TRICORE ENVIRONMENTAL, LLC

June 16, 2009

VIA USPS PRIORITY MAIL WITH DELIVERY CONFIRMATION

Mr. Brian Bauer
Illinois Environmental Protection Agency
Bureau of Land #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

RE: LPC No. 0971855024 – Lake County Wauconda/Shivam Energy, Inc. 399 West Liberty Street IEMA Incident Nos. 892744 and 903199 LUST TECHNICAL FILE

Dear Mr. Bauer:

TriCore Environmental, LLC, on behalf of Shivam Energy, Inc., is providing an original and one copy of an Illinois Environmental Protection Agency Leaking Underground Storage Tank Program Amended Corrective Action Plan and Budget for the above referenced Illinois Emergency Management Agency incident numbers.

If you should have any questions concerning this submittal or require additional information, please contact either of the undersigned at (630) 520-9973.

Sincerely,

Marcos I. Czakó, P.G.

Project Manager

Shawn Rodeck, P.E.

President

cc: Mr. Rajani Patel, Shivam Energy, Inc., 399 W. Liberty St., Wauconda, IL 60084 Ms. Jackie D. Soccorso, Village of Wauconda, 109 W. Bangs St., Wauconda, IL 60084 Ms. Gwen Carey, 363 W. Bangs St., Wauconda, IL 60084

Attachment

TRICORE ENVIRONMENTAL, LLC

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY LEAKING UNDERGROUND STORAGE TANK SECTION AMENDED CORRECTIVE ACTION PLAN

Shivam Energy, Inc. 399 West Liberty Street Wauconda, Lake County, Illinois 60084 IEMA Incident Nos. 892744 and 903199 LPC No. 0971855024

Prepared for:

Mr. Rajani Patel Shivam Energy, Inc. 399 West Liberty Street Wauconda, Illinois 60084

Prepared by:

TriCore Environmental, LLC 1800 West Hawthorne Lane, Suite P West Chicago, Illinois 60185 Phone: (630) 520-9973 Fax: (630) 520-9976

June 10, 2009

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The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program Corrective Action Plan

A	. Site Identification		
	IEMA Incident # (6- or 8-digit): 892744 and 903199 IEPA LPC # (10-digit): 0971855024		
	Site Name: Shivam Energy, Inc.		
	Site Address (Not a P.O. Box):	399 West Liberty Street	
	City: Wauconda	_ County: <u>Lake</u>	ZIP Code: 60084
	Leaking UST Technical File		
В	Site Information		
	1. Will the owner or operator Underground Storage Tank		Yes ⊠ No □
	2. If yes, is the budget attached	ed?	Yes ⊠ No 🗌
	3. Is this an amended plan?		Yes ⊠ No 🗌
	4. Identify the material(s) rele	eased: unleaded gasoline	
	5. This Corrective Action Plan	n is submitted pursuant to:	
	a. 35III. Adm. Code 731.10	66	
	The material released w	as:	
	-petroleum		
	-hazardous substance Section 3.215)	e (see Environmental Protecti	on Act
	b. 35 III. Adm. Code 732.4	04	
	c. 35 III. Adm. Code 734.3	35	
C.	Proposed Methods of Remediat	tion	
	1. Soil: A dual phase extraction of the constituents of concern (CO		
	2. Groundwater: A DPE system above the Tier 1 groundwater rem		concentrations of the COCs
D.	Soil and Groundwater Investig 731 only or 732 that were claprovided)	•	•
	Not applicable.		
	Provide the following:		

- 1. Description of investigation activities performed to define the extents of soil and/or groundwater contamination;
- 2. Analytical results, chain-of-custody forms, and laboratory certifications;
- 3. Tables comparing analytical results to applicable remediation objectives;
- 4. Boring logs;
- 5. Monitoring well logs; and
- 6. Site maps meeting the requirements of 35 III. Adm. Code 732.110(a) or 734.440 and showing:
 - a. Soil sample locations;
 - b. Monitoring well locations; and
 - c. Plumes of soil and groundwater contamination.

E. Technical Information - Corrective Action Plan

Provide the following:

1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;

In-Situ Chemical Oxidation Investigation Activities

On January 18, 2007 and August 7, 2008, TriCore Environmental, LLC (TriCore) oversaw the installation of five on-site soil borings (SB-33 through SB-37) and two offsite soil borings (SB-39 and SB-40) to a maximum depth of 22 feet below land surface (bls). The soil borings were installed to evaluate in-situ chemical oxidation as a remediation method for the site. The locations of the soil borings are illustrated on Figure 1. Prior to performing SB-39 and SB-40, a permit was obtained from the Wauconda Park District for authorization to perform the soil borings in Osage Park. The soil borings were completed using the following drilling and sampling procedures.

Each boring was drilled and sampled to a maximum depth of 6 feet bls using a stainless steel hand auger to collect soil samples in 1.0-foot depth intervals. A hand auger was utilized to minimize the risk of damage to subsurface structures and utilities. The reduced risk of striking utility lines increases the safety factor for drillers and other onsite personnel.

The borings were then completed with a truck-mounted Geoprobe[®] using direct-push technology to advance the borings. Continuous soil samples were collected at 2.0-foot intervals to the termination depth of each soil boring. The soil samples were collected within a disposable macro-core liner which was placed within a 2.125-inch inside diameter by 4.0-foot long macro-core sampler. To prevent cross contamination between soil borings and sampling intervals, all drilling and sampling equipment was decontaminated prior to each use using a distilled water and Liquinox[®] solution wash, followed by a distilled water rinse.

As soil samples were collected, the geology of the subsurface soil was described. Upon retrieval, a portion of each soil sample was immediately divided for field screening and laboratory analysis. Samples designated for field screening were placed in airtight plastic

bags, allowed to volatilize and equilibrate, and then screened for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID) equipped with a 10.6 electron volt lamp. The PID was field calibrated using isobutylene gas prior to use. The other portion of each sample was placed into laboratory provided containers, labeled accordingly, and packed in a cooler containing ice. The soil sample from each boring collected at the static water table or at the interval directly below the static water table was submitted for total petroleum hydrocarbon gasoline range organics (TPH), chemical oxygen demand (COD), and the Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). The soil samples were shipped under standard chain-of-custody protocol to Pace Analytical Services, Inc. (Pace) in Green Bay, Wisconsin for laboratory analysis using United States Environmental Protection Agency (USEPA) methods. Additionally, one soil sample was collected for total plate count and shipped under standard chain-of-custody protocol to Suburban Laboratories, Inc. in Hillside, Illinois for laboratory analysis.

After soil samples were collected, the borings were backfilled with bentonite and hydrated. The ground surface was restored using material similar to the surrounding ground surface.

Analytical laboratory results are summarized in Tables 1 and 2. Copies of the analytical laboratory reports and certifications are provided in Appendix A. Soil boring logs are provided in Appendix B.

On January 19, 2007 and June 23, 2008, TriCore sampled MW-2, MW-11S, MW-15, MW-18, MW-26, and MP-1 to evaluate in-situ chemical oxidation as a remediation method for the site. The locations of the wells are illustrated on Figure 1. Prior to sampling the wells, the depth to groundwater was measured in each well using an electronic oil/water interface meter equipped with an audible signal. The meter was washed using a distilled water and Simple Green® solution wash between each use. Each well was then developed by removing approximately three well volumes using a dedicated, disposable high-density polyethylene (HDPE) bailer. The purge water generated during the sampling activities were contained on site in 55-gallon drums for future disposal. After the wells were allowed to recharge, groundwater samples were collected from each well using the dedicated, disposable HDPE bailer. The samples were collected without headspace in laboratory-provided containers, labeled accordingly, packed in a cooler containing ice, and shipped under standard chain-of-custody protocol to Pace for laboratory analysis. The groundwater samples were submitted for TPH, COD, RCRA metals, total nitrogen, and total phosphorus analyses using USEPA methods.

Analytical laboratory results are summarized in Tables 3 and 4. Copies of the analytical laboratory reports and certifications are provided in Appendix C. Costs associated with the in-situ chemical oxidation evaluation activities performed on June 23 and August 7, 2008 have been included in an Amended Corrective Action Budget provided in Appendix D. These costs have not been included in the budgets previously approved by the Illinois Environmental Protection Agency (IEPA). An Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form is provided in Appendix E. A copy of the Office of the State Fire Marshal Eligibility and Deductible Determination is provided in Appendix F.

In-Situ Chemical Oxidation Evaluation

Based on the analytical results from the investigation activities described above, TriCore evaluated the use of in-situ chemical oxidation to address the concentrations of the COCs in the groundwater above the Tier 1 GROs. Since the site is located within the wellhead protection area of the Village of Wauconda community water supply well located in Osage Park, the Tier 1, Class I GROs were utilized as the remediation objectives for the groundwater component of the groundwater ingestion exposure route. Based on these objectives, groundwater treatment areas were determined.

By modifying the total mass of contaminant equation provided in the IEPA Chemical Oxidation Guidance dated September 2008, the mass of contaminants in the saturated soil and the mass of contaminants in the groundwater were calculated independently. For the mass of contaminants in the saturated soil, the dry bulk density of the soil was utilized in the equation instead of the wet bulk density. Similarly, for the mass of contaminants in the groundwater, the total soil porosity and the density of water were utilized in the equation instead of the wet bulk density.

The saturated soil treatment area encompassed the estimated area above the Tier 1 SROs. Utilizing the PID measurements and the depth of the field-interpreted groundwater table during drilling activities, a treatment depth of 8 to 12 feet was estimated. To determine the mass of contamination in the soil, the average COD concentration was used since it was the higher of the average TPH and COD concentrations in the soil. An average COD concentration of 3,400.00 parts per million (ppm) and a surface area of 5,400.91 square feet (ft²) was utilized to determine the mass of contamination in the soil. By using the treatment depth, a total of 800.13 cubic yards (yds³) of soil is estimated to be treated by the oxidation process. Using the modified equation described above, the mass of contaminants in the saturated soil was calculated to be 7,977 pounds (lbs).

The proposed groundwater treatment area encompasses the estimated area above the Tier 1 GROs. Utilizing the maximum seasonal fluctuations in groundwater from all of the wells located within the treatment area, a treatment thickness of 2 feet was estimated. To determine the mass of contaminants in the groundwater, the average groundwater COD concentration was used since it was the higher of the average TPH and COD concentrations in the groundwater. An average COD concentration of 42.53 ppm and a surface area of 94,882.59 ft² was utilized to determine the mass of contamination in the groundwater. By using the treatment depth, a total of 7,028.34 yds³ is estimated to be treated by the oxidation process. Using the modified equation described above, the mass of contaminants in the groundwater treatment area was calculated to be 173 lbs. Therefore, the total mass of contaminants to be treated during the oxidation process is 8,150 lbs.

By estimating that 3 lbs of oxygen are required to remediate one lb of contaminant, it is estimated that approximately 24,451 lbs of oxygen are required to remediate the total mass of contaminants in the saturated soil and groundwater. Based on the chemical specific parameters provided by the manufacturer, Solvay Chemicals, Inc., the volume of chemical to be injected was determined. It is estimated that 176,667 lbs of chemical is required to treat the 8,150 lbs of contaminants within the proposed treatment areas. Based on these calculations, the volume of product required to be applied to the saturated

soil and groundwater within the treatment areas is not feasible. Calculations estimating the volume of product required to be applied to the treatment areas are provided in Appendix G.

Although the analytical laboratory results from SB-41 through SB-44 and SB-47 through SB-49, completed on February 2, 2009, revealed concentrations of the COCs above the Tier 1 SROs, these areas were not included in the calculations provided above. However, based on the concentrations of the COCs within the evaluated area as compared to the concentrations of the COCs from SB-41 through SB-44 and SB-47 through SB-49, the amount of oxygen and chemical required to treat the mass of contaminants within these areas would be greater than calculated above.

Soil Investigation Activities

On December 11, 2007, TriCore completed one on-site soil boring (SB-38) to collect site-specific geochemical parameters for the development of the Tier 2 SROs. The location of the soil boring is illustrated on Figure 1. The soil boring was completed to 4 feet bls with a stainless steel hand auger and soil samples were collected and screened using the methods and materials described above.

Two soil samples were selected for laboratory analysis: one from a depth interval of 2 to 3 feet bls and another from a depth interval of 3 to 4 feet bls. The soil samples were submitted under standard chain-of-custody protocol to Pace for fraction of organic carbon content using American Society for Testing and Materials Method D2974.

After soil samples were collected, the boring was backfilled with the soil cuttings. The surrounding ground surface was then capped with the existing topsoil and grass.

Analytical laboratory results are summarized in Table 1. Copies of the analytical laboratory reports and certification are provided in Appendix A. A soil boring log is provided in Appendix B. Costs associated with the soil investigation activities described above have been included in an Amended Corrective Action Budget provided in Appendix D. These costs have not been included in the budgets previously approved by the IEPA.

Vapor Migration Activities

On December 27, 2008, TriCore received a call from Ms. Gwen Carey, owner of the residential property located directly north of the site along Bangs Street. Ms. Carey indicated that her son, Mr. Scott Carey, who owns the home directly north of her, and Mr. Joe Munson, who owns the home located directly north of Mr. Carey, had gasoline vapors present in their basements.

On December 29, 2008, TriCore met Ms. Carey at her home. Ms. Carey indicated that she did not have any gasoline vapors present in her home. This was due to an operating vacuum blower located on site that is directly connected by subsurface piping to the backfill material surrounding the cleanout for the sanitary sewer line that services her home. The sanitary sewer line cleanout is located east of her home, in her front yard. The vacuum blower contains a dilution valve that was partially open to the ambient air. The vacuum blower was installed in 1991 as part of the corrective action activities associated with Illinois Emergency Management Agency (IEMA) incident numbers 892744 and 903199. The blower has operated periodically from 1991 through March 9,

2006 and continuously since March 9, 2006. TriCore and Ms. Carey then proceeded to Mr. Carey's home. Prior to entering Mr. Carey's home, a hydrocarbon odor was observed emanating up from the grass areas between the two homes. Upon arrival to Mr. Carey's house, the basement was inspected. No gasoline vapors were observed within Mr. Carey's basement; however, the basement was damp and humid. Water staining was also present on the concrete floor of the basement, indicating that the basement was not sealed to the outside. At the time, Mr. Munson's home was not accessible and therefore, his basement was not inspected. Please note that Mr. Carey's and Mr. Munson's homes are not connected to the vacuum blower.

After meeting Ms. Carey and inspecting the homes, TriCore inspected the sump wells (S-1 through S-3) associated with the underground storage tank (UST) system and several of the monitoring wells near the UST system (RW-1 (04'), MP-3, MW-2, MW-6, MW-12S, MW-13, MW-26, and MW-27) by lowering a bailer into each of the wells. The locations of the wells are illustrated on Figure 1. A sheen of weathered free product was present in MW-27. No free product was present in any of the other wells that were inspected.

The sanitary sewer line servicing Ms. Carey's house runs through the backfill material surrounding her basement. The sanitary sewer line runs southeast from Ms. Carey's home and connects to the main that runs along Bangs Street. The sanitary sewer line servicing Mr. Carey's and Mr. Munson's homes were constructed similarly to Ms. Carey's. It is assumed that the vapors associated with the on-site free product migrated into the backfill material surrounding the sanitary sewer line that runs southeast from the remediation building to the sanitary sewer main that runs along Bangs Street. The vapors then migrated north along the main and towards the residential homes through the backfill material surrounding the sanitary sewer lines servicing their homes. Since the dilution valve on the vacuum blower was partially open, the vacuum delivered from the blower was enough to remove the vapors within the backfill material surrounding the sanitary sewer line servicing Ms. Carey's house; however, it did not deliver enough vacuum to remove the vapors surrounding the sanitary sewer lines servicing Mr. Carey's or Mr. Munson's homes. Therefore, on December 30, 2008, TriCore returned to the site and closed the dilution valve on the vacuum blower so that a greater vacuum would be applied to the backfill material surrounding the sanitary sewer lines and main.

On December 31, 2008, TriCore returned to the site to regauge the wells and meet with Mr. Brian Bauer, Project Manager with the IEPA Leaking Underground Storage Tank Section, and Ms. Jackie D. Soccorso, Director of Environmental Quality with the Village of Wauconda. Upon arrival at the site, TriCore gauged S-1 through S-3, MW-2, MW-26, and MW-27 with an electronic oil/water interface meter equipped with an audible signal. The meter was washed using a distilled water and Simple Green® solution wash between each use. A combination of new and weathered free product was present in S-1 through S-3 and MW-27. No free product was present in MW-2 or MW-26.

TriCore, Mr. Bauer, and Ms. Soccorso then met with Ms. Carey and inspected her basement. A PID equipped with a 10.6 electron volt lamp was used to screen a floor drain in her basement. A concentration of 0.0 ppm was measured. Mr. Carey's basement was then inspected. The PID was also used to screen a floor drain in his basement and a concentration of 0.0 ppm was measured. No gasoline vapors were present in either home.

On March 9, 2009, Ms. Carey contacted TriCore and indicated that Mr. Carey and Mr. Munson had gasoline vapors present in their homes over the weekend. That morning, TriCore met Ms. Carey at her home and then proceeded to her son's home. Upon arrival to Mr. Carey's home, the basement was inspected. A PID equipped with a 10.6 electron volt lamp was used to screen the basement. A concentration of 2.7 ppm was measured. In addition, the basement was damp and humid. Water was present on the floor of the basement in several locations. At the time, Mr. Munson's home was not accessible and therefore, the basement was not inspected. TriCore then screened the storm sewer manholes and inlets located along Bangs Street with the PID. A concentration of 0.0 ppm was measured in all of the manholes and inlets that were screened.

On March 12, 2009, Mr. Munson contacted TriCore and indicated that gasoline vapors were present in his home.

On March 13, 2009, TriCore exposed the sanitary sewer line that runs southeast from the remediation building to the sanitary sewer main that runs along Bangs Street to determine if the line was a migratory pathway for the gasoline vapors. The location of the sanitary sewer line is illustrated on Figure 1.

R.W. Collins of Chicago, Illinois was contracted to trench perpendicular to the sanitary sewer line and expose the line. Prior to trenching, a private utility locator, Lucky Locators, Inc. of Algonquin, Illinois, was contracted to locate the sanitary sewer line. Once the line was located, TriCore then proceeded with the trenching activities. All of the soil that was removed during the trenching was stockpiled on visqueen until the trench needed to be backfilled. After the grass and topsoil were removed, clay was encountered to a depth of approximately 5 feet bls. Underlying the clay was sand. The sanitary sewer line was located approximately 4.5 feet bls just above the top of the sand layer. The backfill material surrounding the 6-inch line was typical to the native sand layer below it; therefore, it was determined not to be a migratory pathway for the gasoline vapors. After the line was exposed, the trench on the south side of the sewer line was excavated deeper and a recovery well, RW-2, was installed south of the sewer line within the trench. The recovery well was installed at a depth of 8 feet bls and was constructed out of 4-inch inside diameter, Schedule 40 polyvinyl chloride (PVC) casing, 4-inch diameter, 0.010-inch slot Schedule 40 PVC screen, a 4-inch PVC end cap, and a 4-inch well plug. The well was constructed so that the screened portion of the well was located within the sand layer. The area surrounding the well was then backfilled with bentonite while the remaining portion of the trench was backfilled with the clay that was excavated.

On March 30, 2009, Ms. Carey contacted TriCore indicating that Mr. Carey had gasoline vapors present in his home.

On April 1, 2009, TriCore and Concept Plumbing, Inc. (Concept Plumbing) of Palatine, Illinois inspected Mr. Carey's basement. The basement was screened with a PID equipped with a 10.6 electron volt lamp. A PID concentration of 0.0 ppm was measured. Upon further inspection of the basement, a dry toilet was found. Concept Plumbing verified that the basement floor drain had a u-trap. If vapors migrate through the sanitary sewer line along Bangs Street and towards Mr. Carey's home, the dry toilet would be a point of entry for the vapors to enter the home. Mr. Carey was advised to keep water in the toilet so that vapors do not migrate into his home through this point of entry.

After inspecting Mr. Carey's basement, TriCore and Concept Plumbing met with Mr. Munson and inspected his home. In Mr. Munson's basement, there is a floor opening in which a vertical drop pipe from the 1st floor connects to the horizontal sewer line exiting to the Bangs Street sewer main from beneath the basement floor. There is no seal around the drop pipe and the floor opening. Like Mr. Carey's home, if vapors migrate through the sanitary sewer line along Bangs Street and towards Mr. Munson's home, the open sanitary sewer line and floor opening would be a point of entry for the vapors to enter the home. Mr. Munson was advised to seal the floor opening around the drop pipe with concrete so that vapors do not migrate into his home through this point of entry.

Copies of the waste manifests for the free product and groundwater that were recovered on December 31, 2008 through April 1, 2009 were provided in Appendix A of the Free Product Removal Plan (FPRP) dated April 6, 2009. Costs associated with the vapor migration activities described above have been included in the Amended Corrective Action Budget provided in Appendix D. Please note that the costs for the free product and groundwater recovery events described above are not included in the budget since these costs were included in the aforementioned FPRP.

Free Product Removal Activities

On December 31, 2008, TriCore contracted North Branch Environmental (North Branch) of Roselle, Illinois to remove the free product present in S-1 through S-3 and MW-27. North Branch removed a total of 15 gallons of free product and 2,485 gallons of groundwater from the wells utilizing a vacuum truck. The free product and groundwater that were removed were transported off-site by North Branch for treatment and disposal at their facility.

