5 6 7 8
0.0 0.0 0.0 0.0
9 10 11 12
0.0 0.0 0.0 0.0

WAL 10 @ 1650 refusal @ 7'
#0608045
sample taken @ 6-7'
brown dry silty clay
no odor

PID
1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8
1.8 10.6 1.1

PID

WAL 11 @ 1701
refusal @ 4.5'
#0608046

1 2 3 4
0.0 0.0 0.0 0.0

Sample taken @ 3-4'
Brown silty clay w/some sandstone

11/8/06 SULLIVAN 6:30 → 16:00

WAL 12 @ 1157
#0608047
refusal @ 20'
Sample taken @ 18-19'

1 2 3 4
0.0 0.0 0.0 0.0
5 6 7 8
0.0 0.0 0.0 0.0
9 10 11
0.0 0.0 0.0
12 13 14
0.0 0.0 0.0
15 16 17 18 19
0.0 0.0 0.0 0.0 0.0

Brown silty clay w/sandstone
no odor

WAL 13 @ 1243
#0608048 refusal @ 7'
sample taken ~~@ 6~~ @ 6-7'

1 2 3 4
0.0 0.0 0.0 0.0
5 6 7
0.0 0.0 0.0

Brownish clay/sandstone mix,
no odor

PID

WAL 14 @ 1258
#0608049 Refusal @ 5'
sample taken @ 4-5'

1 2 3 4
0.0 0.0 0.0 0.0

Brown silty clay, no odor

PID

WAL 17 @ 1333
#0608050 Refusal @ 14'
sample taken @ 13-14'
some water present @ 10-13'
brown clay, no odor

1 2 3 4
0.0 0.0 0.0 0.0
5 6 7
0.0 0.0 0.0
8 9 10
0.0 0.0 0.0
11 12 13 14
0.0 0.0 0.0 0

WAL 16 @ 1412
#0608051 refusal @ 11'
sample taken @ 10-11'
Brown silty clay no odor

1 2 3 4
0.0 0.0 0.0 0.0
5 6 7
0.0 0.0 0.0
8 9 10 11
0.0 0.0 0.0 0.0

WAL 8 added at AM's request

WAL-8 @ 1455
#0610347 refusal @ 15'
sample taken @ 14-15'

1 2 3 4
0.0 0.0 0.0 0.0
5 6 7
0.0 0.0 0.0
8 9 10 11 12 13
0.0 0.0 0.0 0.0 0.0 0.0
14 15
0.0 0.0

Ex. 6

6

July 9, 2001 OAK GROVE

arrive 7 30

meet w/ Tom Platteer, Jacobs

set up sample tick blanks & fill COC form

CANDYS HOME PHONE [redacted]

- Split samps at [redacted] Acid mine Rd

[redacted] Res.

- Sampled 2nd Res. a [redacted]

- [redacted] Acid mine Rd. [redacted] Res.

(Hommick O.K. Dog tied)

- [redacted] Acid mine Rd. G. Neph 11:17

[redacted] Acid Mine Hallmilk

Bought ICE

leave site 1130 Lunch Pizza hut

- Crew did 11 Samps today

Ex. 6

Partly Cloudy, Hot

July 10, 2001 OAK GROVE

arrive 7:30 - Bought ICE

gave well survey info to tom

- split samples Weatherly Res

[redacted] Acid Mine Rd

- Sample FOE 11:00

1000 FOE 260gal pressure tanks

240 gal pump

[redacted] Res

[redacted] Sherwood Ln.

- sample at [redacted] Res

[redacted] Sherwood Ln.

Ex. 6

Ex. 6

Pt | Partly Cloudy WARM

July 11, 2001 OAK GROVE

[redacted] North South Rd

Has Litter

[redacted] North South Rd

[redacted] Res 0915

[redacted] Hwy 185 N.

Res

[redacted] Res

CLONTZ Rd

~~012256~~ Same No.

0127056

Pull ~~Cloudy~~ at home to get ~~directions~~ to Strasser Rop.

– Call ~~[illegible]~~ Wen. after 7.

Call 7-9 pm

[redacted]

185 South to ~~Hwy~~ Vine St

~~Hwy~~ Vine

Rt on Vine to 1st St.

1st to East St.

Lt. on East St. to Watson.

Lt on Watson (toward River)

Ex. 6

(Cloudy 40.1

7/19/01 OAK GROVE
- Tom Plattner - Jacobs
- go to [redacted] Res to spring samp
trickle flow
Spring at [redacted] Res
N ~~34 40 558~~ 38 12.409
W ~~91 10 529~~ 91 7.705
Poor Coverage on GPS
Collected water samp for dye
+ found + replaced bug
Spring near mouth of large cave
at least 2 1/4 mile long, opens
1/4 mile back aka Mr Slanser.
2nd spring nearby not flowing

[Meet Brian Wilcox Fri 8:30]

Wentzel creek not flowing @
TRW on City PARK
L 7.30 CASH ICE 1.19
Thunderstorm 12 - 1 pm

Sample at Scott Mechanical
38 11.560
91 11.172 1037'

Sample sediment in
Wentzel Creek at Sullivan City Park
N 38 12.512
W 91 10.267 el 1005

6:30 - ~~4:3~~ 5 1/2 lunch
ICE 1.13

MSP - Maramec State Park

7/20/01 OAK GROVE
Ice 1.13
Contour
650 & below Emergence

Copper hollow - bottom Case Ogc
Elm - Ogc
Falling Spring Ogc
Maremec St. PARK - MSP
March to Lake Spring take split
#0127758 38° 12 155
Time 10.40 91° 7 394
7.35 ph
Cond .475 Time 10:47
C° 13.8 Sspm
DO 6.26 Set Bug
TURB take water sample
Took split for Dye

MSP
Chickadee spring Set Bug
38° 12 180 took water samp
91° 7 235

Ce

Camper spring - take water & set bug
N 38° 12.734 good flow w/ICES
W 91° 05.511

Fisher Cave spring
take split & water sample
for dye
Time 14:20 #0127057
ph 8.26
Cond .296
C° 13.4
DO 8.34
Turb 3.68

Brian Wilcox - MSP Naturalist

sunny Hot!

7/23/01 OAK GROVE
Copper Hollow spring - 1 CFS
flows from base of 60' cliff
set bug at log across stream
took dye sample - water
38 14.328 Lat 618 el
91 05.836 Long

Ee? massive - un bedded not much
Chert, some chert breccia at
top of hill

Glaser Property sinkhole pond
N 38 14.051 lotus blooming
W 91 7.353

Falling spring (below Hwy 185)
N 38 12.560 west side
W 91 06 449
gradual inc. of flow from alluv.
saprolyte plants
split samp, Dye water samp
set bug, tied to stump

Sample 0127063 0127063
0127063
ph 7.16
Cond 0.592 TURB 18.83
temp 25.7 DO 5.55

Spring enters spring branch
above water taken below mix
5 gpm flow

Holenbeck spring
- Conc. Box culvert
N 38 11.659 trickle flow
W 91 8.629

Seven springs, talked to resident
Spring is dry, used to flow
1 million gp day
N-38 11.741
W.91 9.383

Ex. 6

7/24/01 OAK GROVE
Cloudy, Hot
[redacted] Res., just had new pump
installed yesterday
GARMIN N 38 15.836'
W 91 10.685'

MARCH II 38 15' 50.0620"
91 10' 41.5650"

631
1 KRATZ SPRING el
N 38 19 .540'
W 91 09 .356'
11:00
water sample for dye, set bag
Strong flow, multiple CFS, Class II

At 1st view of spring branch, Go
Right 100' to sign post
in ~~ee~~ branch bank ~~next~~
inst. inside waters edge

9/24 OAK GROVE
- Pull rest at 13 second out of well
Oak Grove
- Do Down hole Video to investigate
obstructions at 465'
- Some Chert pieces retrieved from
top of Centilizers " pieces Chert

VIDEO ~~265~~ V bgs
17' - 161' leaking casing
370 - Sandpaper on side of boring
373 - Voids
382 - Void w/ rocks ~~not~~ resting
on ledge 1" - 1½" rocks
411 - Void
441-448 Large irreg. Void
466 - Void
470 - rock hanging

Centilizers are being shimmed back
to CA for re-tooling. Shave off ½"
& bevel edges.

Lunch 7:00

9/25/01 OAK GROVE
- running New Cable, + Pump Pa
assembly down well to see if
it will clear to bottom
Run to 730' bgs soft bottom ~ 725'
on site Todd Trimble - Jacobs
Brotcke drillers - Steve

Todd expressed need to Sample City
of Sullivan deep wells

Because the downhole video of yesterday
showed rocks hanging on ledges. I propose
to sweep Borehole. Well dia. 6"
May want to sweep with wire brush
similar to chimney cleaning.

OAK GROVE well Cased to 350
TD 720
EP 305'
Stuck 4960

Oct 10, 2001 OAK GROVE

- Installing board

OAK Grove June 13, 2002

Candy

#4 231.75 ▽ TOR

#1 No reading, deeper than 300'

#2 231.75' ▽ TOR #4

all measured to TOR #4

#3 231.75 ▽ TOR #4

inflate 2 packer lines w
150 psi N_2

13:30 after packer + 1.5 hours to reach =

#1 — No reading, > 300'

#2 232.00 ▽ TOR #4

#3 231.56 ▽ TOR #4

#4 231.20 ▽ TOR #4

#1 checked again, No Reading > 500

Try to purge #2 No response, almost
negative response — flow back into well

Purge

3 good flow
4 good flow, turbid
#1 weak neg response
Sampeled #3, & #4 Cannot get water from #2

June 18, 2002 by self
#1 Got ▽ at 40 on tapes
tub of water level think that means 400 feet with extra 1 foot of tape so ▽ 401
T.D. of piez is at 402
so may be water trapped in sump of piez

Swagelok

June 20, 2002 w cand/
#1 Dry obstruction at 401-402

2 ▽ 232.65 TOR #4
obstruction at 400'
4 ▽ 231.65 TOR #4
obstruction at 401-402

#3 ▽ 232.33 TOR #4
obstruction at 401

Purge #2, good flow at 305 psi

during purge piez # 3 erupts like geyser, rust in water, pieces of casing

#2 sampled, good flow at 210 psi

Tried to samp #1, 2 ~ 250 psi
piez #3 erupts with water

~~4~~ 775 - 708 1st assembly
~~2~~ 618 -
603 - 611 2nd assembly
499 - 506 3rd assembly
4th packer & pump

Email to Candy Pump 394.98
pat 402.7

Talked to Noah about this 6/26
tubes run from piez to depth
all piez and @ 400'
Tube disconnect from 3

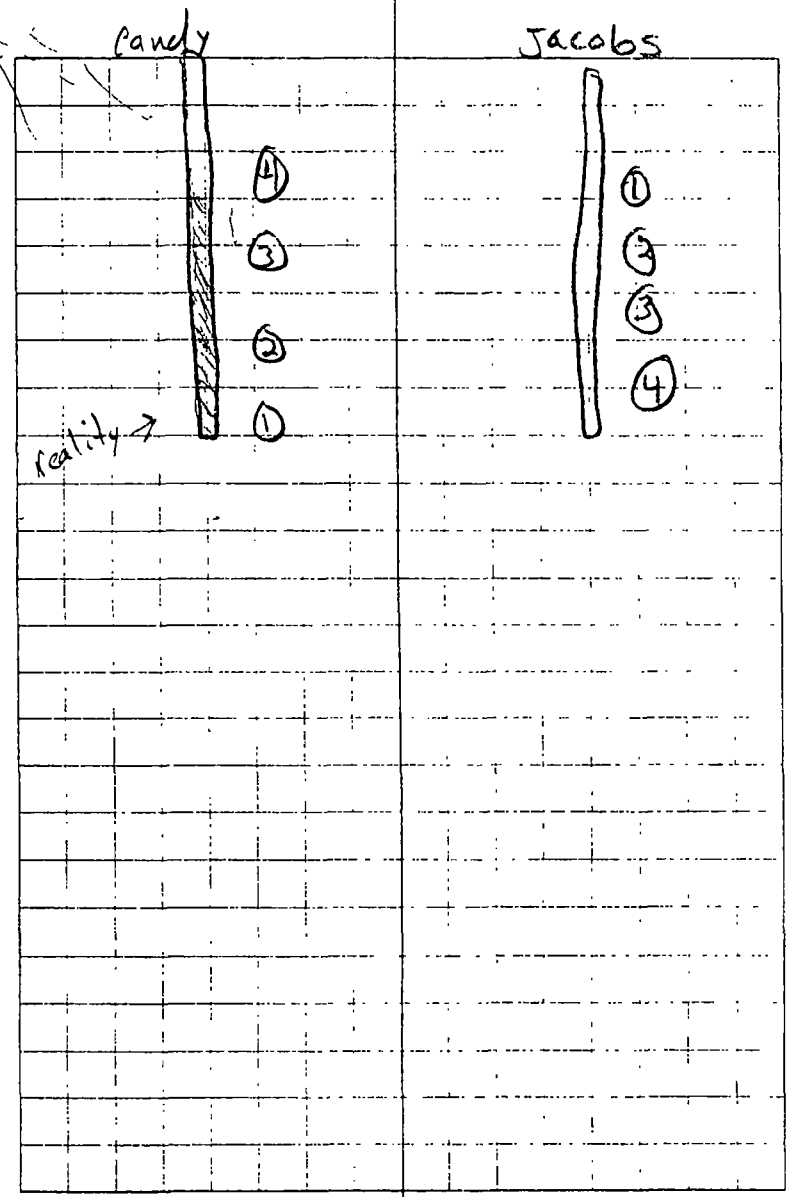
~~Rich~~ Pinch at piez tube ~~the~~
or slump & pinch

9 JCE unit #3 Sampled 13th 4/14

6th June sullivan well #9 @ 4.6 JCE

Cave stuff

Geophysics



OAK GROVE 9/9/02

Baired

#2 247.85

inflate packer to 220 lbs

#3 247.55

#4 247.69

Purge #4 with ~ 150 psi
3 200 psi
2 250 psi

liser tip 2 empts with water

Ex. 6

March 2 2004 OAK GROVE
OAW-1 249.30 ft static

Candice McGhee ALPD Neil Stevens - SLS
John Shoemaker USGS
taking samples discrete

[redacted] Shoemaker Cell Ph#

Location [redacted] Res LOC 2-13
N ~~38° 51.~~ ~~1~~ 119'
~~91° 4~~ ~~9.~~ ~~548'~~

N 38° 12.121'
W 91° 9.217'

Crimmons
N. 38° 12.134'
W. 91° 9.152'

REAVIS
N 38° 11.866'
W 91° 11.770'

2

Location

Date 2/2/05

Project / Client

Voss well : ∇ - 198.2 :

TD ~~292~~ 356.

24H 2/23

Location OAK GROVE

Date 2-16-05

Project / Client

Meet SDS Drilling at Voss well

Meet Joey ~~Harbeson~~ Larrison - City Sullivan water

Learn that another "old" well may exist near Voss meat, @ old home site.

Talked to John S. USGS, says we will start pulling Voss well @ noon 2/17.

Voss well 5" Dia

2/17/05 Nick & Steve Schroeder SDS

Arrive Voss well @ Noon, Pump has been pulled, pipe stand is in poor condition - Need to replace. Voss well being served by 1000 gal tank on truck.

Learned Voss TD is > 292'

SDS video borehole video

Bottom casing 107, No drive shoe

191 ∇, 159 in lat large fractures

only drips of water entering from above ∇

Pulled 19 lengths of riser pipe

in 280' of pipe

Having trouble getting grundfos pump into water at the void. May Have liner below void. → Jason from USGS brought pump to clear well for video

Grundfos cannot lift H2O 200'

Collector's Initials:

Sample Iced? Yes No

Location [illegible] Date 2/18/05

Project / Client Ensley

Voss well Elevation ~ ~~980~~ + 902 Ft 3/23

Last night Johns - USGS & S+S pumped ~ 1000 gals from Voss well.

Elev + 7' Along Radio Voss 10:00 am

Voss Well video Bottom Casing 107

Void 193, Yellow stain rock,

D 195

Void 216 } Vuggy, weak rock

Void 226

230 Building Plain, (Competent below 230)

Void 241

250 Building Plain

Void 264

Void 314 <Service pump set here>

Void 322

Void 331

Void 341 weaker rock, vuggy

Bottom 356'

Hole in Casing 56'

Drop pipe had many holes, covered with yellow film

Location Ensley Date

Project / Client

Re-Run Voss well video with Compass Scale

Yellow stain starts at 34', water entering casing at 36', well cased.

This video more clear, See numerous holes in casing

123' N-W frac

199 N-S frac

215 N-S frac

241 E-W frac

264 N-S frac

314 N-S frac

323 NW-SE frac

Learned that City well 8 is plugged

City well 2 has a satellite

Harrington, Joey - City skill rate

Lunch $8.05 - Subway

1:30 pm start caliper test, Larrison visit

Sullivan numbers Y, good, no good

3:30 start 1st pulse flow test

Problem + USGS leaving c.c. only has enough gas for 2 hours

Heat Pulse ① 205' 4.09

② 225' 1.23

③ 226 N/A

Collector's Initials: Sample Iced? Yes No

Location: Friday Date: 2/18/05

Project / Client: cold - clear

(4)	227	1.43	
(5)	230	1.40	
(6)	248	1.53 + 1.57	
(7)	254	1.62	
(8)	274	1.69 almost average 1.74	
(9)	290	1.57	
(10)	310	1.66	
(11)	325	1.6	330
(12)	333	1.38	
(13)	345	1.26	
(14)	351	1.1	

take samples from 3 all zones
205, 290, 235

Location: Voss well Date: 2/19/05

Project / Client: Saturday

Voss well is 6'4" deep Scale

Water moves fairly at ~~37~~ 36'/hour
will reach equilibrium overnight

John S USGS at MG.
Cloudy + sleet

8:00 start Temp, Cond. log
Last night had problems with
Both USGS field GC's; PCI cand
trouble in one GC leaking gas
out of the other GC

Static 191.6 ▽ Voss Well

S+S will re-set pump @ 274

Cond. 220 fresh in
high cond at top 340 uS
Spike down at 252,

Running S-P log up
4.1 feet of cover on return due
to slack water

	DO	DO	DO				
IN	205,	212,	225	252,	264,	275	
out	350						

902 cl
- 192
710

Collector's Initials: Sample Iced? Yes No

Location Voss well Date 2/19

Project / Client Saturday

Take sample for Flourescent analysis
Remind to tell DCLS Lab
to save water, need for Cl⁻ test
Taking Lab samples

Depth	D.O.	Time
205	6	10:50
212	5	11:18
252	5	12:45
264	X	13:10
275	X	13:25
350		14:05
220		1428

max [illegible] bind.

SWL @ 1510 top 6" steel = 192.13'

Voss well has history of 18 volitiles
detected
> mc4 TCE, Methyl Chloride
No Cr^{+6} Testing

Location Voss Well Date 2/21

Project / Client Monday

Scale

Went to Voss Well, pump installed by S+S as is. J.S. calls S+S and tries to install w/o truck City is off today Holiday, probably could not make a decision today
New Riser pipe installed. Some New Fittings installed.
A New LINER NEEDS TO BE ~~INSTALL~~ INSTALLED TO ~480'
Voss well has history of contam TCE, MC, Plus 18 Volitiles, No testing for Cr^{+6}
-330
550 El 550 Depth 330
Voss Well 880 el
For monitor wells Drill to 480' deep or Elevation 400 (assume 880 el surface) to equal Contaminated zone at 6GV
960 el 6GV - 880 el Voss = 80' diff
Elevation of Interest 430 - 400 el
(over)

Collector's Initials: Sample Iced? Yes No

Location

Date

Project / Client

Voss elevation ~ 880el OGV 965 el

880	880	965	965
-430	-400	-535	-565
450	480	430	400

Target depth at OGV
535 - 565

elevation of Intrest
430 - 400

Drill to 480 bgs open to 450 bgs
30' open int.

2/23/05
Burt Smith calls me, says surveyed elevation for Voss well is 902' MSL

902 MSL
- 400 MSL
502

Drill to 502 bgs + extra rod length
No more than 520' bgs

Location

Date 3/1/05

Project / Client OAK Grove
Land Fill well

Scale

Meet w Robert Skrivan - IREM
TSI Eng.
1st attempt set 41' casing
test circ. by 90
move off hole & try 2nd attempt.
Tim Ellis - Layne Driller
N 38° 14.057
W 91 08.147
Rig stuck in mud up to axil, unable to level rig to make straight hole, need to get timbers to level

Collector's Initials:

Sample Iced? Yes No

Location _____ Date _____

Project / Client _____

Arrive @ noon, rig at L.F. site
@ 105' bgs. having trouble with
No returns. worried bit will
get stuck. may need to set
Casing here to help returns

After lunch Rig clicks to 100' bgs
- Setting 10" Casing, Tremie Plug
bentonite

Location OAK Grove Date 3/4/05

Project / Client _____

Scale

15 bags Bent
50 bags Portland
1 cement truck, 100 bags 9400 lbs
Pump Barely not filling up
most air was lost at 56' bgs

Q: Why not use a out shoe?
A: air lost from multiple voids
from 56 to 102'
Q: Why not drive casing without shoe?
A: "That's not the way I wanted to
construct the well."

In 10" hole to be [illegible]
8 bags [illegible]
only 2'

Raises to grout level to 45' bgs
in 15 in

Collector's Initials: Sample Iced? Yes No

14

Location LOAK Grove Date 3/7/05

Project / Client

Drilling well behind landfill well at 114' bgs. hit another void, lost circulation.

options 10" casing w driver
6" casing w driver
Dual tube rev. circ.

running air pressure at 120 psi

trying to abandon other boring, taking much ~~g~~ bent + cement

3 rods (20' ea)
114
60
174

Landfill well elevation 856.15

Gasc/Em @ 230' bgs

856' 856 856 856el
-430 -400 -450 depth
426el 456el 406el

Location OGV Date 3/8/05

Project / Client

Scale

Last note hole drilled to 200' bgs
@ 120' bgs
Hole began to fill in, tripped out of hole
Hole back filled w cuttings to 176' bgs
Hole filled with bent/cement slurry. Grout being used as casing. Drilled hole to 117 bgs
added 200 more bgs

451' current Depth
484' 390'

open 200 - 700 bgs ?

static 149'

234
219
14' thick

smooth zone 390 - 400

856 856
-400 ft -316.97
456 510

[Gantex cuttings]
219 - 234 Base

856
219
637

856
-234
622

Cased 102' static 149'

BH 120
200 120
408 149

el 204/ 305'

Location OGV Date 3/11/05

Project / Client

Borehole Fluid Points

424 Burts proposed
364 open 450 - 700
320 (-250)
230
370
344
200

OGV 3/11/05 223.07

990
223
767. el.

water at 140'

160 V .04
200
230 meet with Bart,
270 Candy, John S.
320 myself.
345
370
390
420
435

Location OGV Date 3/14/05

Project / Client

Scale

OBS drilling for a short time.
Drill only approx 10'. 3 water pumps have been pumping water from Roll-off to sewer.
Lots of water spilling to ground
Approx 200 + gal. Site geologist not taking cuttings or making notes on cuttings...
TD as of today at Landfill well ~ 460 bgs

Collector's Initials: Samples Total: Pos: Neg:

Location New Haven Date 3/31/05

Project / Client

arrive 12:30
meet mr Bentley
Well at 79', had 2 seals
break earlier today.
at 79' blow air - dry, go 20' more
80 - 90 a few thin SS stringers
95' SS ↑ to 40%, Lt Brown SS
100' Losing SS 25 - 35 LS/SS

[Casing 30' bgs] [5' to BR.]

102 - 108 70% LS 25% Blue Shale, 5% SS
110' 90% LS 10% shale trace SS
110 - 120, 95% LS, trace SS, trace chert
[No appreciable wate inc.]
from 100 to 120. Drill another 20]
120 - 130 95% LS trace shale, SS, chert
130 - 139 95% LS, inc in buff LS
Buff LS soft (weathered LS)

Location New Haven Date 3/30/05

Project / Client

Arrive OGU 11:00 Am
Rig is behind Flying J, ~Approx 600'
15" hole to 96'
on Site Layne Drillers - Tim E
Robert Sullivan - TSI Eng
Tim says he is not sure where to set casing, Robert says case all the way thru Rbx. I say may want to keep drilling until circulation is lost or GW ▽ is reached.

4/1 reported that hole was drilled to 105 bgs. Booster on 3/30
Compressor is out.
Gave Rob S. E-mail from Burk
Re: target depth.
2:33 Told Compressor getting repaired on monday - Not rentable in field
Resume drilling on Tuesday

Collector's Journals

Location

Date

Project / Client

Well Elevations		Depth ▽	Elevation ▽
Landfill well	856	160	696
Flying J	934	182	752
VFW	942	191	751

July 8, 2005 Statics

OAK Grove Vill #1	254.56	TOR
Flying J	186.90	
VFW	202.20	TOG
Landfill	165.82	
	247.67	

Flying J, VFW + LF wells found unsecured.

COS wells 3 + 9 Have been pumping

Location

Date

Project / Client

Scale

Elevation ▽ 7/8

690 L.F.
747 J
739.8 VFW
712 OGV1

Collector Initials

Location Date

Project / Client

Location OGU - Walmart Date 9/27/05

Project / Client Sunny 70°

See Sketch

Sample 1-1, 1-2 Tree Core ?

N 38° 13. 398 North side

W 91° 9. 298 ditch 3-4"

185 Gauge

Sample 2-1 ~~2-2~~ Tree Core

~~Elm~~ Cherry

N 38 13° 415

W 91 9 309

185 Gauge

Sample 3-1 Tree Core

N 38° 13 416

W 91 9 303 All Tree cores taken

185 Gauge 3 feet above ground

Sample 4-1 Drumsite ?

N 38 13.401

W 91 8.769

Sample 5-1 Drumsite ?