On January 9 and 27, March 9 and 13, and April 1, 2009, TriCore contracted North Branch to perform free product recovery events at the site. During these events, North Branch recovered a total of 59 gallons of free product and 11,841 gallons of groundwater from S-1 through S-3 and MW-27. On February 26, 2009, TriCore recovered approximately 0.01 gallons of free product and 3.99 gallons of groundwater from S-1 through S-3 and MW-27 using disposable, dedicated HDPE bailers. The free product and groundwater recovered on this date were contained on site in a 55-gallon drum. Please note that the volume of free product and groundwater recovered on January 9 and April 1, 2009 included approximately 150 gallons of purged free product and groundwater that were contained on site in 55-gallon drums that were generated during the groundwater sampling activities performed on January 5 and 6, 2009 and the free product recovery activities performed on February 26, 2009. Further details regarding the groundwater sampling activities are provided below. Free product recovery volumes are summarized in Table 5.

On May 15, 2009, in accordance with the aforementioned FPRP, TriCore installed SB-51/MW-29 through SB-57/MW-35 and RW-3. As described in the aforementioned FPRP, a 4-inch diameter well was installed within SB-55/MW-33 through SB-57/MW-35 since the wells will be utilized as recovery wells for the proposed DPE system. These wells will be referred to as RW-4 through RW-6 throughout the remainder of this report. The locations of the wells are illustrated on Figure 1. Further details regarding the well installation activities will be provided in a FPRP. Costs associated with the free product

removal activities described above have not been included in the Amended Corrective Action Budget provided in Appendix D since these costs were included in the aforementioned FPRP.

Groundwater Sampling Activities

On January 5 and 6, 2009, TriCore sampled all of the existing wells, except for MW-2, MW-4, MW-9S, MW-24, MW-25, MW-27, RW-1 ('04), and MP-2 through MP-4, to assess the concentrations of the COCs in the groundwater. Monitoring wells MW-2, MW-4, and MW-9S could not be sampled due to obstructions within the wells. Monitoring wells MW-24 and MW-25 were not accessible due to piles of snow and ice that were covering the wells. Monitoring well MW-27 was not sampled due to the presence of free product in the well. Wells RW-1 ('04) and MP-2 through MP-4 were not sampled since they are located adjacent to MP-1. The locations of the wells are illustrated on Figure 1.

Prior to sampling the wells, the depth to free product and/or groundwater was measured in each well using an electronic oil/water interface meter equipped with an audible signal. The meter was washed using a distilled water and Simple Green® solution wash between each use. If free product was present in the well, it was removed using a dedicated disposable HDPE bailer. If no free product was present in the well, it was developed by removing approximately three well volumes using a dedicated, disposable HDPE bailer. The free product and purge water generated during the sampling activities were contained on site in 55-gallon drums. After the wells were allowed to recharge, groundwater samples were collected from each well using the dedicated, disposable HDPE bailer. If free product was present in a well, it was not sampled during this event. The samples were collected without headspace in laboratory-provided 40-milliliter glass vials containing hydrochloric acid as a preservative, labeled accordingly, packed in a cooler containing ice, and shipped under standard chain-of-custody protocol to Pace for laboratory analysis. The groundwater samples were submitted for benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) analysis using USEPA Method 8021.

Analytical laboratory results revealed benzene concentrations above the Tier 1 GROs in MW-15, MW-16, MW-26, MP-1, and RW-1. Analytical laboratory results are summarized in Table 6 and illustrated on Figure 2. The groundwater flow direction is illustrated on Figure 3. Copies of the analytical laboratory reports and certification were provided in Appendix B of the Stage 2 Site Investigation Plan (SIP) dated April 14, 2009, prepared for IEMA incident number 903199. Costs associated with the groundwater sampling activities described above have been included in the Amended Corrective Action Budget provided in Appendix D. These costs have not been included in the budgets previously submitted to the IEPA.

a. The major components (e.g., treatment, containment, removal) of the corrective action plan;

DPE System

To recover the free product present at the site, to prevent further migration of vapors, and to remediate the concentrations of the COCs in the soil and groundwater to the

applicable remediation objectives, a DPE system is being proposed.

Groundwater Evaluation

As stated in the IEPA letter dated May 16, 2008, since the benzene concentrations above the Tier 1 SROs observed in B-4c and B-5b are below the shallow groundwater table that exists in Osage Park, these concentrations should be addressed through the installation of monitoring wells and treated as a groundwater issue. Therefore, one groundwater monitoring well (SB-67/MW-33) will be installed at the location of B-4c and one groundwater monitoring well (SB-68/MW-34) will be installed at the location of B-5b. The locations of the proposed wells are illustrated on Figure 1. Prior to performing these wells, a permit from the Wauconda Park District will need to be obtained for authorization to install the wells in Osage Park.

The borings will be completed and sampled using the methods, materials, and equipment described above. The soil sample collected above the field interpreted water table exhibiting the highest PID measurement will be shipped under standard chain-of-custody protocol to an Illinois Environmental Laboratory Accreditation Program (IL ELAP) approved laboratory for BTEX and MTBE analysis using USEPA methods.

After soil samples are collected, a groundwater monitoring well will be installed within each boring. The groundwater monitoring wells will be installed with a track-mounted Geoprobe[®] using hollow-stem augers. To prevent cross contamination during the installation of the wells, all drilling equipment will be decontaminated prior to each use. Each well will be constructed out of 2-inch inside diameter Schedule 40 PVC casing, 2-inch inside diameter, 0.010 slot Schedule 40 PVC screen, a 2-inch PVC end cap, a 2-inch well plug, and a stick-up well cover. The stick-up well covers are being used so that proper well seals can be obtained due to the shallow groundwater table in this area of Osage Park. The annulus of each well will be filled with washed silica sand to approximately 1 foot above the top of the well screen. Bentonite pellets will be added followed by bentonite chips to approximately 6 inches below the top of each well casing. The bentonite pellets and chips will be hydrated to provide a seal to prevent potential surface water from migrating into the well through the sand pack. A stick-up well vault with a bolt-down cover will be installed to protect each well.

Approximately one week after their installation, TriCore will gauge, develop, and sample all of the existing wells using the methods and materials described above. The groundwater samples will be shipped under standard chain-of-custody protocol to an IL ELAP approved laboratory for BTEX and MTBE analysis using USEPA methods. In addition, the top-of-casing elevation of MW-33 and MW-34 will be surveyed in reference to another well so that the groundwater elevations and flow direction can be determined. The analytical laboratory results from this sampling event will also be used as the baseline sampling event for the DPE system to evaluate the COC concentration changes with time due to natural and system induced reductions. If analytical laboratory results reveal concentrations of the COCs above the Tier 1 GROs, then remediation of these COCs in this area will be addressed in an Amended Corrective Action Plan (CAP).

b. The scope of the problems to be addressed by the proposed corrective action; and

DPE System

According to the IEPA Source Water Assessment Protection (SWAP) online database, the Village of Wauconda community water supply well located north of the site in Osage Park has a wellhead protection area of 1,000 feet; therefore, the site is located within the wellhead protection area of the community water supply well. Since the site is located within a wellhead protection area, concentrations of the COCs in the groundwater must be remediated to the Tier 1, Class I GROs. Additionally, concentrations of the COCs in the soil must be remediated to the Tier 2 SROs. Further details regarding the Tier 2 SROs are provided below in Section E. 2. Based on the zones where the concentrations of the COCs above the Tier 2 SROs are located, the depth to groundwater, and the lithologies beneath the site, DPE is a viable remediation method that will address the concentrations of the COCs above the applicable remediation objectives. Additionally, the DPE system will recover the free product present at the site and prevent further vapor migration.

Groundwater Evaluation

Since the concentrations of the COCs above the Tier 1 SROs in the soil samples collected from B-4c and B-5b are below the groundwater table, by installing groundwater monitoring wells at these locations, it would evaluate the concentrations of the COCs in the groundwater at these locations. Further details regarding the groundwater evaluation activities were provided above in Section E. 1. a.

c. a schedule for implementation and completion of the plan;

The following is a proposed schedule for the implementation and completion of this plan once it has been approved by the IEPA.

Activity	Projected Completion Time
Obtain an access permit with the Wauconda Park District for Osage Park	Weeks 1 and 2
Obtain groundwater and air discharge permits from the IEPA, and groundwater discharge and building permits from the Village of Wauconda	Weeks 1 through 4
Coordinate and install SB-67/MW-33 and SB-68/MW-34 in Osage Park, and RW-7 through RW-10	Weeks 3 and 4
Trenching, groundwater discharge connection, and piping installation	Weeks 5 and 6
Coordinate and place order with electric company for the power drop	Weeks 5 and 6
Baseline groundwater sampling	Week 6
Place order for the permanent DPE system	Week 6
Temporary DPE system and generator installation	Weeks 7 and 8
Temporary DPE system start up	Week 8
Temporary DPE system operation and maintenance	Weeks 8 through 34
Quarterly groundwater sampling	Weeks 21 through 33
Installation of power drop	Week 32
Permanent DPE system installation	Weeks 33 and 34
Permanent DPE system startup	Week 34

Permanent DPE system operation and maintenance	Weeks 34 through 112
Quarterly groundwater sampling	Weeks 45 through 111
System shutdown (as long as Tier 1, Class I GROs are met)	Week 112
Soil and groundwater attenuation sampling	Week 138

2. Identification of the remediation objectives proposed for the site;

Soil Remediation Objectives

Since the site is located within the wellhead protection area of the Village of Wauconda community water supply well located in Osage Park, Tier 2 evaluations were performed for the COCs above the Tier 1 SROs. The Tier 2 evaluations were performed to evaluate the maximum BTEX and MTBE concentrations that could remain on site that would result in groundwater concentrations equal to the Tier 1, Class I GROs at that location. If the concentrations of the COCs are above the Tier 2 SROs, they will be remediated utilizing DPE.

The Tier 2 SROs were calculated using soil screening level Equations S17 through S22, and S25, located in 35 Illinois Administrative Code (IAC) Part 742, Appendix C, Table A. Default parameters listed in 35 IAC Section 742, Appendix C, Tables B, E, and K, and site-specific parameters were used in these evaluations. Since the site meets the criteria of Class I groundwater, Class I GROs were utilized within the equations to calculate the Tier 2 SROs. The site-specific input parameters are summarized in the table below.

Site-Specific Input Parameters	Value	Units
Dry Soil Bulk Density (Table 1)	1.74	g/cm ³
Soil Particle Density (Specific Gravity) (Table 1)	2.65	g/cm ³
<u>Total Soil Porosity</u> (Table 1)	0.344	L_{pore}/L_{soil}
Organic Carbon Content (subsurface soils below 1 meter) (Table 1)	0.0078	g/g
Hydraulic Conductivity (k)		
Estimated from the data collected by Bradburne, Briller, and Johnson,	2,084.53	m/yr
LLC from MW-6 during a slug test conducted on September 24, 1997	(6.61×10^{-3})	(cm/sec)
(Appendix H).		
Hydraulic Gradient (i)		
Derived based on the measured groundwater elevations collected	0.0157	cm/cm
during the monitoring activities conducted on January 5 and 6, 2009		
(Appendix H).		
Source Length/Width Parallel to Groundwater Flow Direction in the		
Horizontal Plane (Figure 4)		
Measured from the northern curb of West Liberty Street to B-1	5,090.16	cm

The Tier 2 SROs for the SCGIER are summarized in the table below.

COC above the Tier 1 Maximum Detected Concentration Tier 2 SROs for the S		Fier 2 SROs for the SCGIER
SROs	(mg/kg)	(mg/kg)
Benzene	104 (SB-44 @ 6 to 8 feet bls)	0.064
Toluene	1,000 (SB-44 @ 6 to 8 feet bls)	31.939
Ethylbenzene	294 (SB-44 @ 6 to 8 feet bls)	42.061
Total Xylenes	1,530 (SB-44 @ 6 to 8 feet bls)	440.507
MTBE	30.1 (SB-44 @ 6 to 8 feet bls)	0.374

Based on the calculations above, any BTEX and MTBE concentrations above these Tier 2 SROs would result in concentrations of the COCs in the groundwater above the Tier 1, Class I GROs at that location. Since soil concentrations above these Tier 2 SROs are

within the wellhead protection area of the community water supply well, they would have to be addressed. Printouts for these evaluations are provided in Appendix I. Analytical laboratory results are summarized in Table 7 and illustrated on Figures 5A and 5B.

Groundwater Remediation Objectives

As mentioned above in Section C. 2., since the site is located within the wellhead protection area of the Village of Wauconda community water supply well located in Osage Park, Tier 1, Class I GROs are being proposed for the site.

3. A description of the remedial technologies selected:

a. The feasibility of implementing the remedial technologies;

Based on the proposed locations of the recovery wells, the piping trenches, and the remediation building, there are no site features inhibiting the installation and operation of the DPE system.

b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and

The DPE technology is a very reliable means to remediate the site since the equipment is easy to access for any necessary repairs. Periodic operation and maintenance (O&M) events will ensure that the DPE system is performing satisfactorily and reliably.

c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;

It is estimated that a minimum of 24 months will be required to remediate the concentrations of the COCs in the soil and groundwater to the applicable remediation objectives. Although a pilot test was performed on RW-1 ('04) on May 12, 2005, TPH concentrations in the air bag sample collected during the test would not be representative of the TPH concentrations being removed from the recovery wells. Evidence of this is present in the analytical laboratory results from MP-1 through MP-3 and RW-1 ('04), which were installed in 2005, as compared to the analytical laboratory results from SB-41, SB-44, and SB-49, which were installed in 2009. Therefore, estimated rates of removal will be determined once the permanent DPE system has been started. This information will be used to evaluate the time required to remediate the concentrations of the COCs to the applicable remediation objectives. This information will be provided to the IEPA in a semi-annual Remediation Status Report. Analytical laboratory results from the soil samples collected are summarized in Table 7.

As mentioned below in Section E. 4., groundwater samples will be collected from all of the existing monitoring wells quarterly during the operation of the DPE system. Then, all of the existing monitoring wells, RW-1 through RW-6, RW-1 ('04), and proposed recovery wells RW-7 through RW-10 will be sampled for two quarters after the system has been shut down. Additionally, six months after the system has been shut down, soil samples will be collected from the locations which previously exhibited soil concentrations above the Tier 2 SROs. Analytical laboratory results and reports will be provided in semi-annual Remediation Status Reports and/or an

Amended CAP.

4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;

Groundwater Quality Monitoring

Prior to placing the DPE system on-line, groundwater samples will be collected from all of the existing monitoring wells, RW-1 through RW-6, RW-1 ('04), and proposed recovery wells RW-7 through RW-10. During the operation of the DPE system, groundwater samples will be collected from all of the existing monitoring wells on a quarterly basis as described above in Section E. 3. c. Prior to sampling the wells, the depth to free product and/or groundwater will measured in each well using the methods and materials described above.

The samples will be collected using the methods and materials described above in Section E. 1. The samples will be submitted to an IL ELAP approved laboratory for BTEX and MTBE analysis using USEPA methods. The results will be used as a baseline to evaluate the COC concentration changes with time due to natural and system induced reductions.

Quarterly groundwater monitoring will be conducted until groundwater concentrations remain below the Tier 1, Class I GROs for two quarters after the system has been shut down. TriCore will request permission from the IEPA to shut the system down after groundwater concentrations are below the Tier 1, Class I GROs. The system may be restarted if groundwater concentrations exceed the Tier 1, Class I GROs in any of the wells during future groundwater monitoring events.

Soil Quality Monitoring

Six months after the system has been shut down, soil samples will be collected from the locations which previously exhibited soil concentrations above the Tier 2 SROs (CB-11, CB-12, MP-3, SB-41, SB-43, SB-44, SB-48, and SB-49). The system may be restarted and additional extraction wells added if soil concentrations remain above the Tier 2 SROs.

Costs associated with the groundwater and soil quality monitoring activities described above are provided in the Amended Corrective Action Budget provided in Appendix E.

5. A description of the current and projected future uses of the site;

The site is currently an operating gasoline retail station consisting of a single story convenience store building with no basement or crawl space, three dispenser islands with a canopy, two 10,000-gallon steel unleaded gasoline underground storage tanks, and a storage shed. At the time this report was written, the owner plans to continue to operate the site as a gasoline retail station.

6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:

Since DPE will be utilized to remediate the concentrations of the COCs in the soil and groundwater to levels below the applicable remediation objectives, no engineered barriers

or institutional controls will be relied upon to achieve the remediation objectives.

- a. an assessment of their long-term reliability;
- b. operating and maintenance plans; and
- c. maps showing area covered by barriers and institutional controls;

7. The water supply well survey:

a. Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well;

According to the information provided by the IEPA SWAP database and the Illinois State Geological Survey (ISGS) online database, the closest potable water supply well is located approximately 365 feet north of the site in Osage Park. The well is an active community water supply well for the Village of Wauconda and has a minimum setback zone of 200 feet. According to the ISGS driller's log, the well was installed in 1957 and has a depth of 325 feet. Additionally, according to the IEPA SWAP Fact Sheet for the Village of Wauconda, the well is installed within bedrock that is overlain by relatively impermeable silty or clayey till.

On May 6, 2004, TriCore performed an area reconnaissance to locate the community water supply well. The well is located in the northwest corner of Osage Park. The location of the well is illustrated on Figures 1 through 5. Copies of the water supply well information obtained from the IEPA SWAP database and the ISGS online database were provided in Appendix G of the aforementioned Stage 2 SIP.

b. Map(s) showing regulated recharge areas and wellhead protection areas;

According to the IEPA SWAP online database, the community water supply well located north of the site in Osage Park has a wellhead protection area of 1,000 feet; therefore, the site is located within a wellhead protection area of a potable water supply well. No regulated recharge areas are located within 2,500 feet of the site. A map showing the location of the site in relation to the wellhead protection area was provided in Appendix G of the aforementioned Stage 2 SIP.

c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;

A map showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives is illustrated on Figure 2.

d. Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;

The modeled extent of groundwater contamination exceeding the most stringent Tier 1 GROs has not been determined at this time. This information will be provided in an Amended CAP.

e. Tables listing the setback zone for each community water supply well and other potable water supply wells;

As mentioned above in Section E. 7. a., the Village of Wauconda community water supply well located north of the site has a minimum setback zone of 200 feet.

f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and

The following personnel or websites were consulted regarding the locations of potable water supply wells within 2,500 feet of the site.

- 1. IEPA SWAP database
- 2. Janet Christer, Freedom of Information Act Coordinator, Bureau of Water, IEPA
- 3. ISGS online database

As mentioned above in Section E. a. 7., on May 6, 2004, TriCore verified the location of the Village of Wauconda community water supply well located 365 feet north of the site in Osage Park.

g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement);

A certification from a Licensed Professional Engineer is provided in Section G. below.

8. Appendices:

a. References and data sources report that are organized; and

The following is a list of references that were utilized to complete this report.

- 1. Amended CAP dated July 31, 2004, prepared by TriCore
- 2. Revised Corrective Action Budget dated September 28, 2004, prepared by TriCore
- 3. Amended CAP dated July 12, 2006, prepared by TriCore
- 4. Amended CAP dated January 17, 2008, prepared by TriCore
- 5. IEPA SWAP database
- 6. ISGS online database

b. Field logs, well logs, and reports of laboratory analyses;

Copies of the analytical laboratory reports for the soil samples collected on January 18, 2007 through August 7, 2008 are provided in Appendix A. Soil boring logs for the borings completed on these dates are provided in Appendix B. Copies of the analytical laboratory reports for the groundwater samples collected on January 19, 2007 and June 23, 2008 are provided in Appendix C. Field logs, well logs, and copies of analytical laboratory reports for the other investigation activities completed at this site were provided in the reports previously submitted to the IEPA.

9. Site map(s) meeting the requirements of 35 III. Adm. Code 732.110(a) or 734.440;

Site maps meeting the requirements of 35 IAC 734.440 are illustrated on Figures 1 through 5.

10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;

The design and placement of the DPE system focuses on the areas of the site that contain free product and COC concentrations in the soil and/or groundwater above the applicable remediation objectives. In addition, it focuses on the areas of the site where vapor migration has been present. The free product present in MW-27 and S-1 through S-3 have created vapors that have migrated along the sanitary sewer main in Bangs Street and into three residential homes located north of the site. The system will use existing recovery wells RW-1 through RW-6, RW-1 ('04), and proposed recovery wells RW-7 through RW-10 as extraction points. The proposed locations of RW-7 through RW-10 are illustrated on Figure 6.

Proposed recovery wells RW-7 through RW-10 will be installed and soil samples collected using the methods and materials described above in Section D. 1. The soil sample from RW-7, RW-9, and RW-10 collected above the field-interpreted water table exhibiting the highest PID measurement will be shipped under standard chain-of-custody protocol to an IL ELAP approved laboratory for BTEX and MTBE analysis using USEPA methods. No soil samples will be submitted for laboratory analysis from RW-8 since the well will be located adjacent to SB-49, which was completed on February 2, 2009. A 4-inch inside diameter recovery well will then be installed in each boring. The placement of the recovery wells was based on the calculated radius of influence (ROI) of 13 feet that was observed during the pilot test performed on May 12, 2005. Further details regarding the pilot test are provided below in Section E. 11. Proper recovery well placement will ensure recovery of the existing free product, as well as efficient SVE removal rate and zone of influence of the groundwater extraction component in order to address the vapor migration, and the soil and groundwater concentrations above the applicable remediation objectives.