N 38° 13.397

W 91° 8.768

FRED SHAW - KURT HOLLMAN

Collector's Initials:

Location

Date 9/22/05

Project / Client

Sample 6-1 willow
Drum site.
N 38 13.401
91 8.783

Sample 7-1
N 38 13.406 soft tree
W 91 8.791

Sample 8-1 mulberry
N 38 16.394
W 91 8.813

Sample 9-1 maple
[illegible] Lagoon
N 38 13.[illegible]
W 91 8.797

Sample 10-1 elm
38 13.402 Lagoon Berm

Location OAK Grove

Date oct 15 2005

Project / Client [illegible] 2 [illegible] Flying J

Scale

Downhole video of flying-J Mud casing definetly out of plumb

179 Blow out

190 ↓

250 smooth Rock 250

350 Sandstone buff → 360

474, Hole Collapse, mud on lens. Have not seen mud in boring until 474'. Could indicate borehole Collapse

Brenna + Billy

Collector's Initials:

Sample Recd Yes No

Location OAK Grove VFW well Date Oct 14 2005

Project / Client OGV MW-3

2 Tapes - Brena & Glen
meet at 9:00AM VFW
Glen & Brent Downhole video VFW MW
- can hear H2O running down well
Casing 132
158 water coming in from ~~bot~~ Bedding
161 Vug producing much water
183 " "
190 ▽ spinning vortex at ▽
water clears up at 204 ▽
266 - 272 Vuggy very cherty zone.
Chert breccia
308 Vert frac.
311 " "
323 - Blow out, small cave
332 - Vert Frac. Both sides
384 - sandstone ?
415 - small cave, maybe sandstone
417 - larger cave, vert frac.
~~45~~ 430 - 450 number of vert frac.
469 Hole offset
500 cave, - Blowout
571 mud flow / gravel obstructing
Bore hole

Location OAK Grove Date Oct 14, 2005

Project / Client OGV landfill well MW-1

Scale

Start at Land Surface
Casing 103' grout marks down hole.
120' - 130 water coming in
170' ▽ First sand at 169
~~408~~ Vert frac
430 Vug
432 Hole offset
444 Blow out along fracture
472 Vug
503 Large cave, Bactrioidal rock
Potassic chuze?
3' steel rod in bottom of hole
504 Bottom

Collector's Initials: Sample Identification No.:

Location CGU Date Oct 19

Project / Client AF Tree Sample

Fred & Kret [illegible] warm

Sample 1 AF Color on trees

Samp#	Time	Lat	Long	dia	Tree
1 AF	10:09	38° 13.954	91° 10.409	4"	Hick ?
2 AF	10:15	38 13.979	10.397	8"	W. OAK
3 AF	10:20	13.940	10 398	12"	W. OAK
4 AF	10:44	13.943	10.398	8"	Hick ?
5 AF	10:50	14.012	10.403	6"	W. OAK
6 AF	10:55	14.035	10.400	4"	Persimmon?
7 AF	11:02	14.057	10 401	12"	W. OAK
8 AF	11:08	14.065	10.412	8"	Sharp pin OAK
9 AF	11:15	14.110	10.404	5"	Ash?
10 AF	11.23	14.118	10.407	4"	Ash?
11 AF	11:30	14.139	10.401	6"	elm
12 AF	13:10	14.165	10.404	8"	elm
13 AF	13:20	14 182	10.401	8"	elm
14 AF	13.23	14.209	10.404	5"	Cedar
15 AF	13.28	14.234	10.406	4"	hickory
16 AF	13.34	14.250	10.405	8"	Cedar
17 AF	13.41	14.336	10.388	14"	Cedar
18 AF	13.54	14 178	10.420	14	elm

Location M. Date Oct 20

Project / Client

Cloudy warm . Color on trees

Samp	Time	Lat	Long	~~Dia~~	~~Tree~~	Dia	Tree
19 AF	9:18	38° 14.303	91° 10.400			6"	Persimon
20 AF	9:36	14.351	10.378			12	elm
21 AF	9:46	14.402	10.358			6	pine
22 AF	9:55	14.429	10.335			10	Hick
23 AF	10:05	14.340	10.342			8	elm
24 AF	10:11	14.350	10.333			14	Cedar
25 AF	10:18	14.338	10.307			24	OAK
26 AF	10:25	14.348	10.256			18	OAK
27 AF	10:31	14.339	10.259			12	Catalpa

Collector's Initials: Sample Used? Yes No

Location VFW Date 12/01/5

Project / Client

V VFW 2010
Crystle Perry Mugal
Kurt Heilman
Tempe, Gamma, Res

Location Landfill well Date Dec 13, 05

Project / Client

Scale

Landfill MW ▽ 174.05
Perry Mugal USGS
Justin USGS — intern
Casing 104
run ① temp, cond, res.
run ② caliper
Take water sample for practice + Background. Water column is mixed after 2 tools run.

Collector's Initials

Location Landfill well Date 12/16/05

Project / Client OGV –

on site Doug Magel / USGS.
Justin USGS intern

V 174.
(measured from top of riser)
1st water sample from 185'
0507352 10:10
Doug wants to take samples from bottom up if they (+ we did) take samples from top down — Reason: to cause less disturbance to water column. We will decon bailer between each sample. Doug makes the assumption that shallow water is more contaminated. But we have no data to show this as of yet.

2nd water sample 250'
Sample 0507353 No Good
Decon procedure – methanol rinse plus DI water 3x rinse

0507353 – Sample port open on return – Thrown away

Location Date

Project / Client

Scale

3rd water sample 250'
1130 0507441

4th water sample 415'
12:23 0507354

5th water sample 480'
1305 0507355
[illegible] 24' [illegible] Hour

Location OGV - VE W Date 12/20/05

Project / Client

Sample	Time	Depth
0507356	10:48	225
0507357	11:42	300
0507358	12:50	410
0507359	13:52	525

Doug [illegible] - USGS
[illegible]
[illegible]

Location OGV Date Jan 18 2006

Project / Client

Scale

Field Show
Kirk Hoffman
Ray Tiekenbrink - TRW
Measuring - I S

Location _____ Date JAN 18 2006

Project / Client _____

Well	▽	Time	
4D	142.78	9:50	
1D	188.00	10:00	
1DD	204.78	10:04	
21D	171.43	10:14	
19D	180.72	10:26	
13D	178.40	10:35	
12D	204.18	10:45	→ BREAK TIME
18D	207.85	11:15	
18DD	230.94	11:21	oil film?
20DD	224.98	11:38	
11D	203.64	11:49	
17D	154.33	11:57	
14DD	180.11	12:07	
14D	137.40	12:11	
8D	191.42	12:22	
MW-24	196.17	12:32	
Flying J	190.72	1/19/6 2:15pm	
VFW	206.9?	→ Doug ~10:00	
Landfill well	174.70 New point	1/19/06 9:45	
old point	175.70		

Location _____ Date JAN 19

Project / Client _____

1/18/06 _____ Scale

VFW Start up @ 5 204.7 ft
mixed hand
Grove Removed to Hugo Meyer's

1/19/06 ~ S&S Setting 350'
of 4" Titelock PVC Liner Sch 40
in Landfill well. Doug moved the
casing point from 325' to 350'
because of some voids viewed on
the downhole video.

VFW had 330 feet of ~~4"~~ titelock
installed. Actually 327'.

Landfill well 7 1.1 feet diff
between TOC pvc to TOC steel
steel casing 2.16' above grade
1/19/06
VFW INNER 207.50 11:30
VFW OUTER

Niel & Marie Stevens S&S
Drilling helping me release
Type 1 from well
F

Location _____ Date _____

Project / Client _____

JAN

Well	2	18th + 19th
Well	3	18th (not much)
Well	5	18th + 19th
Well	7	18th + 19th
Well	10	18th + 19th

only 45,000 gal pumped at 3

Location OOV Date 1/30/4

Project / Client _____

Scale _____

at Peterson Res 120' AF
Glen Young
Doug Mugel — USGS
Downhole Video

N. 38 14.353
W. 71 10.483

176 Bottom Casing
178 Large Void - hole offset
180 To Long surface
202 Large Void
214 Vert Frac
248 Joint set
253 Void
270 Void
287 - 290 smooth, comp
290 - 310 smoot zone
311 vert frac
318 smooth
333 Bottom

Location OGV Date 1/31/06

Project / Client

Peterson well Doug Mugal USGS
180.20 ▽ TOC Kurt Hollmann
1.5' stick up
174.9 Landfill well
174.7 according to Niel ~~Stafer~~ Stevens

VFW 210.1
202.8

TRIED 3X to Run Geophysics
Having trouble with drawworks.
Problem is depth recording tells.

~~Niel at~~
Temp, Conductivity, &

Location OGV Date 2/16

Project / Client

Peterson Well 1402 AF Scale

Doug Mugal
Niel Stevens hooked up AC power for drawworks, yesterdays problem may be generator power surge
- Caliper log
Casing Reduction @ 162'
15.5 cm → 13 cm
Borehole was reduced to 10 cm (100 mm) 4 in
HAVING TROUBLE WITH LOGS
S.S. came by.

Location Peterson well Date 2/2/6

Project / Client OGV

Doug Mugel - USGS
Ran + Ran another caliper log - still giving negt(-) readings.
▽ 179.95 TOR - 1.5 = 178.45
Run Heat-Pulse flow

Depth	Flow	DIR	NOTE
196.0	0.02 gpm ?	↑ UP?	Not sure
238.0	-0.10	↓ Down	
239.9	-0.05	↓ Down	
256.6	-0.18	↓ Down	
262.0	-0.25	↓ Down	
270.4	-0.12	↓ Down	
273.7	-0.08	↓ Down	
283.9	-0.05	↓ Down	
289.9	-0.17	↓ Down	
292.2	-0.13	↓ Down	
297.0	-0.17	↓ Down	
305.3	-0.05	↓ Down	
311.7	-0.04	↓ Down	
314.5	-0.08	↓ Down	
322.0	-0.04	↓ Down	
325.3	0.03	↑ up	
~~328.0~~			
327.8	0.01	↑ up	

Location OGV Date 2/2/6

Project / Client

Scale

Depth	Flow	DIR	NOTE
329.5	0.01	↑	Near Bottom
<start upward>			
325.5	0.20	↑	
325.2	0.01	↑	
321.1	0.0		VOID
318.9	-0.03	↓	DOWN
303.0	-0.06	↓	DOWN
248.3	-0.04	↓	DOWN
~~185~~			
205.0	0.01	↑	?
~~186.9~~			
187.1	0.03	↑	?
182.5	0.01	↑	EN VOID Below ▽

0.01 - 0.02 ↑ may be from thermal drive upward ∴ NO FLOW

Location Peterson Date 2/6/0

Project / Client OGV

Doug Mugal - USGS
Discrete samples

Peterson II 180.5 TOR (down 0.5 feet)

Sample #	Time	Depth	
0507364	1010	TRIP BLANK	
0507365	1300	190.0	(10' below II)
0507366	1349	222.0	(near void)
0507367	1440	262.0	(13 below void)
0507368	1512	297	(High flow)
0507369	1646	324	(Bottom)

948
1210
[illegible]

Location Peterson Date 2/13/04

Project / Client OGV

Scale

Valentines day

Doug Mugal USGS, Nick in AM pumping Peterson well 11:40 2/13/04

Initial pump rate was ~~[illegible]~~ 12 gpm (Nick's scale)

Pump set 198.5' below land surface

pump rate reduced to 10 gpm

~~[illegible]~~ Initial 180.5

TODAY 186.1

5.6 DRAWDOWN

Today we will use flow meter with No Baffles while pump is running.

Depth	Flow	Time (sec)
~~189.9~~		
180.1	0.02 ↑	22 sec (thermal rise)
196.0	0.02 ↑	17.65
203. Below pump	0.04 ↑	9.3
204	0.05 ↑	8.4
208.1	0.05 ↑	8.5
216.0	0.01 ↑	40 (void)
233.0	0.03 ↑	11.6

Location Peterson well Date 2/14/96

Project / Client OGV

Depth	Flow	Time	
235	0.02↑	25.1	
238.5	No Real Peak Area		
241.0	0.02↑	20.2	
257.0	0.03↑		
263	0.02↑	19.55	
273	0.04↑	9.85	
275	0.03↑	15.7	
284	0.04↑	9.7	
297	0.02↑	20.8	
305	0.03↑	12.8	
315	0.01↑	43.0	Double hump
316.1	0.02↑	25.05	
321.5	0.02↑	21.7	

Location Peterson well Date 2/14/96

Project / Client

Scale

Depth	Sample	Time	
190	05073361 06023833	1315	Above Pump
206	05073362 06023834	1348	Below Pump
240	05073363 06023832	1436	Above Valve
283	05073370 06023831	1525	
320	05073380 06023835	1617	Near Bottom
TAP	05073371 06023879	1700	

TRIP BLANK 06023820

Location OGV Date 6/2/6

Project / Client

Sunny warm

S+S Drilling @ 185 Course
arrive 1pm, Rig at 20+ feet
Report BR @ 10' BGS. Niel Stevens
says hole smells like Petro

10 - 20 Lt. Gray dolomite w Lt. Gray
Chert, 5% Lt. Brown Chert
(looks like Gasconade)
20-25 Same as above Lt gray Chert
& Dolomite (Gasconade)
Niel said he will work sat

Location OGV Date 6/3/6

Project / Client

Sunny - warm Scale

S+S Drilling at 185 Course
arrive noon, depth 35' tops
in Buff SS (Rbx)? all above
could be Rbx
40' clean, buff silica sand
(inc. 92.

Location Oak Grove Date 6/6/6

Project / Client 185 Garage

arrive 11:30. Pick setting 8" Casing to 29' bsg) 31' TOC
USGS notifys me that their GC is seeing multiple peaks, some in TCE time. Could be slow hydrocarbons in soil washing down borehole.
12:45 tried to sample - No H_2O
resume drilling
6' of 10" Conductor casing, 3' into ground
31' 8" steel casing set 29' into ground - No Grout

Well Coordinates
N. 38° 13.420'
W 91° 9.273'
Alt ~~881~~ ~~973~~ 975

Decimal Degs. 38°. 22366
91°. 15456

40-50 Silica Sand, Buff Rbx
52' air filled void blowing cool air

Location 185 Garage Date 6/7/6

Project / Client OGV

Scale

50-60 NOT OBSERVED

60-65 Buff silica sand, 1% white chert

65-70 50% Sand 50% white chert
trace Black Dolomite

70-75 Buff Silica Sandstone
trace white chert.

Ann Keller DGLS said top 30' of dolomitic chert is Rbx On
Hole still taking water. +250 gal 2 day
water Sample taken from 70' #0600096 DNR
chert holding some water

75-80 Buff Silica Sandstone 75% USGS
White Chert 25% Sand

Location OGV Date 6/8/6

Project / Client 185 Garage

arrive 11:00 SES drilling at 185
water sample taken for USGS
this AM after water collected in
BH.

80-85 50% sand, white chert, 50%

85-90 Formation change to white dolomite
& white chert 50%

90-95 same as above but incl brown dolomite

95-100 Brown dolomite 90% 5-10% chert
(Holding water better)

100-105 Brown dolomite, 50%, sandy br. dolomite,
white chert 25%, trace blk chert
~~Same Ad and mentioned~~ + lt. Br. Sandstone

105-110 Encountered void, - Red clay
Brown fine gr. dolomite, 70%

Samp.# 06002386 14:25 from 110'

Location OGV Date 6/20/6

Project / Client 185 Garage

Scale

Took Samples 1½0 from
175 + 200' - Missed 4 hrs
Date was 6/19/6 as I
Trusted my cheap watch.
call to Mass dep Gasconade
06002387 195'
06002388 200'
(Settled) 5 min in
beaker to Reduce Solids
This entry made 6/20/6

▽ measured this AM 170

Location OGU Date 6/21/6

Project / Client 185 Garage

Approx EL MAP ~940

170 Bit change 8 → 6"

200'

Talked w. Randy + JS. Re 40' water column in 185 well.

200 - 205 Buff @ Clean SS fine Gr (Gunter Top) Dries to white sand

205 - 210 Buff SS arenite Gunter

210 - 215 Buff SS arenite

215 - 220 " Gunter

water ▽ measured this am before drilling at 161' bgs (▽ has come up ~10' since yesterday)

J.S. to sample cuttings ~~bin~~ rolloff for disposale decision.

All samps clean so far while drilling

Location OGU Date 6/21/6

Project / Client 185 Garage

Scale

Need to check logs to see if any S.S. Noted at Oo Ee contact

220 ▽ 173.2' TOC

220 - 225 white fine sand (Gunter)

225 - Fine Gr, Lt Gray dolomite 90% 10% Brown dolomite, Same

T.D. 225 Clay from above

Took lab sample 060 2389 from 220 - 225 bgs

Kent Kudney

11 meeting

Location OGU Date 6/26/6

Project / Client 185 Garage

Below sumps logged w microscope

170-175 50% Buff dolomite
50% white chert

175-180 60% Buff dolomite
25% white chert
15% calcite, trace
Trace Blk chert

180-185 60 ~~80%~~ Buff dolomite
35 ~~15%~~ white chert
trace blk chert trace sand
5% calcite

185-190 80% Buff dolomite
20% white chert tr. brown chert

190-195 50% Buff Dolomite
50% white chert

195-200 50% dolomite buff
50% white chert
trace calcite

6/30/6 Logged in Anns office microscope

110-115 90% Buff Dolomite 10% chert
Tr. Blk Rosette

115-120 80% Buff dolomite 20% chert
Tr. Blk Mtt. chert Tr. Qtz chert (Quartzose)

Location OGU Date 6/30/6

Project / Client 185 Garage

Scale

Oxoforde

Trailer

125-130 90% Buff dolomite 10% white chert
Tr. Limonite Cement

120-125 60% Dolomite Buff 40% chert
wh. flint tr. qtz chert

130-135 60% Buff dolomite
40% white flint chert

135-140 80% Buff dolomite
20% white chert, trace
Trace qtz Angular clear

140-145 60% Buff dolomite
40% white chert, trace calcite

145-150 60% dolomite Buff
40% wh cht

150-155 50% chert, (milky white 80% chalky 20)
50% dolomite, buff tr qtz chert

155-160 60% Buff dolomite
40% chert, white milky

160-165 50% Buff dolomite
50% chert (50% milky 50% chalky)

165-170 80% Buff dolomite
20% chalky wh. chert

Casing For 185 Garage
7 Feet of 12"
31 Feet of 8"
160 Feet of 4" Certilock

Location Ditch witch Date 7/6/6

Project / Client

Geoprobe location 1

Number	Loc	Lat	Long
1	Pond	38.22467	91.15345
2	Pond	38.22463	91.15347
3	New Paint SW Corner	38.22523	91.15285
4	New Paint Driveway	38.22523	91.15284
5	New Paint culvert SE	38.22525	91.15272
6	Inside old paint	NO GPS	
7	old load Dock	38.22536	91.15225
8	"	38.22537	91.15226"
9	South/W Maint. Bldg.	38.22527	91.15196
10	old Paint shop W. side	38.22519	91.15186
11	E side old paint	38.22535	91.15154
12	N side ~~old paint~~ Machine shop	38.22544	91.15167
13	W. side of machine shop	38.22536	91.15205
14	N. side Main Bldg	38.22520	91.15219
15	W side Main Bldg	38.22503	91.15245
16	SW Ditch Gravel	38.22501	91.15276
17	Lake Pit	38.1328	91.0914.2

John S.

Location Date 7/6/6

Project / Client

Scale

B-19 38.22540
91.15249

Wells New Street
38.22570 91.15113

Ditch witch
821 E Springfield Rd

DQ
422 S. Hwy 185

Larry Stoner - ADF
1955 Mentos

LAKE
17 - 38.22473 Curt GPS
91.15389

Location OGV Date 7/24/6

Project / Client Krueger Property

Ditch Witch well. MW5, SANDY Drilling ON NEW STREET

- set up for drilling 10" bit
- line Roll-off, wind trouble
- Fix steel bailer cable

2:30 start drilling, set conductor casing - drive casing 3'

5' Brown sandy clay + silt. Trace roots, No oil sheen No odor 7/25/6 90 hours [100 gal used]

15' BR. Brown-tan Fine sz dolomite

20' Brown dolomite Trace white chert

25' Brown-dolomite 50% white chert 35% brown sandstone 10% 5% blk chert + Blue/Green dolomite

N 38.72563 Alt 1000' 996
W 91.15106

30' Brown dolomite 80% white chert 20% Trace white sandstone

35' Brown dolomite 90% white chert 10% (Brown dolomite breaks readily - weathered

Water samps taken every 5', Analyzed At USGS 10.0 hours [used 150 gallons H2O

Location OGV Date 7/26

Project / Client Krueger Prop New street MW-5 WARM - WINDY Scale

40' Brown dolomite 40%
Qtz sandstone, 20% Quartzose
frosted oolites 20%
white chert + oolitic 20%

45' 45% Fine Gr Qtz Sandstone - Tan
45% Med Gr Qtz sandstone - white
10% Br dolomite, Blue Green dolomite

* starting to lose water

~~35'~~ 38' of 8" steel casing placed to 35.5' bgs (2.5' stick up) 8" bit drilling ~~at~~ below 40' bgs

50' LAB sample Taken #06023390
Fine sub-rounded Qtz Sand white

55' Fine sub-rounded Qtz Sand

Niels Gerandson is helper - Nick

Location OGV Date July 28

Project / Client New Street Well 2006

Arrive 7 30, Niel already at 65' bgs. Soft drilling, hole was dry before drilling - No ▽ taken.

57 - 60 mud seam

60 Fine Gr Qtz sand mixed with tan clay 99% sand 1% clay

65' Fine Gr, well rounded qtz sand (white Qtz Arenite)

70' Fine Gr, well rounded Qtz sand w ~10% white chert.

75' Fine Gr, well rounded qtz sand some frosted grains, <5% white chert

Sample taken 0602391

Location OGV Date Aug 1, 2006

Project / Client New Street Well

Sunny - V. Hot 100+ Scale

Arrive 10 Am

Drill between 115 - 120

Drill crew starting early - quits ~ Noon because of xs heat

102 - 111 Niel suggests hard mud drawer rock - void?

80' Fine & med Gr Qtz Sand >50% med Gr

85' Sand Δ+ to Quartzite SS (hard) milky white - oolitic 75%, 25% white chert porcellanic

90' Quartzose Sandstone, clear Qtz, fine Gr in milky white matrix white chert 25%

95' Qtz Sandstone 25% white chert 75% trace dolomite

100 Qtz Sandstone 25% quartzose sand 50% tan silk dolomite - white 25%

Increase in clay ~ void?

105 multi colored chert, mostly brown - buff trace green & gray, 50% ?

dolomite buff 25%

limonite nodules Red - brown 1%

lt. green weathered SS or Cong. angular, trace dolomite

Location OGV Date 8/16 Cont

Project / Client New street well

110 white chert 70% , dolomitic chert
dolomite 30%
Trace green dolomite , trace limonite

115 white chert 50% Tr blk chert
Buff dolomite 50%

120 Buff dolomite 80% tr limonite
white chert 20% tr blk chert

120
125 Drilling encounters Red clay - wed
Brown dolomite 80%
white chert 20%
Sample 0602392 - Not TAKEN
Too much Sediment in water

Location OGV Date Aug 2, 2006

Project / Client New street well

Approx EL - MAP 958 Hot 110+ Scale

Arrive 10:30 AM - well drilling to 135
125-
130 Buff dolomite 80 - 90%
white chert 10 - 20% Tr blk chert
135 Buff dolomite 95 - 99%
white chert < 5%
140 Buff dolomite 85%
white chert 15% trace gray chert
142 water Sample TAKEN
0602932 FIRST WATER
(Cold water)
Drill water is hot
145 Buff dolomite 90 ~~50~~% } Fine
white chert 10 ~~50~~% } cuttings
Spindle stuck - produced fines
Later cuttings show 90 dolomite
10 chert

Location OGV Date Aug 3, 2004

Project / Client New Street well

Arrive 10 AM Drill advancing from 145
- Well had 2' water USGS Sample taken.

150' Buff dolomite, some grains vuggy. 80%
white chert, ~~some~~ white oolitic inclusions 20%

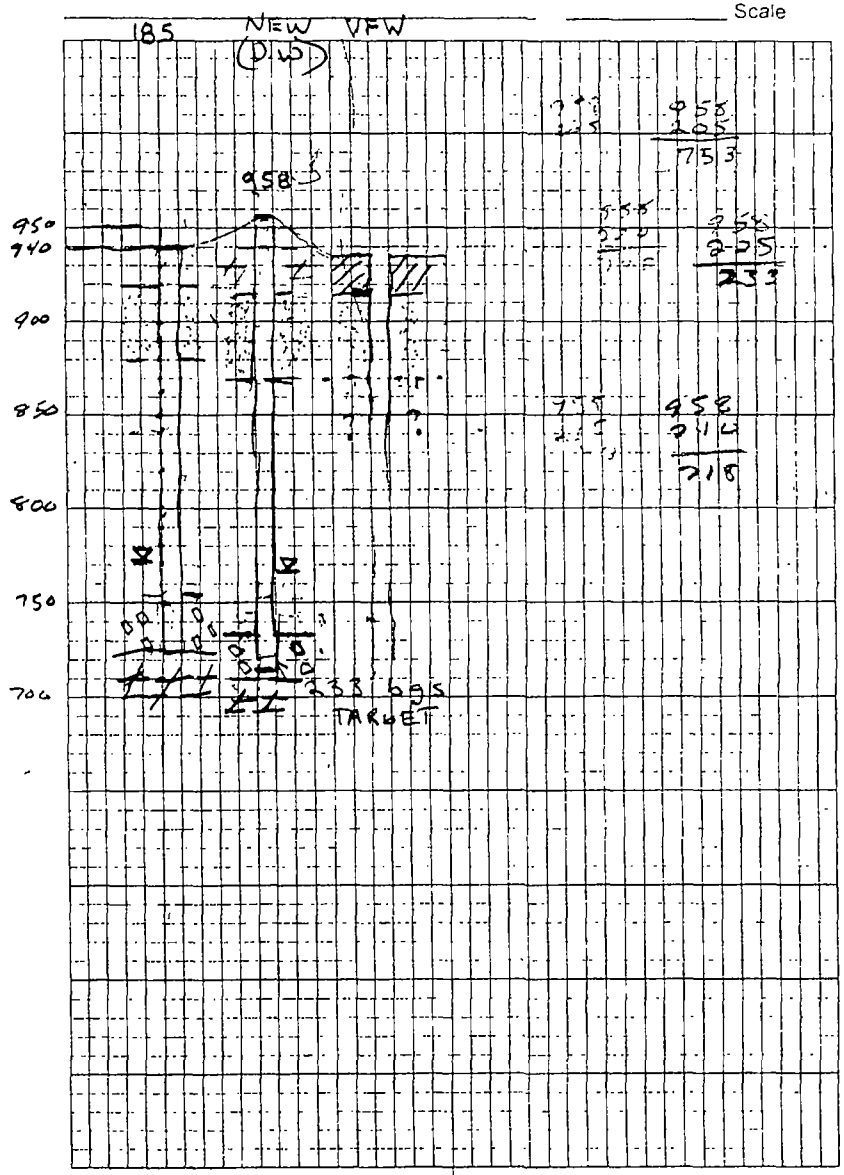
12 - 2:30 Fix bolt on mast

155 sample water 0602400

Location 4 Date

Project / Client

Scale



Location OGU Date Aug 4 2006

Project / Client New Street

Water at 153' this AM
with well down to 155'

Doug Magat - USGS, called this A.M.,
Said samples H2O have all been clean.

155' Buff dolomite 80%
white chert 20% some oolitic
TR. Frosted ve round sand/oolites in clusters.

160' Buff dolomite 80%
white chert 20% [Tr sandstone (carry down)]
TR. Mafic Frag? BIK, Rhyolite
Limonite?

165' Buff dolomite 70%
white chert 30%
TR. mafic Frag BIK limonite OR Rhyolite

[Drilling is getting harder
may change bit from 8" to 6"]

Location OGU Date Aug 4

Project / Client New Street

Scale

170 Buff dolomite 40%
white chert 40%
oolite 5-10%

Purge well - No more than 1' recov. in 20 min

*0602430 H2O Sample

Location OGV Date Aug 7, 2006

Project / Client New Street

arrive 10:30 drill at 185, hole had 3' water to 167 bgs this AM - Niel Hawk sampling.

175 Color change, Buff → White
100% dolomite No Chert, Some red clay coming in from above

180 Buff + white dolomite 100%

185 Buff & white dolomite 70%
Gray + white chert some banded 30%

190 Buff dolomite 50%
white/Gray Chert 50%
TR. Red-Brown Fe cemented sandstone (carry down ?)

195 Buff dolomite 60%
Gray-White Chert, w/ purple pink chert 40%

spudding Cam on Rig breaks may be down 1 week.
No water samp.

Location OGV Date 8/14/06

Project / Client Patch - Witch

Scale

Geoprobe work
Cindy
Hugh Morrell
Ken Hannon
Evan Bryant
} esp Geoprobe

- sample 4 based PID in run (1)
Drill hole 1, refusal @ 15'

#2 Hit some dark greasy substance at 81 bgs, T/D 17.5'
Lunch 11:80 to 30 PM

#17 start @ 13:25 refusal @ 45.5'

#1 06030223 1335 12'

analysis for metals, TPH + VOC

BH #2 06030224 1400 16'

BH #17 06030225 1420 15'

1500 move to DW

start #BH3 Refusal 10.5' 1510

06030226 8.5'
06030227 9.5'

Location OGU Date 8/14/6

Project / Client Ditch Witch Cont

BH4 TD at 11.5 15:30

Flagged #3 @ 15:30

Start #BH6 at 15:45

Rain at 16:15 Thundershower

Start #BH16 at 16:20 Refusal 10'
Filled BH16 1645

Start #BH15 1645
Fill BH15 1715

Start BH#5 17:15, Refusal 8'
Fill BH#5 17:25
Full Suite of analytes on 5 + 15

Start BH#7 @ 17:45 Refusal ~9'
Fill BH#7 18:10

Location OGU Date 8/15/6

Project / Client Ditch witch

Scale

Start BH13 @ 7:45
Fill BH13 0805 Refusal 12'

Start BH8 08:10 Refusal 10.5
Fill BH8 0815

Start BH14 0825 Refusal 11.0
Fill BH14 0910
Start BH9 0915 Refusal 10.0
Fill BH9 0920

Start BH10 @ 9:30 Refusal 9.0
Fill BH10 10:00

Start BH11 10:00 Refusal 12.0
Fill BH11 10:20

Start BH12 10:25 Refusal @ 19.5
Fill BH12 11:00

Location _____ Date _____

Project / Client _____

water level as of 8/29/~~03~~ 06
184.65,
Neils shaft is Bent,
Sent to OK

Location Ditch Witch Date 8/15/6

Project / Client Drilling Sequence

Scale

1, 2, 3, 4, 6, 16

15, 5, 7, 13, 8, 14

9, 10, 11, 12

Location OGV Date 9/1/6

Project / Client New street

Arrive ~ 10:30 Give VOAs to Neil.

200' Very small buff dolomite grains
<5% white chert (Running Lime?)

205 Fine Buff dolomite & white
30% chert (Running Lime)
Soft drilling, making water

210 Fine Buff dolomite Rhombs
running lime, Fines washed thru
sieve, reclaimed in bucket
5% white chert

TRIP BLANK # 06061716 10:30

215 Fine Buff dolomite grains
10%+ white chert or calcite grains
running lime, TRACE - 1%
limonite, dark Rd BC grains

220 Soft, yellow-Lt. Gray clay (soft drill)
Fine: med gz dolomite, med gz wh. chert
Sample 06023913 (R-Lime)
3:08
<5% chert

Location OGV Date 9/5/6

Project / Client New Street

Scale

Arrive 9:15 ~ 180'

@ 185 Gauge — 162' 9 1/2

225 - Drill water turns white
Pure fine white dolomite
Rhombs — True Running Lime
No Chert water producing

230 white dolomite Rhombs,
Pure Running Lime
No Chert — more Water Production

235 white dolomite Rhombs
Running Lime TR. chert

240 white dolomite Running lime
30% white chert

Sample 06023941 14:00

9/6/6 Neil calls me at work
to Report @ New street
189' 1565

Sample 06061716 = TRIP BLANK

Location _____ Date 9/11/6

Project / Client _____

New steel ▽ 188.16 TOC - PVC
189.22 TOC Steel

Sample 0602396 2:10
18gpm 18.4°C, 386 µs, 7.84pH
185 Garage ▽ 162.90 TOC steel
Sample 0602395
3gpm 15.8C, 517µs/cm, 7.70pH, 11:21am
192 Gallon Purge
Paul + John S. - USGS on 185 Gar to Sump

Purge water taken to Sanitary sewer.

Pumping wells automatic
10, 3, 5, 7

18th - COS 3 pumping 350gpm

Location Wensel Creek Date 9/14

Project / Client _____ Scale

Future Geoprobe Locations
Randy, Tom Harmony, myself

Loc #1 S. side culvert, ~~Ramsey~~ 2nd st.
#1 38.2050 91.16954

#2 38.20534 91.16954
Creek ~~bed~~ between ~~Ramsey~~ 2nd st. & 1st Bridge

#3 38.20567 91.16953
Between 1st & 2nd Bridge

#4 38.20689 91.16956
Between ~~the~~ culverts, between Blair & Ramsey ~~Bldg~~. St.

#5 38.20773 91.16964
Bend in Wensel Creek, downstream of Blair St.

#6 38.20833 91.17114
Downstream end culvert at City Park

Location OGV Date 9/22/6

Project / Client Friday ~~10~~ 9/22/6

Running Elevation Survey
Karl
MR CARTER (Bruce)
me

Set up Base at COS Airport
West side. Bruce to guard this.
Elevation 922.5 — Airport Bench
(NAD 83)

MyGPS - says 955 - 33' error
10 meter

Check 1 — Check 3
281.17 — 243.14
275.74 — 237.75
5.43 error — 5.41

~~237.742~~

Location OGV Date 9/22/6

Project / Client

Scale

VFW WELL TO TOP of casing
CAP 9 satellites 10:40
H 2mm 1 2
EL 248.262 m 248.239
N. 265381.727 N 265381.735
E. 193077.237 E 193077.250
Noon 12:00 248.214 248.243
265381.735 N 265381.724
193077.227 E 193077.226
DITCH WITCH WELL (DW)
measured to GOD NAIL
78 cm from Nail to TOC metal
EL 252.4178 Nail 252.480
N. 265626.397 265626.395
E 193029.458 193029.456

Nail on E. side well
12:07
EL. 252.479 252.485
N. 265626.387 265626.380
E. 193029.464 193029.457

Location OGV Date 9/22/6

Project / Client

185 GARAGE 11:05 (185 G)

Measure to Nail on N. Side wall.

	1	2
EL	249.970	249.970
N	265398.968	265398.970
E	192732.635	192732.636

Nail to Casing TOC Metal 65 cm

12:11

EL	249.967	249.965
N.	265398.975	265398.974
E.	192732.636	192732.632

Location Date 9/22/6

Project / Client

Scale

OAK GROVE WELL # OGV1

Measuring to Fire hydrant because water flowing causing interf.

Top flange, top of 13 1/4 S. side hydrant.

EL	254.558 m	254.562 m
N.	265614.410	265614.411
E.	193206.615	193206.613

12:20

EL	254.563	254.551
N.	265614.404	265614.415
E.	193206.609	193206.613

254.560 = [illegible]

Location OGU Date 7/22/6

Project / Client

LAND FILL well (LF) 11:25
67 cm from Concrete base to
TOC metal

	1	2
EL	223.793m	223.818
N.	266584.142	266584.124
E.	194375.263	194375.254

real error in Northing + EL.
Elevation measured to X on
Concrete well Pad

12:31

EL	223.812	223.855
N.	266584.110	266584.090
E.	194375.236	194375.235

Location OGU Date 7/22/6

Project / Client 11:40

Fly J Scale

Flying J El measured to
X on Concrete Apron well Pad
on S. side of well to be
near of trees

	1	2
EL	249.364	249.365
N.	265746.048	265746.037
E.	192183.876	192183.872

59cm from Pad to TOC

12:46

EL	249.360	249.355
N.	265746.032	265746.037
E.	192183.858	192183.855

Location _____ Date _____

Project / Client _____

NAME	Ground EL. GR.	Stick UP (ft)	Stick UP (cm)	EL TOC.	Ground Survey el.
Fly J	942.70	1.94	59	944.64	
Landfill	858.90	2.20	67	861.10	
OGV 1	959.80 Hydrant	2.90+294	nm	965.64	959.78
185 G	944.70	2.13	65	946.83	
D.W.	952.90	2.56	78	955.46	953.00
VFW	939.10	0	0	939.10	938.94

939.10
938 94
.16

965.68 TOC OGV 1

VFW Top of plate

Location _____ Date _____

Project / Client _____

_____ Scale

Location _____ Date _____

Project / Client _____

Sta.	+	HI	−	ELEV
	5.89	9.6569		(959.80)
			2.95	962.74 Floor
	3.57			
		966.31	6.55	(959.76)
962.74		965.68	TOC OGU	

Location _____ Date _____

Project / Client _____

Scale _____

Bolt in hydrant OGU City Hall

Floor OGU City Hall

Hydrant – Above

.00 .04

OGU stick up 2.9'

from floor to TOC

FEASIBILITY STUDY

OPERABLE UNIT 1

OAK GROVE VILLAGE WELL SUPERFUND SITE

FRANKLIN COUNTY, MISSOURI

June 30, 2007

PREPARED BY
Missouri Department of Natural Resources
Jefferson City, Missouri

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Appendix

A Development of Response Action Costs

Abbreviations and Acronyms

ARAR	Applicable or Relevant and Appropriate Requirement
ASA	Additional Site Assessment
Benham	The Benham Companies, LLC
Bgs	below ground surface
CERCLA	Comprehensive Environmental Response Compensation & Liability Act
CFR	Code of Federal Regulations
COC	Contaminants of Concern
COPC	Contaminants of Potential Concern
COS	City of Sullivan (refers to municipal wells)
DGLS	Department of Geology and Land Survey
DHSS	Missouri Department of Health and Senior Services
DNAPL	Dense Non-Aqueous Phase Liquid
DNR	Missouri Department of Natural Resources
EPA	U.S. Environmental Protection Agency
ESI	Expanded Site Investigation
FR	Federal Register
FS	Feasibility Study
Ft	feet
GAC	Granular-Activated Carbon
HHRA	Human Health Risk Assessment
HRS	Hazard Ranking System
HWP	Hazardous Waste Program
Jacobs	Jacobs Engineering Group
LNAPL	Light Non-Aqueous Phase Liquids
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
MRL	Minimal Risk Level
NCP	National Oil and Hazardous Waste Substances Pollution Contingency
Plan	National Contingency Plan
NOAEL	No Observed Adverse Effect Level
NPL	National Priority List
NRHP	National Register of Historic Places
O&M	Operation and Maintenance
OGV	Oak Grove Village
OSWER	Office of Solid Waste and Emergency Response
PA	Preliminary Assessment
PCE	Perchloroethylene or Tetrachloroethene
PHA	Public Health Assessment
PQL	Practical Quantitation Limit
PPB	parts per billion
PRG	Preliminary Remediation Goal
PRP	Potentially Responsible Party
RAO	Remedial Action Objectives

Abbreviations and Acronyms

RCRA	Resource Conservation and Recovery Act
RFP	Request for Proposal
RG	Remediation Goal
RI	Remedial Investigation
ROD	Record of Decision
RWD	Rural Water District
SALs	Soil Action Levels
SDWA	Safe Drinking Water Act
SLERA	Screening Level Ecological Risk Assessment
SI	Site Investigation
TBC	To Be Considered
TCE	Trichloroethene
TSS	Total Suspended Solids
µg/l	micrograms per liter
VOC	Volatile Organic Compounds

Executive Summary

Under the authority of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), this Feasibility Study (FS) develops remediation alternatives for contamination in groundwater for the Oak Grove Village Well Superfund Site, Operable Unit 1 (OU1). The goal of remediation is to eliminate, reduce or control risks to human health and the environment. The Missouri Department of Natural Resources (DNR) prepared this FS.

Oak Grove Village (OGV) is a small, rural community (population 382) located just off Interstate 44 in eastern Missouri (Franklin County). OGV is adjacent to and northeast of Sullivan, Missouri and is approximately 63 miles southwest of downtown St. Louis.

OU1 consists of groundwater and associated media in OGV, Sullivan, and the unincorporated areas that were contaminated with trichloroethylene (TCE) and other volatile organic chemicals. The Missouri Department of Health and Senior Services (DHSS) found potentially unacceptable human health risk to future users of groundwater in OU1 for municipal, residential, and commercial/industrial purposes.

Currently, the only known potential source area left within the study area for OU1, with previous releases of TCE at high enough concentrations to contaminate area wells is the TRW/Ramsey facility (Post Phase II Remedial Investigation Report (DNR, 2007)). TRW/Ramsey was an automobile piston manufacturing plant that operated from 1950 to 1983 in the city of Sullivan, and used TCE as an industrial solvent. Groundwater remediation for this inactive facility is currently taking place under the RCRA Corrective Action Program.

The FS analyzed technologies and their associated process options for technical feasibility for OU1. The process options remaining after the initial screening were then screened for effectiveness, implementability, and cost. The process options that remained after this screening were used to develop Response Actions, which were then combined to create five Remedial Action Alternatives (Alternatives) for OU1. This evaluation resulted in the following final list of five Remedial Action Alternatives.

Remedial Action Alternative I, No Action alternative, consists of taking no action towards the contamination in OU1. However, five-year reviews for OU1 would need to be conducted since contamination in groundwater would go untreated.

Total Cost: **$300,000**
Present Worth Cost: **$107,800**

Conclusion: Alternative I would not provide overall protection of human health and the environment since no action would be taken.

Remedial Action Alternative II, Treatment at Private Wellheads and Groundwater Monitoring alternative, consists of the following actions:

- Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Treatment at the wellhead at those residential wells that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Treatment at the wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial / industrial wells in OU1 to ensure the safety of the water source.
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

Total Cost: **$1,692,703**
Present Worth Cost: **$707,149**

Conclusion: Alternative II provides adequate protection for current and future groundwater receptors. Remediation of contamination in groundwater for this alternative would be through the operation and use of residential and commercial/industrial wells with wellhead treatment systems.

Remedial Action Alternative III, Alternate Water Supply/ Treatment at Private Wellheads and Groundwater Monitoring alternative, consists of the following actions:

- Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Treatment using an alternate water supply (city water) or treatment at the wellhead at those residential wells that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Treatment using an alternate water supply (city water) or treatment at the wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

Total Costs: **$2,190,916**
Present Worth Cost: **$1,082,225**

Conclusion: Alternative III provides a higher level of protection than Alternative II since the alternate water supply would provide a long-term effective remedy that does not need the maintenance that the wellhead treatment systems at individual wells would require. It also allows residential and commercial/industrial water users to tie into the alternate supply if their wells begin to exceed the RG for groundwater. Remediation of contamination in groundwater

for this alternative would be through the operation and use of the municipal wells, and residential and commercial/industrial wells with wellhead treatment systems.

Remedial Action Alternative IV, Treatment at Private Wellheads, Groundwater Monitoring, and Operation/Monitoring of Air Stripper alternative, is the same as Alternative II except for the addition of the following:

- Ongoing operation of the OGV02 air stripper by OGV and monitoring of the air stripper to evaluate the remediation of TCE in groundwater over time.

Total Costs: **$1,793,713**
Present Worth Cost: **$748,930**

Conclusion: Alternative IV provides adequate protection for current and future groundwater receptors. Remediation of contamination in drinking water for this alternative would be through the operation and use of residential and commercial / industrial wells with wellhead treatment systems. The ongoing operation and monitoring of the air stripper on OGV02 would measure the effectiveness of the treatment system on the remediation of the groundwater.

Remedial Action Alternative V, Alternate Water Supply/Treatment at Private Wellheads, Groundwater Monitoring, and Operation/Monitoring of Air Stripper alternative, is the same as Alternative III except for the addition of the following:

- Ongoing operation of the OGV02 air stripper by OGV and monitoring of the air stripper to evaluate the remediation of TCE in groundwater over time.

Total Cost: **$2,291,926**
Present Worth Cost: **$1,124,006**

Conclusion: Alternative V would provide a higher level of protection than Alternative IV since the alternate water supply (city water) would provide a long-term effective remedy that does not need the maintenance that the wellhead treatment systems at individual wells would require. It also allows residential and commercial/industrial water users to tie into the alternate water supply (city water) if their wells begin to exceed the RG for groundwater. Unlike Alternative III, the ongoing operation and monitoring of the air stripper on OGV02 would provide for measuring the effectiveness of the treatment system on the remediation of the groundwater.

The Proposed Plan would consider the findings and conclusions provided in this FS Report, and the final selection of a remedial action would occur in the Record of Decision.

1.0 Introduction

This report is a study to determine the feasibility of various options for remediating the contamination in groundwater for Operable Unit 1 (OU1) of the Oak Grove Village (OGV) Well site. OU1 includes the contaminant plumes impacting groundwater west and south of the OGV wells, including parts of OGV, Sullivan, and the associated unincorporated areas (Figure 1). Figure 1 illustrates the location of OU1 at the OGV Well site. This report was prepared by the Hazardous Waste Program (HWP) of the Missouri Department of Natural Resources (DNR) pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA).

The listing of the OGV Well Site on the National Priorities List (NPL) was final on September 5, 2002. The NPL was established under CERCLA (commonly called Superfund) by a mandate from Congress. The NPL is the list of national priority sites among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories. The NPL is intended primarily to guide in determining which sites warrant further investigation (EPA, 2004).

Subsequent to NPL listing, additional investigations for OU1 were performed during the Remedial Investigation (RI) and Post RI. Information on the nature and extent of contamination for OU1 is reported in the Phase I RI Report (Jacobs, 2002), the Phase II RI Report (Benham, 2005), and the Post-Phase II RI Report (DNR, 2007). Information from the RI and Post-RI Reports on the nature and extent of contamination, the potential sources of contamination, and the media impacted by the contamination, was used in this report as the basis for the development of remediation options.

This section of the report discusses the purpose of the Feasibility Study (FS) process and provides background information on OU1. Section 2.0 discusses the development of Applicable or Relevant and Appropriate Requirements (ARARs) for OU1. Section 3.0 identifies and screens treatment technologies. Section 4.0 discusses the development of remedial action alternatives. Section 5.0 presents a detailed analysis of remedial action alternatives. Section 6.0 provides a comparison of alternatives to one another. Section 7.0 summarizes the conclusions of this report. Section 8.0 provides a list of references.

1.1 Purpose of Feasibility Study

The purpose of this FS Report is to provide information that can be used to reduce and/or eliminate the risk to public health and the environment posed by OU1. The objectives of the FS are:

1. To identify alternative remedies for OU1 (including the "no action" alternative required under CERCLA);
2. To determine the relative costs and effectiveness of the remedial action alternatives;

3. To screen and evaluate remedial action alternatives; and
4. To develop a preliminary list of federal and state ARARs that will be finalized in the Superfund Record of Decision (ROD).

In accordance with CERCLA, this FS does not provide a final selection of a remedial alternative for OU1. Once the DNR and the U.S. Environmental Protection Agency (EPA) have received the public comments on the Proposed Plan, which is the official document that identifies the preferred remedial action alternative, the agencies will select the final remedy.

This FS Report was written using the following technical reports and guidance documents:

- Phase I Remedial Investigation Summary Report, Oak Grove Village Well Site, Jacobs, March 2002;
- Phase II Remedial Investigation Report, Oak Grove Village Well Site, Oak Grove Village, Missouri, The Benham Companies, LLC, August 12, 2005;
- Post Phase II Remedial Investigation Report, Oak Grove Village Well Site, Operable Unit 1, Missouri, June 29, 2007;
- Screening Level Ecological Risk Assessment, Oak Grove Village Well Site, and LaJolla Spring Cave Complex, EPA Region 7, December 2004;
- Baseline Human Health Risk Assessment for the Oak Grove Village Well Site, Missouri Department of Health and Senior Services, June 2005;
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA);
- Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA, EPA/540/G-89/004, Interim Final, October 1988;
- Guidance on Remedial Actions for Contaminated Ground Water at Superfund Sites, EPA/540/G-88/003 December 1988; and
- CERCLA Compliance with Other Laws Manual, OSWER Directive 9234.1-01.

1.2 Background Information

OGV is a small rural community, with a population of 382 (2000 Census), located in Franklin County, Missouri (Figure 1). OGV is located approximately 70 miles south of St. Louis in eastern Missouri, just off Interstate 44 (I-44). OGV is adjacent to and northeast of the city of Sullivan and both communities are south of the city of Stanton along I-44. The land use in OGV is residential, commercial, and light industrial. The commercial and light industrial development is located mostly along I-44 on the outer roads and near the new Sullivan Airport. Land uses outside OGV are farming and tourism. Farming consists of pastures and some row crops. Meramec Caverns, Meramec State Park, and the Meramec River are a few of the tourist attractions in the area.

1.2.1 Site Location and Description

The Oak Grove Village Well Site (OGV site) is defined as regional contaminant plumes in groundwater that have impacted the OGV wells and surrounding area. Since the contamination is regional, the site includes site-related contamination in groundwater, surface water and cave air that is impacting area wells and springs. The site is centered on the OGV wells; however, it includes Sullivan to the south, Stanton to the north, and the associated unincorporated areas.

The OGV municipal well #1 well (OGV01) was drilled in 1964 and is located in the city hall building. For a number of years OGV01 was the only source of drinking water for the village residents. Because the trichloroethylene (TCE) contamination in OGV01 exceeded the Maximum Contaminant Level (MCL), OGV took OGV01 out of service and purchased water from Sullivan until the new municipal well (OGV02) with an air stripper was deemed operational in April 2005.

OGV01 and OGV02 are located in the Southeast Quarter of Section 4, Township 40 North, Range 2 West, in Franklin County, Missouri. The geographical coordinates for OGV01 are at 38° 13' 32.4" North latitude and 91° 08' 54.6" West longitude and OGV02 is at 38° 13' 34.0" North latitude and 91° 08' 57.0" West longitude (Figure 1).

After the Phase II RI, the DNR and EPA determined that the site needed to be addressed as two separate operable units (OUs). The basis of the investigation and the rationalization for dividing the site into two operable units (OUs) included the chemical characteristics of the plumes, waste-disposal practices, extent and magnitude of contamination, and complexities in contaminant distribution and hydrogeologic properties. OU1 consists of the OGV wells, the Highway AF wells, and the area west and south of the OGV wells. Operable Unit 2 (OU2) consists of the closed Sullivan Landfill and/or other unknown potential source areas, wells and springs around the closed Sullivan Landfill, the Meramec River, and the La Jolla Spring cave complex (Table 1-1, Figure 1).

1.2.2 Previous Investigations and Site History

This section summarizes the history of OGV01 and the results of previous investigations beginning with the discovery of TCE in 1986 (Table 1-2).

Following the initial detection of 6.0 µg/l of TCE in groundwater from OGV01, OGV01 had multiple additional detections ranging from 1.5 (November 15, 2000) to 99.6 µg/l

(April 29, 2004). The MCL for TCE is 5.0 µg/l. The DNR and EPA use MCLs to determine whether or not a public water supply district can distribute water to its consumers.

In December 1990, the DNR issued OGV a Notice of Violation (NOV) for drinking water violations. OGV took OGV01 out of service in July 1991 and began buying water from Sullivan. In September 1992, OGV reopened OGV01. The DNR resumed sampling OGV01; however, TCE in OGV01 remained above the MCL. In January 1994, the DNR issued a second NOV. In response to the 1994 notice, OGV took OGV01 out of operation and started purchasing water from Sullivan.

In June 1987, the DNR completed a Preliminary Assessment (PA) of the site. The PA recommended sampling additional drinking water supply wells in the vicinity and conducting a hydrogeologic assessment to identify potential contamination sources. The PA report identified the following potential TCE sources: the closed Sullivan Landfill located northeast of OGV, the TRW Automotive Product Inc., Ramsey Division Facility, and two properties at the current Sullivan Wal-Mart location (the Sohn property and the Blanton property).

A hydrogeologic assessment, completed in December 1987 by the DNR's Division of Geology and Land Survey (DGLS) as part of the DNR's Site Investigation (SI), indicated the recharge area for OGV01 was to the southwest, toward the center of Sullivan. However, major faults, a field of operating municipal wells and karst topography made it difficult to determine local groundwater flow direction.

The DNR's SI was completed in October 1988. The SI revealed TCE was in OGV01, at selected points in the OGV distribution system, in Sullivan municipal well #02 (COS02), and the Voss Well (a private well east of the closed Sullivan Landfill) (Figure 1). Analysis of the SI sampling did not attribute the contamination to specific source locations or any specific Potential Responsible Party (PRP).

The EPA completed an Expanded Site Investigation (ESI) in September 1994. The purposes of the ESI were to identify possible sources of TCE contamination, to define the horizontal and vertical extent of the contamination sources, and to collect samples from private wells to determine if they had been impacted. Only one private well was sampled during the ESI, and TCE was not detected.

Between 1997 and 1998, an Additional Site Assessment (ASA) was conducted by the DNR under Superfund. One of the ASA's objectives was to initiate a more comprehensive investigation of possible TCE contamination sources. A possible connection between OGV01 and the apparent widespread TCE contamination in Sullivan's groundwater was examined. Because of insufficient data, a conclusion could not be reached regarding contamination sources. The ASA recommended a CERCLA remedial investigation/feasibility study (RI/FS) to identify possible sources of TCE contamination, identify any PRPs, and to fully characterize the nature and extent of TCE contamination in groundwater at the site.

The RI/FS has been conducted by the DNR in a phased approach to determine the nature and extent of the contamination detected in OGV01, to identify possible sources of the contamination

in groundwater, and to identify PRPs. The Phase I RI began in October 1999. The Phase I RI evaluated existing data, collected additional data to narrow data gaps, determined the existence and location of contamination, and identified additional potential source areas. Area-wide sampling of private, commercial, and municipal wells, as well as springs and creeks detected TCE and other Volatile Organic Contaminants (VOCs) in multiple wells and one spring. The information obtained during the Phase I RI provided additional data to reduce data gaps and better define the extent of the area-wide contamination.

On September 13, 2001, during the Phase I RI, the EPA, with state concurrence, proposed the Oak Grove Village Well site for the NPL. On September 5, 2002, the NPL listing became final.

The Phase II RI began in April 2002, and it was completed in August 2006. The Phase II RI activities consisted of continued sampling of private, commercial, and municipal wells, and area springs. Additional field activities included: (1) sampling Winsel Creek and the Meramec River, (2) characterizing OGV01, (3) sampling OGV01 and OGV02, (4) installing and sampling additional groundwater monitoring wells, (5) investigating and sampling the OGV and Sullivan sanitary sewers, (6) sampling previously known potential source areas, and (7) sampling possible additional source areas.