The DPE system will be enclosed within a remediation building equipped with a heater, exhaust fan, thermostats, and interior lighting. The system will extract liquids and vapors from each well through the use of a drop tube inserted into each well. DPE well details are illustrated on Figure 7. The extracted liquids and vapors will be transported from the wells to the building through underground piping by a rotary claw vacuum pump system, which will create a vacuum in the extraction wells. The piping will be installed within a trench which will be completed prior to the system installation. Trench details are illustrated on Figure 8. The extracted materials will then enter a knock-out tank which will be equipped with level sensors. The air will be drawn out of the knock-out tank by the vacuum pump. A portion of the air will be discharged into the atmosphere. The air remaining in the separator will be diverted into a vapor phase carbon unit. The vapor phase carbon unit will remove the VOCs and the treated air will be discharged to the atmosphere. The vapor phase carbon unit will be operated until off-gas concentrations are within the permitted levels, at which time 100 percent of the extracted air will be discharged into the atmosphere.

The liquids collected in the knock-out tank will be transferred to an oil/water separator (OWS) by a transfer pump. The free product will be gravity drained from the OWS to a 55-gallon product recovery drum equipped with float switches. Water will travel by gravity from the OWS to a 60-gallon holding tank. The tank will be equipped with level

sensors that will operate a transfer pump that will transfer water from the holding tank to an air stripper where it will be treated. The treated water will then be discharged from the air stripper into the Village of Wauconda sanitary sewer.

Prior to constructing and operating the DPE system, TriCore will obtain an air discharge and water pollution control permits from the IEPA. In addition, TriCore will obtain building and water discharge permits from the Village of Wauconda.

Monthly compliance samples will be collected from the treated groundwater and analyzed for BTEX and MTBE to ensure that the water discharging into the Village of Wauconda sanitary sewer has been properly treated and meets the objectives outlined in the IEPA Bureau of Water and Village of Wauconda discharge permits. A total of 24 compliance sampling events will be performed during the operation of the system. An air sample will also be collected from the vacuum pump effluent on a quarterly basis so that the mass of VOCs removed can be calculated. Calculating the mass of VOCs removed on a quarterly basis will assist in evaluating when the effluent air concentrations will be within the permitted levels so that operation of the vapor phase carbon unit will no longer be required.

In addition to the compliance-sampling schedule, the following O&M schedule will also be followed after the system has been started: three days during the first week, two days during the second week, one day per week during the third and fourth weeks, and once every two weeks during the remainder of the system operation.

At this time, the system is scheduled to operate for a period of two years. Based on this operating period, a total of 57 O&M days will be required. During a typical O&M day, a technician will perform the following activities: inspect the system and recovery well components, collect vacuum readings from the system, monitor vacuum readings at the recovery wells, gauge monitoring wells, and collect influent and effluent groundwater discharge samples and effluent air samples. System component cleaning will be performed on a periodic or as needed basis. Below is a detailed breakdown of the O&M costs over a two-year period.

Personnel

Senior Technician for O&M: 8 hours/day for 57 days at \$70.88/hour = \$32,321.28

Senior Technician for cleaning and repairs: 100 hours at \$70.88/hour = \$7,088.00

Equipment

Truck: 57 days at \$95.00/day = \$5,415.00

PID: 57 days at \$75.00/day = \$4,275.00

Oil/Water interface meter: 57 days at \$35.00/day = \$1,995.00

Materials

Nitrile gloves for O&M: 8 pairs/day for 57 days at \$0.50/pair = \$228.00

Distilled water: 1 gallon/day for 57 days at \$2.00/gallon = \$114.00

Nitrile gloves for compliance sampling: 2 pairs/event for 24 events at \$0.50/pair = \$24.00

Ice for compliance sampling: 1 bag/event for 24 events at \$2.00/bag = \$48.00

Vacuum pump bearing grease: 1 grease gun at \$20.00/gun = \$20.00

Analytical

Compliance influent groundwater sample for BTEX and MTBE analysis: 1 sample/event for 24 events at \$88.33/sample = \$2,119.92

Compliance effluent groundwater sample for BTEX and MTBE analysis: 1 sample/event for 24 events at \$88.33/sample = \$2,119.92

Effluent air sample for BTEX, MTBE, and TPH: 1 sample/quarter for 2 years at \$75.00/sample = \$600.00

Compliance sample overnight shipment: 16 events at \$54.52/event = \$872.32

(The compliance samples for eight of these events will be shipped with the groundwater samples collected from the quarterly sampling events; therefore, they are not included in these costs.)

Utilities

Electric Power Drop: \$5,000.00

Electric: 24 months at \$800.00/month = \$19,200.00

Phone: 24 months at \$50.00/month = \$1,200.00

Total O&M costs = \$82,640.44

Approximate O&M costs/month = \$3,443.35

Since it will take approximately 6 months after the trenching and piping have been installed before the permanent DPE system procurement is completed and subsequently installed and ready for startup, TriCore is proposing to operate a temporary DPE system during that 6 month period. The temporary DPE system will focus strictly on the areas where free product is present and vapor migration is suspected. The temporary DPE system will utilize RW-2 through RW-6 as extraction points.

A map showing the layout of the remediation building and the recovery wells is illustrated on Figure 6. Recovery well and trench details are illustrated on Figures 7 and 8. Equipment and technical specifications provided by the manufacturer are provided in Appendix J. TriCore will be renting the temporary DPE system and purchasing the permanent DPE system. Quotes for the rental of the temporary system and purchase of the permanent system are also provided in Appendix J.

Once the permanent DPE system reaches the end of the remediation project, the equipment will be salvaged. Based on a conversation with a used remediation equipment vendor, the estimated salvage value of the equipment is approximately five percent of the purchase price; therefore, an average salvage value of the system is approximately \$4,825.00. Costs associated with the installation and operation of the DPE systems are included in the Amended Corrective Action Budget provided in Appendix D.

Unsaturated Zone Design

- Total Area of Contamination = 10,017 ft²
- Radius of Capture at the site = 20 ft per recovery point at 18.50 acfm each

- Required Removal Rate = 169.34 acfm
- Required Points for SVE Recovery = 10 recovery points; however, an additional recovery point has been proposed to address the vapor migration.

The unsaturated zone design calculations are provided in Appendix K.

Mass Loading

Unsaturated Zone Mass of Contamination = 2,704.9 lbs of VOCs

Saturated Zone Mass of Contamination = 1,971.40 lbs of VOCs

The mass loading calculations are provided in Appendix K. The mass of contamination calculated for the saturated zone does not account of the free product present at the site.

Mass Removal Rates

As mentioned above in Section E. 3. c., mass removal rates will be determined once the permanent DPE system has been started. This information will be provided to the IEPA in a semi-annual Remediation Status Report.

11. A description of bench/pilot studies;

The initial step in the remediation process was to perform a DPE pilot test. The pilot test was performed to determine the applicability of DPE as an effective remediation method for the site. Additionally, the pilot test data was used to determine system design requirements such as the effective ROI, vacuum and flow rate requirements for the system components, estimated friction losses, and layout of the trenching and piping.

As mentioned above in Section E. 10., On May 12, 2005, a pilot test was performed utilizing RW-1 ('04) as the extraction well. Prior to the start of the test, the initial background vacuum and depth to water measurements were collected from the wells to be monitored (MW-4, MW-27, and MP-1 through MP-4). Readings collected during the test included well vacuum, air flow rate, and effluent air concentrations using a PID. An air bag sample was collected prior to the end of the pilot test.

The DPE pilot test was conducted for approximately 3.15 hours. Vacuum response levels were measured at the monitoring points that are located at various distances from RW-1 ('04). Monitoring revealed a maximum vacuum response of 3.05 inches of water in monitoring point MP-2, which is located 12 feet from RW-1 ('04). The maximum distance at which a vacuum response was observed was at MW-27 which is located 63 feet from RW-1. A vacuum response of 0.05 inches of water was observed in the well. The vacuum response levels at the specific distances were used to calculate an effective ROI based on 1.0 percent of the vacuum at RW-1. An effective vacuum ROI was estimated at 13 feet. The pilot test results also showed groundwater drawdown at the surrounding monitoring points and wells. The groundwater drawdown indicates that any contaminated soils normally saturated under static groundwater conditions would be exposed to the SVE component of the system during operation.

The maximum air flow was measured at 18.5 cubic feet per minute. The maximum VOC concentration in the air based on the PID measurements was 6.5 parts per million. During the pilot test, groundwater was removed from the extraction well using a vacuum truck to increase the amount of unsaturated soil exposed to the vacuum created by the

blower. The groundwater extraction rate during the pilot test was approximately 1.35 gallons per minute.

The remediation system design utilized readings and data from the pilot test, to select the number of extraction wells, proper well placement, and piping requirements. The presence of free product and vapor migration was also utilized to determine well placement.

Results from the DPE pilot test are summarized in Tables 8 and 9. Analytical laboratory results from the air bag sample are summarized in Table 10. Estimated ROI graphs for the vacuum influence and the groundwater elevation changes are provided in Appendix K. A copy of the analytical laboratory report from the air bag sample was provided in Appendix B of the Amended CAP dated July 12, 2006.

12. Cost comparison between proposed method of remediation and other methods of remediation:

A cost comparison between DPE and other methods of remediation was not performed due to the limited methods of remediation available for this site to address the concentrations of the COCs in the soil and groundwater, the free product, and the vapor migration. Due to the location of the concentrations of the COCs in the soil above the Tier 2 SROs in relation to the UST system, excavation is not feasible. As demonstrated above in Section E. 1., in-situ chemical oxidation is not a feasible option due the volume of oxygen and chemical required to treat the mass of contaminants in the saturated zone.

13. For the proposed Tier 2 or 3 remediation objectives, provide the following:

a. The equations used;

The equations used in the Tier 2 evaluation presented above in Section E. 2. are Equations S17 through S22 and S25.

b. A discussion of how input variables were determined;

Site-specific input variables were based on the data collected during the investigation activities performed at the site; while default variables were obtained from 35 IAC Section 742, Appendix C, Tables B, E, and K.

c. Map(s) depicting distances used in equations; and

A map depicting the distance used in the Tier 2 evaluation is illustrated on Figure 4.

d. Calculations;

The Tier 2 calculations are provided in Appendix I.

14. Provide documentation to demonstrate the following for alternative technologies:

a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;

Based on the lithologies beneath the site where concentrations of the COCs, free product, and vapor migration are most prevalent and the data collected during the pilot test, DPE will be an effective remedial technology for the site.

b. The proposed alternative technology will not adversely affect human health and safety or the environment;

As mentioned above in Section E. 10., TriCore will obtain air discharge and water pollution control permits from the IEPA, as well as a water discharge permit from the Village of Wauconda. By meeting the discharge requirements outlined in the permits, DPE will not adversely affect human health and safety or the environment.

c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;

As mentioned above in Section E. 10., permits will be obtained from the IEPA to construct and operate the proposed DPE system. A permit will also be obtained from the Village of Wauconda to discharge the treated groundwater into their sanitary sewer system.

d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;

Soil

As mentioned above in Section E. 4., six months after the DPE system has been shut down, soil samples will be collected from the locations which previously exhibited concentrations above the Tier 2 SROs to reevaluate the concentrations in those locations as a result of the operation of the DPE system.

Groundwater

As mentioned above in Section E. 4., quarterly groundwater monitoring will be conducted during the operation of the DPE system until groundwater concentrations remain below the Tier 1 GROs for two quarters after the system has been shut down.

e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and

Mass removal rates from the DPE system and analytical laboratory results from the quarterly groundwater sampling activities will be provided to the IEPA in the semi-annual Remediation Status Reports and/or an Amended CAP.

f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

As mentioned above in Section E. 12., conventional technology, excavation, is not feasible due to the location of the concentrations of the COCs in the soil in relation to the UST system. Additionally, based on the locations of the concentrations of the COCs in the soil and groundwater and the site lithology, other alternative technologies are not feasible.

F. Exposure Pathway Exclusion

Not applicable.

Provide the following:

- 1. A description of the tests to be performed in determining whether the following requirements will be met:
 - a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
 - b. Soil saturation limit will not be exceeded for any of the organic contaminants;
 - c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 III. Adm. Code 721.123;
 - d. Contaminated soils do not exhibit a pH < 2.0 or > 12.5; and
 - e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 III. Adm. Code 721.124.
- 2. A discussion of how any exposure pathways are to be excluded.

G. Signatures

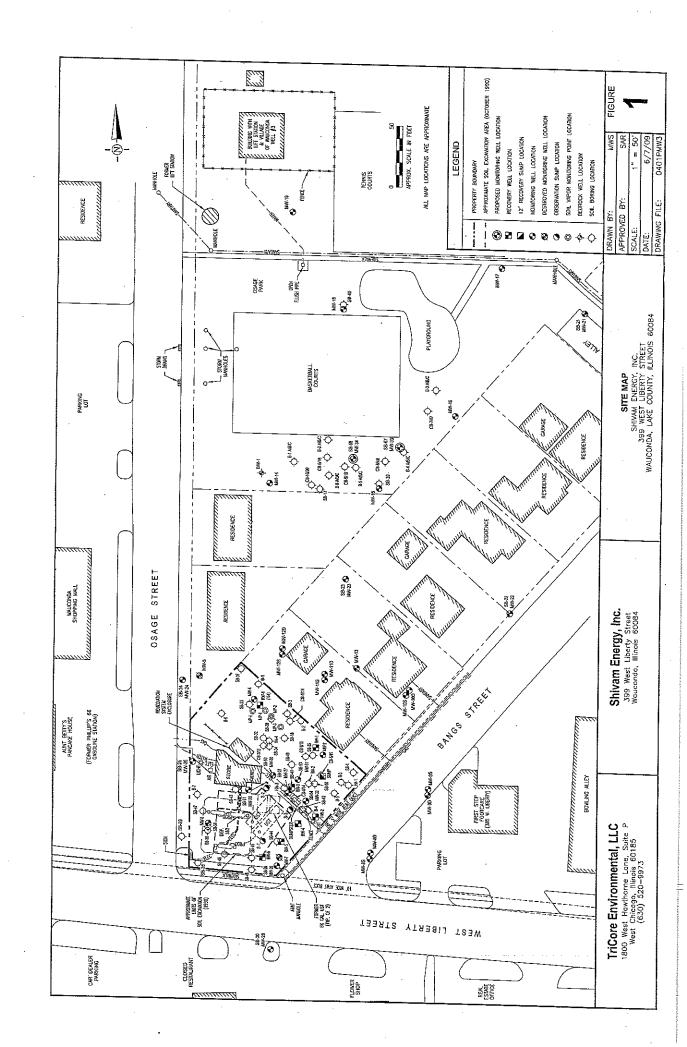
All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

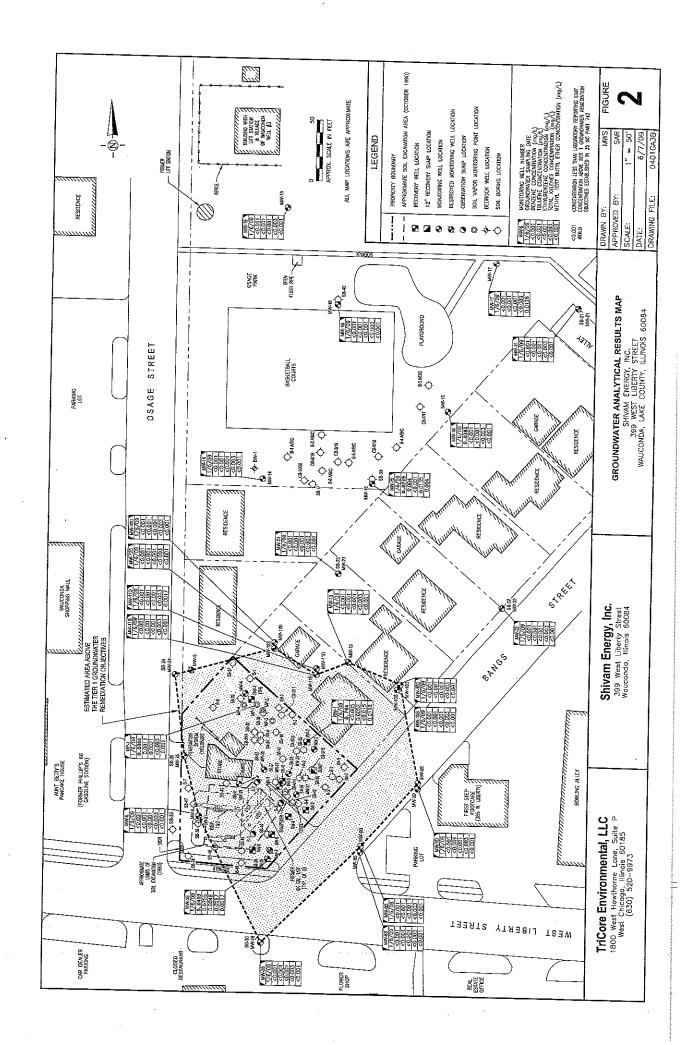
US I Owner or Operator	Consultant
Name: Shivam Energy, Inc.	Company: TriCore Environmental, LLC
Contact: Rajani Patel	Contact: Marcos Czako
Address: 399 West Liberty Street	Address: 1800 West Hawthorne Ln., Suite P
City: Wauconda	City: West Chicago
State: IL	State: IL
ZIP Code: 60084	ZIP Code: 60185
Phone: (847) 7/22-6618	Phone: (630) 520-9973
Signature: <u>Kafam' Hall</u>	Signature: Tax Tipho
Date: 03/27/06	Date: Ole/10/09
, , , _	(('

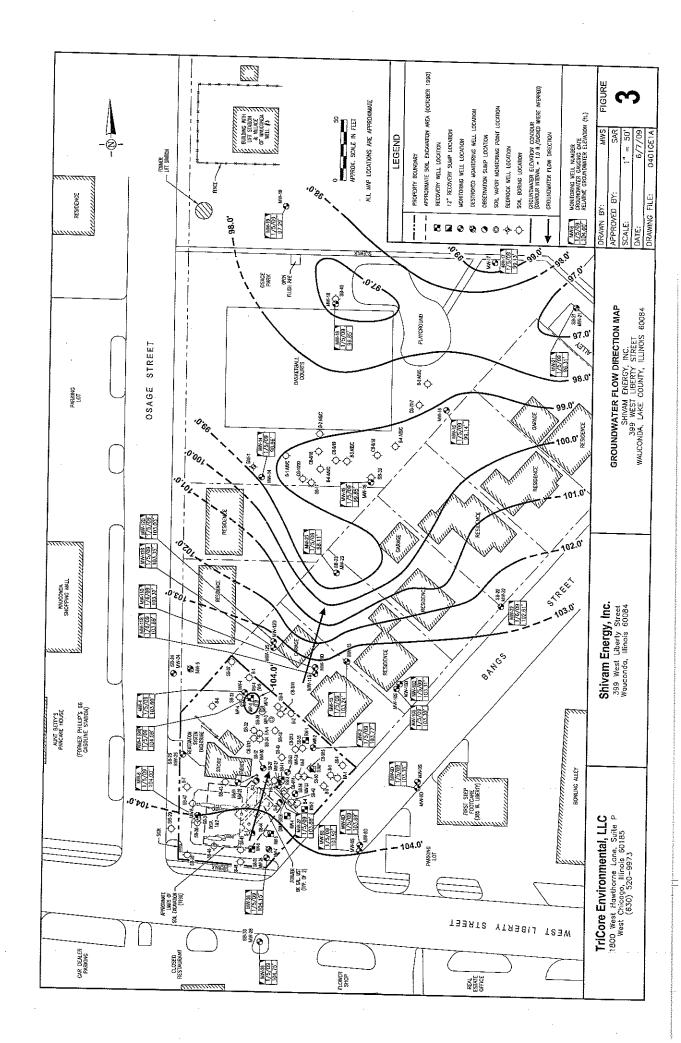
I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

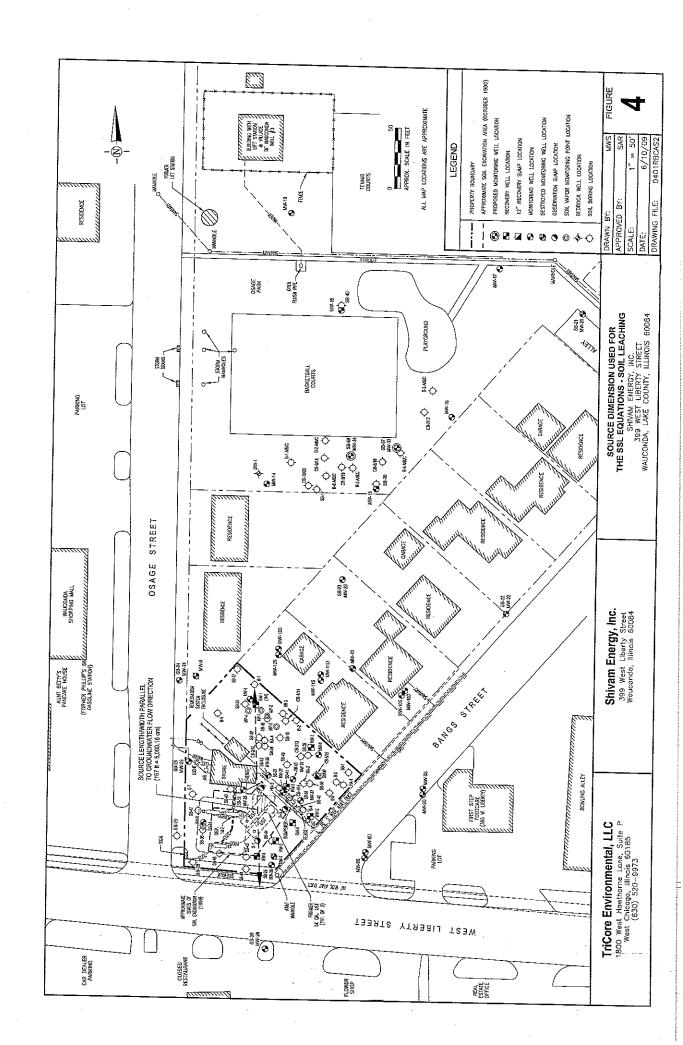
Name: Shawn Rodeck Company: TriCore Environmental, LLC Address: 1800 West Hawthorne Ln., Suite P City: West Chicago State: IL ZIP Code: 60185 Phone: (630) 520-9973 III. Registration No.: 062-052879 License Expiration Date: 11/30/09 Signature: 06/10/09

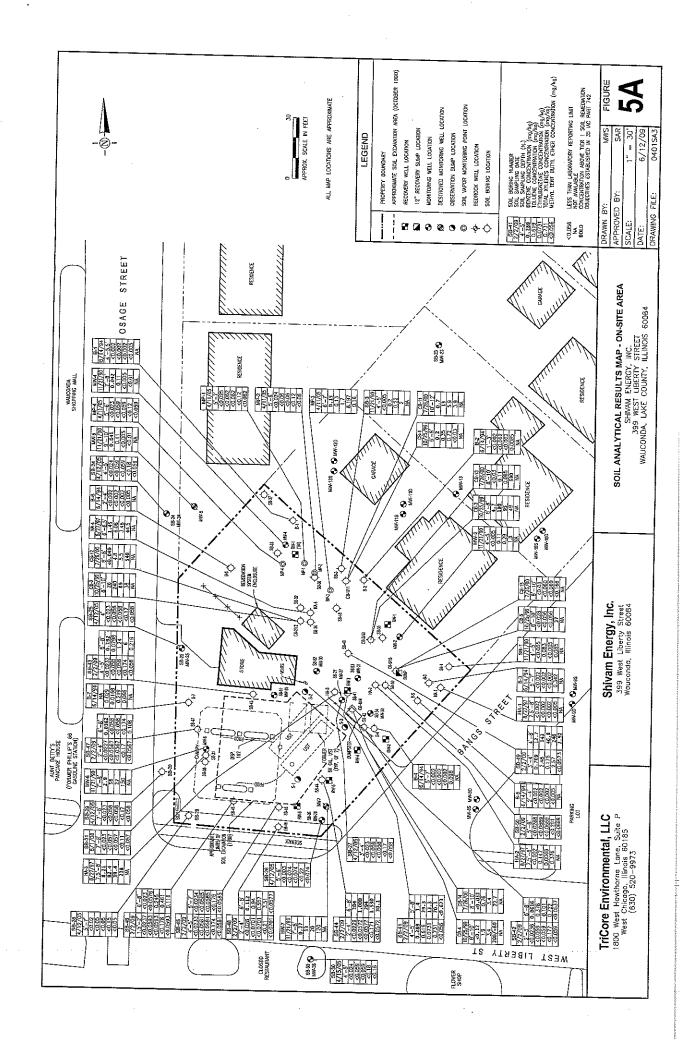
FIGURES

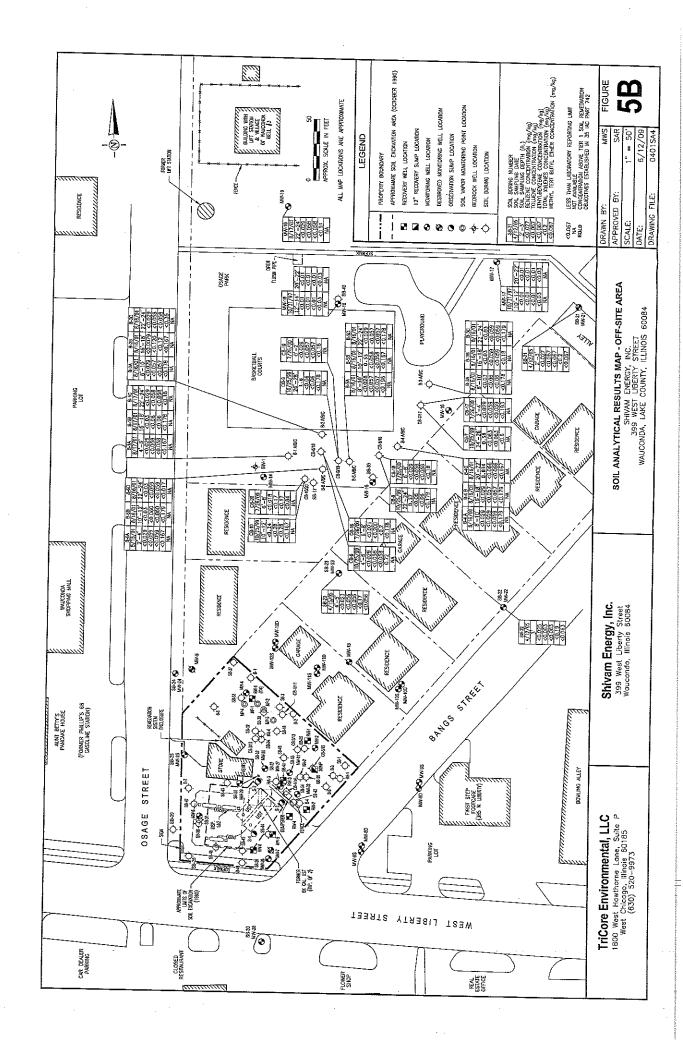


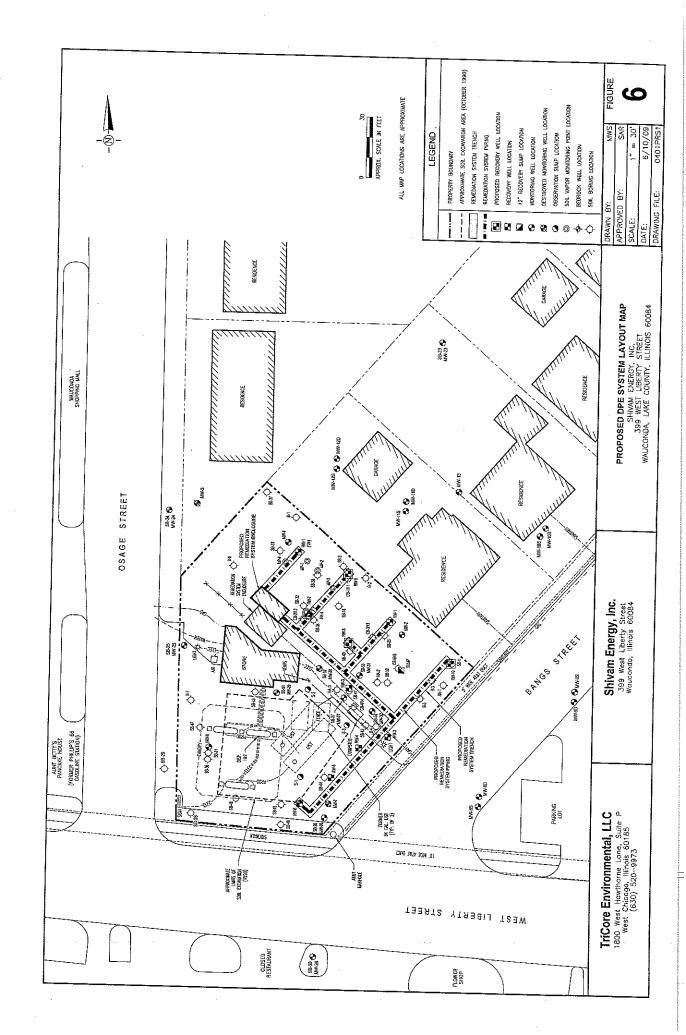


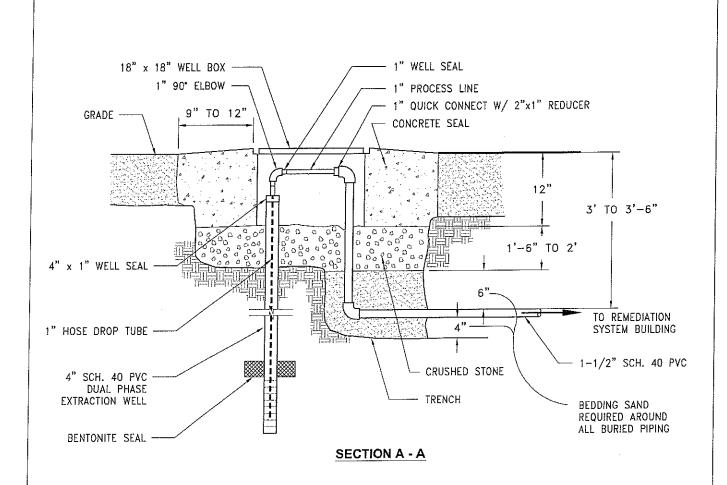


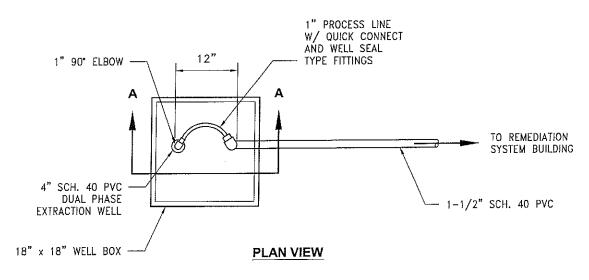












Shivam Energy, Inc.

399 West Liberty Street Wauconda, Illinois 60084

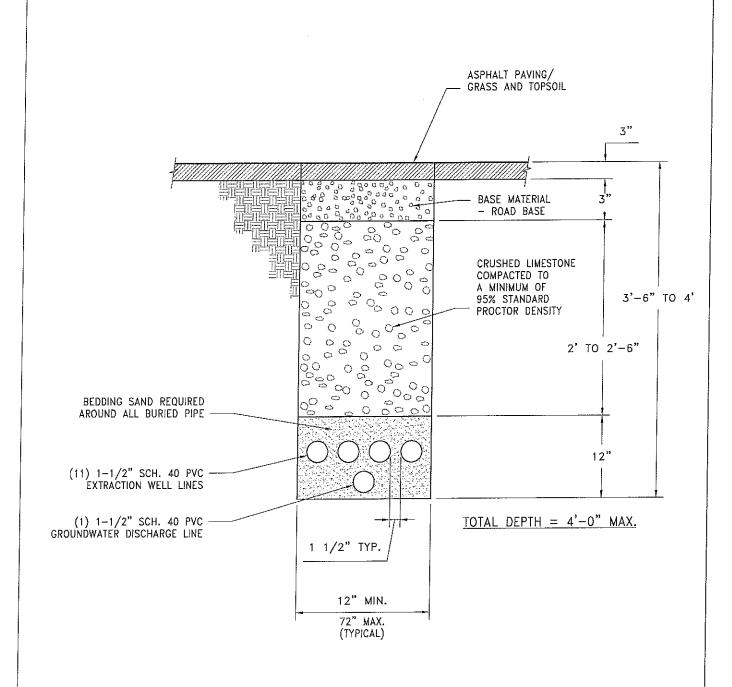
DPE RECOVERY WELL DETAILS

SHIVAM ENERGY, INC. 399 WEST LIBERTY STREET WAUCONDA, LAKE COUNTY, ILLINOIS

DRAWN BY:	MWS
APPROVED BY:	МС
SCALE:	NOT TO SCALE
DATE:	6/10/09
DRAWING FILE:	0401DPWD1

FIGURE

7



TRENCH SECTION SHOWING BACKFILL

Shivam Energy, Inc.

399 West Liberty Street Wauconda, Illinois 60084

SURFACE/TRENCH BACKFILL DETAILS

SHIVAM ENERGY, INC. 399 WEST LIBERTY STREET WAUCONDA, LAKE COUNTY, ILLINOIS

DRAWN BY:	MWS
APPROVED BY:	МС
SCALE:	NOT TO SCALE
DATE:	6/10/09
DRAWING FILE:	0401STBD1

FIGURE

8

Soil Geochemical and Geotechnical Results

lasta est.				242	A Political Annual State		Corporation of the Corporation o		Geochemical and	d Geotec	nnical Par	ameters			eri dia la	asa shellari	
Sample ID	Date Sampled	Sample Depth (fact bis)	PID Reading (ppm)	Sy Carbon Carbon		(b) Reactive Cyanide	Syle Reactive Sulfide	Grain Size	Visual Soli	्र Total Porosity	Moisture Content	g Dry Bulk Density	ු Wet Bulk Density	E Specific Gravity	TPH Gasoline Range Organics	S Chemical Oxygen	Fraction of Organic Carbon
MP-2	11-Apr-05	1-3	0.5	14,000		PARTE MARKET		enemies :									
MP-2	11-Apr-05	5-6	0.7	19,000				e distribution								But the second	
MP-3	11-Apr-06	6-7	238		7.2			14									
\$B-32	1-Jun-06	7-9.5	414			<0.025	<20									100000000000000000000000000000000000000	
SB-32	1-Jun-06	9.5-11	NA					97% Sand 3% Silt	Dark grayish brown, fine grained SAND (SP)	34.4	17.2	108.6	127.2	2.65			
SB-33	18-Jan-07	10-11	31	Pivale de la Carte	elle die		an de la company							i i i i i i i i i i i i i i i i i i i	<12	3,200	
SB-34	18-Jan-07	8-10	1,333												16	1,700	
\$B-35	18-Jan-07	8-10	118												<13	2,000	
SB-36	18-Jan-07	10-11	0.3												<12	5,900	
SB-37	18-Jan-07	6-8	0.4	Approximately	169 100 100										<12	4,200	
SB-38	11-Dec-07	2-3	0.1														3,27
SB-38	11-Dec-07	3-4	0.1						and the could apply		1011V-1711-03		7020000				0.777
SB-39	7-Aug-08	14.25-15.25	NA NA			9.530.55	denbeie	THE PERSON		manoria.		8695H			<11.8	12,769.88	
SB-40	7-Aug-08	16-17	0												<11.8	15,320.15	

- Notes:
 1) PID = photoionization detector
 2) bis = below land surface; mg/kg = milligrams per kilogram; mg/L = milligrams per Liter; ppm = parts per million; pcf = pounds per cubic foot; % = percent; --- = no specific units
- 3) < 1.9 = concentration less than the laboratory reporting limit
 4) The samples were analyzed for grain size analysis, visual soil classification, total porosity, moisture content, dry bulk density, wet bulk density, specific gravity, and fraction of organic carbon using American Society for Testing and Materials methods
- 5) The samples were analyzed for total organic carbon using United States Environmental Protection Agency (USEPA) Method 9060 6) The sample was analyzed for pH using USEPA Method 9045C 7) The sample was analyzed for reactive cyanide using USEPA Method 7.3.3.2

- 7) The sample was analyzed for reactive sulfide using USEPA Method 7.3.4.2
 8) The sample was analyzed for reactive sulfide using USEPA Method 7.3.4.2
 9) The samples were analyzed for total petroleum hydrocarbon (TPH) gasotine range organics using USEPA Method 8015
 10) The samples were analyzed for chemical oxygen demand using USEPA Method 410.4
 11) Shading = not applicable

Soil Analytical Results - Total Metals

Shivam Energy, Inc. 399 West Liberty Street Wauconda, Lake County, Illinois 60084

					C	OCs and T	ier 1 Soil I	Remediatio	n Objecti	/es	1
Ti	er 1 Expo	osure Route	S	YARENIC (mg/kg)	Barium (mg/kg)	Cadmium Cadmium (mg/kg)	(mg/kg)	peed (mg/kg)	Kunorew Werching (mg/kg)	Wnjunjes Seleujing (mg/kg)	Janjis Silver (mg/kg)
Inhalation - Resid	dential			750	690,000	1,800	270		10		
Ingestion - Resid	lential			13	5,500	78	230	400	23	390	390
Sample ID	Date Sampled	Sample Depth (feet bis)	PID Reading (ppm)								
SB-33	18-Jan-07	10-11	31	2.8	6.4	<0.59	3.9	2.2	0.012	<2.4	<1.2
SB-34	18-Jan-07	8-10	1,333	<2.4	3.6	<0.61	3.1	2	<0.012	<2.4	<1.2
SB-35	18-Jan-07	8-10	118	<2.5	4.3	< 0.63	3.1	2.1	<0.013	<2.5	<1.3
SB-36	18-Jan-07	10-11	0.3	5.3	31	<0.58	15	6.2	<0.012	<2.3	<1.2
SB-37	18-Jan-07	6-8	0.4	<2.3	41	<0.58	18	7.6	0.017	<2.3	<1.2
SB-39	7-Aug-08	14.25-15.25		2.3	41.9	<0.29	14.4	5.9	<0.012	<1.2	<0.59
SB-40	7-Aug-08	16-17	0	3.8	40.7	<0.3	12.3	6.5	0.012	<1.2	<0.59

Notes:

- 1) PtD = photoionization detector; COCs = constituents of concern
- 2) bls = below land surface; mg/kg = milligrams per kilogram; ppm = parts per million
- 3) <1.9 = concentration less than the laboratory reporting limit
- 4) The soil samples were analyzed for arsenic, barium, cadmium, chromium, lead, selenium, and silver using United States Environmental Protection Agency (USEPA) Method 6010B
- 5) The soil samples were analyzed for mercury using USEPA Method 7471A
- 6) --- = no toxicity criteria available for the route of exposure
- 7) All concentrations are below the Tier 1 soil remediation objectives established in 35 Illinois Administrative Code Part 742
- 8) Shading = not applicable

Groundwater Geochemical Results

		5 (5 (6 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5	Geochemica	l Parameters	
		Chemical Oxygen Demand	TPH Casoline Range Organics	Total Kjeldahl Nitrogen	Total Phosphorus
Sample ID	Date Sampled	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-2	19-Jan-07	96	12	1.1	<0.5
MW-11S	19-Jan-07	28	0.2	<1	<0.5
MW-18	19-Jan-07	<21	<0.1	8.5	<0.5
MW-26	19-Jan-07	66	0.13	<1	<0.5
MP-1	19-Jan-07	34	3.1	<1	<0.5
MW-15	23-Jun-08	35.3	0.46	1.2	<0.17
MW-18	23-Jun-08	17.4	<0.0396	8.4	0.18

- 1) mg/L = milligrams per Liter
- 2) <0.005 = concentration less than the laboratory reporting limit
- 3) All groundwater samples were analyzed for chemical oxygen demand United States Environmental Protection Agency (USEPA) Method 410.4
- 4) All groundwater samples were analyzed for total petroleum hydrocarbon (TPH) gasoline range organics using USEPA Method 8015
- 5) All groundwater samples were analyzed for total kjeldahl nitrogen using USEPA Method 351.2
 6) All groundwater samples were analyzed for total phosphorus using USEPA Method 365.4
- 7) Shading = not applicable

Groundwater Analytical Results - Dissolved Metals

Shivam Energy, Inc. 399 West Liberty Street Wauconda, Lake County, Illinois 60084

			COC	s and Tier	1 Groundw	ater Reme	diation Ob	jectives	
Tier 1 E	xposure Routes	(mg/L)	mp/L)	(L) Cadmium	Chromium (mg/r)	ead (mg/L)	Mercury (mg/L)	(mg/L)	iew S (mg/L)
GCGIER - Class	l Groundwater	0.05	2	0.005	0.1	0.0075	0.002	0.05	0.05
GCGIER - Class	II Groundwater	0.2	.2	0.05	1	0.1	0.01	0.05	
Sample ID	Date Sampled								
MW-2	19-Jan-07	<0.02	0.13	<0.005	< 0.005	<0.0075	<0.0002	<0.02	<0.01
MW-11S	19-Jan-07	<0.02	0.058	<0.005	<0.005	<0.0075	<0.0002	<0.02	<0.01
MW-18	19-Jan-07	<0.02	0.17	<0.005	<0.005	<0.0075	<0.0002	<0.02	<0.01
MW-26	19-Jan-07	<0.02	0.055	<0.005	<0.005	<0.0075	<0.0002	<0.02	<0.01
MP-1	19-Jan-07	<0.02	0.19	<0.005	<0.005	<0.0075	<0.0002	<0.02	<0.01
MW-15	23-Jun-08	<0.0012	0.0988	0.00058	< 0.00011	0.0044	<0.0001	<0.0016	<0.00034
MW-18	23-Jun-08	0.014	0.176	0.00014	0.0012	0.0039	<0.0001	<0.0016	<0.00034

Notes:

- 1) GCGIER = groundwater component of the groundwater ingestion exposure route; COCs = constituents of concern
- 2) mg/L = milligrams per Liter
- 3) <0.005 = concentration less than the laboratory reporting limit
- 4) All concentrations are below the Tier 1 groundwater remediation objectives established in 35 Illinois Administrative Code Part 742
- 5) All groundwater samples were analyzed for arsenic, barium, cadmium, chromium, lead, selenium, and silver using United States Environmental Protection Agency (USEPA) Method 6010B
- 6) All groundwater samples were analyzed for mercury using USEPA Method 7470A
- 7) --- = no toxicity criteria available for route of exposure