The data collected during the Phase II RI narrowed the data gaps and better defined the location and extent of the contaminant plumes. An FS and Proposed Plan were completed based on the conclusions of the Phase II RI. The EPA and the DNR decided additional site work was needed to fill in the remaining data gaps and to adequately define the OGV site. In order to fill in the data gaps, the OGV site was divided into two OUs:

- Operable Unit 1 (OU1) consists of the OGV wells, the Highway AF wells, and the area west and south of the OGV wells.
- Operable Unit 2 (OU2) consists of the closed Sullivan Landfill and/or other unknown potential source areas, wells and springs around the closed Sullivan Landfill, the Meramec River, and the La Jolla Spring cave complex (Table 1-1, Figure 1).

Other groundwater investigations in the OGV/Sullivan area took place during the same timeframe as the investigations conducted through Superfund. The TRW/Ramsey facility and Wal-Mart performed independent investigations in certain areas of the OU1 site.

In 1989, the EPA initiated a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) for the TRW/Ramsey facility. In 1990, TRW, also under RCRA authority, initiated groundwater investigations in relationship to its former facility. Based on the findings of the RFA, the EPA entered into a RCRA 3008(h) Corrective Action Administrative Order on Consent (AOC) with TRW and the current property owners in April 1993. The AOC directed TRW to conduct an investigation and evaluate corrective measures to cleanup contaminant releases.

Between 1993 and 1998, TRW performed corrective action activities in accordance with the AOC at the TRW/Ramsey facility. TRW completed four Interim Remedial Measures, which were (1) the Drinking Water Contingency Plan, (2) the Groundwater Monitoring Plan, (3) the

Pump and Treat Plan, and (4) the Surface Impoundment Soil Plan. As part of the RFI, TRW installed a monitoring network of 41 wells. With the completion of the network, TRW samples the monitoring wells, along with nine Sullivan municipal wells and four residential wells. In June 1997, TRW completed the RCRA Facility Investigation (RFI). The RFI detected a TCE plume in groundwater beneath the facility and detected TCE in residential wells and in three Sullivan municipal wells.

In 1991 and 1992, Phase I and Phase II Environmental Site Assessments were conducted southwest of the site by the Wal-Mart company in anticipation of a property purchase. Three areas of TCE contamination were detected. These areas were designated: the Highway 185 Garage (Sohn property), the Blanton property, and a machine shop. Wal-Mart purchased all of the property within the study area, except the Sohn property. The purchased property was then covered with a Wal-Mart store building and a paved parking lot. Additional investigations were conducted on these properties during 2004 through 2006.

1.2.3 Nature and Extent of Contamination

The OGV site is defined as the regional contaminant plumes in groundwater that have impacted the OGV wells and the surrounding area. OU1 consists of the OGV wells, the Highway AF wells, and the area west and south of the OGV wells. TCE contamination has been detected in the following groundwater supplies:

- OGV01.
- OGV02.
- Residential wells.
- Commercial/Industrial wells.
- City of Sullivan municipal wells (COS).

1.2.3.1 Contaminated Media and Source Groups

Since the extent of the contaminant plumes is not limited to OGV01 exclusively, OU1 has been divided into groups in order to assess the ones that are in potential need of remediation. The groups are categorized as either "contaminated media" designated with an "M" or "potential source of contamination" designated with an "S."

<u>Former TRW Facility</u>

The former TRW Facility located in Sullivan used TCE in its degreasing operations. TCE has been found in soils and groundwater at the facility. Under the EPA's RCRA Corrective Action program, the EPA and the HWP/Permits Section have jurisdiction over the facility and have developed the remediation options for this facility. TRW is handling all of the known contaminated media/sources associated with the former TRW Ramsey Facility. Currently, the COS wells pump and extract the groundwater, with COS02 as the only acknowledged well with a remedial element. However, the Drinking Water Contingency Plan provides for an evaluation

to couple additional COS wells to the remedial action by requiring treatment of the extracted water if a well(s) should be contaminated and that contamination is attributable to the former TRW facility.

Sullivan Municipal Wells:

Sullivan operates a municipal water system to serve the water needs of the Sullivan community. The groundwater is obtained from wells located around Sullivan. Some of these wells have been impacted by TCE contamination in groundwater. The city of Sullivan wells are monitored and managed by Sullivan and by TRW in an ongoing remediation/monitoring program conducted in accordance with the RCRA Final Remedy Decision (DNR, 2002). However, TRW has denied responsibility for the contamination in two COS wells (COS09 and COS10), therefore, these wells have been included in OU1.

The contaminated media and sources that are included in this FS report are the same as the Phase II FS designations and are grouped as follow:

Contaminated Media (M):

Group M1 – OGV01
OGV01 – contamination in groundwater.

Group M2 – Private Wells
Residential wells – contamination in groundwater.

Group M3 – Commercial/Industrial Wells
Commercial/Industrial wells – contamination in groundwater.

Group M4 – Cave Air
La Jolla Spring Cave – contamination in groundwater and air is not carried through for further analysis of remedial action alternatives in the FS due to its location in OU2.

Contaminated Media (M) with Treatment:

Group M5 – OGV02
OGV02 – contamination in groundwater is currently being treated to meet drinking water standards at the wellhead using an air stripper treatment system. An air stripper was placed on OGV02 by OGV and it began operation on April 22, 2005. Monitoring of Group M5 - OGV02 is carried through in the FS to ensure the air stripper continues to provide a clean source of water for the residents of OGV, while actively remediating the groundwater plume.

1.2.3.2 Contaminants of Concern

The DNR requested that the Missouri Department of Health and Senior Services (DHSS) prepare a Human Health Risk Assessment (HHRA) for the site. The HHRA entitled "Baseline Human

Health Risk Assessment for the Oak Grove Village Well Site, Oak Grove Village, Franklin County, Missouri" and dated June 2005, listed the contaminants of potential concern (COPCs) and contaminants of concern (COCs) for contamination in groundwater at the OGV Well site.

The COPCs and COCs were developed for use in the human health risk assessment based on data gathered during the Phase I and Phase II RIs. COPCs are those contaminants that have been detected in analytical results at the site and are evaluated for risk. COCs are those contaminants from the list of COPCs that are determined to pose a significant risk at the site. Although the COPCs do not have a significant risk associated with them at the site, they have proven useful as tracers to help identify the sources of contamination.

The COPCs for groundwater were developed for the risk assessment based on detectable levels of VOCs found in site wells, including OGV01 and OGV02, the COS wells, and residential and commercial/industrial wells. The groundwater list contains fifteen VOCs, such as solvents like TCE, tetrachloroethylene (PCE), degradation products, freons, pesticides, and petroleum additives. The list of COPCs is found on Table 1-2.

After completing the human health risk assessment calculations, the COPC list for groundwater was reduced. The calculations determined that a smaller group of COCs actually pose unacceptable human health or ecological risks at the site. This smaller group acts as drivers, forcing the need for a remedial action to reduce site risks. These contaminants individually contribute to an increased cancer risk greater than 1 in 10,000 or a non-cancer hazard quotient of greater than 1. The DHSS modified the list of COCs based on additional information obtained after the Phase II work and the division of the site into two OUs. The modified COC list for groundwater included only TCE (highlighted on Table 1-2).

Further discussion on the conclusions of the HHRA can be found in Section 1.2.5 of this report.

1.2.4 Contaminant Fate and Transport of TCE

TCE is the most prevalent and widespread contaminant in groundwater and is the primary contributor to risk in OU1. TCE was detected in the groundwater in shallow and deep wells. TCE is a non-flammable, clear, colorless liquid at room temperature that is used mainly as a degreasing solvent in metalworking industries. TCE has a moderate solubility in water (1.1 g/L) and a vapor pressure of 77 mm Hg. The dominant fate of TCE released into surface water is volatilization to the air. When TCE is released to surface water, bio-concentration and biodegradation are thought to be insignificant. However, due to its moderate solubility, TCE can remain for longer periods of time in soil and groundwater where biodegradation is thought to be significantly slower than in surface water.

1.2.5 Baseline Human Health Risk Assessment

In June 2005, upon request from the DNR, the Missouri DHSS issued a document entitled "Baseline Human Health Risk Assessment (HHRA) for the Oak Grove Village Well Site,

Oak Grove Village, Franklin County, Missouri." In the document, the potential impacts to human health from TCE and other VOC contamination in groundwater were evaluated.

The following is a summary of the method described in the HHRA used by the DHSS to estimate risk. Greater detail related to the risk assessment may be obtained by reviewing the HHRA document.

1.2.5.1 Groundwater

Data, from groundwater samples collected from site-related residential, commercial / industrial, and municipal wells between January 2000 and May 2004 (primarily from the Phase I and II Remedial Investigations), was used to evaluate the groundwater risk. The wells were divided into "plumes" based on geographical location and referred to in the HHRA as the Highway AF Plume and the TRW Plume. In addition to these two plumes relevant to OU1, the Sullivan municipal wells (COS09 and COS10) were evaluated separately making a total of three different areas in which risk was evaluated.

Detectable concentrations from the entire well data set were used to determine a list of COPCs. A set of exposure point concentrations for each COPC was determined for COS09, COS10, and each plume. The exposure point concentration was established as the average concentration from the well in each plume with the highest concentration for those particular COPCs.

Risks for potential future use of impacted groundwater were then evaluated for the Residential and Commercial/Industrial Worker scenarios using standard pathways and intake rates.

1.2.5.2 Summary of Groundwater Risk

For both scenarios (the future residential and future industrial/commercial), the HHRA found that the potential existed for unacceptable carcinogenic risk using groundwater affected by the Highway AF and TRW Plumes. Also, for both scenarios, the potential exists for adverse non-carcinogenic health effects in the TRW Plume. For the Highway AF Plume, the potential for adverse non-carcinogenic effects existed for only the future residential scenario.

COS09 and COS10 were within the EPA recommended carcinogenic target risk range and non-carcinogenic health effects are not expected to occur for future residential or commercial/ industrial scenarios. Table 1-3 summarizes the risks calculated for groundwater in the HHRA. The conclusions of the HHRA have been incorporated into the Post-Phase II FS document for OU1.

1.2.6 Screening Level Ecological Risk Assessment

The EPA, Region VII issued a final document entitled "Screening Level Ecological Risk Assessment (SLERA), Oak Grove Village Well Site, and LaJolla Spring Cave Complex" dated February 2004. In this document, the potential impacts to ecological receptors exposed to TCE

were evaluated. The only ecological risk identified for the site was a potential toxicological risk to Gray Bats and Eastern Pipistrelle Bats in the LaJolla Spring Cave Complex. Since the LaJolla Spring Cave Complex is located in OU2, not OU1, the discussion of the SLERA for OU1 is hereby complete and will not be carried forward in the Post-Phase II FS document for OU1. The SLERA document is part of the Phase II RI and can be found in the Phase II RI report.

2.0 Applicable or Relevant and Appropriate Requirements (ARARs)

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) of 1990 and the Superfund Amendments and Reauthorization Act (SARA) of 1986 require that ARAR standards or criteria must be considered when developing remedial actions as part of the RI/FS process. Enforcement agencies must give primary consideration to the selection of those response actions that are effective in preventing or minimizing the release of hazardous substances so that they do not migrate and cause substantial danger to present or future public health, welfare, or the environment. As a general rule, this can be accomplished by pursuing remedies that attain or exceed the requirements of applicable or relevant and appropriate federal and state public health or environmental laws.

The NCP at 40 CFR 300.430(f)(1)(ii)(B) states that on-site remedial actions conducted under CERCLA must attain (or have obtained a waiver) ARARs under federal environmental or more stringent state environmental or facility siting laws that are identified at the time of the Record of Decision's (ROD) signature. The grounds for waivers, listed in Section 121(d)(4)(A) - (F) of CERCLA, include: 1) interim measures, 2) equivalent standard of performance, 3) technical impracticability, 4) greater risk to health and the environment, 5) inconsistent application of a state standard, and 6) fund balancing waiver.

The following sections discuss the federal and state of Missouri chemical-specific, action-specific and location-specific ARARs/To Be Considered (TBCs) for the remediation of OU1.

2.1 Chemical-Specific ARARs/TBCs

Chemical-specific ARARs are usually health- or risk-based numerical values or methodologies, which when applied to site-specific conditions result in the establishment of numerical values. These values set the acceptable amount or concentration of a chemical that may be found in, or discharged to, the ambient environment. If a chemical has more than one such requirement that is ARAR, the most stringent generally should be applied. Table 2-1 shows the chemical-specific ARARs that have been preliminarily screened for OU1 (EPA, CERCLA Compliance With Other Laws Manual, 1988a).

2.2 Location-Specific ARARs/TBCs

A site's location is a fundamental determinant of its impact on human health and the environment. Location-specific ARARs are restrictions placed on the concentration of hazardous substances or the conduct of activities solely due to their specific locations. Some

examples of special locations include floodplains, wetlands, historic places, and sensitive ecosystems or habitats. Table 2-2 shows the location-specific ARARs that have been preliminarily screened for OU1 (EPA, CERCLA Compliance With Other Laws Manual, 1988a).

2.3 Action-Specific ARARs/TBCs

Action-specific ARARs are usually technology- or activity-based requirements or limitations on actions taken during remediation. These requirements are triggered by the particular remedial activities that are selected to accomplish a remedy. Since there are usually several alternative actions for any remedial site, very different requirements can come into play. Action-specific requirements do not in themselves determine the remedial alternative; rather, they indicate how a selected alternative must be achieved. Table 2-3 shows the action-specific ARARs that have been preliminarily screened for OU1 (EPA, CERCLA Compliance With Other Laws Manual, 1988a).

2.4 Potential ARARs/TBCs

Upon completion of a preliminary screening of ARARs/TBCs, a list of potential ARARs/TBCs was developed for OU1 and is presented in Table 2-4. The DNR and the EPA will finalize this list in the ROD.

3.0 Identification and Screening of Technologies and Process Options

This section discusses the development and screening of technologies and process options used to assemble the remedial action alternatives for OU1. The following steps are involved in the screening process:

- Specify Remedial Action Objectives (RAOs),
- Determine preliminary remediation goals (PRGs) based on ARARs, where available,
- Develop media-specific PRGs based on risk,
- Select remediation goals (RGs) from available PRGs,
- Develop media-specific general response actions,
- Identify and screen remedial technologies in each general response action, and
- Identify and screen process options within each technology.

3.1 RAOs

RAOs are media-specific cleanup goals for protecting human health and the environment. The RAOs for groundwater, the media of concern in this FS, are discussed below. Contamination in groundwater that is pumped from the aquifer will be required to meet the RGs discussed in Section 3.2 in order to achieve RAOs.

3.1.1 Groundwater RAOs

The primary RAOs established, for groundwater in OU1, are to:

- Prevent exposure to the COC (TCE) by providing residential well users with a water supply that, at a minimum, meets the residential RG, and
- Prevent exposure to the COC (TCE) by providing commercial/industrial well users with a water supply that, at a minimum, meets the commercial/industrial RG.

These two RAOs are considered primary since they deal directly with providing a source of water that is protective of human health.

The secondary RAO for groundwater in OU1 is:

- Remediation of the actual contamination in groundwater.

This RAO is considered secondary since it cannot be implemented in a timeframe that will protect current and near future users of groundwater.

3.2 PRGs and RGs

In order to meet the RAOs for OU1, a set of PRGs was established for each COPC. PRGs are numerical clean-up levels developed to be protective of human health and the environment. From the set of PRGs, a single RG was selected for each COPC. The RG chosen for each COPC was based on the lowest or most conservative PRG or the level at which the COPC could be quantified in a laboratory.

The methodology used in selecting and/or calculating the PRGs and RGs is discussed in the following sections.

3.2.1 PRGs Based Upon ARARs

The chemical-specific ARARs identified for groundwater in OU1 were the DNR and the EPA Maximum Contaminant Levels (MCLs) and Missouri Water Quality Standards (WQS). The MCLs are numerical drinking water standards established to protect human health, and the WQS is the Missouri criteria for groundwater protection. Each of these values can be found in Table 3-1 for the COPCs and the COC in groundwater.

3.2.2 PRGs Based Upon Risk Criteria

For certain COPCs, health-based drinking water standards or groundwater protection standards have not been promulgated under Federal or State regulations. In such cases, the PRGs are based on either carcinogenic or non-carcinogenic risk factors. The DNR requested that the DHSS

determine PRGs for the COCs detected at the site. Groundwater PRGs were developed by the DHSS and were included in Appendix F in the HHRA (DHSS, 2005). This appendix was included in Appendix A of the Phase II FS document. The reader should refer to the DHSS rationale and tables for further information on the risk-based PRG development. The COCs were modified by DHSS after the completion of the Phase II FS documents (Appendix A). The conclusions of the HHRA and post-HHRA were incorporated together for use in the Post-Phase II FS document for OU1.

For determination of PRGs based upon risk criteria, the following steps were performed:

- Determine the human health toxicity values for non-carcinogens (reference doses) and carcinogens (slope factors) from EPA-approved sources
- Select exposure variables applicable to probable human exposure scenarios
- Calculate PRGs for non-carcinogenic COCs using a hazard quotient (THQ) of 1.0 and 0.1
- Calculate PRGs for carcinogenic COCs using a target risk level of $1x10^{-4}$, $1x10^{-5}$ and $1x10^{-6}$ (40 CFR section 300.430(e)(2)(i)(A) specifies the target risk level for carcinogens between $1x10^{-4}$ and $1x10^{-6}$).

3.2.3 Selection of RGs

DHSS calculated PRGs for three different carcinogenic risk levels ($1x10^{-4}$, $1x10^{-5}$ and $1x10^{-6}$) and two different non-carcinogenic levels (THQ = 0.1 and 1.0). For the selection of the single PRG for groundwater at OU1, the $1x10^{-6}$ (carcinogenic value) and the 0.1 (non-carcinogenic value) were chosen since those values were the most conservative. The most conservative groundwater risk levels were used due to the presence of several COPCs in the groundwater.

For groundwater, the final RG was selected based on the following method:

1) The lower of the Missouri MCL, WQS, EPA MCL or non-zero MCLG (Maximum Contaminant Level Goals) was chosen.
2) If no MCL, MCLG or WQS values existed, then the lower of the carcinogenic and noncarcinogenic PRGs was used.
3) If the results of steps 1 or 2 are less than the practical quantification limit (PQL) (i.e., the limit below which an analytical laboratory cannot practically detect a contaminant), then the PQL value was chosen.

<u>Groundwater RGs</u>

Tables 3-1 and 3-2 include the PRGs and the RGs for groundwater. Table 3-1 includes the residential wells for OU1. Table 3-2 includes the commercial/industrial wells for OU1.

For each of the exposure scenarios, the RGs for the 15 COPCs were selected as follows:

- 10 based upon MCLs
- 4 based upon non-carcinogenic health risk
- 1 not determined because no MCLs or toxicological data was available

For the combined exposure scenarios, the RG for the 1 COC was selected as follows:

- 1 based upon MCL

3.3 General Response Actions

General response actions are broad categories of media-specific remedial actions that have the potential to satisfy the RG either alone or in combination with other response actions.

Groundwater

The general response actions for OU1 include:

- No Action
- Well Plugging and Abandonment
- Wellhead Treatment
- Alternate Water Supply
- Educational Material
- Groundwater Monitoring
- Operation/Monitoring of Air Stripper
- Institutional Controls

3.4 Identification and Technical Screening of Remedial Technologies and Process Options for Groundwater

Remedial technologies are general categories of technologies potentially capable of satisfying the RGs. Remedial technologies were identified for each general response action and were further divided into various process options. Process options are specific processes within each remedial technology.

At this stage in the FS process, remedial technologies and process options were screened on the basis of technical feasibility. Table 3-3 provides the results of the initial screening of the remedial technologies and process options for groundwater.

The remaining remedial technologies were evaluated further for assembly into various remedial action alternatives for groundwater. During this evaluation, certain process options were excluded for further consideration (Table 3-4). The following sections provide a brief explanation of why certain process options were eliminated from each of the general response actions.

3.4.1 Institutional Controls

Institutional Controls (ICs) are actions taken by the responsible authorities to minimize the potential for danger to human health and the environment as a result of any ongoing activities. Site Security was the only IC removed for OU1, because fences or security guards to prevent access to wells is not feasible due to the widespread groundwater contamination.

3.4.2 Wellhead Treatment

Wellhead treatment is the treatment of the groundwater once it has been extracted and collected. Treatment is performed after the water exits the well and prior to entering the home, business and/or municipal distribution system.

Ion Exchange, Oil-Water Separator, Steam Stripping, and Filtration were eliminated under physical treatment of water for OU1. Ion Exchange would not be feasible since the process is employed to remove inorganic contaminants from groundwater. An Oil-Water Separator would not be feasible since site contamination is dissolved in groundwater and the separator utilizes a density difference to function. Steam stripping is not feasible since a steam source is not readily available. Filtration is not feasible since site contamination is dissolved in groundwater and the process separates suspended solids from solution.

Rotating Biological Contractors were eliminated under biological treatment of water for OU1. The contractors are not technically feasible since the low concentrations of organics in groundwater would not support adequate biological growth and degradation in the aerobic environment.

Precipitation was eliminated under chemical treatment of water for OU1. It is not feasible since the process is employed to remove inorganics from groundwater.

Bioreclamation, Air Sparging, Reactive Barriers, and In-Well Stripping were eliminated under in-situ treatment of water for OU1. All four technologies were determined not feasible due to the depth (to at least 560 feet bsg) and breadth (below OGV and Sullivan) of the contamination in groundwater and the complex karst geology. These two overriding issues would affect the performance of the bacteria and nutrients needed for Bioreclamation, the amount of pressurized gas required per well needed for Air Sparging, the size of a Reactive Barrier, and the number of functioning wells needed for In-Well Stripping, making them all not feasible to operate.

3.5 Evaluation of Process Options

After the initial technical screening of technologies and process options, the remaining process options were evaluated individually for their effectiveness, implementability and cost relative to other process options within the same technology group. These evaluations were based on engineering judgment. Table 3-4 presents the results of these evaluations for groundwater. This table includes the rationale for retaining or screening out each option. The three criteria used in the evaluation are described below.

3.5.1 Effectiveness Evaluation

Specific process options that were not screened out during the technical screening were evaluated on their effectiveness relative to other process options within the same technology type. This evaluation focused on the following:

- The potential effectiveness of process options in handling the estimated volumes of contaminated media and meeting the RG.
- The potential impacts to human health and the environment during the construction and implementation phase.
- How proven and reliable the process is with respect to the contaminants and conditions present at OU1 (EPA, Guidance for Conducting RI/FS Under CERCLA, 1988b).

3.5.2 Implementability Evaluation

Implementability encompasses both the technical and administrative feasibility of implementing a process. Technical feasibility was used in the initial screening of the technology types and process options to eliminate those that were clearly ineffective or unworkable at OU1. Therefore, this subsequent more detailed evaluation of process options places a greater emphasis on the institutional aspects of implementability. This means the ability to obtain necessary permits for offsite actions, the availability of treatment, storage, and disposal services, and the availability of necessary equipment and skilled workers to implement the technology (EPA, Guidance for Conducting RI/FS Under CERCLA, 1988b).

A re-evaluation was conducted on ICs in relationship to the widespread groundwater contamination in OU1. The DNR and EPA decided the implementation of ICs for OU1 is not feasible at this time.

3.5.3 Cost Evaluation

Cost plays a limited role in the screening of process options. Relative capital and operation and maintenance (O&M) costs are used rather than detailed estimates. At this stage, the cost analysis is made on the basis of engineering judgment, and each process is evaluated as to whether costs are high, medium, or low relative to other process options in the same technology type (EPA, Guidance for Conducting RI/FS Under CERCLA, 1988b).

4.0 Development of Remedial Action Alternatives

4.1 Purpose of Section

The purpose of this section is to develop remedial action alternatives from the process options that have been retained from Section 3.0. Remedial action alternatives will be developed for groundwater in OU1.

In order to develop the remedial action alternatives for groundwater, each media was analyzed based on response actions (Section 4.2). The response actions were then grouped into alternatives (Section 4.3) that are screened in Section 5.0.

4.2 Response Actions for Groundwater

Seven response actions (RA) were developed for contamination in groundwater from the process options that remained after the technical implementability, effectiveness and cost screening in Section 3.0. The response actions are different from the General Response Actions discussed in Section 3.3 and should be viewed separately. They will be used in Section 5.0 to develop Remedial Action Alternatives for OU1. The response actions are as follows:

- Response Action 1: No Action
- Response Action 2: Educational Materials
- Response Action 3: Plug and Abandon
- Response Action 4: Groundwater (GW) Monitoring
- Response Action 5: Treatment at Wellhead
- Response Action 6: Alternate Water Supply
- Response Action 7: Operation and Monitoring of the Air Stripper

The response actions and the associated process options that are applicable to each groundwater media group (M1-M3, M5) are shown in Tables 4-1 through 4-3. The response actions and their process options are described below.

4.2.1 Response Action 1 – No Action

Response Action 1, No Action, serves as a baseline for the comparison to other response actions. Response Action 1 would not provide protection against contamination in groundwater; therefore, it should only be used in situations where no contamination in groundwater is found above the RG (residential and commercial/industrial wells that do not exceed the RG).

4.2.2 Response Action 2 – Educational Materials

Response Action 2, Educational Materials, would consist of educational outreach, including development and distribution of materials to well owners and to individuals applying for permits to drill new wells within the impacted area. These materials would be distributed through the DNR and the county health department. Any domestic wells that are replaced by an alternate water supply (city water) or a treatment system due to contamination above the RG would be posted with signs indicating the appropriate uses of the well.

4.2.3 Response Action 3 – Plug and Abandon

Response Action 3, Plug and Abandon, consists of removing groundwater wells from use by abandoning and plugging the well following the "Missouri Well Construction Rules." (10 CSR 23.3.110). For OGV01, which is a public water supply well, 10 CSR 23.3.110(2)(C) would apply. This action pertains to wells that no longer meet the RG and are in a condition where treatment of the water is not feasible. The use of this response action assumes that an alternate water source would be or has been made available to replace the plugged well.

4.2.4 Response Action 4 – Groundwater Monitoring

Response Action 4, Groundwater Monitoring, consists of a well survey and monitoring of the groundwater at residential, commercial/industrial, municipal and monitoring wells to ensure the safety of the water source. The well survey would provide a mechanism to locate residential and commercial/industrial wells in OU1 for inclusion in the monitoring of the groundwater in OU1. Wells not previously sampled would be included in future groundwater sampling to determine the status of the new wells and a course of action. The well survey would be updated during the five-year review or as needed.

4.2.5 Response Action 5 – Treatment at Wellhead

Response Action 5, Treatment at Wellhead, consists of treating groundwater that exceeds the RG by extracting water and treating it at or near the wellhead in OU1. The use of this response action may consist of different treatment methods depending on the treatment efficiency, volumes of water, and the contaminants present.

4.2.6 Response Action 6 – Alternate Water Supply

Response Action 6, Alternate Water Supply, consists of replacing current groundwater wells that exceed the RG with an alternate water supply (city water). The use of this response action would be based on whether it is more technologically feasible and economical to supply an alternate source of water (city water), or to treat existing sources.