TABLE 5

Free Product Recovery Volumes

	Recovery/Gauging	Depth to Free Product	Depth to Water	Free Product	Free Product Recovered	Free Product and Groundwater Recovered
WellID	Date	(feet below TOC)	(feet below TOC)	(feet)	(gallons)	(gallons)
MW-2	29-Nov-90	10.00	10.30	0.30		
MW-2	27-Jan-92	FP				
MW-2	19-Feb-92	FP				
MW-2	24-Aug-92	FP				and the second second
MW-2	19-Jan-93	FP				PARTIES CHARLES
MW-2	27-Jun-94	10.95	10.96	0.01		
MW-6	11-Oct-01	sheen	7.39			
MW-6	14-Mar-02	sheen	6.93			
MW-6	6-Jun-02	sheen	6.7			
MW-6	30-Aug-02	sheen	7.27			
MW-6	6-Dec-02	sheen	7.83			
MW-6	6-May-04	sheen	7.45			
MW-7	29-Nov-90	7.39	7.69	0.30		
S-1	31-Dec-08	6.15	6.19	0.04	15	2,500
S-1	5-Jan-09	6.95	7.00	0.05	0.01	4
S-1	9-Jan-09	6.95	6.99	0.04	10	2,000
S-1	27-Jan-09	7.78	7.87	0.09	10	2,100
S-1	30-Jan-09	8.83	8.87	0.04		in an anabata ana an an a
S-1	26-Feb-09	7.23	7.31	0.08	0.01	4
S-1	9-Mar-09	5.97	6.03	0.06	15	3,000
S-1	13-Mar-09	6.43	6.47	0.04	14	2,800
S-1	1-Apr-09	6.2	6.23	0.03	10	2,000
S-1	19-May-09	6.94	6.99	0.05	10	
S-2	31-Dec-08	6.24	6.27	0.03	See S-1 Above	See S-1 Above
S-2	27-Jan-09	9.19	9.30	0.11	See S-1 Above	See S-1 Above
S-2	26-Feb-09	7.32	7.39	0.07	See S-1 Above	See S-1 Above
S-2	9-Mar-09	6.04	6.08	0.04	See S-1 Above	See S-1 Above
S-2	13-Mar-09	6.52	6.55	0.03	See S-1 Above	See S-1 Above
S-2	1-Apr-09	6.25	6.27	0.02	See S-1 Above	See S-1 Above
S-2	19-May-09	6.95	7.00	0.05		
S-3	31-Dec-08	6.23	6.26	0.03	See S-1 Above	See S-1 Above
S-3	5-Jan-09	6.77	6.82	0.05	0.01	4
S-3	9-Jan-09	6.96	7.02	0.06	See S-1 Above	See S-1 Above
S-3	9-Jan-09 27-Jan-09	8.15	8.3	0.15	See S-1 Above	See S-1 Above
S-3 S-2	30-Jan-09	8.93	8.97	0.13	DOD C 17DOVG	
S-2 S-3	26-Feb-09	7.32	7.39	0.07	See S-1 Above	See S-1 Above
S-3	9-Mar-09	6.04	6.10	0.06	See S-1 Above	See S-1 Above
S-3	13-Mar-09	6.51	6.54	0.03	See S-1 Above	See S-1 Above
S-3	1-Apr-09	6,26	6.29	0.03	See S-1 Above	See S-1 Above
S-3 S-3	19-May-09	7.05	7.10	0.05	A SAUGHER AND A SAUGH	
S-3 MW-27	31-Dec-08	6,97	7.10	0.06	See S-1 Above	See S-1 Above
MW-27	5-Jan-09	7.25	7.03	0.06	0.01	4
MW-27	5-Jan-09 6-Jan-09	7.25	7.35	0.1	0.01	1
	6-Jan-09 9-Jan-09	7.3 7.29	7.36	0.06	See S-1 Above	See S-1 Above
MW-27				0.1	See S-1 Above	See S-1 Above
MW-27	27-Jan-09	7,59 7.66	7.72 7.68	0.13	See S-1 Above	See S-1 Above
MW-27	30-Jan-09		7.86	0.02	See S-1 Above	See S-1 Above
MW-27 MW-27	26-Feb-09 13-Mar-09	7.28 6.82	7.35 6.825	0.005	See S-1 Above	See S-1 Above
INIAA-51	13-Mai-08	0,02	0.020	Totals:	74.05	14,417.0

Notes:

1) TOC = top-of-casing

2) Shading = not applicable or not present

3) See S-1 above indicates that the individual volumes of product and groundwater recovered for each well was not noted during that event. The total volumes recovered during that event are noted in S-1.

Groundwater Elevation and Analytical Results - BTEX and MTBE

		1	ier 1 Expos	ure Routes			COC Benzen (mg/L)	e Toluen	e Ethylbenzer	Remediation Of ne Total Xylene (mg/L)	The second second
	Class I Ground						0.005 0.025	1 2.5	0.7	10 10	0.07
Sample	Class II Groun Date Sampled	Reference Elevation (feet)		Water	Thickness	t Groundwate Elevation (feet)	233	2.5			0.07
MW-2	29-Nov-90	ı İ	10.00	10.30	0.30	2000					
MW-2	27-Jan-92	endertestat versiont para	FP								
MW-2 MW-2	19-Feb-92 24-Aug-92	2 4/200 00/03/4/10/04/04/05	FP FP								
MW-2	19-Jan-93		FP								
MW-2	17-Jun-93	101.06		10.71		90,35	0.23	3.2	0.65	15	90.53
MW-2	11-Nov-93	1	40.00	10.96 10.96	0.01	90,10 90,11	0.134	0.01	0.052	1.43	
MW-2 MW-2	27-Jun-94 16-Feb-95	101.06 101.06	10.95	10.96	0.01	90.11	0.178	0.0313	0.447	0.3	
MW-2	28-Jul-95	101.06		10.13		90.93	0.257	0.117	0,139	0,808	
MW-2	22-Mar-96	101.06		11.14		89.92	0.1	0.154	0.331	3.93	
MW-2	17-Jun-96	101.06		9.33		91.73	0,0029	0.0041	0.0107	0.355	
MW-2 MW-2	25-Sep-96 24-Apr-97	101.06 101.06		10.68 9.89		90.38 91.17	0.0154 1.11	0.0167 3.1	0.0546 0.71	0.584 5.76	
MW-2	17-Jun-97	101.06		9.88		91,18	2.57	3.85	0.487	5.53	
MW-2	27-Aug-97	101.06		10.48		90.58	0,116	0,519	0.534	7.45	
MW-2	5-Nov-97	113.61		10.75		102.86	0.076	0.02	0.31	2.4	
MW-2	27-Feb-98	113.61	Joseph Graff	10.23		103.38	0.17	0.029	0.074	0.73 0.15	18-65
MW-2 MW-2	10-Jun-98 8-Oct-98	113.61 113.61		10.08 10.31		103.53 103.30	0.0079	0.0011	0,0075	1.38	
MW-2	31-Mar-99	113.61		10.12		103.49	0.64	0.024	0.087	250/<5	1500
MW-2	9-Jun-99	113.61		10.00	0.00	103.61	0.77	0.22	0.075	0.62	100
MW-2	2-Sep-99	113.61		10.60		103.01	0.086	0.0076	0.029	0.066	100000
MW-2	28-Oct-99 23-Feb-00	113.61 113.61		10.52 10.32		103.09 103.29	0.16 0.55	0.0025	0.016 0.27	0.041 0.861	
MW-2 MW-2	24-May-00	113.61		9.77		103.29	0.09	0.11	0.11	1.37	
MW-2	15-Aug-00	113.61		10.21		103.40	0.36	0.13	0.054	0.41	
MW-2	9-Nov-00	113,61		10.03		103.58	0.14	0,099	0.12	0.96	
MW-2	11-Oct-01	113.61		10.24		103.37	0.027	0.036	0.02	0.142 0.72	
MW-2 MW-2	14-Mar-02 6-Jun-02	113,61 113,61		9.85 9.62		103.76 103,99	0.083	0,012 0.052	0,13 0,32	3.08	
MW-2	30-Aug-02	113.61	en an de de la	10.16		103,45	0.017	0.0058	0.073	0.448	
MW-2	6-Dec-02	113.61		10.62		102.99	0.012	<0.001	0.003	0.0031/<0.001	
MW-2	6-May-04	113.61		10.34		103,27	0.031	0.0014	0.0046	0.003	<0.01
MW-2	21-Apr-05 31-Dec-08	113.61 113.61		10,17 9,58	4025-901-500-00-	103.44 104.03	0.035	<0.001	0.0022	0.029	0.024
MW-2 MW-2	5-Jan-09	113.61		9.84		104.03					
MW-2	6-Jan-09	113.61			4 (45)		0	bstruction i	n well, not able	to collect sample:	ŝ
MW-4	28-Nov-90						3.5	0.33	0.27	1.1	
MW-4	27-Jan-92						3.1 0.14	0.065 0.024	0.072 0.19	4.147 0.49	
MW-4 MW-4	24-Aug-92 19-Jan-93						0.14	0.006	BDL	0.021	
MW-4	17-Jun-93	98.97		8.22		90,75	0.015	<0.001	<0,001	0.005	
MW-4	11-Nov-93	98.97		8.58	8 (2 (5)	90.39	<0.001	<0.001	<0.001	<0.001	
MW-4	27-Jun-94	98.97		8.65	10 10 10 12	90.32	0.154 0.253	0.0243 0.113	0.0081 0.0845	0.0098 0.202	2
MW-4 MW-4	16-Feb-95 28-Jul-95	98.97 98.97		8.24 8.06		90.73 90.91	0.253	0.113	0.0845	0.202	
MW-4	22-Mar-96	98,97		8.75		90.22	0.363	0.346	0.178	0.456	
MW-4	17-Jun-96	98.97		5.79	arive starting	93.18	<0.002	<0.002	<0.002	<0.005	
MW-4	25-Sep-96	98.97		8.44		90.53	0.0032	<0.002	0.0052	0,0052	
MW-4	24-Apr-97	98.97		7.84 6.87		91.13 92.10	0.444 0.386	0.0255 0.0359	0.0945 0.125	0.11 0.273	
MW-4 MW-4	17-Jun-97 27-Aug-97	98.97 98.97		8.23		90.74	0.0568	0.0333	0.128	0.273	
MW-4	5-Nov-97	111.44		8.54		102.90	0.037	0,0035	0.043	0.11	
MW-4	27-Feb-98	111.44		7.98		103.46	0.13	<0.005	<0.005	0.04	
MW-4	10-Jun-98	111.44		7.94		103.50	0.029 0.018	0.019 0.0024	0.022 0.033	0.052 0.1/<0.001	
MW-4 MW-4	8-Oct-98 31-Mar-99	111.44 111.44		8.52 8,07		102.92 103.37	<0.001	<0.0024	<0.001	<0.003	6.00
MW-4	9-Jun-99	111.44		8.07	S 0. 7. 6	103.37	0.36	0.028	0.28	0.8228	
MW-4	2-Sep-99	111.44		9.50		101.94	0.18	0.017	0.28	1.1/<0.005	
MW-4	28-Oct-99	111.44	tions will disease	8.44		103.00	0.073	0.0046	0.095	0,360/<0.004	
MW-4	23-Feb-00	111.44		8.17		103.27 103.75	0.57 0.095	<0.005 0.0057	0.042 0.01	0.061/<0.005 0.0089/<0.001	
MW-4 MW-4	24-May-00 15-Aug-00	111.44 111.44		7.69 8,10		103.75	0.095	0.022	0.01	0.140/<0.0025	
MW-4	9-Nov-00	111,44		7.97		103.47	0.16	<0.025	0.13	0.064/<0.005	
MW-4	11-Oct-01	111.44		8.11		103.33	0.039	0.005	0.03	0.013/<0.001	
MW-4	14-Mar-02	111.44		7.68		103.76	0.13	0.0049	<0.001	< 0.003	
MW-4	6-Jun-02	111.44		7.35		104.09	0.013	<0.001	0.0058	0.0025/<0.001	

Groundwater Elevation and Analytical Results - BTEX and MTBE

							coe	and Tier 1	Groundwater I	Remediation Of	ectives =
		Ţ	ier 1 Exposu	ire Routes			Benzen		Ethylbenzen	market and the second second	41 Sept 200 miles
455							(mg/L)	· · · · · · · · · · · · · · · · · · ·	(mg/L)	(mg/L)	
	lass i Ground lass il Groun						0.005 0.025	2.5	0,7	10	0.07
Sample ID	Date Sampled	Reference Elevation	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC	Thickness	Groundwater Elevation (feet)					
MW-4	30-Aug-02	ł		8.05		103.39	0.14	0.013	0.035	0.031/<0.001	100000 10000 Nage
MW-4 MW-4	6-Dec-02 6-May-04	111.44 111.44		8.53 8.25		102.91 103.19	0.17	0.004 Obstruction	0.0016 in well, not able	0.016/<0.001 to collect sample	
MW-4	21-Apr-05	111.44	rangago e	8.07	E Medicine	103.37	0,14	0.003	<0.001	0.0035	0.0011
MVV-4	5-Jan-09	111.44		7.64		103.80	Hant				
MW-4 MW-5	6-Jan-09 28-Nov-90	111.44					<0,005	<0.005	in well, not able <0.005	to collect sample	es
MW-5	27-Jan-92						<0.002	<0.002	<0.002	<0.005	
MW-5	24-Aug-92					D Sub-sh	<0.002	<0.002	<0.002	<0.005	
MW-5	19-Jan-93	05.44	NAMES OF	4.71		90.73	8DL <0.001	BDL <0.001	BDL <0.001	8DL <0.001	graden.
MW-5 MW-5	17-Jun-93 11-Nov-93	95.44 95.44		5.09		90.75	<0.001	<0.001	<0.001	<0.001	
MW-5	27-Jun-94	95.44		5,31		90.13	<0.001	<0.001	<0.001	<0.003	
MVV-5	16-Feb-95	95.44		4.81		90,63	<0.002	<0.002	<0.002	<0.005	
MW-5	28-Jul-95	95.44 95.44	TO DESCRIPTION OF THE PARTY OF	4.99 5.28		90.45 90.16	<0.0073 <0.002	<0.002 <0.002	<0.002 <0.002	<0.005 <0.005	
MW-5 MW-5	22-Mar-96 17-Jun-96	95.44		4.24		91.20	<0.002	<0.002	<0.002	<0.005	
MVV-5	25-Sep-96	95.44		5,07		90.37	<0.002	<0.002	<0.002	<0.005	
MW-5	24-Apr-97	95.44		4.40		91.04	<0.002	<0.002	<0.002	<0.005 <0.003	
MW-5 MW-5	17-Jun-97 27-Aug-97	95.44 95.44		4.34 4.84		91.10 90.60	<0.002 <0.002	<0.002 <0.002	<0.002 <0.002	<0.003	SERVICE SERVICE
MW-5	5-Nov-97	108.15		5.21		102.94	<0.001	<0.001	<0.01	<0.003	ACCUSED
MW-5	27-Feb-98	108.15		4.58		103.57	<0.001	<0.001	<0.001	<0.003	10.00
MW-5	10-Jun-98	108.15	510000	4.53		103.62	<0.001	<0,001	<0.001 <0.001	<0.003 <0.003	
MW-5 MW-5	8-Oct-98 31-Mar-99	108.15 108.15		4.78 4.76		103,37 103,39	<0.001 0.053	<0.001 0.07	0.001	0.38	
MW-5	9-Jun-99	108,15		4.65		103,50	<0.001	<0.001	<0.001	<0.003	
MW-5	2-Sep-99	108.15		5.34		102.81	<0,001	<0.001	<0.001	<0.002	
MW-5	28-Oct-99	108.15		5.19		102.96	<0.001	<0.001	<0.001	<0.003	
MW-5 MW-5	23-Feb-00 24-May-00	108.15 108.15		4.92 4.34	4.00	103,23 103,81	<0.001	<0.001	<0.001	<0.003	
MW-5	15-Aug-00	108.15		4.81		103.34	<0.001	<0.001	<0.001	<0.003	Alve, r
MVV-5	9-Nov-00	108.15		4.75		103.40	<0.001	<0.001	<0.001	<0.003	
MW-5	11-Oct-01	108.15		4.80	40000000	103.35	<0.001 <0,001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-5 MW-5	14-Mar-02 6-Jun-02	108.15 108.15		4.41 4.63		103.74 103,52	<0.001	<0.001	<0.001	<0.003	
MW-5	30-Aug-02	108.15		4.75		103.40	<0.001	<0.001	<0.001	<0.003	
MW-5	6-Dec-02	108.15		5.24		102.91	<0.001	<0.001	<0.001	<0.003	
MW-5 MW-6	6-May-04 28-Nov-90					1.000	<0,005	<0.005	Well destroye <0.005	a <0.01	
MW-6	27-Jan-92				a de la companya de						
MW-6	24-Aug-92	Stephological									
MW-6	19-Jan-93	00.45		7.07		91.39	BDL <0.001	BDL <0.001	BDL <0.001	BDL <0.001	i Wasan
MW-6 MW-6	17-Jun-93 11-Nov-93	98.46 98.46		7.07 7.63		90.83	<0.001	<0.001	<0.001	<0.001	
MW-6	27-Jun-94	98.46		7.57		90.89	<0.001	<0.001	<0.001	<0.003	1000000
MW-6	16-Feb-95	98.46		7.41		91.05	<0.002	<0.002	<0.002	<0.005	
MW-6 MW-6	28-Jul-95 22-Mar-96	98.46 98.46		7.11 7.89		91.35 90.57	0.0045 <0.002	<0.002 <0.002	<0.002 <0.002	<0.005 <0.005	
MW-6	22-Mar-96 17-Jun-96	98.46		6.11		92.35	<0.002	<0.002	<0.002	<0.005	100000
MW-6	25-Sep-96	98.46		7.59		90.87	<0.002	<0.002	<0.002	<0.005	200
MW-6	24-Apr-97	98.46		6.87		91.59	<0.002 <0.002	<0.002 <0.002	<0.002 <0.002	<0.005 <0.005	
MW-6	17-Jun-97 27-Aug-97	98.46 98.46	na steppining	6.81 7.34		91.65 91.12	<0.002	<0.002	<0.002	<0.005	
MW-6	5-Nov-97	111.06		7.74		103,32	<0.001	<0.001	<0.002	<0.003	
MW-6	27-Feb-98	111.06		7.03		104.03	<0.001	<0.001	<0.001	<0.003	
MW-6	10-Jun-98	111.06		6,97		104.09 103.78	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-6 MW-6	8-Oct-98 31-Mar-99	111.06 111.06		7.28 7.14		103.78	<0.001	<0.001	<0.001	<0.003	
MW-6	9-Jun-99	111.06		6.95		104.11	<0.001	<0.001	<0.001	<0.003	
MW-6	2-Sep-99	111.06		7.71		103.35	<0.001	<0.001	<0.001	<0.002	11000
MW-6	28-Oct-99	111.06		7.64 7.42		103.42 103.64	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.002 <0.003	4555
MW-6 MW-6	23-Feb-00 24-May-00	111.06 111.06		6.68		104.38	<0.001	<0.001	<0.001	<0.003	
1	15-Aug-00	111.06		7.25		103,81	0.58	3.1	0.55	2.49	
MW-6	9-Nov-00	111.06		7.11		103.95	0.069	1	0.35	2.3	
MW-6	11-Oct-01 14-Mar-02	111.06	sheen sheen	7.39 6.93		103.67 104.13	0.0029	0.002	0.015	0.032	
MW-6	1-4-Wid1-UZ	111.06	pileeti	0.33			3.5525			E	TOTAL CALCULATION CO.