4.2.7 Response Action 7 – Operation and Monitoring of the Air Stripper

Response Action 7, Operation and Monitoring of the Air Stripper, consists of the ongoing operation of the OGV02 air stripper by OGV and monitoring of the air stripper to evaluate the remediation of TCE in groundwater (aquifer) over time. OGV began operation of OGV02 (which is OGV's public water supply well) and the air stripper on April 22, 2005. OGV02 pumps approximately 50,000 gallons of water per day with an average extraction of 50-ppb TCE. Based on these calculations, approximately 1.9 liters of TCE are removed per year. Over a span of 30 years, the OGV02 air stripper is expected to remove approximately 57 liters of TCE contamination from the aquifer. The mass of this removal, in conjunction with natural processes

such as dilution and dispersion, is expected to have a significant impact on lowering overall TCE concentrations. By monitoring groundwater before it enters the air stripper, this impact would be documented and evaluated to determine the effectiveness of the air stripper in remediating the aquifer.

In the event OGV stops utilizing OGV02 in the future, the DNR and the EPA would be notified to determine if an alternate treatment system or ICs are necessary.

4.3 Remedial Action Alternatives for Groundwater

By combining response actions in Section 4.2, Remedial Action Alternatives were developed for groundwater. These alternatives are shown in Table 4-4 and are described below.

4.3.1 Remedial Action Alternative I – No Action

Remedial Action Alternative I consists of taking no action to remediate, treat or monitor any of the groundwater groups in OU1, however, five-year reviews for OU1 would need to be conducted. This alternative serves as a baseline against which other alternatives would be compared.

4.3.2 Remedial Action Alternative II – Treatment at Private Wellheads and Groundwater Monitoring

Remedial Action Alternative II consists of the following actions grouped by contaminated media (M) (see Section 1.2.3.1):

- Group M1: Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Group M2: Treatment at the wellhead at those residential wells that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Group M3: Treatment at the wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

4.3.3 Remedial Action Alternative III – Alternative Water Supply/Treatment at Private Wellheads and Groundwater Monitoring

Remedial Action Alternative III consists of the following actions grouped by contaminated media (M) (see Section 1.2.3.1):

- Group M1: Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Group M2: Treatment using an alternate water supply or treatment at the wellhead at those residential wells that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Group M3: Treatment using an alternate water supply or treatment at the wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

4.3.4 Remedial Action Alternative IV – Treatment at Private Wellheads, Groundwater Monitoring, and Operation/Monitoring of Air Stripper

Remedial Action Alternative IV consists of the following actions grouped by contaminated media (M) (see Section 1.2.3.1):

- Group M1: Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Group M2: Treatment at the wellhead at those residences that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Group M3: Treatment at the wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Group M5: Operation and Monitoring of the air stripper on OGV02
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

4.3.5 Remedial Action Alternative V – Alternative Water Supply/Treatment at Private Wellheads, Groundwater Monitoring and Operation/Monitoring of Air Stripper

Remedial Action Alternative V consists of the following actions grouped by contaminated media (M) (see Section 1.2.3.1):

- Group M1: Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.

- Group M2: Treatment using an alternate water supply or treatment at wellhead at those residences that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Group M3: Treatment using an alternate water supply or treatment at wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Group M5: Operation and Monitoring of the air stripper on OGV02.
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

5.0 Detailed Analysis of Remedial Action Alternatives

The purpose of this section is to perform a detailed analysis for the five alternatives developed for groundwater in Section 4.0.

5.1 Evaluation Criteria

The EPA has developed a three-tiered hierarchy for selecting a remedy as follows:

- Threshold criteria
- Primary balancing criteria
- Modifying criteria

These three broad criteria are further divided into nine criteria, which are discussed below and shown in Table 5-1.

5.1.1 Threshold Criteria

Each alternative must meet the following two threshold criteria:

5.1.1.1 Overall Protection of Human Health and the Environment

This evaluation criterion is used to assess whether each alternative, as a whole, achieves and maintains protection of human health and the environment. This overall assessment of protectiveness is derived from other evaluation criteria, especially long-term effectiveness and permanence, short-term effectiveness, and compliance with the ARARs.

5.1.1.2 Compliance with ARARs/TBCs

The following evaluation criterion is used to determine if each alternative would meet the appropriate federal and state ARARs that have been identified in Section 2.0.:

1) The **Interim Measure** waiver. This waiver may be used when an interim measure that does not attain all ARARs is followed by a complete measure that would attain all ARARs.

2) The **Equivalent Standard of Performance** waiver. This waiver may be used in situations where an ARAR stipulates use of a particular design or operating standard, but equivalent or better remedial results could be achieved by using an alternative design, method or operation.

3) The **Greater Risk to Health and the Environment** waiver. This waiver is available for situations where compliance with an ARAR would cause a greater risk to human health and the environment than non-compliance.

4) The **Technical Impracticability** waiver. This waiver may be used when compliance with an ARAR is technically impracticable from an engineering perspective.

5) The **Inconsistent Application of State Standard** waiver. This waiver may be invoked when evidence exists demonstrating that a State standard has not been or would not be consistently applied to other remedial sites within the State.

6) The **Fund Balancing** waiver. This waiver may be invoked when meeting an ARAR would entail such cost, in relation to the added degree of protection or reduction of risk afforded by that standard, that remedial actions at other sites would be jeopardized.

5.1.2 Primary Balancing Criteria

Each alternative would also be evaluated against the following five primary balancing criteria:

5.1.2.1 Long-Term Effectiveness and Permanence

This evaluation criterion is addressed in terms of the following two components:

1 Magnitude of Residual Risk

This factor assesses the residual risk remaining from untreated waste or treatment residuals at the conclusion of remedial activities (e.g., after groundwater has been treated). The potential for this risk may be measured by numerical standards, such as cancer risk levels, or the volume or concentration of contaminants in waste, media, or treatment residuals remaining on-site.

2 Adequacy and Reliability of Controls

This factor assesses the adequacy and suitability of controls, if any, that are used to manage treatment residuals or untreated wastes that remain at a site. It may include an assessment of containment systems and ICs to determine if they are sufficient to ensure that any exposure to human and environmental receptors is within protective levels. This factor also addresses the long-term reliability of management controls for providing continued protection from residuals. It includes the assessment of the potential need to

replace technical components of the alternative, such as a treatment system, and the potential exposure pathway and the risks posed should the remedial action need replacement.

5.1.2.2 Reduction of Toxicity, Mobility, or Volume Through Treatment

This evaluation criterion addresses the statutory preference for selecting remedial actions that employ treatment technologies that permanently and significantly reduce the toxicity, mobility, or volume of hazardous substances as their principal element. This preference is satisfied when treatment is used to reduce the principal threats at a site through destruction of toxic contaminants, reduction of the total mass of toxic contaminants, irreversible reduction in contaminant mobility, or reduction of total volume of contaminated media.

5.1.2.3 Short-term Effectiveness

This evaluation criterion addresses the effects of the alternative during the construction and implementation phase until remedial response objectives are met (e.g., a remediation goal has been met). Under this criterion, alternatives should be evaluated with respect to their effects on human health and the environment during implementation of the remedial action. The following factors are considered:

- Protection of the community during remedial action
- Protection of the workers during remedial action
- Environmental impacts
- Time until remedial response objectives are achieved.

5.1.2.4 Implementability

This evaluation criterion addresses the technical and administrative feasibility of implementing an alternative and the availability of various services and materials required during its implementation.

5.1.2.5 Cost

This evaluation criterion assesses the direct and indirect capital costs of the remedial action as well as the annual O&M costs. The direct costs include all capital costs, including labor and materials to implement the alternative. The indirect costs include expenditures for engineering, financial, and other services that are not part of actual installation activities yet are required to complete the installation of remedial alternatives. Annual O&M costs include the costs necessary to operate the systems for each alternative.

5.1.3 Modifying Criteria

This evaluation criterion includes the two criteria discussed below.

5.1.3.1 State (Support Agency) Acceptance

This assessment evaluates the technical and administrative issues and concerns the state (or support agency in the case of state-lead sites) may have regarding each of the alternatives. This criterion would be addressed in the ROD once comments on the proposed plan have been received.

5.1.3.2 Community Acceptance

This assessment evaluates the issues and concerns the public may have regarding each of the alternatives. As with the State Acceptance criterion, this criterion would be addressed in the ROD once comments on the proposed plan have been received.

5.2 Detailed Analysis of Alternatives

This section presents the detailed analysis of alternatives based on the first seven evaluation criteria. The last two criteria, State Acceptance and Community Acceptance, would be evaluated after the public comment period.

5.2.1 Remedial Action Alternative I – No Action

5.2.1.1 Description

Remedial Action Alternative I, the no action alternative, provides a baseline against which the other alternatives are compared. Under this alternative, no action would be taken to supply an alternative water supply, private wells would not be monitored to determine if drinking water meets current drinking water standards, remediation of the aquifer would not be monitored, and no educational material would be developed and distributed. However, five-year reviews for OU1 would need to be conducted since contamination in groundwater would go untreated.

5.2.1.2 Criteria Assessment

1) Overall Protection of Human Health and the Environment

A baseline risk assessment was performed by the DHSS to estimate the risk to current and future human receptors if no action was taken at the OGV Superfund Site. Based on the results of the baseline risk assessment and the modifications completed by DHSS in the post baseline risk

assessment, Alternative I would not achieve overall protection of human health and the environment for future residents or workers that are exposed to groundwater associated with OU1.

2) Compliance with ARARs

The ARARs for Alternative I are presented in Table 5-2. Since no remediation would take place with this alternative, most of the ARARs are not applicable. However, since contamination in groundwater would not be monitored, there would be no way to determine if the RG is met.

3) Long-term Effectiveness and Permanence

(a) Magnitude of Residual Risk

This alternative would not provide a long-term solution that is effective and permanent since there is no provision for monitoring the contamination in groundwater. There is the possibility that the concentrations of contaminants in groundwater would increase or cover a larger area over time as the contaminant plume moves. Therefore, the magnitude of residual risk may increase for a future resident drinking groundwater.

Additionally a five-year review for OU1 would need to be conducted since contamination in groundwater would go untreated.

(b) Adequacy and Reliability of Controls

This alternative does not provide any controls for the protection of human receptors.

4) Reduction of Toxicity, Mobility or Volume Through Treatment

This alternative does not provide any reduction in toxicity, mobility, or volume of the contamination in groundwater through treatment.

5) Short-term Effectiveness

Since there would be no remedial action taken, this alternative poses no additional short-term risks to the community, the workers or the environment.

6) Implementability

There is no implementation required for this alternative.

7) Costs

The capital and annual Operation & Maintenance (O&M) costs for Alternative I are shown in Table 5-3. The 30-year total cost of this alternative is $300,000 and the present worth cost of this alternative is $107,800. This cost is the result of conducting the five-year reviews.

5.2.2 Remedial Action Alternative II – Treatment at Private Wellheads and Groundwater Monitoring

5.2.2.1 Description

Remedial Action Alternative II, the Treatment at Private Wellheads and Groundwater Monitoring alternative, provides for the placement of wellhead treatment systems at those residential and commercial/industrial wells that exceed the RG. A well survey and inventory, which would be updated during each five-year review or as needed, would provide a mechanism to locate wells for inclusion in the groundwater monitoring for OU1 and determine the status of any new wells included in the survey. Signs would be posted on any well replaced by a treatment system due to exceedance of the RG indicating the appropriate uses of the well. Educational material would be distributed to raise future awareness of the site contamination, and five-year reviews would be conducted. Under this alternative, the following actions would be taken:

- Group M1: Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Group M2: Treatment at the wellhead at those residential wells that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Group M3: Treatment at the wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

5.2.2.2 Criteria Assessment

1) Overall Protection of Human Health and the Environment

(a) This alternative would provide overall protection of human health for current and future users of residential and commercial/industrial wells that exceed the RG through the use of private wellhead treatment systems.

(b) This alternative provides protection of human health to private well users with contamination in groundwater that does not exceed the RG by allowing for periodic monitoring of wells in OU1.

If contamination exceeds the RG in the future, well users would be provided with treatment at the wellhead.

(c) This alternative would also provide for the plugging and abandonment of OGV01 and five-year reviews would be conducted to ensure the safety of the water source.

2) Compliance with ARARs

The ARARs for Alternative II are presented in Table 5-2. Since contamination in groundwater would be treated prior to domestic use, the National Primary Drinking Water Standards and the Missouri Drinking Water Regulations would be met. When operating (pumping), municipal wells, especially OGV02 and COS02, would be remediating the groundwater in OU1 in each well's cone-of-capture, thus meeting the Missouri WQS in a limited area around the wells. All other ARARs are either not applicable or would be met by this alternative.

3) Long-term Effectiveness and Permanence

(a) Magnitude of Residual Risk

This alternative would provide a long-term treatment solution that is effective and permanent as long as the private treatment systems are maintained and operated as necessary to meet the RG.

There is the possibility that the concentrations of contaminants in groundwater would increase or cover a larger area over time as the contaminant plume moves. Therefore, the magnitude of residual risk may increase for a future resident that utilizes water from the aquifer and that does not have an individual treatment system. The well survey and inventory, and monitoring of residential and commercial/industrial well users that have levels of contaminants below the RG would be required in order to ensure that levels did not exceed the RG. Wells where levels exceed the RG would have individual treatment systems installed.

Additionally a five-year review for OU1 would need to be conducted since contamination in groundwater would be left on-site.

(b) Adequacy and Reliability of Controls

By treating groundwater for private and commercial use, this alternative provides adequate and reliable controls to prevent human exposure to contamination in groundwater if properly maintained. The reliability of the treatment is reduced if the systems are not routinely maintained.

4) Reduction of Toxicity, Mobility or Volume Through Treatment

This alternative provides for a reduction in the toxicity of the contamination in residential and commercial/industrial wells through wellhead treatment.

5) Short-term Effectiveness

There are no expected additional risks posed to the community, the workers or the environment if this alternative is implemented.

6) Implementability

This alternative requires the installation of individual treatment systems. It is considered to be easily implementable.

7) Costs

The capital and annual O&M costs for Alternative II are shown on Table 5-4. The 30-year total cost of this alternative is $1,692,703 and the present worth cost of this alternative is $707,149.

5.2.3 Remedial Action Alternative III – Alternative Water Supply/Treatment at Private Wellheads and Groundwater Monitoring

5.2.3.1 Description

Remedial Action Alternative III, Alternative Water Supply/Treatment at Private Wellheads and Groundwater Monitoring alternative, provides an alternate water supply (city water) to residential and commercial/industrial wells that exceeds the RG. Residential and commercial / industrial wells that exceed the RG but are outside the feasible limits of extending the city water lines would be provided with private wellhead treatment. A well survey and inventory, which would be updated during each five-year review or as needed, would provide a mechanism to locate wells for inclusion in the groundwater monitoring for OU1 and determine the status of any new wells included in the survey. Signs would be posted on any well replaced by an alternate water supply (city water) or a treatment system due to exceedance of the RG indicating the appropriate uses of the well. Educational materials would be developed and distributed to raise future awareness of the site contamination, and five-year reviews would be conducted. Under this alternative, the following actions would be taken:

- Group M1: Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Group M2: Treatment using an alternate water supply (city water) or treatment at the wellhead at those residential wells that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Group M3: Treatment using an alternate water supply (city water) or treatment at the wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

5.2.3.2 Criteria Assessment

1) Overall Protection of Human Health and the Environment

This alternative would provide overall protection of human health for current and future users of residential and commercial/industrial wells that exceed the RG through the use of an alternate water supply (city water) or private wellhead treatment systems. It would also provide protection for residential and commercial/industrial groundwater users whose wells do not exceed the RG, but who have wells with detectable levels of contamination in groundwater if the users choose to connect to the alternate water supply on their own.

This alternative provides protection of human health to private well users with contamination in groundwater that does not exceed the RG by allowing for periodic monitoring of wells in OU1. If contamination exceeds the RG in the future, well users would be provided with an alternate water supply or treatment at the wellhead.

The alternative would also provide for the plugging and abandonment of OGV01, and five-year reviews would be conducted to ensure the safety of the water source.

2) Compliance with ARARs

The ARARs for Alternative III are presented in Table 5-2. Since the contamination in groundwater would be treated prior to domestic use, the National Primary Drinking Water Standards and the Missouri Drinking Water Regulations would be met. When operating (pumping), municipal wells, especially OGV02 and COS02, would be remediating the groundwater in OU1 in each well's cone-of-capture, thus meeting the Missouri WQS in a limited area around the wells. All other ARARs are either not applicable or would be met by this alternative.

3) Long-term Effectiveness and Permanence

(a) Magnitude of Residual Risk

This alternative would provide a long-term solution that is effective and permanent as long as the treatment systems are maintained and operated as necessary to meet the RG.

There is the possibility that the concentrations of contaminants in groundwater would increase or cover a larger area over time as the contaminant plume moves. Therefore, the magnitude of residual risk may increase for a future resident that utilizes water from the aquifer and does not have an alternative water supply or an individual treatment system. The well survey and inventory, and monitoring of residential and commercial/industrial wells that have levels of contaminants below the RG would be required in order to ensure that levels did not exceed the RG. Wells where levels exceed the RG would need to have an alternative water supply or an individual treatment system installed.

Additionally a five-year review for OU1 would need to be conducted since contamination in groundwater would be left on-site.

(b) Adequacy and Reliability of Controls

By supplying an alternate supply of water for residential and commercial/industrial use for those who can feasibly be connected, or providing the individual treatment systems for those who cannot, this alternative provides adequate and reliable control to prevent human exposure to contaminated groundwater.

4) Reduction of Toxicity, Mobility or Volume Through Treatment

This alternative provides for a reduction in the toxicity of the contamination in residential and commercial/industrial wells through wellhead treatment.

5) Short-term Effectiveness

Heavy construction work would be required for the installation of groundwater distribution lines; however, contractors using proper safety precautions should not be adversely affected.

As long as proper precautions are taken with any contaminated soils and water during the construction of the distribution lines, there should be no additional risks posed to the community or the environment as a result of this alternative being implemented.

6) Implementability

This alternative requires the installation of water distribution lines and possibly water storage systems as well as some individual treatment systems. Implementation would require that the appropriate access agreements be obtained to run water distribution lines. The city may exercise the power of eminent domain, as may both the state and federal governments, under appropriate circumstances.

7) Costs

The capital and annual O&M costs for Alternative III are shown on Table 5-5. The 30-year total cost of this alternative is $2,190,916 and present worth cost of this alternative is $1,082,225.

5.2.4 Remedial Action Alternative IV – Treatment at Private Wellheads, Groundwater Monitoring, and Operation/Monitoring of Air Stripper

5.2.4.1 Description

Remedial Action Alternative IV, Treatment at Private Wellheads, Groundwater Monitoring, and Operation/Monitoring of Air Stripper alternative, would provide treatment systems on all residential and commercial/industrial wells that have groundwater exceeding the RG or where there is the potential to exceed the goals in the future. It includes the ongoing operation of the OGV02 air stripper by OGV and monitoring of the air stripper to evaluate the remediation of TCE in groundwater over time. Signs would be posted on any well replaced by a treatment system due to exceedance of the RG indicating the appropriate uses of the well. Educational

materials would be developed and distributed to raise future awareness of the site contamination, and five-year reviews would be conducted. Under this alternative, the following actions would be taken:

- Group M1: Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Group M2: Treatment at the wellhead at those residences that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Group M3: Treatment at the wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Group M5: Operation and Monitoring of the air stripper on OGV02
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

5.2.4.2 Criteria Assessment

1) Overall Protection of Human Health and the Environment

This alternative would provide overall protection of human health for current and future users of residential and commercial/industrial wells that exceed the RG through the use of private wellhead treatment systems. This alternative provides protection of human health to private well users with contamination in groundwater that does not exceed the RG by allowing for periodic monitoring of wells in OU1. If contamination exceeds the RG in the future, well users would be provided with treatment at the wellhead.

It would also allow for the monitoring of OGV02 to ensure the air stripper is providing a clean water supply to OGV, while remediating the groundwater in the cone-of-capture of OGV02. The alternative would also provide for the plugging and abandonment of OGV01 and five-year reviews would be conducted to ensure the safety of the water source.

2) Compliance with ARARs

The ARARs for Alternative IV are presented in Table 5-2. Since contamination in groundwater would be treated prior to domestic use, the National Primary Drinking Water Standards and the Missouri Drinking Water Regulations would be met. When operating (pumping), municipal wells, especially OGV02 and COS02, would be remediating the groundwater in OU1 in each well's cone-of-capture, thus meeting the Missouri WQS in a limited area around the wells. All other ARARs are either not applicable or would be met by this alternative.

3) Long-term Effectiveness and Permanence

(a) Magnitude of Residual Risk

This alternative would provide a long-term treatment solution that is effective and permanent for the life of treatment systems. Implementation of this alternative would require regularly scheduled monitoring and review of the wells in OU1 to assure the wells meet the RG and ensure that the air stripper on OGV02 is remediating the groundwater.

There is the possibility that the concentrations of contaminants in groundwater would increase or cover a larger area over time as the contaminant plume moves. Therefore, the magnitude of residual risk may increase for a future resident that utilizes water from the aquifer and does not have an individual treatment system. Monitoring of residential and commercial/industrial well users that have levels of contaminants below the RG would be required in order to ensure that levels did not exceed the RG. Wells where levels exceed the RG would need to have an individual treatment systems installed.

Additionally a five-year review for OU1 would need to be conducted since contamination in groundwater would be left on-site.

(b) Adequacy and Reliability of Controls

By treating groundwater for private and commercial use, this alternative provides adequate and reliable control to prevent human exposure to contamination in groundwater if properly maintained. The reliability of the treatment is reduced if the systems are not routinely maintained.

4) Reduction of Toxicity, Mobility or Volume Through Treatment

This alternative provides for a reduction in the toxicity of the contamination in residential and commercial/industrial wells and OGV02 through treatment. This alternative would monitor the effectiveness of the air stripper on OGV02 in reducing the toxicity and volume of the contamination in groundwater within the well's cone-of-capture.

5) Short-term Effectiveness

There are no expected additional risks posed to the community, the workers or the environment if this alternative is implemented.

6) Implementability

This alternative requires the installation of individual treatment systems. It is considered to be easily implementable.

7) Costs

The capital and annual O&M costs for Alternative IV are shown in Table 5-6. The 30-year total cost of this alternative is $1,793,713 and the present worth cost of this alternative is $748,930.

5.2.5 Remedial Action Alternative V - Alternative Water Supply/Treatment at Private Wellheads, Groundwater Monitoring and Operation/Monitoring of Air Stripper

5.2.5.1 Description

Remedial Action Alternative V, Alternative Water Supply/Treatment at Private Wellheads, Groundwater Monitoring and Operation/Monitoring of Air Stripper alternative, would provide an alternate water supply (city water) to residential and commercial/industrial wells that have groundwater exceeding the RG or where there is the potential to exceed the goals in the future. Residential and commercial/industrial wells that exceed the RG, but are outside the feasible limits of extending the city water lines would be provided with wellhead treatment. This alternative includes the ongoing operation of the OGV02 air stripper by OGV and monitoring of the air stripper to evaluate the remediation of TCE in groundwater over time. Signs, indicating the appropriate uses of the well, would be posted on any well replaced by an alternate water supply (city water) or a treatment system due to exceedance of the RG. Educational materials would be developed and distributed to raise future awareness of the site contamination, and five-year reviews would be conducted. Under this alternative, the following actions would be taken:

- Group M1: Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Group M2: Treatment using an alternate water supply (city water) or treatment at wellhead at those residences that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Group M3: Treatment using an alternate water supply (city water) or treatment at wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Group M5: Operation and Monitoring of the air stripper on OGV02.
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

5.2.5.2 Criteria Assessment

1) Overall Protection of Human Health and the Environment

Utilization of an alternate water supply (city water) or private wellhead treatment system would provide overall protection of human health for current and future users of residential and commercial/industrial wells that exceed the RG. This alternative would also provide protection

for groundwater users whose contaminated wells do not exceed the RG should the users choose to connect to the alternate water supply on their own.

This alternative provides protection of human health to private well users with contamination in groundwater that does not exceed the RG by allowing for periodic monitoring of wells in OU1. If contamination exceeds the RG in the future, well users would be provided with an alternate water supply or treatment at the wellhead.

It would also allow for the monitoring of OGV02 to ensure the air stripper is providing a clean water supply to OGV, while remediating the groundwater in the cone-of-capture of OGV02. The alternative would also provide for the plugging and abandonment of OGV01, and five-year reviews would be conducted to ensure the safety of the water source.

2) Compliance with ARARs

The ARARs for Alternative V are presented in Table 5-2. Since contamination in groundwater would be treated prior to domestic use, the National Primary Drinking Water Standards and the Missouri Drinking Water Regulations would be met. When operating (pumping), municipal wells, especially OGV02 and COS02, would be remediating the groundwater in OU1 in each well's cone-of-capture, thus meeting the Missouri WQS in a limited area around the wells. All other ARARs are either not applicable or would be met by this alternative.

3) Long-term Effectiveness and Permanence

(a) Magnitude of Residual Risk

This alternative would provide a long-term solution that is effective and permanent for the life of the treatment systems. Implementation of this alternative would require regularly scheduled monitoring and review of the wells in OU1 to assure the wells meet the RG and ensure that the air stripper on OGV02 is remediating the groundwater.

There is the possibility that the concentrations of contaminants in groundwater would increase or cover a larger area over time as the contaminant plume moves. Therefore, the magnitude of residual risk may increase for a future resident that utilizes water from the aquifer and does not have an alternative water supply or an individual treatment system. The well survey and monitoring of residential and commercial/industrial wells that have levels of contaminants below the RG would be required in order to ensure that levels did not exceed the RG. Wells where levels exceed the RG would need to have an alternative water supply or an individual treatment system installed.

Additionally a five-year review for OU1 would need to be conducted since contamination in groundwater would be left on-site.

(b) Adequacy and Reliability of Controls

By supplying an alternate supply of water for residential and commercial/industrial use for those who can feasibly be connected, or providing the individual treatment systems

for those who cannot, this alternative provides adequate and reliable control to prevent human exposure to contaminated groundwater.

4) Reduction of Toxicity, Mobility or Volume through Treatment

This alternative provides for a reduction in the toxicity of the contamination in residential and commercial/industrial wells and OGV02 through treatment. This alternative would monitor the effectiveness of the air stripper on OGV02 in reducing the toxicity and volume of the contamination in groundwater within the well's cone-of-capture.

5) Short-term Effectiveness

Heavy construction work would be required for the installation of groundwater distribution lines; however, contractors using proper safety precautions should not be adversely affected.

As long as proper precautions are taken with any contaminated soils and water during the construction of the distribution lines, there should be no additional risks posed to the community or the environment as a result of this alternative being implemented.

6) Implementability

This alternative requires the installation of water distribution lines and possibly water storage systems as well as some individual treatment systems. Implementation would require that the appropriate access agreements be obtained to run water distribution lines. The city may exercise the power of eminent domain, as may both the state and federal governments, under appropriate circumstances.

7) Costs

The capital and annual O&M costs for Alternative V are shown in Table 5-7. The 30-year total cost of this alternative is $2,291,926 and the present worth cost of this alternative is $1,124,006.