Groundwater Elevation and Analytical Results - BTEX and MTBE

			and the factors and					Sed Ting	1 Groundwater	Demediation (hiactives
		T	ier 1 Exposi	ure Routes			Benzen			e Total Xylen	Andrew Control
							(mg/L)			(mg/L)	(mg/L)
GCGIER - C	Class I Ground Class II Groun	twater					0,005 0.025	1 2.5	0.7	10	0.07
GCGIER - C	Jass II Giberi	Reference	Static Depth to	Static Depth to	Free Produc	t Groundwate	. PA L		<u> </u>	<u> </u>	3.07
Sample ID	Date Sampled	Elevation	Free Product (feet below TOC	Water	Thickness	Elevation (feet)					
MW-6	6-Jun-02	111.06	sheen	6.70		104.36	0.0017	0.0016	0.012	0.0256	
MW-6	30-Aug-02	ì	sheen	7.27		103.79	0,0015	0.0011	0.1	0.0245	
MW-6 MW-6	6-Dec-02 6-May-04	111.06 111.06	sheen sheen	7.83 7.45		103.23 103.61	<0.001 <0.001	<0.001 <0.001	0.0041 0.001	0.0099 <0.003	<0.001
MW-6	21-Apr-05	111.06		7.26		103.80					
MW-6	22-Apr-05					401.00	<0,001	<0.001	<0.001	<0.003	<0.001
MW-6 MW-6	29-Dec-08 5-Jan-09	111.06 111.06		6.67 7.06		104.39 104.00					
MW-6	6-Jan-09	111,06					<0.001	<0.001	<0.001	<0.003	<0,001
MW-7	29-Nov-90		7.39	7,69	0.30			100000			
MW-7 MW-8S	21-Apr-05 1-Apr-91	86.88		6.61		80.27	<0.005	<0.005	Well destroy	/ea <0.01	
MW-8S	27-Jan-92		dade Paris				<0.002	<0.003	< 0.002	<0.01	
MW-8S	24-Aug-92		and the second				<0.002	<0.003	<0.002	<0.007	
MW-8S	19-Jan-93	00.00		7 50		00.72	<0.001	<0,001	<0.001	<0.001	
MW-8S MW-8S	17-Jun-93 11-Nov-93	98.29 98.29	to the state of	7.56 7.58	tin (in although	90.73 90.71	<0.001	<0.001	<0.001	<0.001	200
MW-8S	27-Jun-94	98.29		7.46		90.83	<0.001	<0.001	<0.001	<0.003	
MW-8S	16-Feb-95	98.29		7.43		90.86	<0.002	<0.002	<0.002	<0.005	
MW-8S MW-8S	28-Jul-95 22-Mar-96	98.29 98.29		7.14 7.73		91.15 90.56	<0.0034 <0.002	<0.002 <0.002	<0.002 <0.002	<0.005 <0.005	
MW-8S	17-Jun-96	98.29		6,46		91.83	<0.002	<0.002	<0.002	<0.005	
MW-8S	25-Sep-96	98.29		7.49		90.80	<0.002	<0.002	<0.002	<0.005	
MW-8S	24-Apr-97	98.29		6,94		91.35	<0.002	<0.002	<0.002	<0.005	
MW-8S	17-Jun-97	98.29	Section Control	6.86		91.43	<0.002	<0.002 <0.002	<0.002 <0.002	<0.005 <0.005	
MW-8S MW-8S	27-Aug-97 5-Nov-97	98.29 110.89		7.26 7.62		91.03 103.27	<0.002	<0.002	<0.002	<0.003	
MW-8S	27-Feb-98	110.89		7,50	Alleria essenti	103.39	<0.001	<0.001	<0.001	< 0.003	
MW-8S	10-Jun-98	110.89		6.95		103.94	<0.001	<0.001	<0.001	<0.001	
MW-8S	8-Oct-98	110.89		7.19		103,70 103,77	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	15000
MW-8S MW-8S	31-Mar-99 9-Jun-99	110.89 110.89		7.12 7.00		103.77	<0.001	<0.001	<0.001	<0.003	
MW-8S	2-Sep-99	110.89		7.61		103.28	<0,001	<0.001	<0.001	<0.002	
MW-8S	28-Oct-99	110.89		7.56		103.33	<0.001	<0.001	<0.;001	<0.002	
MW-8S	23-Feb-00	110,89		7.48	olodoste di	103.41 104.12	<0.001 <0.001	0.0024 <0.001	<0.001 <0.001	<0.0041 <0.003	
MW-8S MW-8S	24-May-00 15-Aug-00	110.89 110.89		6.77 7.62		103.27	<0.001	<0.001	<0.001	<0.003	
MW-8S	9-Nov-00	110.89		7.20		103.69	<0.001	<0,001	<0.001	<0.003	
MW-8S	11-Oct-01	110.89		7,26		103.63	<0.001	<0.001	<0.001	<0.003	1000
MW-8S	14-Mar-02 6-Jun-02	110.89 110.89		6.91 6.71		103.98 104.18	<0,001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-8S MW-8S	30-Aug-02	110.89		7.18		103.71	<0.001	<0.001	<0.001	<0.003	
MW-8S	6-Dec-02	110.89		7.64		103.25	<0.001	<0,001	<0.001	<0.003	
MW-8S	6-May-04	110.89		7.39		103,50	<0.001	<0.001	<0.001	<0.003	<0.001
MW-8S MW-8S	21-Apr-05 22-Apr-05	110.89	Garage Continues	7.22		103.67	<0.001	<0,001	<0.001	<0.003	<0.001
MW-8S	5-Jan-09	110.89		6.97		103.92		ra, i			
MW-8S	6-Jan-09	110.89	B (200) 200 (2	7.00		103.89	<0.001	<0.001	<0.001	<0.003	<0.001
MW-8D	1-Apr-91	86,96		6.77		80.19	<0.005	<0.005	<0.005 <0.002	<0.01 <0.005	
MW-8D MW-8D	27-Jan-92 24-Aug-92						<0.002 <0.002	<0.002 <0.002	<0.002	<0.005	
MW-8D	19-Jan-93							iotostalia		energena on	
MW-8D	17-Jun-93										
MW-8D	11-Nov-93	98.31		7.50		90.81 90.37	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.003	
MW-8D MW-8D	27-Jun-94 16-Feb-95	98.31 98.31		7.94 7.80		90.51	<0.001	0.0039	<0.001	<0.005	
MW-8D	28-Jul-95	98.31		7.65		90.66	0.0023	<0.002	<0.002	0.0054	
MW-8D	22-Mar-96	98.31		8.06		90.25	<0.002	<0.002	<0.002	<0.005	
MW-8D	17-Jun-96	98.31		6.81 7.55		91.50 90.76	<0.002 <0.002	<0.002 <0.002	<0.002 <0.002	<0.005 <0.005	
MW-8D MW-8D	25-Sep-96 24-Apr-97	98.31 98.31		7.55 7.33		90.78	<0.002	<0.002	<0.002	<0.005	
MW-8D	17-Jun-97	98.31		7.32		90.99	<0.002	<0.002	<0.002	<0.005	
MW-8D	27-Aug-97	98,31		7.85		90.46	<0.002	<0.002	<0.002	<0.005	
MW-8D	5-Nov-97	111.03		8.06		102.97 104.03	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-8D MW-8D	27-Feb-98 10-Jun-98	111.03 111.03		7.00 7.36		103,67	<0.001	<0.001	<0.001	<0.003	
MW-8D	8-Oct-98	111.03		7.67		103.36	<0.001	<0.001	<0.001	<0.003	
MW-8D	31-Mar-99	111.03		7.40		103.63	<0.001	<0.001	<0.001	<0.003	

Groundwater Elevation and Analytical Results - BTEX and MTBE

Control Cont								j	e constitue de la constitue de			
Control Cont			7	ier 1 Eynner	ire Routes					1	1	
				.c Lxposi	ar a rivutes							s MIBC (mg/L)
Symple Color Symple Color Per Process Description Per Process Descript												
Sample Date Elevation Fire Front Voter Vot	GCGIER - 0	Class II Groun		Con the state	Cintia Basili (s	Esca Bondon	Centralization		2.5	1	10	0.07
MW480			Elevation	Free Product	Water	Thickness	Elevation					
MW-80 28-04-80 111.03 7.95 103.05 -0.001 -0.001 -0.003 -0	i .	E .	ł	100.012.002.00	84		9				F .	
MM-8D Z5-B-DQ 111.03 7.52 102.11 0.001 -0.001 -0.003 MM-8D MM-8P 11.04 0.001 -0.001 -0.003 -0.003 MM-8D 11.04 0.001 -0.001 -0.003 -0.003 -0.001 -0.003 -0.003 -0.001 -0.003 -0.003 -0.001 -0.003 -0.003 -0.003 -0.001 -0.003 -0	4	1	1		31		ži			1	1	
MM-WB 24-My-90 111:03 7.61 104:02 40:001 40			1		21		61	1	1		1	
MM-MSD 16-MC 111-103 7-72 103.31 0.001 0.003 0			1		7.01		S4		,	1	1	50.5
MM-8D 1-10-cb 111-03 7-67 103.38 9.001 9		_	1	and a second	84	areas call the	*1		1		1	
MM-90 14-Ma-02 111.03 7.28 103.75 40.001 <0.001 <0.001 <0.003 <0.001 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0		1	1		š!		S f				1	
MM-90 S-M-02 111.03 7.04 103.99 -0.001 -0.001 -0.003 -0.003 -0.0		1	,		8		81		1	į.	[
MW-80 C C C C C C C C C C C C C			1		31		ž1	*			1	
MW-9D C-May-Oc 111.03		_	1		8		3			i	1	
MW-8D 27-Apr-05 111.03 7.5		į.	1		8		4	1	ſ		1	40.004
MW-8D Salan-99 11.03 7.14 108.89 -0.001 -0.001 -0.001 -0.003 -0.001 -0.003 -0.			1		à		4	<0.001	<0.001	<0.001	<0.003	<0.001
MM-98		1 '						<0.001	<0.001	<0.001	<0,003	<0,001
MAY-98 1-Ap-91 86.00 6.12 78.88 -0.005 -0.005 -0.001 -0.005 -0.001 -0.005 -0.0	MW-8D		111.03		7.14		103.89					
MM-98 27-Jan-98 97-42 6.75 90.05 40.002 40.			1		0.10		70.00			1		<0.001
MM-98 74-Jun-98 97-42 6.70 90.83 40.001 40.		1	86.00		6,12		79.88	22	1	1	1	
MW-9S 19-Jan-98 97-42 6.79 90.53 -0.001 -0.		1				B-10-10-10-10-1		6	1		1	
MM-WS 11-No-w93 97.42 7.04 99.38 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.				Selections					1	BDL		
MW-SS 27-Jun-94 97-42 7-03 90.39 -0.001 -0.001 -0.001 -0.003 MW-SS 28-Jun-95 97-42 7-04 90.38 -0.002 -0.002 -0.002 -0.002 -0.005 MW-SS 28-Jun-95 97-42 7-32 90.10 -0.003 -0.002 -0.002 -0.002 -0.005 -0.005 MW-SS 28-Jun-95 97-42 7-32 90.10 -0.003 -0.002 -0.002 -0.002 -0.005		1	1		1		1	1	1		1	
MW-SS 18-Fab-85 97.42 8.82 90.60 -0.002 -0.002 -0.002 -0.002 -0.005 MW-SS 28-Ju-95 97.42 8.82 90.60 -0.002 -0.002 -0.002 -0.005 MW-SS 17-Ju-98 97.42 6.85 91.07 -0.002 -0.002 -0.002 -0.005 MW-SS 17-Ju-98 97.42 6.85 97.42 7.10 90.32 -0.002 -0.002 -0.002 -0.002 -0.005 MW-SS 17-Ju-98 97.42 6.72 90.70 -0.002 -0.002 -0.002 -0.005 MW-SS 28-Ja-97 97.42 6.74 90.08 -0.002 -0.002 -0.002 -0.002 -0.005 MW-SS 28-Ja-97 97.42 6.74 90.08 -0.002 -0.002 -0.002 -0.005 MW-SS 17-Ju-97 97.42 6.74 90.08 -0.002 -0.002 -0.002 -0.002 -0.005 MW-SS 17-Ju-97 97.42 6.74 90.08 -0.002 -0.002 -0.002 -0.002 -0.002 -0.005 MW-SS 17-Ju-97 97.42 6.74 90.08 -0.002 -0.002 -0.002 -0.002 -0.005 MW-SS 17-Ju-97 97.42 6.80 90.50 90.52 -0.002 -0.002 -0.002 -0.003 MW-SS 17-Ju-97 97.42 6.86 10.30 90.52 -0.002 -0.002 -0.001 -0.001 -0.003 MW-SS 17-Ju-98 110.16 6.86 103.30 -0.001 -0.001 -0.001 -0.003 MW-SS 10-Ju-98 110.16 6.86 103.30 -0.001 -0.001 -0.001 -0.003 MW-SS 10-Ju-98 110.16 6.86 103.30 -0.001 -0.001 -0.001 -0.003 MW-SS 31-Ju-99 110.16 6.86 103.33 -0.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-99 110.16 6.86 103.33 -0.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-99 110.16 6.86 103.33 -0.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-99 110.16 7.26 103.49 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-99 110.16 7.26 103.49 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-99 110.16 7.26 102.98 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-99 110.16 7.26 102.98 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-99 110.16 7.26 102.98 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-99 110.16 7.26 102.98 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-99 110.16 7.26 102.98 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-99 110.16 7.26 102.98 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-90 110.16 7.26 102.98 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-90 110.16 7.26 102.98 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-90 110.16 7.26 102.98 90.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-90 110.16 7.26 90.001 -0.001 -0.001 -0.001 -0.003 MW-SS 28-Ja-90 110.16 7.26 90.001 -0.001 -0.001 -0.001 -0.003 -0.001 -0.001 -0.003 -0.001 -0.001 -0.003 -0.001 -0.001 -0.003 -0.00			!		1		I		I		1	
MW-9S 22-Ma-98 97-42 7.32 90.60 -0.002 -0.002 -0.002 -0.005 MW-98 22-Ma-98 97-42 7.32 90.10 -0.002 -0.002 -0.002 -0.005 MW-98 25-Sep-69 97-42 7.10 90.32 -0.002 -0.002 -0.002 -0.005 MW-98 25-Sep-69 97-42 6.74 90.68 -0.002 -0.002 -0.002 -0.005 MW-98 17-Jun-97 97-42 6.74 90.68 -0.002 -0.002 -0.002 -0.005 MW-98 17-Jun-97 97-42 6.74 90.68 -0.002 -0.002 -0.002 -0.005 MW-98 17-Jun-97 97-42 6.74 90.68 -0.002 -0.002 -0.002 -0.005 MW-98 17-Jun-97 97-42 6.90 90.52 -0.002 -0.002 -0.002 -0.005 MW-98 17-Jun-97 110.16 6.68 103.30 -0.001 -0.001 -0.001 -0.003 MW-98 110.16 6.68 103.30 -0.001 -0.001 -0.001 -0.003 MW-98 8.04 98 110.16 6.67 103.49 -0.001 -0.001 -0.001 -0.003 MW-98 9.Jun-99 110.16 6.67 103.49 -0.001 -0.001 -0.001 -0.003 MW-98 9.Jun-99 110.16 6.76 103.40 -0.001 -0.001 -0.001 -0.003 MW-98 9.Jun-99 110.16 6.76 103.40 -0.001 -0.001 -0.001 -0.003 MW-98 9.Jun-99 110.16 6.76 103.40 -0.001 -0.001 -0.003 -0.001 -0.003 MW-98 9.Jun-99 110.16 6.76 103.40 -0.001 -0.001 -0.001 -0.003 MW-98 9.Jun-99 110.16 6.76 103.40 -0.001 -0.001 -0.001 -0.003 MW-98 9.Jun-99 110.16 6.76 103.40 -0.001 -0.001 -0.001 -0.003 MW-98 9.Jun-99 110.16 6.76 103.40 -0.001 -0.001 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003 -0.001 -0.003		1	į.		ł				1	F	1	
MM-9S 17-Jun-96 97.42 6.35 91.07 <0.002 <0.002 <0.002 <0.002 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.		1			l		1	1	1		1	
MW-9S 25-Sep-96 97.42 7.10 90.32 <0.002 <0.002 <0.002 <0.002 <0.005												

Groundwater Elevation and Analytical Results - BTEX and MTBE

								anda <u>jar</u> ie			
	ani dhi		Tior 1 Evecs	ura Bautaa						Remediation C	
			Tier 1 Expos	ure Routes			Benzer (mg/L		and an arrange of the control of the	ne Total Xylen (mg/L)	es MTBE (mg/L)
GCGIER - 0	Class I Groun	ndwater					0.005	the property of supplied	0.7	10	0.07
GCGIER - 0	Class II Grou				one, town to person and to the	ntere \$12 cars along processors	0.025	2.5	1	10	0.07
Sample	Date	Reference Elevation	n Free Product	Water	Thicknes	s Elevation					
ID MW-9D	Sample: 5-Noy-9	****	ffeet below TOC	(feet below TOC 7.32	(feet)	(feet) 102.94	<0.001	<0.001	<0.001	<0.003	
MW-9D	27-Feb-9			6.74		102.54	<0.001			<0.003	
MW-9D	10-Jun-9			6.79		103.47	<0.001	<0.001	<0.001	<0.003	3.5
MW-9D	8-Oct-98			6.93		103.33	<0.001		,	<0.003	
MW-9D MW-9D	31-Mar-9 9-Jun-99	1		7.01		103.25 103.39	<0.001	<0.001	1	<0.003	
MW-9D	2-Sep-99	1		6.87 7.41		103.39	<0.001	<0.001		<0.003 <0.003	
MW-9D	28-Oct-99	1		7.31		102.95	<0.001	<0.001		<0.003	
MW-9D	23-Feb-0	0 110.26		7.10		103.16	<0.001	<0.001	<0.001	< 0.003	
MW-9D	24-May-0			6.74		103.52	<0.001	<0.001	ł .	<0.003	
MW-9D	15-Aug-0			7.07		103.19	<0,001	<0.001	<0.001	<0.003	
MW-9D MW-9D	9-Nov-00 11-Oct-01	1		6.90 7.05		103.36 103.21	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-9D	14-Mar-02	1		6.83		103.43	<0.001	<0.001	<0.001	<0.003	
MW-9D	6-Jun-02			6.62		103.64	<0.001	<0.001	<0.001	<0.003	
MW-9D	30-Aug-02			7,04		103.22	<0.001	<0.001	<0.001	<0.003	
MW-9D	6-Dec-02			7.38		102.88	<0.001	<0.001	<0.001	<0.003	
MW-9D MW-9D	6-May-04 21-Apr-05	1		7.21 7.04		103,05	<0.001	<0.001	<0.001	<0.003	<0.001
MW-9D	21-Apr-05 22-Apr-05	07-803 519772 #300 5198 #519		7.04		103.22	<0,001	<0.001	<0,001	<0.003	<0,001
MW-9D	5-Jan-09	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		6.91		103.35					
MW-9D	6-Jan-09	110.26	100 100 100 100 100	duction of the			<0.001	<0.001	<0.001	<0,003	<0.001
MW-10S	1-Apr-91	85.93		5,28	all series	80.65	<0.005	<0.005	<0.005	<0.010	
MW-10S	27-Jan-92	200200000000000000000000000000000000000			de de Oso	nting mus	<0.002	<0.002	<0.002	<0.005	
MW-10S MW-10S	24-Aug-92 19-Jan-93	C-62642 40-000-04 0-4-0-4-0-4-0-4-0-4-0-4-0-4-0					<0.002 BDL	<0.002 BDL	<0.002 BDL	<0.005 BDL	
MW-10S	17-Jun-93	Securitary ages of processing ages to		5,91		90.47	<0.001	<0.001	<0.001	<0.001	
MW-10S	11-Nov-93			6.12	sid dang bi	90.26	<0.001	<0.001	<0.001	< 0.001	
MW-10\$	27-Jun-94	96.38		6,11		90.27	<0.001	<0.001	<0.001	<0.003	
MW-10S	16-Feb-95		promoter to the un-	6.08		90.30	<0.002	<0.002	<0.002	<0.005	0.05400
MW-10S MW-10S	28-Jul-95 22-Mar-96	96.38 96.38		5.84 6.33		90.54	<0.002 <0.002	<0.002 <0.002	<0.002 <0.002	<0.005 <0.005	
MW-10S	17-Jun-96	7		5.26		90.05 91.12	<0.002	<0.002	<0.002	<0.005	
MW-10S	25-Sep-96			6,09		90.29	<0.002	<0.002	<0.002	<0.005	
MW-10S	24-Apr-97	96.38		5.73		90.65	<0.002	<0.002	<0.002	<0,005	
MW-10S	17-Jun-97	96.38		5.64		90.74	<0.002	<0.002	<0.002	<0.005	
MW-10S	27-Aug-97	,		5.90		90.48	0.0126	<0.002	<0.002	<0.005	
MW-10S MW-10S	5-Nov-97 27-Feb-98	108.99 108,99	Seriousius	6.19 5.77		102.80 103.22	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-10S	10-Jun-98	108.99		5.66		103.33	<0.001	<0.001	<0.001	<0.003	a kanji
MW-10S	8-Oct-98	108.99		5.83		103.16	<0.001	<0.001	<0.001	<0.003	
MW-10S	31-Mar-99	108.99		5.95		103.04	<0.001	<0.001	<0.001	<0.003	
MW-10S	9-Jun-99	108.99		5.76 8.21	re ere	103.23	<0.001	<0.001	<0.001	<0.003	
MW-10S MW-10S	2-Sep-99 28-Oct-99	108,99 108,99		6.21 6.30		102.78 102.69	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-10S	23-Feb-00	108.99		6.06		102.03	<0.001	<0.001	<0.001	<0.003	
MW-10S	24-May-00	108.99		5.68		103.31	<0.001	<0.001	<0.001	<0.003	
MW-10S	15-Aug-00	108.99		5.94		103.05	<0.001	<0.001	<0.001	<0.003	
MW-10S	9-Nov-00	108,99		5,90		103.09	<0.001	<0.005	<0.001	<0.003	
MW-10S MW-10S	11-Oct-01 14-Mar-02	108.99 108.99		5.94 5.79		103.05 103.20	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-10S	6-Jun-02	108.99		5.79		103.20	<0.001	<0.001	<0.001	<0.003	
MW-10S	30-Aug-02	108.99		5.91		103.08	<0.001	<0.001	<0.001	<0.003	
MW-10S	6-Dec-02	108.99		6,24		102.75	<0.001	<0.001	<0.001	<0.003	5146517
MW-10S	6-May-04	108.99		6.15		102.84	<0.001	<0.001	<0.001	<0.003	<0.001
MW-10S	21-Apr-05	108.99		5.97		103.02	-0.001	40.004	<0.004	~0 00a	c0 004
MW-10S MW-10S	22-Apr-05 5-Jan-09	108.99		5.69		103.30	<0.001	<0.001	<0.001	<0.003	<0.001
MW-10S	6-Jan-09	108.99					<0.001	<0.001	<0.001	<0.003	<0.001
MW-10D	1-Apr-91	85.06		5.62		79.44	<0.005	<0.005	<0.005	<0.010	
MW-10D	27-Jan-92			and the second			0.005	<0.002	<0.002	<0.005	
MW-10D	24-Aug-92				S. Abrello E.		<0.002	<0.002	<0.002	<0.005	
MW-10D MW-10D	19-Jan-93 17-Jun-93										
MW-10D	17-Jun-93 11-Nov-93	96.31		6.21		90.10	<0.001	<0.001	<0.001	<0.801	
MW-10D	27-Jun-94	96.31		6.23	845466	90.08	<0.001	<0.001	<0.001	<0.003	
MW-10D	16-Feb-95	96.31		6.15		90.16	<0.002	<0.002	<0.002	<0.005	
MW-10D	28-Jul-95	96.31		5.90	e e e	90.41	<0.002	<0.002	<0.002	<0.005	