6.0 Comparative Analysis of Alternatives

The purpose of this section is to present a comparative analysis of the individual alternatives presented in Section 5.0. The two threshold criteria and the five primary, or balancing, criteria provide the comparative analysis. The alternatives are evaluated in relation to one another for each evaluation criteria. State (or support agency) and community acceptance would be addressed in the ROD following public comment on the Proposed Plan. The relative comparisons of each alternative are presented in Table 6-1.

6.1 Overall Protection of Human Health and the Environment

Alternative I does not satisfy this threshold criterion or provide for the overall protection of human health and the environment in OU1 since no actions would be implemented to improve current conditions.

Alternatives II through V satisfy this threshold criterion and provide for the overall protection of human health and the environment since actions would be implemented to adequately protect current and future receptors of groundwater in OU1. The distribution of the educational materials to current and future well owners would raise future awareness of the site contamination. Signs posted on any well with an exceedance of the RG would indicate the appropriate uses of the well. The well inventory would monitor all OU1 wells assuring the completeness of the groundwater monitoring. Groundwater monitoring of all wells and the five-year reviews would demonstrate that the selected remedy is protecting human health and the environment in OU1.

Alternatives II and IV would provide treatment at the wellhead for all wells that exceed the RG. For all other wells with contamination in groundwater, active groundwater monitoring would occur to assure the wells in OU1 remain safe for use.

Alternatives III and V would provide an alternative water supply (city water) where feasible for all wells that exceed the RG. Where it is not feasible, treatment at the wellhead would be provided. For all other wells with contamination in groundwater, active groundwater monitoring would occur to assure the wells in OU1 remain safe for use.

For Alternatives IV and V, the operation and monitoring of the OGV02 air stripper would be used to determine its effectiveness in restoring the aquifer.

6.2 Compliance with ARARs and TBCs

Alternative I does not satisfy this threshold criterion or comply with any ARARs or TBCs since no actions would be implemented to improve current conditions in OU1.

Alternatives II through V satisfy this threshold criterion and comply with ARARs and TBCs since actions would be implemented to improve current conditions in OU1. Remediation of contamination in groundwater for all four alternatives would be through the operation and use of the municipal wells, and residential and commercial/industrial wells with wellhead treatment systems.

Alternatives IV and V would provide additional compliance with the ARARs and TBCs due to the monitoring of the air stripper of OGV02.

6.3 Long-Term Effectiveness and Permanence

Alternative I would not provide an effective or permanent remedy for OU1 since no actions would be implemented to improve current conditions in OU1.

For Alternatives II through V, groundwater monitoring, based on the well inventory of all wells in OU1, and five-year reviews would demonstrate the long-term effectiveness and permanence of the remedial action and assure the wells in OU1 would remain safe for water use. Long-term effectiveness and permanence can be maintained through educational outreach, posting of signs on impacted wells, and the plugging and abandonment of OGV01.

Alternatives II and IV would provide treatment at the wellhead for all wells that exceed the RG.

Alternatives III and V would provide an alternative water supply (city water) where feasible for all wells that exceed the RG. Where it is not feasible, treatment at the wellhead would be provided.

For Alternatives IV and V, the operation and monitoring of the OGV02 air stripper would be used to determine its effectiveness in restoring the aquifer.

6.4 Reduction of Toxicity, Mobility or Volume Through Treatment

Alternative I does not provide any way to determine reduction in the toxicity, mobility or volume of contaminants since no action would be taken in OU1.

Alternatives II and IV would reduce the toxicity of contaminants in groundwater through the use of treatment at the wellhead for any future wells that have contamination in groundwater that exceeds the RG.

Alternatives III and V would provide an alternate water supply from Sullivan that has been treated to reduce the mobility of contaminants. The toxicity of the contaminants in groundwater would be reduced if the water were obtained from COS02 since an air stripper exists on COS02. The alternate water supply would be available to future residential and commercial/industrial wells that have contamination in groundwater exceeding the RG. Where not feasible, treatment at the wellhead would be implemented.

For Alternatives IV and V, the operation and monitoring of the OGV02 air stripper would be used to determine reduction of toxicity, mobility and volume of the contamination in the aquifer through treatment.

6.5 Short-Term Effectiveness

Alternative I would not be effective in the short-term, nor would it affect the community, workers, or the environment in the short-term since no action would be taken at OU1.

For Alternatives II through V, continued groundwater monitoring, based on the well inventory, of wells in OU1, educational outreach, posting of signs on impacted wells, the plugging and abandonment of OGV01, and five-year reviews would be effective in the short-term and pose no additional risks to the community, workers, or the environment.

Alternatives II and IV would be effective in the short-term (treatment at wellhead) for any future wells with contamination in groundwater exceeding the RG. No additional risks to the community, workers, or the environment in the short-term are expected from these alternatives.

Alternatives III and V would be effective in the short-term (alternative water supply or treatment at wellhead) for any future wells with contamination in groundwater exceeding the RG. These alternatives would require heavy construction work for the installation of water distribution lines, however, with proper safety precautions; no additional short-term risk is expected.

For Alternatives IV and V, the operation and maintenance of the OGV02 air stripper would be effective in the short-term and no short-term risk is expected.

6.6 Implementability

Alternative I requires no implementation since no action would be taken at OU1.

For Alternatives II through V, groundwater monitoring, based on the well inventory, of wells in OU1, educational outreach, posting of signs on impacted wells, the plugging and abandonment of OGV01, and five-year reviews would be easily implementable.

Alternatives II and IV would require the installation and subsequent maintenance of treatment units on any future well with contamination in groundwater exceeding the RG. Only with the well owner's acceptance and cooperation, would the installation and subsequent maintenance be easy to implement.

Alternatives III and V would require access agreements for the installation of water distribution lines. Only with community acceptance and cooperation, would obtaining access agreements be easy to implement.

For Alternatives IV and V, the operation and maintenance of the OGV02 air stripper would be easy to implement with community acceptance and cooperation.

6.7 Costs

The estimated costs for the alternatives are as follows:

Criteria	Alternative I	Alternative II	Alternative III	Alternative IV	Alternative V
Capital Costs	$0	$39,703	$327,916	$39,703	$327,916
O&M Costs	$0	$1,353,000	$1,563,000	$1,454,010	$1,664,010
Periodic Costs	$300,000	$300,000	$300,000	$300,000	$300,000
Total Costs	$300,000	$1,692,703	$2,190,916	$1,793,713	$2,291,926
Present Worth	$107,800	$707,149	$1,082,225	$748,930	$1,124,006

7.0 Conclusions

Under the authority of CERCLA, this FS developed remediation alternatives for the contamination found at the OGV site, OU1. The goal of remediation is to eliminate, reduce or control risks to human health and the environment. The Missouri Department of Natural Resources (DNR) prepared the FS.

The Oak Grove Village Well site was included on the NPL on September 5, 2002, due to contamination in groundwater impacting OGV01. OGV was forced to shut down OGV01 due to levels of TCE that exceeded the allowable drinking water levels. In addition to OGV01, other wells in OU1 have been impacted by TCE contamination. OU1 consists of the following contaminated media and source:

- OGV01 and OGV02 – contamination in groundwater.
- COS09 and COS10 - contamination in groundwater.
- Residential Wells – contamination in groundwater.
- Commercial/Industrial Wells – contamination in groundwater.

An air stripper was placed on OGV02 by OGV and it began operation on April 22, 2005. Operation and monitoring of OGV02 is carried through in the FS to ensure the air stripper continues to provide a clean source of water for the residents of OGV, while actively remediating the groundwater plume.

The DHSS has found potentially unacceptable human health risk to future users of groundwater in OU1 for municipal, residential, and commercial/industrial purposes.

Currently, all known possible sources for the contamination in OU1 have been eliminated. The TRW-Ramsey facility sets directly southwest of OU1, and groundwater remediation for this inactive facility is currently taking place under the Corrective Action Program. It is possible that TCE contamination from the facility is contributing to the TCE impacting OU1 through undefined fractures and/or faults (Post Phase II Remedial Investigation Report, DNR, 2007).

The FS analyzed technologies and their associated process options for technical feasibility for OU1. The process options remaining after the initial screening were then screened for effectiveness, implementability, and cost. The process options remaining after this screening were used to develop Response Actions that were then combined to create five Remedial Action Alternatives for OU1.

The five Remedial Action Alternatives are summarized below.

Remedial Action Alternative I

The No Action alternative consists of taking no action towards the contamination in OU1. However, five-year reviews for OU1 would need to be conducted since contamination in groundwater would go untreated.

Total Cost: *$300,000*
Present Worth Cost: *$107,800*
Conclusion: Alternative I would not provide overall protection of human health and the environment since no action would be taken.

Remedial Action Alternative II

The Treatment at Private Wellheads and Groundwater Monitoring alternative consists of the following actions:

- Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Treatment using an alternate water supply (city water) or treatment at the wellhead at those residential wells that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Treatment using an alternate water supply (city water) or treatment at the wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

Total Cost: *$1,692,703*
Present Worth Cost: *$707,149*

Conclusion: Alternative II provides adequate protection for current and future groundwater receptors. Remediation of contamination in groundwater for this alternative would be through the operation and use of residential and commercial/industrial wells with wellhead treatment systems.

Remedial Action Alternative III

The Alternate Water Supply/ Treatment at Private Wellheads and Groundwater Monitoring alternative consists of the following actions:

- Plug and abandon OGV01 to prohibit exposure to contamination in groundwater.
- Treatment using an alternate water supply (city water) or treatment at the wellhead at those residential wells that exceed the RG; well survey and inventory, and monitor the groundwater at other residential wells in OU1 to ensure the safety of the water source.
- Treatment using an alternate water supply (city water) or treatment at the wellhead at those commercial/industrial wells that exceed the RG; well survey and inventory, and monitor the groundwater at other commercial/industrial wells in OU1 to ensure the safety of the water source.
- Development and distribution of educational materials and signs on wells where needed.
- Conduct five-year reviews for OU1.

Total Costs: *$2,190,916*
Present Worth Cost: *$1,082,225*

Conclusion: Alternative III provides a higher level of protection than Alternative II since the alternate water supply (city water) would provide a long-term effective remedy that does not need the maintenance that the wellhead treatment systems at individual wells would require. It also allows residential and commercial/industrial water users to tie into the alternate supply if their wells begin to exceed the RG for groundwater. Remediation of contamination in groundwater for this alternative would be through the operation and use of the municipal wells, and residential and commercial / industrial wells with wellhead treatment systems.

Remedial Action Alternative IV

The Treatment at Private Wellheads, Groundwater Monitoring, and Operation/Monitoring of Air Stripper alternative is the same as Alternative II except for the addition of the following:

- Ongoing operation of the OGV02 air stripper by OGV and monitoring of the air stripper to evaluate the remediation of TCE in groundwater over time.

Total Costs: *$1,793,713*
Present Worth Cost: *$748,930*

Conclusion: Alternative IV provides adequate protection for current and future groundwater receptors. Remediation of contamination in drinking water for this alternative would be through the operation and use of residential and commercial/industrial wells with wellhead treatment systems. The ongoing operation and monitoring of the air stripper on OGV02 would measure the effectiveness of the treatment system on the remediation of the groundwater.

Remedial Action Alternative V

The Alternate Water Supply/Treatment at Private Wellheads, Groundwater Monitoring, **and** Operation/Monitoring of Air Stripper alternative is the same as Alternative III except for the addition of the following:

- Ongoing operation of the OGV02 air stripper by OGV and monitoring of the air stripper to evaluate the remediation of TCE in groundwater over time.

Total Cost: *$2,291,926*
Present Worth Cost: *$1,124,006*

Conclusion: Alternative V would provide a higher level of protection than Alternative IV since the alternate water supply (city water) would provide a long-term effective remedy that does not need the maintenance that the wellhead treatment systems at individual wells would require. It also allows residential and commercial/industrial water users to tie into the alternate supply if their wells begin to exceed the RG for groundwater. Unlike Alternative III, the ongoing operation and monitoring of the air stripper on OGV02 would provide for measuring the effectiveness of the treatment system on the remediation of the groundwater.

The Proposed Plan would consider the findings and conclusions provided in this FS Report, and the final selection of a remedial action would occur in the Record of Decision.

8.0 References

DNR, *Post-Phase II Remedial Investigation Report of Operable Unit 1, Oak Grove Village Well Site, Oak Grove Village Missouri*, June 2007.

Benham, *Feasibility Study Report, Oak Grove Village Well Site, Oak Grove Village Missouri*, August 2005.

Benham, *Phase II Remedial Investigation Report, Oak Grove Village Well Site, Oak Grove Village Missouri*, August 2005

DGLS, *Hydrogeologic Report on the Oak Grove Village Well Contamination*, December 21, 1987.

DHSS, *Public Health Assessment, Oak Grove Village Well, Sullivan, Franklin County, Missouri*, prepared for the Agency for Toxic Substances and Disease Registry (ATSDR), 2004.

DHSS, *Baseline Human Health Risk Assessment for the Oak Grove Village Well Site*, Prepared for the Missouri Department of Natural Resources, Prepared by the Missouri Department of Health and Senior Services, June 2005.

DNR, *Final Remedy Decision, TRW, Incorporated, Sullivan, Missouri, EPA ID#MOD094390416*, January 2002.

EPA, U.S. Environmental Protection Agency National Priorities List website, http://www.epa.gov/superfund/sites/npl/index.htm, last updated November 17, 2004.

EPA, *CERCLA Compliance With Other Laws Manual, Volume I, EPA OSWER Directive 9234.1-01*, Washington, DC., August 1988a

EPA, *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA, Interim Final, EPA OSWER Directive 9355.3-01*, Washington, DC., October 1988b

EPA, *CERCLA Compliance with State Requirements, EPA OSWER Directive 9234.2-05FS*, Washington, DC., December 1989

EPA, *Guidance for Evaluating the Technical Impracticability of Ground-Water Restoration, EPA OSWER Directive 9234.2-25*, Washington, DC., September 1993

EPA, *Soil Screening Guidance: Fact Sheet, OSWER Directive 9355.4-14FSA*, Washington, DC., June1996b

EPA, *United States Environmental Protection Agency Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water, Office of Research and Development, Washington D.C., EPA/600/P-01/002A*, 1998.

EPA, *Screening Level Ecological Risk Assessment Oak Grove Village Well Site, and LaJolla Spring Cave Complex, United States Environmental Protection Agency, Region VII*, December 2004

TABLES

Table 1-1: Summary of History of OU1
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Date	Location	Event	Contaminant
1964	OGV01	Municipal well constructed	
06/86	OGV01	Routine sampling by DNR detected contaminants in groundwater	TCE (above MCL), PCE
06/87	OGV01	Preliminary Assessment completed	TCE
10/88	OGV01, COS02 & Voss wells	Site Inspection completed	TCE
07/91	OGV01	OGV01 closed, OGV purchases water from Sullivan	TCE
09/92	OGV01	Reopened OGV01	
02/94	OGV01	OGV01 closed again	TCE
09/94		Expanded Site Inspection completed	
1997-1998		Additional Site Assessment completed	
09/01	OGV Site	OGV Site proposed for EPA National Priorities List (NPL)	TCE
09/02	OGV Site	OGV Site added to EPA NPL	TCE
03/02	OGV Site	Phase I Remedial Investigation (RI) (Jacobs)	
12/02	OGV02	New municipal well constructed & contaminants in groundwater	TCE
2004-2005	OGV02	Air stripper installed on OGV02	
04/05	OGV02	OGV begins treatment & distribution of water	
06/05		DHSS completed Final Human Health Risk Assessment	
08/05		Phase II RI completed (Benham)	
06/07		Post Phase II RI completed (DNR)	

Notes:

1. TCE: Trichloroethylene
2. PCE: Tetrachloroethylene
3. Table modified for OU1 Post Phase II FS document, based on Benham 2005 Phase II Feasibility Study.

Table 1-2: Contaminants of Potential Concern and Contaminants of Concern for Groundwater Feasibility Study Oak Grove Village Well Site, OU1 Oak Grove Village, Missouri

Contaminants of Potential Concern and Contaminants of Concern[1]	CAS#
1,2,4-Trichlorobenzene	120-82-1
1,2 Dibromo-3-chloropropane	96-12-8
4-Methyl-2-pentanone (MIBK)	108-10-1
Acetone	67-64-1
Bromodichloromethane	75-27-4
Chloroform	67-66-3
cis-1,2-Dichloroethene	156-59-2
Methane	74-82-8
n-Butylbenzene	104-51-8
Toluene	108-88-3
Total THMs	NA
Tetrachloroethene (PCE)	127-18-4
Trichloroethene (TCE) (provisional)	**79-01-6**
Trichlorofluoromethane (Freon-11)	75-69-4
Vinyl Chloride	75-01-4

Note:

1. Contaminants of Potential Concern and Contaminants of Concern list taken from Table 2 of the "Baseline Human Health Risk Assessment for the Oak Grove Village Well Site" prepared by the Missouri Department of Health and Senior Services (DHSS) document dated June 2005. The list was modified based on information provided by DHSS after the completion of the Phase II RI/FS and for applicability for OU1.
2. Contaminants of Concern highlighted and bold on Table 1-2.

Table 1-3: Human Health Risk Summary Table – Groundwater[1]
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

	Future Residential Exposure Scenario		Future Commercial/Industrial Exposure Scenario	
Source Chemicals used to calculate risk	Increased Carcinogenic Risk[2]	Non-Carcinogenic Risk[3]	Increased Carcinogenic Risk[2]	Non-Carcinogenic Risk[3]
TRW Plume	**2 in 1,000**	**8**	**9 in 10,000**	**3**
TCE, Chloroform, Bromodichloromethane, Vinyl Chloride	**2 in 10, 000**	**2**	9 in 100, 000	0.9
Highway AF Plume	**2 in 1,000**	**1.1**	**1 in 10,000**	0.5
TCE, Chloroform	**1 in 10, 000**	0.7	9 in 100, 000	0.4
COS09 Well	9 in 100,000	0.3	4 in 100,000	0.1
TCE, Trichlorofluoromethane (Freon 11)	2 in 1,000, 000	0.02	<1 in 1,000, 000	0. 005
COS10 Well	2 in 100,000	0.1	1 in 100,000	0.04
TCE	<1 in 1,000,000	0.004	<1 in 1,000, 000	0.002

tes:

1. All data from "Baseline Human Health Risk Assessment for the Oak Grove Village Well Site" prepared by the DHSS, June 2005. The table was modified for the OU1 Post Phase II FS document based on information provided by DHSS after the completion of the Benham 2005 Phase II Feasibility Study..
2. Increased carcinogenic risk values are excess lifetime cancer risk. The EPA recommended acceptable range is less than 1 in 10,000 excess risk. Values in bold exceed this risk level. Two risks were calculated – the top risk is based on draft TCE toxicity values, and the bottom risk was calculated using provisional TCE values. See DHSS Risk Assessment for further details.
3. Risks are presented in terms of a total Hazard Index (HI). According to the EPA Risk Assessment Guidance for Superfund, noncarcinogenic health risks may exist when the total HI exceeds 1.0. Values in bold exceed this risk level. Two risks were calculated – the top risk is based on draft TCE toxicity values, and the bottom risk was calculated using provisional TCE values. See DHSS Risk Assessment for further details.

Table 2-1: Preliminary Screening for Potential ARARs/TBCs – Chemical Specific
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Federal Regulation (Statute – Citation)	**Rel and Appl/Appr/Keep**	**Regulatory Description**	**Screening Rational /Comments**
National Primary Drinking Water Stds. (Safe Drinking Water Act – 40 CFR 141, Subpart B)	**Y / NA / Y**	Regulations establish chemical-specific maximum contaminant levels (MCLs) and MCL goals (MCLGs) for drinking water from public, community, or non-transient water systems. Concentrations of contaminants exceeding the stds. would prohibit use of the water source w/out first meeting the stds.	OGV wells contain contaminants above the MCL
Ambient Water Quality Criteria (Clean Water Act – 40 CFR 131)	**N / N / N**	Establishes methods & requirements for states in the development of ambient water quality criteria for surface water for the protection of aquatic organisms &/or the protection of human health.	OU1 consists of contamination in GW Although contamination in GW may come to the surface as a spring, surface water & groundwater discharge is not currently considered at OU1.
NPDES Clean Water Act – 40 CFR 122)	**N / N / N**	The NPDES program of the Clean Water Act regulates discharges of pollutants to surface water.	OU1 consists of contamination in GW. Although contamination in GW may come to the surface as a spring, surface water & groundwater discharge is not currently considered at OU1.
RCRA – Subtitle C (Resource Conservation and Recovery Act – 40 CFR 260 - 280)	**Poss/ N / Y**	Regulates hazardous waste activities from point of generation through disposal; regulated wastes are either listed or exhibit hazardous characteristics; regulations address treatment, storage, & disposal of hazardous waste, includes permit program.	Although some contaminants in GW are listed in toxicity characteristic, they are found in levels that are below RCRA TC levels. Groundwater is not considered a waste.
RCRA – Subtitle D (Resource Conservation and Recovery Act – 40 CFR 258)	**N / N / N**	Regulates the disposal of solid waste.	No known Landfills exist in OU1.
Clean Air Act (42 USC 7401-7671; 40 CFR 50 & 61)	**N / N / N**	Protects ambient air quality through pollutant source control. It establishes Nation Ambient Air Quality Stds. (NAAQS) & Nation Emission Std. for Hazardous Air Pollutants (NESHAPs).	Indoor air quality issues are covered by the CAA; however, there are no federal ambient air quality stds. for TCE.
Occupational Safety & Health Administration (OSHA) Permissible Exposure Limits (PELs) (29 CFR 1910.1000)	**N / N / N**	Protects workers against the health effects of exposure to hazardous substances. PELs are regulatory limits on the amount or concentration of a substance in the air. They may also contain a skin designation. PELs are enforceable. OSHA PELs are based on an 8-hr. time weighted average (TWA) exposure.	The CAA covers indoor air quality issues.
State Regulation (Statute – Citation)	**Rel and Appl/Appr/Keep**	**Regulatory Description**	**Screening Rational /Comments**
Drinking Water Regulations (MO Drinking Water Act – 40 RSMo Ch. 644, 10 CSR 60)	**Y / NA / Y**	Provides regulations & MCLs for public water supplies.	The OGV wells are impacted with contaminants in groundwater above the MCL.
Water Quality Standards (10 CSR 20 Ch. 7)	**Y / NA / Y**	Establishes the classifications & standards for all waters of the state.	The Water Quality Standards set forth chemical-specific stds for GW.

Table 2-1: Preliminary Screening for Potential ARARs/TBCs – Chemical Specific
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

State Regulation (Statute – Citation)	**Rel and Appl/Appr/Keep**	**Regulatory Description**	**Screening Rational /Comments**
Cleanup Levels for Missouri (CALM) (10 CAR 25-15.0101, Rev.06/2001)	**N / N / TBC**	Guidance on developing risk-based clean-up levels at sites with hazardous substance contamination.	Not an ARAR, yet important guidance in Missouri for establishing risk-based clean-up objectives. Retain as a TBC.
Effluent Limitation (10 CSR 20 Ch. 7)	**N / N / N**	Establishes the maximum allowable amount of pollutants in discharge effluent per category of water within the state.	OU1 consists of contamination in GW. Although contamination in GW may come to the surface as a spring, surface water & groundwater discharge is not currently considered at OU1.

Notes:
1. Rel: Relevant
2. Appl: Applicable
3. Appr: Appropriate
4. N: No
5. Y: Yes
6. Poss: Possible
7. TBC: To be considered
8. NA: Not Applicable
9. Keep: Retained as an ARAR or TBC for the detailed analysis of the remedial action alternatives.

Table 2-2: Preliminary Screening for Potential ARARs/TBCs – Location Specific
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Federal Regulation (Statute – Citation)	**Rel and Appl/Appr/Keep**	**Regulatory Description**	**Screening Rational /Comments**
Clean Air Act (42 USC 7401-7671, 40 CFR 50 and 61)	**Y / N / Y**	Protects ambient air quality through pollutant source control. It establishes National Ambient Air Quality Standards (NAAQS) & National Emission Standards for Hazardous Air Pollutants (NESHAPs).	In OU1, the treatment of contamination in groundwater may involve the CAA
Federal Endangered Species Act (16 USC 1531 –1544; 50 CFR 200 & 402)	**N / N / N**	The purpose of this act is to conserve endangered, threatened, & rare species of wildlife & plants. This regulation prohibits federal agencies from jeopardizing habitat for endangered or threatened species for any action permitted, funded, or under the jurisdiction of a federal agency. Pertains to federally listed species only.	Not applicable due to contamination in groundwater in OU1. No known threatened, & rare species of wildlife or plants in OU1.
Wetlands Protection (Clean Water Act, Sec. 404; Exec. Order 11990: 40 CFR 6.302, Appendix A)	**N / N / N**	Section 404 regulates the discharge of dredged or fill materials into waters of US, including wetlands, involving construction of facilities or management of properties in wetlands in order to avoid adverse effect, minimize potential harm, & preserve & enhance wetlands to the extent possible.	Not applicable due to contamination in groundwater in OU1. Dredge &/or fill of wetland areas are not considered as applicable to OU1.
Federal Floodplain Management Order 11988; 40 ,Clean Water Act – 40 CFR 6.302, Appendix A)	**N / N / N**	Regulates actions that will occur in floodplains or flood prone areas to avoid adverse effects due to flooding	Not applicable. No aspects of OU1 are known to involve floodplains.
National Historic Preservation Act (Exec. Order 11593, 40 CFR 6 301(b))	**N / N / N**	Requires federal agencies to take into account the effect of any federally assisted undertaking or licensing on any district, site, building, structure or object that is included in or eligible for inclusion in the National Register of Historic Places. Provides for protection, enhancement, & preservation of sites with archeological or historic significance	Not applicable. Nothing is on the National Historic Preservation Act Register in OU1.
Fish & Wildlife Refuge Coordination Act (16 USC 661-668; 33 CFR 320-330; 40 CFR 6.302 (g))	**N / N / N**	Requires federal agencies to provide assistance to other federal agencies & states to protect & increase the supply of game & fur bearing animals; includes requirements for consultation with Fish & Wildlife Service for stream impoundments or diversions for the purpose of preventing loss or damage to wildlife resources.	This is a coordination requirement. No impoundments or diversions of surface water are planned in OU1, therefore, there will be limited, if any, applicability of the coordination requirement. .
National Wildlife Refuge System (16 USC 668; 50 CFR 27)	**N / N / N**	Establishes the national wildlife refuge system, & requirements of the management of activities within such lands.	Not applicable. OU1 is not associated with a national wildlife refuge.
Wild & Scenic Rivers Act (16 USC 1271, 40 CFR 6.302 (e))	**N / N / N**	Establishes a system to designate wild & scenic rivers, & restrictions of activities that might produce adverse effects	Not applicable. There are no designated Wild & Scenic Rivers in OU1
Wilderness Act (16 USC 1271: 50 CFR 35.1)	**N / N / N**	Establishes a system to designate wilderness areas & for the administration & control of such areas for their protection.	Not applicable. OU1 is not located in or near a designated wilderness area.