Groundwater Elevation and Analytical Results - BTEX and MTBE

										Paradi tra	tal nast
			Tier 1 Expos	ure Routes			Benzen			Remediation One Total Xyleni	000 CONTRACTOR
							(mg/L)			(mg/L)	(mg/L)
	Class I Groun Class II Grour						0.005 0.025	2.5	0.7	10 10	0,07 0.07
GCGILIX - V	Class II Gloui	Referenc	e Static Depth to	Static Depth to	Free Produc	t Groundwate	Q25	2.3	-	10	0.07
Sample ID	Date Sampled	Elevation (feet)	Free Product (feet below TOC	Water (feet below TOC	Thickness (feet)	Elevation (feet)					
MW-10D			inerio ne	6.42		89.89	<0.002	<0.002	<0.002	<0.005	March Cocker
MW-10D	17-Jun-98			5.27		91.04	<0.002	1	<0.002	<0.005	
MW-10D MW-10D	25-Sep-96 24-Apr-97			6,17 5.77		90.14 90.54	<0.002 <0.002		<0.002 <0.002	<0.005 <0.005	
MW-10D	17-Jun-97			5.74		90.57	<0.002	<0.002	<0.002	<0.005	
MW-10D	27-Aug-97	1		6.83		89.48	<0.002	<0.002	<0.002	<0.005	48.0
MW-10D MW-10D	5-Nov-97 27-Feb-98	108.93		6.13 5.71		102.80 103.22	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-10D	10-Jun-98	108.93		5.61		103.32	<0.001	<0.001	<0.001	<0.003	
MW-10D	8-Oct-98	108,93		6.79		102.14	<0.001	<0.001	<0.001	<0.003	
MW-10D MW-10D	31-Mar-99 9-Jun-99	108.93		5.90 5.81		103.03 103.12	<0.001	<0.001	<0.001 <0.001	<0.003 <0.003	
MW-10D	2-Sep-99	108.93		6.18		102.75	<0.001	<0.001	<0.001	<0.003	
MW-10D	28-Oct-99	108.93		6.18		102.75	<0.001	<0.001	<0.001	<0.003	
MW-10D MW-10D	23-Feb-00 24-May-00	f		6.10 5.55		102.83 103.38	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-10D	15-Aug-00			5.91		103.02	<0.001	<0.001	<0.001	<0.003	
MW-10D	9-Nov-00	108.93		5.80		103.13	<0.001	<0.005	<0.001	<0.003	
MW-10D MW-10D	11-Oct-01 14-Mar-02	108.93 108.93		5,90 5,74		103,03 103,19	<0.001 <0.001	<0.001	<0.001 <0.001	<0.003	100
MW-10D	6-Jun-02	108.93	and the second second	5.74		103.19	<0.001	<0.001	<0.001	<0.003	
MW-10D	30-Aug-02	108,93		5.85		103.08	<0.001	<0.001	<0.001	<0.003	1000
MW-10D	6-Dec-02	108.93		6.22		102.71	<0.001	<0.001	<0.001	<0.003	
MW-10D MW-10D	6-May-04 21-Apr-05	108,93 108,93		6.09 5,94		102.84 102.99	<0.001	<0.001	<0.001	<0.003	0.0055
MW-10D	22-Apr-05	100.00		5,57		.02.00	<0.001	<0.001	<0.001	<0.003	0.0041
MW-10D	5-Jan-09	108.93		5.62		103.31					
MW-10D MW-11S	6-Jan-09 1-Apr-91	108,93 85.82		5.52		80.30	<0.001 0.15	<0.001 <0.005	<0.001 <0.005	<0.003 0.011	<0.001
MW-11S	27-Jan-92	03.02	1-12-12-12-1			00.50	3.6	0.021	0.18	4.491	
MW-11S	24-Aug-92	2.5			0.50	distanta	0.006	0.029	0.006	0.81	
MW-11S MW-11S	19-Jan-93 17-Jun-93	96.99		8.04		00.00	1.3 0.14	0,007 <0.001	0.03 <0.001	0.1 <0,001	
MW-11S	11-Nov-93	96.99		6.01 6.80		90.98 90.19	1,35	<0.001	<0.001	<0.001	
MW-11S	27-Jun-94	96.99		6.84		90.15	0.785	0.0094	0.173	0.282	
MW-11S	16-Feb-95	96.99		6.53		90.46	1.55	0.0248	0.163	0.239	
MW-11S MW-11S	28-Jul-95 22-Mar-96	96.99 96.99		6.42		90.57 96.99	0.954	0.0545	0.316	0.29	
MW-11S	17-Jun-96	96.99		4.43		92,56	<0.002	<0.002	<0.002	<0.005	
MW-11S	25-Sep-96	96.99		6.77		90.22	1.76	0.0443	0.519	1.22	0.032.335
MW-11S MW-11S	24-Apr-97 17-Jun-97	98.99 96.99		6.12 6.11		90.87 90.88	0.384 3,94	0.0087 1.02	0.134 0.734	2.1 2.06	
MW-11S	27-Aug-97	96.99		6.58		90.41	1.79	0.586	0.657	1.2	
MW-11S	5-Nov-97	109.54		6.85		102.69	1	0.05	0.37	0.023	
MW-11S MW-11S	27-Feb-98 10-Jun-98	109,54 109,54		6.58 6.29		102.96 103.25	0.19 0.8	<0.005 0.014	0.033 0.12	0.11 <0.001	
MW-11S	8-Oct-98	109.54		6.49		103.25	0.91	0.014	0.12	0.76	
MW-11S	31-Mar-99	109.54		6.42		103.12	0.28	<0.002	0.04	0.012/<0.002	
MW-11S MW-11S	9-Jun-99 2-Sep-99	109.54 109.54		6.40 7.16		103.14 102,38	3.7 1.4	6.7 0.029	0.73 0.43	2.77 1.34	
MW-11S	28-Oct-99	109.54		6.84		102.70	0.78	0.029	0.43	0,889	
MW-11S	23-Feb-00	109.54		6.25		103,29	0,0028	<0.001	<0.001	<0.003	
MW-11S	24-May-00	109.54		6.05		103.49	0.018	<0.001	0.0011	< 0.003	
MW-11S MW-11S	15-Aug-00 9-Nov-00	109.54 109.54		6.62 6.35		102.92 103.19	1.3 0.37	0.051 <0.025	0.42 0.03	1.116 0.097/<0.005	
MW-11S	11-Oct-01	109.54		6.56		102.98	0.78	<0.023	0.44	0.95/<0.01	
MW-11S	14-Mar-02	109.54		5.89		103.65	0.024	<0.001	<0.001	<0.003	
MW-11S MW-11S	6-Jun-02	109.54 109.54		5.43		104.11	0.073 1.2	0.0036 0.051	0.012	0.0077/<0.001 0.86/<0.01	
MW-11S MW-11S	30-Aug-02 6-Dec-02	109.54 109.54		6.52 6.88		103.02 102.66	2.1	0.051	0.55 0.67	0.86/<0.01	
MW-11S	6-May-04	109.54		6.59		102.95	0.059	<0.001	<0.001	<0.003	<0.001
MW-11S	21-Apr-05	109.54		6.38		103.16	0.012	<0.001	<0.001	<0.003	<0.001
MW-11S MW-11D	6-Jan-09 1-Apr-91	109.54 85.90		5.65 6.57		103,89 79,33	<0.001 <0.005	<0.001	<0.001 <0.005	<0.003 <0.01	<0.001
MW-11D	27-Jan-92	00.00		0.07		, 5.55	<0.003	<0.003	<0.003	<0.005	
MW-11D	24-Aug-92	-50-00					<0.004	<0.002	<0.002	<0.005	
MW-11D	19-Jan-93			(TO 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		1000					
MW-11D	17-Jun-93			Carried Services	e control control in the				some and the		nenniditi.

Groundwater Elevation and Analytical Results - BTEX and MTBE

			Tier 1 Expos		COC Benzer	~ * * * * * * * * * * * * * * * * * * *	t Groundwater	Remediation C	Comments of the Comments of th		
			ilei i Expos	ure routes			(mg/L) (mg/L)	(mg/L)	(mg/L)	(mg/L
	- Class I Grour - Class II Grou						0,005 0.025		0.7	10	0.07
Sample	a Date	Reference Elevation		Static Depth to Water	Free Produc	where the property of the control of the control of	27.00				
D D						(feet)					
MW-110	1			6.81		90.21	<0.001		<0.001	<0.001	
MW-110 MW-110		1		6.95 6.70		90.07 90.32	0,248 0,433		0,0637 0,0407	0,135 0.0446	
MW-11E	28-Jul-95	97.02		6.49	in describ	90.53	0.94	0.0386	0.219	0.215	
MW-11E MW-11E				7.07 6.12		89.95 90.90	0.424 0.0482	0.0075	0.0467 <0.002	0.0191 <0.005	167.00
MW-110	,	1		6,89		90.13	0.0482	0.0077	0.104	0.204	
MW-110	,			6.31		90.71	0.339	0.131	0.0807	0.184	
MW-110 MW-110	1	1		6.32 7.84		90.70 89.18	1.56 0.311	0.368 0.0167	0.278 0.0837	0.956 0.224	
MW-110	5-Nov-97	1		7.13		102.45	0.17	0.0045	0.09	0.29	12.00
MW-11D MW-11D			much and se	6.23		103.35	0.024	<0.001	<0.001	<0.003	100000000
MW-11D	1	109.58		6.52 6,76		103,06 102,82	0,02 0.12	<0.001 0.004	<0.001 0.038	<0.003 0.044	
MW-11D	31-Mar-99	109.58	anderen spekt	6.90		102.68	0,0034	<0.001	<0.001	<0.003	10000
MW-11D MW-11D	1	109.58 109.58		6,64 7.22		102.94 102.36	0.75 0.082	1.4 0.0048	0.14 0.037	0,53 0,1225	
MW-11D	,	1		7.10		102.36	0.082	0.0023	0.037	0.1225	
MW-11D	1	•		6.91		102.67	0.16	0.0012	0.0098	0.1	10000000
MW-11D MW-11D	1 -			6.49 7.04		103.09 102.54	0.0011	<0.001 <0.001	<0.001 0.0053	<0.003 0.011	
MW-11D	, -	109.58	and case in	6.95		102.63	0.26	<0.012	0.027	0.059	140116
MW-11D		109.58		6,83		102.75	0.017	<0.001	0.0035	<0.003	
MW-11D MW-11D	1	109.58 109.58		6.42 6.33		103.16 103.25	<0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-11D		109.58		6.74		102.84	0.035	<0.001	0.0012	<0.003	
MW-11D MW-11D	6-Dec-02 6-May-04	109.58 109.58		7.09 6.80	4 15 15 15	102.49 102.78	0.001	<0.001	<0.001 <0.001	<0.003 <0.003	0.0025
MW-11D	21-Apr-05	109.58		6,63		102.95	<0.001	<0.001	<0.001	<0.003	<0.001
MW-11D	6-Jan-09	109.58		6.26		103.32	<0.001	<0.001	<0.001	<0.003	0.0017
MW-12S MW-12S	1-Apr-91 27-Jan-92	81.23		2.21		79.02	1.8 0.041	0.14	0.11 0.013	0,4 0.054	
MW-12S	24-Aug-92						0,2	0.002	0.004	0,005	
MW-12S MW-12S	19-Jan-93 17-Jun-93	92.64		2.60		90.04	BDL 0,003	8DL <0.001	BDL <0.001	8DL <0.001	
MW-12S	11-Nov-93	92.64		2.45	a de la co	90.19	<0.003	<0.001	<0.001	<0.001	
MW-12S	27-Jun-94	92.64		2.52		90.12	0.137	<0.001	<0.001	<0.003	100000000000000000000000000000000000000
MW-12S MW-12S	16-Feb-95 28-Jul-95	92.64 92.64		2.25 2.10		90.39 90.54	0.0902	<0.002 <0.002	<0.002 <0.002	<0,005 <0.005	
MW-12S	22-Mar-96	92.64	a She Bagins	2.62		90.02	<0.002	<0.002	<0.002	<0.005	H China
MW-12S	17-Jun-96	92.64	hija dhanasa	1.50	19 GMLE	91.14	<0.002	<0.002	<0.002	<0,005	
MW-12S MW-12S	25-Sep-96 24-Apr-97	92.64 92.64		2.36 1.89		90.28 90.75	<0.002 <0.002	<0.002 <0.002	<0.002 <0.002	<0.005 <0.005	
MW-12\$	17-Jun-97	92.64		1.76		90.88	<0.002	<0.002	<0.002	<0.005	
MW-12S MW-12S	27-Aug-97 5-Nov-97	92.64 105.19		2.24 2.50		90.40 102.69	<0.002 0.0026	<0.002 <0.001	<0.002 <0.001	<0.005 <0.003	
MW-12S	27-Feb-98	105,19		2.56		102.63	<0.001	<0.001	<0.001	<0.003	
MW-12S	10-Jun-98	105.19		1.90		103.29	<0.001	<0.001	<0.001	< 0.003	
MW-12S MW-12S	8-Oct-98 31-Mar-99	105.19 105.19		2.17 2.29		103.02 102.90	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-12S	9-Jun-99	105.19		2.13		103.06	0.07	<0.001	<0.001	<0.003	
MW-12S	2-Sep-99	105.19		3.75		101.44	<0.001	<0.001	<0.001	<0.002	
MW-12S MW-12S	28-Oct-99 23-Feb-00	105.19 105.19		2.58 2.33		102,61 102,86	0.16 0.054	0.0045 0.0021	0.0043 0.011	0.005 0.012	
MW-12S	24-May-00	105.19		1.92		103.27	0.13	0.0034	0.015	0.017	
MW-12S MW-12S	15-Aug-00 9-Nov-00	105.19 105.19		2.23 2.15		102.96 103.04	0,24 0.27	0.016 0.037	0.053 0.12	0.059 0.2133	
MW-12S	11-Oct-01	105.19		2.32		103.04	0.27	0.037	0.12	0.1224	
MW-12S	14-Mar-02	105.19		1.98		103.21	0.18	0.0075	0.041	0.121	
MW-12S MW-12S	6-Jun-02 30-Aug-02	105,19 105,19		1.80 2.20		103.39 102.99	0.18 0.2	0.023	0.042 0.077	0.0061 0.1817	
VIW-12S	6-Dec-02	105.19		2.58		102.61	0.051	0.006	0.017	0.079	
WW-12S	6-May-04	105.19		2.40		102.79	0.043	0.0035	<0.001	0.022	0.0012
/IW-12S /IW-12S	21-Apr-05 29-Dec-08	105.19 105.19	insanguagnasi	2.20 1.00		102.99 104.19	0.027	0.0014	<0.001	0.0097	0.0021
AW-12S	5-Jan-09	105.19		1.84		103,35					
/W-12S /W-12D	6-Jan-09 1-Apr-91	105.19 81.36	SHE GREEK	2.21		79.15	<0.001 0.074	<0.001 <0.005	<0.001 <0.005	<0.003 <0.01	<0.001

Groundwater Elevation and Analytical Results - BTEX and MTBE

							COC	s and Tier	I Groundwater	Remediation Ol	ojectives
		1	ier 1 Expos	ure Routes			Benzen	e Toluen	e Ethylbenzer	e Total Xylene	s MTBE
COCIED							(mg/L)	(mg/L)	(mg/L) 0.7	(mg/L) 10	(mg/L) 0.07
	Class I Groun Class II Grour						0.005	2.5	1	10	0.07
	Date	Reference Elevation		Static Depth to Water	Free Product Thickness	Groundwate Elevation					
Sample ID	Sampled		(feet below TOC			(feet)					
MW-12D		Service Control Control of Service Control					<0.002	1	1	<0.005	
MW-12D MW-12D	, .	ECONOMIC CONTRACTOR					<0.002	<0.002	<0.002	<0.005	
MW-12D	1	process bearing and princip			0.00-0.00						
MW-12D				2.57		90.22	<0.001	<0.001	<0.001	<0.001	
MW-12D MW-12D	1	3		3.38 2.85		89.41 89.94	<0.001 <0.002	<0.001 <0.002	<0.001 <0.002	<0.003 <0.005	
MW-12D	28-Jul-95			2.60		90.19	<0.002	<0.002	<0.002	<0.005	
MW-12D	f	t		3,15		89.64	<0.002	<0.002	<0.002 <0.002	<0.005 <0.005	
MW-12D MW-12D	17-Jun-96 25-Sep-96	1	Salas keilekt	2.08 2.93		90.71 89,86	<0.002 <0.002	<0.002 <0.002	<0.002	<0.005	
MW-12D	24-Apr-97	1		2.30		90.49	<0.002	<0.002	<0.002	<0.005	
MW-12D	17-Jun-97	1		2.29		90.50	<0.002	<0.002	<0.002	<0.005	
MW-12D MW-12D	27-Aug-97 5-Nov-97	92.79		2.75 3.13		90.04 102.21	<0.002 <0.001	<0.002 <0.001	<0.002 <0,001	<0.005 <0.003	
MW-12D	27-Feb-98			1.97		103.37	<0.001	<0.001	<0.001	< 0.003	
MW-12D	10-Jun-98	105.34		2.47		102.87	<0.001	<0.001	<0,001	<0.003	
MW-12D MW-12D	8-Oct-98 31-Mar-99	105.34 105.34	8-8-0-0-0	2.86 2.77		102.48 102.57	<0.001 <0.001	<0.001	<0.001 <0.001	<0.003 <0.003	
MW-12D	9-Jun-99	105.34		2.68		102.66	<0.001	<0.001	< 0.001	<0.003	15 (16)
MW-12D	2-Sep-99	105.34		3.31		102.03	<0.001	<0.001	<0.001	<0.002	150.000
MW-12D	28-Oct-99 23-Feb-00	105.34		3.20		102.14 102.34	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.002 <0.003	
MW-12D MW-12D	23-Feb-00 24-May-00	105.34 105.34		3.00 2.49		102.34	<0.001	<0.001	<0.001	<0.003	
MW-12D	15-Aug-00	105.34		2.82		102.52	<0.001	<0.001	<0.001	<0,003	
MW-12D	9-Nov-00	105,34		2.75		102,59	<0.001	<0.001	<0,001	<0.003	
MW-12D MW-12D	11-Oct-01 14-Mar-02	105.34 105.34	(Extension of the	2.82 2.50	de de chefe e	102.52 102.84	<0.001	<0.001 <0.001	<0.001 <0,001	<0.003 <0.003	457952
MW-12D	6-Jun-02	105.34	Should be to	2.34		103.00	<0.001	<0.001	<0.001	<0.003	10000
MW-12D	30-Aug-02	105,34		2.81		102,53	<0.001	<0.001	<0.001	<0.003	
MW-12D MW-12D	6-Dec-02 6-May-04	105.34 105.34		3.20 2.96		102.14 102,38	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003	<0.001
MW-12D	21-Apr-05	105.34		3.73		101.61	<0.001	<0.001	<0.001	<0.03	<0.001
MW-12D	5-Jan-09	105.34	314 0 0 000	2.31		103.03	Maria Maria				
MW-12D MW-13	6-Jan-09 1-Apr-91	105.34 85.19		5.24		79.95	<0.001 2,6	<0.001 0.3	<0,001 0.19	<0.003 0,56	<0.001
MW-13	27-Jan-92	65,19		3.24	2.000					0.00	
MW-13	19-Feb-92						1.9	0.01	0.14	0.72	1921110
MW-13 MW-13	24-Aug-92 19-Jan-93						14 0.009	2.1 BDL	0.85 BDL	13 0.005	
MVV-13	17-Jun-93	98.50		6.00		90.50	<0.003	<0,001	<0.001	<0.001	
MW-13	11-Nov-93	96.50		6.28		90.22	0.81	0.054	0,346	4.58	100.00
MW-13	27-Jun-94	96.50	646.065.5	6,29		90.21	0.142	0.0037	0.119 0.0202	0.413 0.129	100.05
MW-13 MW-13	16-Feb-95 28-Jul-95	96,50 96,50		6.20 6.01		90.30 90.49	0.0475 0.41	<0.002 0.0051	0.0202	2.548	
MW-13	22-Mar-96	96.50		6.53		89.97	0.212	0.0092	0.0901	0.973	
MW-13	17-Jun-96	96.50		3.78		92.72	<0.002 0,109	<0.002 0.0261	<0,002 0.911	<0.005 9.6	
MW-13 MW-13	25-Sep-96 24-Apr-97	96,50 96,50		6.29 5.80		90.21 90.70	<0.002	<0.002	<0.002	<0.005	
MW-13	17-Jun-97	96,50		5.59		90.91	0.0195	<0.002	0.0201	0.107	
MW-13	27-Aug-97	96.50		6.17		90.33	1.4	0.38	0.361	3.65	
MW-13 MW-13	5-Nov-97 27-Feb-98	109.12 109.12		6.38 5.51		102,74 103,61	0.16 <0.001	<0.025 <0.001	0.67 <0.001	5.8 <0.003	
MW-13	10-Jun-98	109.12		5.78		103.34	0.38	<0.025	0.67	3.4	
MW-13	8-Oct-98	109,12		6.02		103.10	<0.025	<0.025	0.28	3.5	
MW-13 MW-13	31-Mar-99 9-Jun-99	109.12 109.12		6.17 6.07		102.95 103.05	0.027 0.008	<0.0025 0.013	0.11 0.13	0.81 0.903.3	
MW-13	2-Sep-99	109.12		6.64		103.03	0.23	<0.025	0.12	0.72	
MW-13	28-Oct-99	109.12		6.45		102.67	0.2	<0.01	0.11	0.718	jordinije.
MW-13	23-Feb-00 24-May-00	109,12		5.50 5.01		103,62 103,21	0.0073	<0.001	0.0019	0.021	
MW-13 MW-13	24-May-00 15-Aug-00	109.12 109.12		5.91 6.24		103.21	0.038	<0.005	0.0019	0.5453	
MW-13	9-Nov-00	109.12		6.08		103.04	<0.001	<0.005	0.0014	<0.003	
MW-13	11-Oct-01	109.12		6.21		102.91	0.05	0.0023	0.069 <0.001	0.0122 <0.003	
MW-13 MW-13	14-Mar-02 6-Jun-02	109.12 109.12		5.89 5.06		103.23 104.06	<0.001 0.0077	<0.001 <0.001	<0.001 0.009	<0.003	
MW-13	30-Aug-02	109.12	530 (536) (556)	8.15		102.97	0.013	0.0018	0.03	0.0024	
MW-13	6-Dec-02	109.12		6.53		102.59	0.044	<0.01	0.085	<0.03	