Table 2-2: Preliminary Screening for Potential ARARs/TBCs – Location Specific
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

State Regulation (Statute – Citation)	**Rel and Appl/Appr/Keep**	**Regulatory Description**	**Screening Rational /Comments**
Wildlife Code of Missouri (3 CSR 10-4.111)	**N / N / N**	Lists plant & animal species that are endangered.	Not applicable. No endangered plant or animal species exist in OU1.
Solid Waste Management Law (10 CSR 80)	**N / N / N**	Provides regulations for the design & operation of sanitary landfills.	Not applicable. No known landfills exist or are operating in OU1

Notes:
1. Rel: Relevant
2. Appl: Applicable
3. Appr: Appropriate
4. N: No
5. Y: Yes
6. Poss: Possible
7. TBC: To be considered
8. NA: Not Applicable
9 Keep: Retained as an ARAR or TBC for the detailed analysis of remedial action alternatives.

Table 2-3: Preliminary Screening for Potential ARARs/TBCs – Action Specific
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Federal Regulation (Statute – Citation)	**Rel and Appl/Appr/Keep**	**Regulatory Description**	**Screening Rational /Comments**
RCRA – Subtitle C (Resource Conservation and Recovery Act – 40 CFR 260 - 299)	**Poss / N / Y**	Regulates hazardous waste activities from point of generation through disposal; regulated wastes are either listed or exhibit hazardous characteristics, regulations address treatment, storage, & disposal of hazardous waste, includes permit program.	May be applicable depending on technologies & options considered, & on the final remedy.
RCRA – Subtitle D (Resource Conservation and Recovery Act – 40 CFR 258)	**Poss / N / Y**	Regulated the disposal of solid waste.	May be applicable depending on technologies & options considered. & on the final remedy.
Occupational Health & Safety Act (40 CFR 270)	**Y / NA / Y**	Protects workers health	Applicable to workers involved with remedial activities in OU1.
Underground Injection Control (40 CFR 144-147)	**Poss/ N / Y**	Protects underground sources of drinking water by imposing restrictions on underground injections.	Applicability will be based on technologies & options considered, & on final remedy selection Would only apply if injection is part of technology
NPDES Clean Water Act – 40 CFR 122)	**Y / N / Y**	The NPDES program of the Clean Water Act regulates discharges of pollutants to surface water.	Applicability will be based on technologies & options considered, & on final remedy selection. Would only apply if discharge to surface water is part of technology
Clean Air Act (42 USC 7401-7671; 40 CFR 61)	**N / N / Y**	Protects ambient air quality through pollutant source control. It establishes Nation Ambient Air Quality Stds. (NAAQS) & Nation Emission Std. for Hazardous Air Pollutants (NESHAPs).	In OU1, the treatment of contamination in groundwater may involve the CAA.
National Historic Preservation Act (Exec. Order 11593, 40 CFR 6.301(b))	**N / N / N**	Requires federal agencies to take into account the effect of any federally assisted undertaking or licensing on any district, site, building, structure or object that is included in or eligible for inclusion in the National Register of Historic Places.	Not applicable. Nothing is on the National Historic Preservation Act Register in OU1.
Federal Endangered Species Act (16 USC 1531 –1544; 50 CFR 200 & 402)	**N / N / N**	The purpose of this act is to conserve endangered, threatened, & rare species of wildlife & plants. This regulation prohibits federal agencies from jeopardizing habitat for endangered or threatened species.	Not applicable since OU1 consists of contamination in groundwater.
State Regulation (Statute – Citation)	**Rel and Appl/Appr/Keep**	**Regulatory Description**	**Screening Rational /Comments**
Drinking Water Regulations (MO Drinking Water Act – 40 RSMo Ch. 644, 10 CSR 60)	**Y / NA / Y**	Provides regulations & MCLs for public water supplies.	The OGV wells are impacted with contaminants in groundwater above the MCL.
Water Quality Standards (10 CSR 20 Ch. 7)	**Y / NA / Y**	Establishes the classifications & standards for all waters of the state.	The Water Quality Standards set forth action-specific stds for GW.

Table 2-3: Preliminary Screening for Potential ARARs/TBCs – Action Specific
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

State Regulation (Statute – Citation)	**Rel and Appl/Appr/Keep**	**Regulatory Description**	**Screening Rational /Comments**
Water Pollution Control Regulation (10 CSR 20 Ch. 1-6)	**Y / NA / Y**	Establishes criteria for disposal of wastewater into public treatment facilities.	Applicable for options or technologies that relies on discharge to the POTW.
Well Construction Rules (RSMo 256.600 to 256.64; 10 CSR 23-3.11 & 22-3.110)	**Y / NA / Y**	Sets forth rules & requirements for new & existing wells, including the installation & abandonment of wells.	Applicable to all wells.
Wildlife Code of Missouri (3 CSR 10-4 111)	**N / N / N**	Lists plant & animal species that are endangered.	Not applicable. No endangered plant or animal species exist in OU1.
Solid Waste Management Law (10 CSR 80)	**N / N / N**	Provides regulations for the design & operation of sanitary landfills.	Not applicable. No known landfills exist or are operating in OU1
Cleanup Levels for Missouri (CALM) (10 CAR 25-15.0101, Rev.06/2001)	**N / N / TBC**	Guidance on developing risk-based clean-up levels at sites with hazardous substance contamination.	Not an ARAR, yet important guidance in Missouri for establishing risk-based clean-up objectives. Retain as a TBC.
Effluent Limitation (10 CSR 20 Ch. 7)	**N / N / N**	Establishes the maximum allowable amount of pollutants in discharge effluent per category of water within the state.	OU1 consists of contamination in GW. Although contamination in GW may come to the surface as a spring, surface water & groundwater discharge is not currently considered at OU1.

Notes:
1. Rel: Relevant
2. Appl: Applicable
3. Appr: Appropriate
4. N: No
5. Y: Yes
6. Poss: Possible
7. TBC: To be considered
8. NA: Not Applicable
9 Keep: Retained as an ARAR or TBC for the detailed analysis of remedial action alternatives.

Table 2-4: Potential ARARs/TBCs Retained After Screening
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Federal Regulation (Statute – Citation)	**Rel and Appl/Appr/Keep**	**Regulatory Description**	**Screening Rational /Comments**
Chemical Specific			
National Primary Drinking Water Stds. (Safe Drinking Water Act – 40 CFR 141, Subpart B)	**Y / NA / Y**	Regulations establish chemical-specific maximum contaminant levels (MCLs) and MCL goals (MCLGs) for drinking water from public, community, or non-transient water systems. Concentrations of contaminants exceeding the stds. would prohibit use of the water source w/out first meeting the stds.	OGV wells contain contaminants above the MCL
RCRA – Subtitle C (Resource Conservation and Recovery Act – 40 CFR 260 - 280)	**Poss/ N / Y**	Regulates hazardous waste activities from point of generation through disposal; regulated wastes are either listed or exhibit hazardous characteristics; regulations address treatment, storage, & disposal of hazardous waste, includes permit program.	Although some contaminants in GW are listed in toxicity characteristic, they are found in levels that are below RCRA TC levels. Groundwater is not considered a waste.
Location Specific			
Clean Air Act (42 USC 7401-7671; 40 CFR 50 and 61)	**Y / N / Y**	Protects ambient air quality through pollutant source control. It establishes National Ambient Air Quality Standards (NAAQS) & National Emission Standards for Hazardous Air Pollutants (NESHAPs).	In OU1, the treatment of contamination in groundwater may involve the CAA
Action Specific			
RCRA – Subtitle C (Resource Conservation and Recovery Act – 40 CFR 260 - 299)	**Poss / N / Y**	Regulates hazardous waste activities from point of generation through disposal; regulated wastes are either listed or exhibit hazardous characteristics; regulations address treatment, storage, & disposal of hazardous waste, includes permit program.	May be applicable depending on technologies & options considered, & on the final remedy.
RCRA – Subtitle D (Resource Conservation and Recovery Act – 40 CFR 258)	**Poss / N / Y**	Regulated the disposal of solid waste.	May be applicable depending on technologies & options considered, & on the final remedy.
Occupational Health & Safety Act (40 CFR 270)	**Y / NA / Y**	Protects workers health.	Applicable to workers involved with remedial activities in OU1.
Underground Injection Control (40 CFR 144-147)	**Poss/ N / Y**	Protects underground sources of drinking water by imposing restrictions on underground injections.	Applicability will be based on technologies & options considered, & on final remedy selection Would only apply if injection is part of technology
NPDES Clean Water Act – 40 CFR 122)	**Y / N / Y**	The NPDES program of the Clean Water Act regulates discharges of pollutants to surface water.	Applicability will be based on technologies & options considered, & on final remedy selection. Would only apply if discharge to surface water is part of technology
Clean Air Act (42 USC 7401-7671; 40 CFR 50 & 61)	**N / N / Y**	Protects ambient air quality through pollutant source control. It establishes Nation Ambient Air Quality Stds. (NAAQS) & Nation Emission Std. for Hazardous Air Pollutants (NESHAPs).	In OU1, the treatment of contamination in groundwater may involve the CAA.

Table 2-4: Potential ARARs/TBCs Retained After Screening
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

State Regulation (Statute – Citation)	**Rel and Appl/Appr/Keep**	**Regulatory Description**	**Screening Rational /Comments**
Chemical Specific			
Drinking Water Regulations (MO Drinking Water Act – 40 RSMo Ch. 644, 10 CSR 60)	**Y / NA / Y**	Provides regulations & MCLs for public water supplies.	The OGV wells are impacted with contaminants in groundwater above the MCL.
Water Quality Standards (10 CSR 20 Ch. 7)	**Y / NA / Y**	Establishes the classifications & standards for all waters of the state.	The Water Quality Standards set forth chemical-specific stds for GW.
Cleanup Levels for Missouri (CALM) (10 CAR 25-15.0101, Rev.06/2001)	**N / N / TBC**	Guidance on developing risk-based clean-up levels at sites with hazardous substance contamination.	Not an ARAR, yet important guidance in Missouri for establishing risk-based clean-up objectives. Retain as a TBC.
Action Specific			
Drinking Water Regulations (MO Drinking Water Act – 40 RSMo Ch. 644, 10 CSR 60)	**Y / NA / Y**	Provides regulations & MCLs for public water supplies.	The OGV wells are impacted with contaminants in groundwater above the MCL.
Water Quality Standards (10 CSR 20 Ch. 7)	**Y / NA / Y**	Establishes the classifications & standards for all waters of the state.	The Water Quality Standards set forth action-specific stds for GW.
Water Pollution Control Regulation (10 CSR 20 Ch. 1-6)	**Y / NA / Y**	Establishes criteria for disposal of wastewater into public treatment facilities.	Applicable for options or technologies that relies on discharge to the POTW.
Well Construction Rules (RSMo 256.600 to 256.64; 10 CSR 23-3.11 & 22-3.110)	**Y / NA / Y**	Sets forth rules & requirements for new & existing wells, including the installation & abandonment of wells.	Applicable to all wells.
Cleanup Levels for Missouri (CALM) (10 CAR 25-15.0101, Rev.06/2001)	**N / N / TBC**	Guidance on developing risk-based clean-up levels at sites with hazardous substance contamination.	Not an ARAR, yet important guidance in Missouri for establishing risk-based clean-up objectives. Retain as a TBC.

Notes:
1. Rel: Relevant
2. Appl: Applicable
3. Appr: Appropriate
4. N: No
5. Y: Yes
6. Poss: Possible
7. TBC: To be considered
8. NA: Not Applicable
9. Keep: Retained as an ARAR or TBC for the detailed analysis of the remedial action alternatives.

Table 3-1: Groundwater Remediation Goals -Future Residential Exposure Scenario
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Contaminant of Potential Concern and Contaminants of Concern[1]	CAS#	MO MCL[2] µg/l	MO WQS[3] µg/l	EPA MCL[4] µg/l	EPA MCLG[4] µg/l	PQL[5] µg/l	Carcinogenic PRG[6] µg/l	Non-Carcinogenic PRG[6] µg/l	Remediation Goal[7] µg/l
1,2,4-Trichlorobenzene	120-82-1	70	70	70	70	0.5		10	70
1,2 Dibromo-3-chloropropane	96-12-8	0.2		0.2	0.048	0 5			0.2
4-Methyl-2-pentanone (MIBK)	108-10-1					0.5		200	200
Acetone	67-64-1					0.5		2,000	2,000
Bromodichloromethane	75-27-4	80	100	80		0.5	0.1	10	80
Chloroform	67-66-3	80	100	80		0.5	10	20	80
Cis-1,2-dichloroethene	156-59-2	70	70	70	70	0.5		5	70
Methane	74-82-8					0.5			N.D.
n-Butylbenzene	104-51-8					0.5		20	20
Toluene	108-88-3	1,000	1,000	1,000	1,000	0.5		100	1,000
Total THMs	NA	80	100	80		0.5			80
Tetrachloroethene (PCE)	127-18-4	5	5	5	0	0.5	0.1	20	5
Trichloroethene (TCE) (provisional)	79-01-6	5	5	5	0	0.5	2	10	5
Trichlorofluoromethane (Freon™-11)	75-69-4					0 5		100	100
Vinyl Chloride	75-01-4	2	2	2	0	0.5	0.04	10	2

Notes:

1. Table taken from "Baseline Human Health Risk Assessment for the Oak Grove Village Well Site," DHSS, June 2005 and the Phase II "Feasibility Study" Benham Corporations, August 2005. The table was modified for the Post Phase II "Feasibility Study, Oak Grove Village Well Site, Oak Grove Village, Missouri" DNR, 2007.
2. State of Missouri Maximum Contaminant Levels for Public Drinking Water -10 CSR 60 Chapter 4.
3. State of Missouri Criteria for Protection of Groundwater Designated Use -10 CSR 20-7.031
4. EPA Maximum Contaminant Levels (MCLs) and Maximum Contaminant Level Goals (MCLGs) -40 CFR 141.
5. Typical Practical Quantitation Level for VOCs -CLP analytical laboratory.
6. Risk-based Preliminary Remediation Goals (PRGs) for both carcinogens and non-carcinogenic effects taken from Appendix F of Baseline Human Health Risk Assessment for the Oak Grove Village Well Site, DHSS, June 2005. Carcinogenic PRGs chosen for FS based on $1x10^{-6}$ risk; non-carcinogenic PRGs based on THQ=0.1.
7. Remediation Goal was determined based on the following methodology -1) the lower of the Missouri MCL, WQS, EPA MCL or non-zero MCLG; 2) If no MCL or WQS values exist, then the lower of the carcinogenic and non-carcinogenic PRGs; 3) If the results of steps 1 or 2 was less than the PQL, the PQL value was substituted.
8. Carcinogenic PRG based on 1x10-6 risk per chemical and non-carcinogenic PRG based on a Hazard Index rating of 0 1 per chemical. TCE PRGs are based on the EPA provisional toxicity values.

9. N.D.: Not determined. One contaminants of potential concern, methane, had no MCL or WQS values, nor were PRGs calculated by the DHSS due to an absence of toxicological data for risk assessment. Therefore, Remediation Goals for these constituents were not determined.

Table 3-2: Groundwater Remediation Goals –
Future Commercial/Industrial Exposure Scenario
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Contaminant of Potential Concern and Contaminants of Concern[1]	CAS#	MO MCL[2] µg/l	MO WQS[3] µg/l	EPA MCL[4] µg/l	EPA MCLG[4] µg/l	PQL[5] µg/l	Carcinogenic PRG[6] µg/l	Non-Carcinogenic PRG[6] µg/l	Remediation Goal[7] µg/l
1,1,1 -Trichloroethane	71-55-6	200	200	200	200	0.5		400	200
1,2 Dibromo-3-chloropropane	96-12-8	0.2		0.2	0.048	0.5			0.2
4-Methyl-2-pentanone (MIBK)	108-10-1					0.5		300	300
Acetone	67-64-1					0.5		3,000	3,000
Bromodichloromethane	75-27-4	80	100	80		0.5	0.2	20	80
Chloroform	67-66-3	80	100	80		0.5	10	30	80
cis-1,2-Dichloroethene	156-59-2	70	70	70	70	0.5		10	70
Methane	74-82-8					0.5			N.D.
n-Butylbenzene n-	104-51-8					0.5		30	30
Propylbenzene	103-65-1					0.5		10	10
Toluene	108-88-3	1,000	1,000	1,000	1,000	0.5		100	1,000
Total THMs	NA	80	100	80		0.5			80
Tetrachloroethene (PCE)	127-18-4	5	5	5	0	0.5	0.2	30	5
Trichloroethene (TCE) (provisional)	79-01-6	5	5	5	0	0.5	4	30	5
Trichlorofluoromethane (Freon™ 11)						0.5		200	200
Vinyl Chloride	75-01-4	2	2	2	0	0 5	0 04	10	2

Notes:

1. Table taken from "Baseline Human Health Risk Assessment for the Oak Grove Village Well Site," DHSS, June 2005 and the Phase II "Feasibility Study" Benham Corporations, August 2005. The table was modified for the Post Phase II "Feasibility Study, Oak Grove Village Well Site, Oak Grove Village, Missouri" DNR, 2007.
2. State of Missouri Maximum Contaminant Levels for Public Drinking Water -10 CSR 60 Chapter 4.
3. State of Missouri Criteria for Protection of Groundwater Designated Use -10 CSR 20-7.031.
4. EPA Maximum Contaminant Levels (MCLs) and Maximum Contaminant Level Goals (MCLGs) -40 CFR 141.
5. Typical Practical Quantitation Level for VOCs -CLP analytical laboratory.
6. Risk-based Preliminary Remediation Goals (PRGs) for both carcinogens and non-carcinogenic effects taken from Appendix F of Baseline Human Health Risk Assessment for the Oak Grove Village Well Site, DHSS, June 2005. Carcinogenic PRGs chosen for FS based on $1x10^{-6}$ risk; non-carcinogenic PRGs based on THQ=0.1.

7. Remediation Goal was determined based on the following methodology -1) the lower of the Missouri MCL, WQS, EPA MCL or non-zero MCLG; 2) If no MCL or WQS values exist, then the lower of the carcinogenic and non-carcinogenic PRGs; 3) If the results of steps 1 or 2 was less than the PQL, the PQL value was substituted.

8. Carcinogenic PRG based on 1x10-6 risk per chemical and non-carcinogenic PRG based on a Hazard Index rating of 0.1 per chemical. TCE PRGs are based on the EPA provisional toxicity values.

9. N.D.: Not determined. One contaminant of potential concern, methane, had no MCL or WQS values, nor were PRGs calculated by the DHSS due to an absence of toxicological data for risk assessment. Therefore, Remediation Goals for these constituents were not determined.

Table 3-3 : Initial Screening of Technologies and Process Options for *Groundwater*
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

General Response Actions	Technology Types	Process Options	Description	Technical Feasibility Screening Comments
No Action	None	Not Applicable	Not applicable.	Required for consideration by National Contingency Plan (NCP).
Institutional Actions	Access Controls	Deed Restrictions	Deeds for property in the impacted area would include restrictions on well use.	Feasible. State may place a "restrictive covenant on use and activity" in the property deed.
		Deed Notices	Notice placed on property deed stating that groundwater is impacted.	Feasible. State may require notice to be placed on property deed.
		Site Security	Provides security through fences or security guards to prevent access to wells.	Not feasible. Groundwater contamination is widespread.
		Warning Signs	Signs can be posted at water usage locations stating that water is not usable for domestic purposes.	Limited feasibility. Only feasible for those wells used for non-domestic applications, e.g., commercial/industrial wells.
		Remove Water Fountains/Faucets	Drinking fountains and faucets used to distribute water can be removed.	Limited feasibility. Only feasible for those wells used for non-domestic applications, e.g., commercial/industrial wells.
	Land Use Restrictions	Zoning, Local Permits, Ordinances	Local control of land use restricting the drilling of new wells or the use of existing impacted wells.	Technically feasible to control land use for municipal wells and commercial/industrial wells, however, alternate water supply may not be available Not feasible for private wells.
	Well Plugging	Cement Injection	Well(s) are plugged using cement injection to meet state requirements for plugging and abandonment.	Technically feasible for OGV01 due to age and deterioration of well. May be feasible for other wells.
	Environmental Monitoring	Groundwater Monitoring	On-going monitoring of municipal, private, and/or commercial/industrial wells through collection and testing of groundwater samples.	Technically feasible; however, monitoring will not reduce contaminant impacts in wells.

Table 3-3 : Initial Screening of Technologies and Process Options for *Groundwater*
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

General Response Actions	Technology Types	Process Options	Description	Technical Feasibility Screening Comments
	Alternate Water Supply	OGV or Sullivan	Purchase water from OGV or Sullivan for use by private residential well users and/or commercial/industrial well users with groundwater exceeding RGs.	Technically feasible. Water distribution lines would require installation to transfer water
		Rural Supply	Connect private well users to water supply from another portion of the aquifer. Would require the drilling of a well, treatment on the well, and demonstration of financial stability by Rural Water District owner.	Potentially feasible. Widespread aquifer contamination in the vicinity of OGV will affect drilling of new wells.
		Surface Water Source	Obtain water from surface water source and pipe to OGV and/or private users.	Potentially feasible. Closest usable surface water is located in the Meramec River.
		Bottled Water	Provide bottled water to users that have drinking water above remediation goals.	Feasible for drinking and cooking water. Not feasible for water used for other purposes, such as bathing and washing.
Wellhead Treatment	Physical Treatment of Water	Ion Exchange	Contaminated water is passed through a resin bed where ions are exchanged between resin and water.	Not applicable since this is employed to remove inorganic contaminants (e.g., metals) from water Inorganic contaminants are not COCs.
		Oil-Water Separator	Separation technique that utilizes the density difference between organic contaminants and water.	Not feasible since COCs are dissolved in groundwater and there is not phase separation
		Membrane Pervaporation/Reverse Osmosis	Membrane pervaporation uses permeable membranes that preferentially adsorb VOCs from contaminated water. Reverse osmosis uses high pressure to force water through membrane.	Potentially feasible on a large scale treatment system. Not considered feasible for individual private wells.

Table 3-3: Initial Screening of Technologies and Process Options for *Groundwater*
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

General Response Actions	Technology Types	Process Options	Description	Technical Feasibility Screening Comments
		Air Stripping	Mixing large volumes of air with water in a packed column to promote transfer of VOCs to air.	Potentially feasible on a large scale treatment system. Not considered feasible for individual private wells.
		Steam Stripping	Mass transfer process in which VOCs in water are transferred to gas using steam to increase the driving force.	Not feasible since no steam source is readily available
		Distillation	Separations process involving vaporization and condensation that is used to separate components of varying vapor pressures in a liquid or gas stream.	Potentially feasible on a large scale treatment system. Not considered feasible for individual private wells.
		Filtration	Physical process where suspended solids are removed from solution by forcing the fluid through a porous medium.	Not feasible for dissolved COCs.
		Liquid Phase Carbon Adsorption	Adsorption of contaminants onto activated carbon by passing water through carbon column.	Technically feasible for low volumes of water; however, not feasible for municipal well treatment due to large volumes of water requiring treatment This is the current treatment method being employed by some private residential well users

Table 3-3 : Initial Screening of Technologies and Process Options for *Groundwater*
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

General Response Actions	Technology Types	Process Options	Description	Technical Feasibility Screening Comments
	Biological Treatment of Water	Rotating Biological Contactors	Degradation of organics using microorganisms in an aerobic environment.	Not technically feasible. Relatively low concentrations of organics in groundwater would probably not support adequate biological growth.
	Chemical Treatment of Water	UV Oxidation	Destruction of organic contaminants by oxidation with ozone or hydrogen peroxide in presence of ultraviolet	Potentially feasible.
		Precipitation	Alteration of chemical equilibria to reduce solubility of the contaminants.	Not feasible since this is employed to remove inorganic contaminants (e.g., metals) from water. Inorganic contaminants are not COCs.
	Vapor Treatment	Vapor Phase Carbon Adsorption	Vapor phase VOCs removed from water are run through activated carbon for collection.	Technically feasible. Only necessary if air regulations would be exceeded during water treatment.
		Thermal Oxidation	Vapor phase VOCs removed from water are destroyed in a thermal oxidizer.	Technically feasible. Only necessary if air regulations would be exceeded during water treatment.
		Catalytic Oxidation	Vapror phase VOCs are thermally destroyed at temperatures typically ranging from 600 to 1,000 °F by using a solid catalyst.	Potentially feasible. Relatively new alternative technology. Only necessary if air regulations would be exceeded during water treatment.

Table 3-3: Initial Screening of Technologies and Process Options for *Groundwater*
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

General Response Actions	Technology Types	Process Options	Description	Technical Feasibility Screening Comments
In-Situ Treatment	Physical/ Biological/ Chemical Treatment	Bioreclamation	System of injection and extraction wells used to introduce bacteria and nutrients to degrade organics in groundwater.	Not feasible due to depth and breadth of groundwater contamination and complex karst geology.
		Air Sparging	Injection of gas (usually air or oxygen) under pressure into wells installed within the saturated zone to volatilize contaminants dissolved in groundwater.	Not feasible due to depth and breadth of groundwater contamination and complex karst geology.
		Reactive Barrier	Reactive barriers using zero-valent iron have proven effective for treatment of dissolved phase plumes of some chlorinated solvents, notably TCE.	Not feasible due to depth and breadth of groundwater contamination and complex karst geology.
		In-Well Stripping	Contaminated water is pumped into well where it undergoes air sparging by pumping air from the surface, removing the contaminants by volatilization within the well casing, then pumping the water back out of the well.	Not feasible due to depth and breadth of groundwater contamination and complex karst geology.
		Monitored Natural Attenuation	Continued groundwater monitoring until contaminants are below remediation goals.	Will not achieve RAOs in the near term. Groundwater sampling in the area has not indicated any sign of natural attenuation

Indicates the options that have been eliminated

Table 3-4: Evaluation of Process Options for *Groundwater*
Feasibility Study
Oak Grove Village Well Site
Oak Grove Village, Missouri

General Response Actions	Technology Types	Process Options	Effectiveness	Implementability	Cost
No Action	None	Not Applicable	Does not achieve RAOs, but retained for comparison.	Easily implementable.	No capital; no O&M.
Institutional Controls	Access Controls	Deed Restrictions	May be effective for commercial/industrial wells; does not achieve RAOs for wells needed for domestic purposes.	Easily implementable.	Low capital; no O&M.
		Deed Notices	May be effective for commercial/industrial wells; does not achieve RAOs for wells needed for domestic purposes.	Easily implementable.	Low capital; no O&M.
		Warning Signs	May be effective for commercial/industrial wells; does not achieve RAOs for wells needed for domestic purposes.	Easily implementable.	Low capital; low O&M
		Remove Water Fountains/Faucets	May be effective for commercial/industrial wells; does not achieve RAOs for wells needed for domestic purposes.	Easily implementable.	Low capital, no O&M.
	Land Use Restrictions	Zoning, Local Permits, Ordinances	Not effective in achieving RAOs; therefore, eliminated.	Implementable.	Low capital, low O&M
	Well Plugging	Cement Injection	Effective means of removing non-usable wells from service; does not achieve RAOs for other wells.	Implementable.	Medium capital; no O&M.
	Environmental Monitoring	Groundwater Monitoring	Effective means of monitoring the quality of groundwater for compliance with RGs.	Implementable.	Low capital; medium O&M.

Table 3-4: Evaluation of Process Options for *Groundwater*
Feasibility Study
Oak Grove Village Well Site
Oak Grove Village, Missouri

General Response Actions	Technology Types	Process Options	Effectiveness	Implementability	Cost
	Alternate Water Supply	OGV or Sullivan	Effective means of obtaining existing water supply that meets RGs.	Implementable. Water distribution lines would be required for water transmission to homes and businesses outside city limits.	High capital; no O&M
		Rural Supply	Would require the drilling of a new well and the addition of wellhead treatment as well as the building of water distribution lines.	May be administratively difficult to implement due to requirements for setup of a rural water district, including the demonstration of financial stability; therefore, eliminated.	Very high capital; medium O&M.
		Surface Water Source	Effective means of connecting private users to a domestic water supply that meets RAOs.	Difficult to implement; reservoir and water treatment not currently available; therefore, eliminated.	Very high capital, high O&M.
		Bottled Water	Effective for providing drinking water only, but not effective for supplying sufficient volumes of water for other domestic purposes; therefore, eliminated.	Implementable.	Low capital, low O&M
In-Situ Treatment	Physical/ Biological/ Chemical Treatment	Monitored Natural Attenuation	Continued groundwater monitoring until contaminants are below remediation goals.	Implementable.	Low capital; low O&M.

Table 3-4: Evaluation of Process Options for *Groundwater*
Feasibility Study
Oak Grove Village Well Site
Oak Grove Village, Missouri

General Response Actions	Technology Types	Process Options	Effectiveness	Implementability	Cost
Wellhead Treatment	Physical Treatment of Water	Membrane Pervaporation/ RO	Potentially effective in removing contaminants in the liquid phase to meet RGs. Not effective for individual private wells.	Possibly implementable on large scale; however, not included in "control alternatives" list from the Missouri Public Drinking Water Program; therefore, eliminated.	High capital; low O&M.
		Air Stripping	Proven effective in removing contaminants in the liquid phase to meet RGs. Not effective for individual private wells.	Implementable; proven technology for removal of VOCs; off-gases my require treatment; process energy costs may be high. Included on "control alternatives" list from the Missouri Public Drinking Water Program.	Medium capital; medium O&M.
		Distillation	Potentially effective in removing contaminants in the liquid phase to meet RGs. Not effective for individual private wells.	Distillation units must have adequate space for set up and a heat source to vaporize contaminants. Not included in "control alternatives" list from the Missouri Public Drinking Water Program; therefore, eliminated.	High capital; medium O&M.
		Liquid Phase Carbon Adsorption	May be effective in removing contaminants in the liquid phase to meet RGs; multiple contaminants can impact process performance.	Implementable; carbon must be new, not regenerated, which increases O&M cost. Included on "control alternatives" list from the Missouri Public Drinking Water Program.	Medium capital; high O&M.

Table 3-4: Evaluation of Process Options for *Groundwater*
Feasibility Study
Oak Grove Village Well Site
Oak Grove Village, Missouri

General Response Actions	Technology Types	Process Options	Effectiveness	Implementability	Cost
	Chemical Treatment of Water	UV Oxidation	Potentially effective in removing contaminants in the liquid phase to meet RGs. Not effective for individual private wells.	Possibly implementable; however, not included in "control alternatives" list from the Missouri Public Drinking Water Program; therefore, eliminated.	Medium capital; medium O&M.
	Vapor Treatment	Vapor Phase Carbon Adsorption	Effective in removing vapor phase organic contaminants. Only necessary if air regulations during water treatment are exceeded.	Implementable; proven technology for removal of VOCs from vapor phase; carbon must be regenerated when it is spent.	Medium capital; medium O&M.
		Thermal Oxidation	Effective in destroying vapor phase organic contaminants.	Implementable.	High capital; high O&M; therefore, eliminated.
		Catalytic Oxidation	Effective in destroying vapor phase organic contaminants.	Implementable.	High capital; high O&M; therefore, eliminated.

▨ Indicates the options that have been eliminated

Table 4-1: Response Actions -Group M1: OGV01 well
Feasibility Study
Oak Grove Village Well Site
Oak Grove Village, Missouri

Group M1: OGV01 well **Process Options**	**RA 1** **No Action**	**RA 2** **Educational Materials**	**RA 3** **Plug & Abandon**	**RA 4** **Groundwater Monitoring**	**RA 5** **Treatment at Wellhead**	**RA 6** **Alternative Water Supply**	**RA 7** **O/M* of Air Stripper**
Deed Restriction Deed Notice Warning Signs							
Remove Water Fountains/Faucets Well Plugging Groundwater Monitoring			X				
Alternative Water Supply – City Water Air Stripping Liquid Phase Carbon Adsorption							
Vapor Phase Carbon Adsorption Educational Materials		X					
Comments:	No process options, retained per NCP.	Materials as requested.	Effective – Well integrity is poor.	Not applicable – New well has been drilled.	Not applicable – New well has been drilled	Not applicable – New well has been drilled	Not applicable – New well has been drilled

Notes:

1. RA: Response Action
2. O/M* = Operation/Monitoring
3. Groups:
   M1: OGV01 well
   M2: Residential Wells
   M3: Commercial/Industrial wells
4. X: Process option was selected for this response action (RA).

Table 4-2: Response Actions -Group M2: Residential Wells
Feasibility Study
Oak Grove Village Well Site
Oak Grove Village, Missouri

Group M2: Residential Wells Process Options	**RA 1 No Action**	**RA 2 Educational Materials**	**RA 3 Plug & Abandon**	**RA 4 Groundwater Monitoring**	**RA 5 Treatment at Wellhead**	**RA 6 Alternative Water Supply**	**RA 7 O/M* of Air Stripper**
Deed Restriction Deed Notice Warning Signs							
Remove Water Fountains/Faucets Well Plugging Groundwater Monitoring				X			
Alternative Water Supply – City Water Air Stripping Liquid Phase Carbon Adsorption					X	X	
Vapor Phase Carbon Adsorption Educational Materials		X					
Comments:	No process options, retained per NCP.	Materials as requested.	Not effective. Wells needed for residential water supply.	Effective in monitoring status of water quality	Effective in protecting human health	Effective in protecting human health	Not applicable for residential wells

Notes:

1. RA: Response Action
2. O/M* = Operation/Monitoring
3. Groups:
   M1: OGV01 well
   M2: Residential Wells
   M3: Commercial/Industrial wells
4. X: Process option was selected for this response action (RA).

Table 4-3: Response Actions -Group M3: Commercial/Industrial Wells
Feasibility Study
Oak Grove Village Well Site
Oak Grove Village, Missouri

Group M3: Commercial/Industrial Wells Process Options	**RA 1 No Action**	**RA 2 Institutional Controls**	**RA 3 Plug & Abandon**	**RA 4 Groundwater Monitoring**	**RA 5 Treatment at Wellhead**	**RA 6 Alternative Water Supply**	**RA 7 O/M* of Air Stripper**
Deed Restriction Deed Notice Warning Signs							
Remove Water Fountains/Faucets Well Plugging Groundwater Monitoring				X			
Alternative Water Supply – City Water Air Stripping Liquid Phase Carbon Adsorption					X	X	
Vapor Phase Carbon Adsorption Educational Materials		X					
Comments:	No process options retained per NCP.	Materials as requested.	Not effective. Wells needed for Commercial / Industrial water supply	Effective in monitoring status of water quality	Effective in protecting human health	Effective in protecting human health	Not applicable for Commercial / Industrial wells

Notes:

1. RA: Response Action
2. O/M* = Operation/Monitoring
3. Groups:
   M1: OGV01 well
   M2: Residential Wells
   M3: Commercial/Industrial wells
4. X: Process option was selected for this response action (RA).

Table 4-4: Remedial Action Alternatives for Groundwater
Feasibility Study
Oak Grove Village Well Site
Oak Grove Village, Missouri

Response Actions	**Alternative I No Action**	**Alternative II Treatment at Private Wellheads and GW Monitoring**	**Alternative III Alternative Water Supply/Treatment at Private Wellheads and GW Monitoring**	**Alternative IV Treatment at Private Wellheads, GW Monitoring, and O/M of Air Stripper**	**Alternative V Alternative Water Supply/Treatment at Private Wellheads, GW Monitoring and O/M of Air Stripper**
(1) No Action	All Groups	All Groups	All Groups	All Groups	All Groups
(2) Educational Materials		M1, M2, M3	M1, M2, M3	M1, M2, M3, M5	M1, M2, M3, M5
(3) Plug and Abandon		M1	M1	M1	M1
(4)Groundwater (GW) Monitoring		M2, M3	M2, M3	M2, M3	M2, M3
(5) Treatment at Wellhead		M2, M3	M2, M3	M2, M3, M5	M2, M3, M5
(6) Alternative Water Supply – City Water			M2, M3		M2, M3
(7) Operation/Monitoring (O/M) of Air Stripper				M5	M5
Comments	No Action. Required by NCP.	Treat all GW above RGs. Monitor others.	Alternative water supply or treat all GW above RGs. Monitor others.	Same as Alt. II, except add O/M of OGV02 Air Stripper.	Same as Alt. III, except add O/M of OGV02 Air Stripper

Notes:

1. Groups:
   M1: OGV01
   M2: Residential Wells
   M3: Commercial/Industrial Wells
   M5: Air Stripper on OGV02
2. GW = Groundwater
3. O/M = Operation/Monitoring

Table 5-1: Nine Evaluation Criteria for Detailed Analysis of Alternatives
Feasibility Study
Oak Grove Village Well Site
Oak Grove Village, Missouri

Threshold Criteria

1. Overall protection of human health and the environment
2. Compliance with ARARs

Primary Balancing Criteria

3. Long-term effectiveness and permanence
4. Reduction of toxicity, mobility, or volume through treatment
5. Short-term effectiveness
6. Implementability
7. Costs

Modifying Criteria

8. State (or support agency) acceptance
9. Community acceptance

Table 5-2: Documentation of ARARs for Groundwater
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Federal Regulation (Statute – Citation)	**Alternative I**	**Alternative II**	**Alternative III**	**Alternative IV**	**Alternative V**
National Primary Drinking Water Standards (Safe Drinking Water Act – 40 CFR 141, Subpart B)	Does not meet this ARAR.	Meets ARAR by providing drinking water that meets standards.	Meets ARAR by providing drinking water that meets standards.	Meets ARAR by providing drinking water that meets standards.	Meets ARAR by providing drinking water that meets standards.
Clean Air Act (42 USC 7401-7671; 40 CFR 50 and 61)	Not applicable. Contaminant levels not expected to exceed CAA Standards.	Not applicable. Contaminant levels not expected to exceed CAA Standards.	Not applicable. Contaminant levels not expected to exceed CAA Standards.	Not applicable. Contaminant levels not expected to exceed CAA Standards.	Not applicable. Contaminant levels not expected to exceed CAA Standards
Occupational Health & Safety Act (OSHA Construction Standards – 29 CFR 1926; OSHA General Industry Standards 29 CFR 1910)	Not applicable. No action taken.	Applicable. Workers implementing remedy will be required to follow these standards	Applicable Workers implementing remedy will be required to follow standards.	Applicable Workers implementing remedy will be required to follow standards	Applicable Workers implementing remedy will be required to follow standards.
NPDES Clean Water Act – 40 CFR 122)	Not applicable. No surface water discharge.	Not applicable. No surface water discharge.	Not applicable. No surface water discharge.	Not applicable. No surface water discharge.	Not applicable. No surface water discharge.
State Regulation (Statute – Citation)					
Drinking Water Regulations (MO Drinking Water Act – 40 RSMo Ch. 644, 10 CSR 60)	Does not meet this ARAR.	Meets ARAR by providing drinking water that meets standards.	Meets ARAR by providing drinking water that meets standards.	Meets ARAR by providing drinking water that meets standards.	Meets ARAR by providing drinking water that meets standards.
Water Quality Standards (10 CSR 20 Ch. 7)	Not applicable. No surface water discharge.	Not applicable. No surface water discharge.	Not applicable. No surface water discharge.	Not applicable. No surface water discharge.	Not applicable. No surface water discharge.
Wildlife Code of Missouri (3 CSR 10-4.111)	Not applicable. No recorded endangered species in OU1.	Not applicable. No recorded endangered species in OU1.	Not applicable. No recorded endangered species in OU1.	Not applicable. No recorded endangered species in OU1.	Not applicable. No recorded endangered species in OU1
Cleanup Levels for Missouri (CALM) (10 CAR 25-15.0101, Rev.06/2001)	Does not meet this TBC for groundwater.	Will provide water that meets the TCE Tier 1 concentration of 5 ppb.	Will provide water that meets the TCE Tier 1 concentration of 5 ppb.	Will provide water that meets the TCE Tier 1 concentration of 5 ppb.	Will provide water that meets the TCE Tier 1 concentration of 5 ppb.
Water Pollution Control Regulation (10 CSR 20 Ch 1-6)	Not applicable. No discharge to POTW.	Not applicable. No discharge to POTW.	Not applicable. No discharge to POTW	Not applicable. No discharge to POTW	Not applicable. No discharge to POTW
Well Construction Rules (RSMo 256.600 to 256 64; 10 CSR 23-3 11 & 22-3 110)	Not applicable. No wells constructed.	Not applicable. No wells constructed.	Not applicable. No wells constructed.	Not applicable. No wells constructed.	Not applicable. No wells constructed.

Table 6-1: Comparative Analysis of Remedial Action Alternatives
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Criteria	Alternative I No Action	Alternative II Treatment at Private Wellheads and Groundwater Monitoring	Alternative III Alternate Water Supply/ Treatment at Private Wellheads and Groundwater Monitoring	Alternative IV Treatment at Private Wellheads, Groundwater Monitoring, and Operation / Monitoring of Air Stripper	Alternative V Alternate Water Supply / Treatment at Private Wellheads, Groundwater Monitoring, and Operation / Monitoring of Air Stripper
Overall Protection of Human Health and the Environment	No improvement in overall protection of human health and the environment from current conditions.	Provides protection for current and future receptors of groundwater that exceed RGs.	Provides protection for current and future receptors of groundwater that exceed RGs	Provides protection for current and future receptors of groundwater that exceed RGs	Provides protection for current and future receptors of groundwater that exceed RGs
Compliance with ARARs and TBCs.	Does not comply with all ARARs or TBCs	Complies with all ARARs and TBCs	Complies with all ARARs and TBCs.	Complies with all ARARs and TBCs	Complies with all ARARs and TBCs
Long-term Effectiveness and Permanence	Provides no long-term effective or permanent solution since no remedial action is implemented	Carbon in treatment units must be changed at periodic intervals to maintain effectiveness	Alternate water supply is a very effective and permanent source of water that meets RGs.	Carbon in treatment units must be changed at periodic intervals to maintain effectiveness.	Alternate water supply is a very effective and permanent source of water that meets RGs.
Reduction of Toxicity, Mobility or Volume Through Treatment	There would be no reduction of toxicity, mobility or volume through either treatment or containment.	The toxicity and volume of contamination in GW would be reduced through the use of treatment.	The toxicity and volume of contamination in GW would be reduced through the use of treatment	The toxicity and volume of contamination in GW would be reduced through the use of treatment.	The toxicity and volume of contamination in GW would be reduced through the use of treatment.
Short-term Effectiveness	No short-term risks to community or workers	There are no additional risks to the community, workers or the environment expected from this alternative	Heavy construction work would be required for installation of water distribution lines; however, with proper precautions no additional risk is expected.	There are no additional risks to the community, workers or the environment expected from this alternative	Heavy construction work would be required for installation of water distribution lines; however, with proper precautions no additional risk is expected.
Implementability	No implementation required.	Installation of carbon units considered easily implementable.	Installation of water distribution lines would require the necessary land access agreements, is considered easily implementable	Installation of carbon units and considered easily implementable.	Installation of water distribution lines would require the necessary land access agreements, is considered easily implementable.
Capital Costs	$0	$39,703	$327,916	$39,703	$327,916
O&M Costs	$0	$1,353,000	$1,563,000	$1,454,010	$1,664,010
Periodic Costs	$300,000	$300,000	$300,000	$300,000	$300,000
Total Costs	$300,000	$1,692,703	$2,190,916	$1,793,713	$2,291,926
Present worth	$107,800	$707,149	$1,082,225	$748,930	$1,124,006

FIGURES

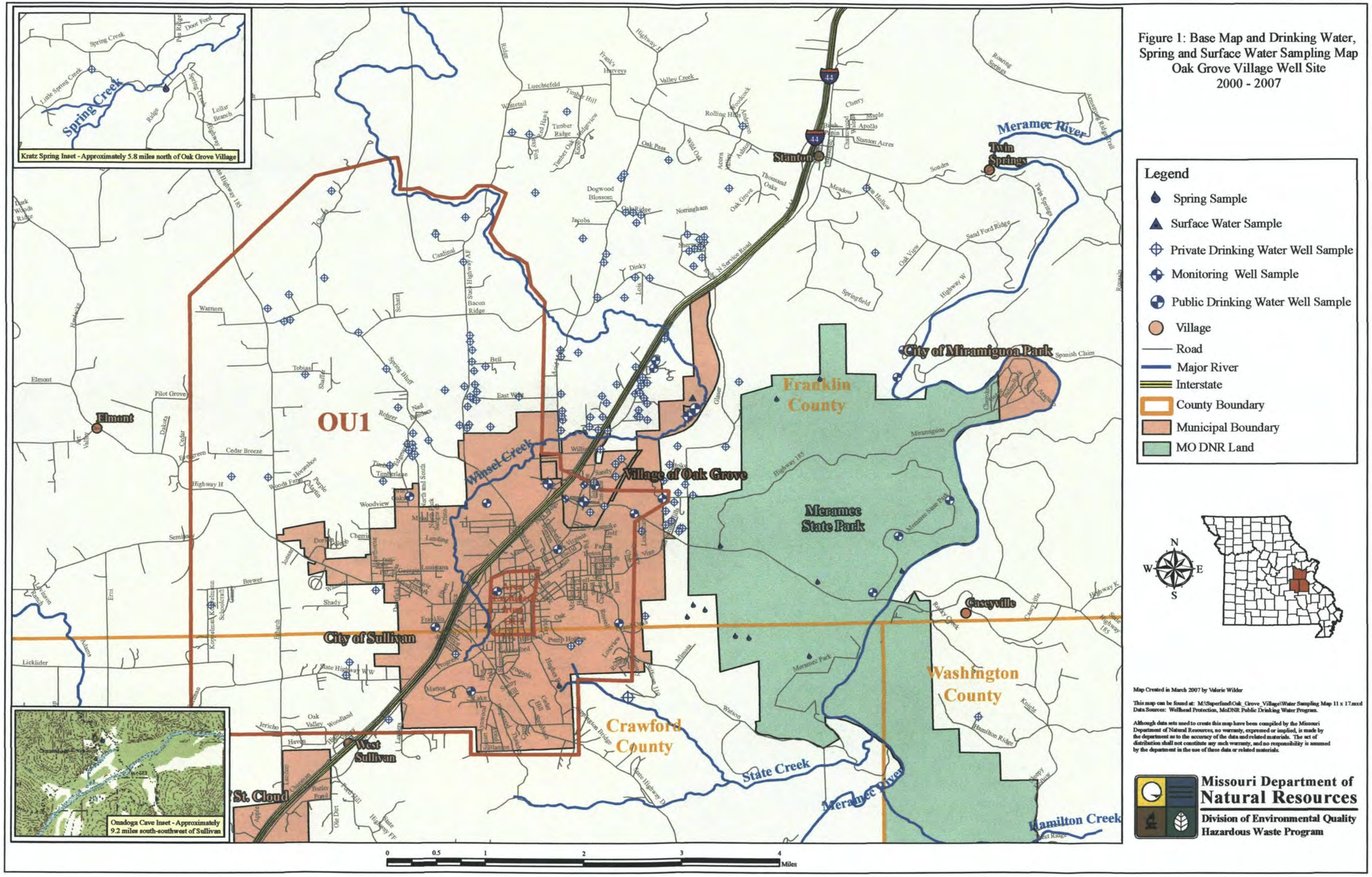

Figure 1: Base Map and Drinking Water, Spring and Surface Water Sampling Map
Oak Grove Village Well Site
2000 - 2007

APPENDIX A

Table B-1: Back-Up Cost Information for Response Action 1
No Action
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Periodic Cost
5-Year Reviews	$50,000
Subtotal	$300,000
Total of All Components	$300,000

Cost Type	Year	Total Cost	Discount Factor (%)	Present Value
Periodic Cost*	5	$50,000	0.713	$35,650
Periodic Cost*	10	$50,000	0.508	$25,400
Periodic Cost*	15	$50,000	0.362	$18,100
Periodic Cost*	20	$50,000	0.258	$12,900
Periodic Cost*	25	$50,000	0.184	$9,200
Periodic Cost*	30	$50,000	0.131	$6,550
		$300,000		$107,800

Notes:
Per the EPA, Region VII, the cost of conducting a 5-year review is $50,000.

Table B-2: Back-Up Cost Information for Response Action 2
Educational Materials
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Total Capital Cost
Educational Materials	$5,000
Subtotal	$5,000
Total of All Components	$5,000

Notes:
As part of the educational outreach, it is the cost of the development and distribution of educational material to well owners and to individuals applying for permits to drill new wells within the impacted area.

Table B-3: Back-Up Cost Information for Response Action 3
Plug and Abandon OGV01
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Total Capital
Well abandonment	$18,750
Contingency (10%)	$1,875
Subtotal	$22,625
10% Monitory adjustment	$2,063
Subtotal	$22,688
12.409% Monitory adjustment	$2,815
Total of All Components	$25,503

Notes:
See attached cost estimate from Layne-Western dated June 16, 2005 and add 25%.

Calculations: $18,750 x10% (contingency) = $20,625 x 10% (monitory adjustment) = $22,688 x 12.409% (monitory adjustment) = $25,503

Layne-Western *a division of Layne Christensen Company*
2399 Cassens Drive • Fenton (St. Louis), Missouri 63026-2502 • (636) 343-3700 • Fax: (636) 343-4614

June 16, 2005

Via Fax

Ms. Lisa Lihane
The Benham Companies
Oklahoma City Office

RE: ENVIRONMENTAL DRILLING SERVICES
Oak Grove Site - City Well Abandonment
Oak Grove, Missouri

Dear Ms. Lihane:

In accordance with your request, Layne-Western, a division of Layne Christensen Company is pleased to provide a estimated cost for the abandonment of the City well.

Per our conversation the scope of work abandonment of the City well by grouting the full length. Layne will tremie grout the full length of the well. If voids are encountered and we experience grout loss, we will need to utilize bentonite chips to fill through the grout loss zones. The well will be filled to the surface and finished at floor level. During grouting of the well the water displaced with grout will be directed/pumped to the outside of the office. he installation of 4 open hole completion monitor wells.

The estimated cost for this task is $18,750.00

Layne appreciates the opportunity to provide this proposal and looks forward to providing The Benham Companies with environmental drilling services. Please feel free to contact us if you have any questions.

Sincerely,

LAYNE-WESTERN
a division of Layne Christensen Co.

David C. Meyer, P.G.
District Manager

Table B-4: Back-Up Cost Information for Response Action 4
Groundwater Monitoring
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Units	Required Unit	Units Rate	Estimated Cost
Groundwater Monitoring Labor	Hours	110	$58	$6,380
Analytical Cost for VOCs	Sample	110	$95	$10,450
Supplies	Lump	1	$250	$250
Transportation	Day	2	$200	$400
Groundwater Subtotal				$17,480
Contingency (10%)			$1,106	$1,748
Additional Contingency (10%)			$1,922	$1,922
Total per event				$21,200
Total of All Components				$42,400

Notes:
1. Total Cost per sampling event of $21,150 rounded up to $21,200.
2. Groundwater analytical assumes sampling of 98 wells plus two blanks and ten duplicates for a total of 110 VOC samples. Costs include equipment, analytical, and report. Assume 2 events/year.

Special Note: The Capital Cost for this Action includes the well survey and the development of the well inventory for groundwater monitoring for OU1.

Table B-5: Back-Up Cost Information for Response Action 5
Treatment at Wellhead
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Units	Unit Required	Unit Rate	Capital Cost	O&M Cost/Year
Installation of Carbon Units	Wells	2	$1,750	$3,500	$0
Rebedding of Carbon Units	Wells	4	$500		$2,000
Subtotal				$3,500	$2,000
Contingency (20%)			$1,106	$700	$700
Total of All Components				$4,200	$2,700

Notes:
Costs provided by Schaffer Water Centers for confined tank with quick disconnects (2 fiberglass tanks; 1.5 cu ft of carbon in each tank). Assumes two wells receive new unit and wells require 2 changes/year.

Table B-6: Back-Up Cost Information for Response Action 6
Alternative Water Supply
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Units	Unit Required	Unit Rate	Capital Cost	O&M Cost/Year
Sullivan Main to Residents or Commercial/Industrial	Lump	1		$131,664	$0
Service Connects		20		$82,000	$0
Monthly Water Usage Charge	Connections	20	$30.00	$0	$6,000
Subtotal				$213,664	$6,000
Contingency (20%)				$42,733	$1,000
Monitory adjustment (12.409%)				$31,816	$0
Total of All Components				$288,213	$7,000

Notes:
The amount the City charges for water is the cost of O&M for the system. Sullivan cited a cost of $0.20 per 100 gallons with an average water usage was estimated as 400 gpd for residences. The average residential connection's share of O&M for the supply system would be $1.00 per day or $30.00 per month. Multiply this times the number of estimated connections multiplied by 12 months to get yearly O&M.

Calculations: $256,397 x 12.409% (monitory adjustment) = $288,213

Water Provided from Municipal System:
1. Sullivan Main to Highway AF Residences and Service Connects
2. Residential Service Connects

Item	Quality	Units	Unit Cost ($)	Cost ($)
6-in main (HDPE pipe & assembly	8,000	Feet	11.58	92,640
Trench & backfill	8,000	Feet	1.428	11,424
Horizontal bore for creek crossing	1	Lump sum	6,000	6,000
Horizontal bore for road crossing	6	Lump sum	3,600	21,600
Total				131,664

Item	Quality	Units	Unit Cost ($)	Cost ($)
2-in pipe incl. installation	13,000	Feet	4.00	52,000
Tap, meter, & connection	20	Lump sum	1,500	30,00
Total				82,000

Table B-7: Back-Up Cost Information for Response Action 7
Operation & Monitoring of OGV02 Air Stripper
Feasibility Study
Oak Grove Village Well Site, OU1
Oak Grove Village, Missouri

Component	Units	Required Unit	Units Rate	Estimated Cost/Year
Groundwater Monitoring Labor	Hours	24	$58	$1,392
Analytical Cost for VOCs	Sample	10	$95	$950
Supplies	Lump	1	$250	$250
Transportation	Day	2	$200	$400
Groundwater Subtotal				$2,995
Contingency (12.409%)			$372	$372
Total/Year				$3,367

Notes:

Groundwater analytical assumes sampling of 20 wells plus two blanks and two duplicates for a total of 24 VOC samples. Costs include equipment, analytical, and report. Assume 2 independent (not part of semi-annual sampling) events/year. Two events will be included in the semi-annual GW monitoring.