Groundwater Elevation and Analytical Results - BTEX and MTBE

					a, Lake County		,				
		4444					cocs	and Tier 1	Groundwater I	Remediation Ob	jectives
			ier 1 Expos	ure Routes			Benzene		Show the participation and an along		
CCCIEB	Ciass I Groun	duntar					(mg/L) 0,005	(mg/L)	(mg/L)	(mg/L) 10	(mg/L) 0.07
	Class II Grou						0.025	2.5	1	10	0.07
Sample	Date	Reference Elevation		Static Depth to Water	Free Produc Thickness	t Groundwate Elevation	i.				
Jampie	Sampled		(feet below TOC			(feet)					
MW-13	6-May-04	1		6.37		102.75	0.0039	<0.001	0.013	<0.003	<0.001
MW-13 MW-13	21-Apr-05 22-Apr-05			6.27		102.85	0.0077	<0.001	0.039	0,013	<0.001
MW-13	29-Dec-08	1	E GLOBERTON	5.00		104,12		-0.00			
MW-13	5-Jan-09	1		5.88		103.24	Strikie	i de sière		-0.000	.0.004
MW-13 MW-14	6-Jan-09 27-Jan-92	109.12	EFERTANIES TAL	9 98 96 95 85 85 85	20070 35 65	Line and the same	<0.001 <0.002	<0.001	<0.001 <0.002	<0.003 <0.005	<0.001
MW-14	24-Aug-92	\$24 04 0 Sport & Calva (4)					<0.002	<0.002	<0.002	<0.005	
MW-14	19-Jan-93	TAPATANAN AND NO AND					BDL	BDL	BDL	BDL	
MW-14 MW-14	17-Jun-93 11-Nov-93	1		0.00		89.62 89.62	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	
MW-14	27-Jun-94	j.		0.00		89.62	<0.001	<0.001	<0.001	<0,003	
MW-14	16-Feb-95	1		0.00		89,62	<0.002	<0.002	<0.002	<0.005	
MW-14 MW-14	28-Jul-95 22-Mar-96	89.62 89.62		0.00		89.62 89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	17-Јил-96	89,62		0.03		89.59	<0.002	<0.002	<0.002	<0.005	
MW-14	25-Sep-96	1		0.05		89.57	<0.002	<0.002	<0.002	<0.005	
MW-14 MW-14	24-Apr-97 17-Jun-97	89.62 89.62		0.00 0.00		89.62 89.62	<0.002 <0.002	<0.002 <0.002	<0.002 <0.002	<0.005 <0.005	
MW-14	27-Aug-97	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	5-Nov-97	99.46		0.79		98.67	<0.001	<0.001	<0.001	<0,003	
MW-14	27-Feb-98	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003 <0.003	
MW-14 MW-14	10-Jun-98 8-Oct-98	99.46 99.46		0.00 0.09		99.46 99.37	<0.001 <0.001	<0,001 <0.001	<0.001 <0.001	<0.003	
MW-14	31-Mar-99	99.46		0.00		99.46	< 0.001	<0.001	<0.001	<0.003	
MW-14	9-Jun-99	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14 MW-14	2-Sep-99 28-Oct-99	99,46 99,46	A stronger	0.19 0.00		99.27 99.46	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	19.15
MW-14	23-Feb-00	99.46	act to the	0.00		99.46	<0.001	<0.001	<0.001	<0,003	
MW-14	24-May-00			0.00			<0.001	<0.001	<0.001	<0.003	Question -
MW-14 MW-14	15-Aug-00 9-Nov-00			0.00			<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-14	11-Oct-01	99,16		0.02		99.14	<0.001	<0.001	<0.001	<0.003	
MW-14	14-Mar-02	99.16		0.02		99.14	<0.001	<0.001	<0.001	<0.003	
MW-14 MW-14	6-Jun-02	99,16		0.00 0.00		99.16 99.16	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	通量
MW-14	30-Aug-02 6-Dec-02	99.16 99.16		0.00	Establish.	99.16	<0.001	<0.001	<0.001	<0.003	
MW-14	6-May-04	99.16		0.00		99.16	<0.001	<0.001	<0.001	<0,003	<0.001
MW-14	21-Apr-05	99.16		0.00		99.16	40 OO4	-0.004	<0.001	<0.003	<0.001
MW-14 MW-14	22-Apr-05 5-Jan-09	99,16 99,16		0.30		98.86	<0.001	<0.001	<0.001	<0.003	V0.001
MW-14	6-Jan-09	99.16					<0.001	<0.001	<0,001	<0.003	<0.001
MW-15	27-Jan-92						0,005	<0.002	<0.002	<0.005	
MW-15 MW-15	24-Aug-92 19-Jan-93						0.03 0.24	<0.002 BDL	<0.002 BDL	<0.005 BDL	
MW-15	17-Jun-93	88.40		0.00		88.40	0.85	<0.001	<0.001	<0.001	
MW-15	11-Nov-93	88.40		0.56		87.84	1.03	<0.001	<0.001	<0.001	
MW-15 MW-15	27-Jun-94 16-Feb-95	88.40 88.40		0.50 0.85		87.90 87.55	2.04 1.82	<0.001 <0.002	<0.001 <0.002	<0,003 <0.005	
MW-15	28-Jul-95	88,40		0.20		88.20	3.55	<0.002	<0.002	<0.005	4.0E0005
MW-15	22-Mar-96	88.40		0.74		87.66	10.5	<0.002	<0.002	<0.005	
MW-15 MW-16	17-Jun-96 25-Sep-96	88.40 88.40		0.00 0.75		88,40 87.65	9.75 7.6	<0.002 <0.002	<0.002 <0.002	<0.005 <0.005	
MW-15	24-Apr-97	88.40		0.73		88.24	10.7	0.0084	<0.002	<0.005	
MW-15	17-Jun-97	88,40		0.00		88.40	9.59	0.0381	<0.005	<0.005	
MW-15	27-Aug-97	88.40		0.40		88.00 99.57	8.32 8.2	<0.05 <0.05	<0.05 <0.05	<0.125 <0.15	
MW-15 MW-15	5-Nov-97 27-Feb-98	100.25 100.25		0.68 0.22		100.03	7.4	<0.05	<0.05	<0.3	
MW-15	10-Jun-98	100.25		0.18		100.07	6.9	<0.1	<0.1	<0.3	
MW-15	8-Oct-98	100.25		0.43		99.82	5.4	<0.05	<0.05	<0.15	
MW-15 MW-15	31-Mar-99 9-Jun-99	100.25 100.25		1.30 1.20		98.95 99.05	4.6 4.2	<0.025 0.032	<0.025 <0.025	<0.075 <0.075	
MW-15	2-Sep-99	100.25		1.55		98.70	2.9	0.036	0.034	0.079	
MW-15	28-Oct-99	100.25		1.44		98.81	2.5	0.049	0.078	0.165	her in
	23-Feb-00 24-May-00	100.25 100.25		0.90 0.71		99.35 99.54	1.2 0.97	0.045 0.034	0.091 0.11	0.2 0.255	
	24-May-00 15-Aug-00	100.25	023145-15-20160	0.86		99.39	0.58	0.024	0.11	0.264	
	9-Nov-00	100.25		0.75		99.50	0.13	0.0074	0.027	0.055	

Groundwater Elevation and Analytical Results - BTEX and MTBE

COCIET Class Coundwater	and Tier 1 Ground		COC			ure Routes	ler 1 Eynoe	Ţ		
Sample Date Reference Static Pepht to Static Depth to Free Product	(mg/L) (m	g/L)	(mg/L				ici i Expos			2
Sample Date Elevation Fee Product Wester Flickness Elevation Flore F										
MW-15								Reference		
MW-15	 		2	.201) (feet)	200	(feet below TOC	***************************************	7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
MW-15 6-Un-02 100.25 0.47 99.76 0.17 0.0055 0.033 0.044 0.002 0.0033 0.044 0.0033 0.044 0.002 0.0033 0.044 0.0035 0.033 0.044 0.0035 0.033 0.044 0.0035 0.033 0.044 0.0035 0.034 0.0035 0.034 0.0033 0.044 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0033 0.044 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.034 0.0035 0.0035 0.034 0.0035 0.003	1			81.01		32:		1	E	11
MW-15 30-Aug-02 100.25 100.25 1.11 100.14 1.24 0.24 0.062 0.031 0.04 0.062 0.031 0.04 0.062 0.031 0.062 0.031 0.062 0.031 0.062 0.031 0.063 0.033 0.032 0.033 0.	1 1		1	834		222	and the same		1	III.
MW-15 6-Mg-yob 100.25 0.95 9.93 0.12 0.004 0.0023 0.79 0.945 0.0024 0	1 3			881		23			1	
MW-15 21-Ap-05 100.25 0.49 99.46 0.078 0.0024 -0.001 0.004 0.0073 0.0024 -0.001 0.004 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.001 0.0073 0.0024 -0.002 -0.0022 -0.0022 -0.0022 -0.0022 -0.0022 -0.0022 -0.0023 0.0073 0.0044 -0.001	;			200		***		1	1	
MW-15	0.004 0.0	12	0,12	593	on the square	62		1	1 '	ll .
MW-15 5_Jan-09 100 25 0.40 99.85 0.073 0.001 0.001 0.001 0.001 0.001 0.002 40.001 40.002 40.002 40.002 40.002 40.002 40.002	0.0024 <0	76 (0.076	35.40		0.79		1		H.
MW-16				99.85		0.40				II.
MW-16 19-Jan-93 91.82 2.23 89.59 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.			Carta S				-	100.25		
MW-16	1 1		250						E .	II.
MW-16	I		27.3						1	la .
MW-16 27-Jun-94 91.82 2.59 89.23 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.002 -0.	1	01 <	<0.00	89,59		2.23		91.82	1	11
MW-16	1 1			201		8	Probleman in	1	1	II.
MW-16 28-Jul-95 91.82 2.44 89.38 0.182 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.0	1 1			28	4000	in .		1	1	11
MW-16 22-Mar-98 91.82 3.14 88.88 1.83 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	, ,	F	F	3.4		88 ·		1	,	II .
MW-16 25-Sep-98 91.82 2.38 89.44 2.19 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.003 <0.002 <0.003 <0.003 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	1 1	1		Q.		šI		1		II .
MW-16 24-Apr-97 91.82 7.95 83.87 3.53 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005			1	**		3			1	[]
MW-16 17-Jun-97 91.82 4.49 87.33 3.6 <0.002 <0.002 <0.002 MW-16 27-Aug-97 91.82 5.51 86.31 4.17 0.219 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <	; J	1	ſ	SI		śl.		1	1 '	1
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MW-17 14-Mar-02 100.91 1.81 99.10 <0.001 <0.001 <0.001 <0.001	I					E.		E		
MW-17 6-Jun-02 100.91 1.59 99.32 0.0024 <0.001 <0.001 <0.				3		1.59		100.91	6-Jun-02	
MW-17 30-Aug-02 100.91 2.01 98.90 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.								15	- 1	
MW-17 6-Dec-02 100.91 2.34 98.57 <0.001 <0.001 <0.001 <0. MW-17 6-May-04 100.91 2.13 98.78 0.0011 <0.001 <0.001 <0.								200	1	
MW-17 21-Apr-05 100.91 1.99 98.92						E E		80		
MW-17 22-Apr-05 100.91 100.91 0.0041 <0.001 <0.001 <0.001 <0.001	<0.001 <0.00	1 <0.	0.0041				elang ng cikin	100.91	22-Apr-05	MW-17
MW-17 5-Jan-09 100.91 1.48 99.43 99.43 00.001 00.001 00.001 00.001 00.001 00.001	<0.004 ±0.00		-C 224	99.43		1.48				

Groundwater Elevation and Analytical Results - BTEX and MTBE

						Guenesse.	COCs	and Tier 1	Groundwater F	emediation Ob	jectives
		Т	ier 1 Exposu	ire Routes			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - 0	Class I Ground	iwater					0.005	1	0.7	10	0.07
GCGIER - 0	Class II Ground	dwater Reference	Static Depth to	Static Depth to	Free Product	Groundwater	0.025	2.5	1	10	0,07
Sample	Date	Elevation	Free Product	Water	Thickness	Elevation					
ID MW-18	5-Nov-97	(feet) 99.19	(feet below TOC)	(feet below TOC) 5.32	(feet)	(feet) 93.87	<0.001	<0,001	<0.001	<0.003	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MW-18	27-Feb-98	99.19		2.63		96,56	<0.001	<0.001	< 0.001	<0.003	
MW-18	10-Jun-98	99.19		2.85		96.34 92.82	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	
MW-18 MW-18	8-Oct-98 31-Mar-99	99.19 99.19		6.37 2.81		96.38	<0.001	<0.001	<0.001	<0.003	
MW-18	9-Jun-99	99.19		2.46		96.73	<0.001	<0.001	<0.001	<0.003	
MW-18 MW-18	2-Sep-99 28-Oct-99	99.19 99.19		4,73 3,95		94.46 95.24	<0.001 <0.001	<0.001	<0.001 <0.001	<0.003 <0.003	
MW-18	23-Feb-00	99.19		3,25		95.94	<0.001	<0.001	<0.001	<0.003	
MW-18	24-May-00	99.19		2.34		96.85 96,21	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0,003	
MW-18 MW-18	15-Aug-00 9-Nov-00	99.19 99.19	vanciung circusta	2,98 3.35	Mar States	95.84	<0.001	<0.005	<0.001	<0.003	
MW-18	11-Oct-01	99.19		3.42		95.77	<0.001	<0.001	<0.001	<0.003	
MW-18	14-Mar-02	99.19	100000	2.40 2.33		98.79 96.86	<0.001 <0.001	<0.001	<0.001 <0.001	<0.003 <0.003	1121-121
MW-18 MW-18	6-Jun-02 30-Aug-02	99,19 99,19		3,50		95.69	<0.001	<0.001	<0.001	<0.003	
MW-18	6-Dec-02	99,19	de la company	3.54		95.65	<0.001 <0.001	<0.001	<0.001 <0.001	<0.003 <0.003	<0.001
MW-18 MW-18	6-May-04 21-Apr-05	99,19 99,19		2.83 2.73	0.00	96,36 96,46	<0.001	<0.001	<0.001	<0.003	70.001
MW-18	22-Apr-05	99.19					<0.001	<0.001	<0.001	<0.003	<0.001
MW-18	5-Jan-09	99.19		2.34		96.85	<0,001	<0.001	<0.001	<0.003	<0,001
MW-18 MW-19	6-Jan-09 19-Oct-01	99.19 100.62		5.42		95.20	<0.001	<0.001	<0.001	<0,003	
MW-19	14-Mar-02	100.62	40.00	3.70		96.92	<0,001	<0.001	<0.001	<0.003	2000
MW-19	6-Jun-02	100.62		2.90 4.85		97.72 95.77	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0,003 <0.003	
MW-19 MW-19	30-Aug-02 6-Dec-02	100.62 100.62		5.71		94.91	<0.001	<0.001	<0.001	<0,003	
MW-19	3-May-04	100.62		4.10		96.52	<0.001	<0.001	<0.001	<0.003	<0.001
MW-19 MW-19	21-Apr-05 22-Apr-05	100.62 100.62		3.77		96.85	<0,001	<0.001	<0.001	<0.003	<0.001
MW-19	5-Jan-09	100.62		3.33		97.29					
MW-19	6-Jan-09	100,62	Personal St.	<u>Proproved Res</u>		3.000	<0.001 BDL	<0,001 BDL	<0.001 BDL	<0.003 BDL	<0.001
BW-1 BW-1	19-Jan-93 17-Jun-93						<0.001	<0.001	<0.001	<0.001	
BW-1	11-Jan-93						<0.001	<0.001	<0.001	<0.001	
BW-1 BW-1	27-Jun-94 16-Feb-95						<0.001 <0.002	<0.001 <0.002	<0.001 <0.002	<0.003 <0.005	
BW-1	28-Jul-95						<0.002	<0.002	<0.002	<0.005	
BW-1	22-Mar-96						<0.002	<0.002	<0.002	<0.005	1000
BW-1 BW-1	27-Feb-98 11-Oct-01	99.08		27.34		71.74	<0.001	<0.001	<0.001	<0.003	
BW-1	14-Mar-02	99.08		25.56		73,52	<0.001	<0.001	<0.001	<0.003	
BW-1	6-Jun-02	99.08		30.36		68.72 70.83	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	0.00
BW-1 BW-1	30-Aug-02 6-Dec-02	99.08 99.08		28.25 26.61		70.63	<0.001	<0.001	<0.001	<0.003	
BW-1	6-May-04	99.08							en, manhole nee		0,01
RW-1 ('04) RW-1 ('04)	21-Apr-05 29-Dec-08	108.01 108.01		4.58 2.42		103.43 105.59	0.44	0.0097	0.028	0.11	0.01
RW-1 ('04)	5-Jan-09	108.01		3.93		104.08		Minde		Andrews.	
MP-1	21-Apr-05	108.51		5.09		103.42	0.49 0.0301	0.013 0.0011	<0.0025 0.0021	0.015 <0.003	0.0096
MP-1 MP-2	6-Jan-09 21-Apr-05	108.51 108.72		5.31	7.000	103.41	0,23	0.0095	0.14	0.2	0,0077
MP-3	21-Apr-05	109.30		5.89		103.41	0.13	0,65	0.13	1.2	0.011
MP-3 MP-4	29-Dec-08 21-Apr-05	109,30 109,33		5.17 5.89		104.13 103.44	0.24	0.014	<0.001	0.013	0.0061
MW-21	21-Apr-05	102.43		8.79		93.64		Sill Sill			
MW-21	22-Apr-05	102.43				00.21	<0.001	<0.001	<0.001	<0.003	<0.001
MW-21 MW-21	5-Jan-09 6-Jan-09	102.43 102.43		6.12		96.31	<0.001	<0.001	<0.001	<0.003	<0,001
MW-22	21-Apr-05	107.15		4.62		102.53					
MW-22	22-Apr-05	107.15		434		102.81	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	<0.001 <0.001
MW-22 MW-23	6-Jan-09 21-Apr-05	107.15 104.89		4.34 6.90		97,99	-0.001	3.301			
MW-23	22-Apr-05	104.89					<0.001	<0.001	<0,001	<0.003	<0.001
MW-23 MW-23	5-Jan-09 6-Jan-09	104.89 104.89		6.78		98.11	<0.001	<0.001	<0.001	<0.003	<0.001
MW-24	21-Apr-05	105.54		4.35		101.19	<0.001	<0.001	<0.001	<0.003	<0.001
MW-25	24-May-05	107,74		4.31		103.43	<0.001	<0.001	<0.001	<0.003	<0.001

Groundwater Elevation and Analytical Results - BTEX and MTBE

							COCs	and Tier 1	Groundwater Re	mediation Obj	ectives
		Ti	er 1 Exposu	re Routes			Benzene	Toluene	Ethylbenzene	Total Xylenes	
		14	ei i Exposu	ic itoutco			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
OOCIED C	lass i Ground				And the second s		0.005	1	0.7	10	0.07
	lass i Ground lass II Ground						0.025	2.5	1	10	0.07
	Talana.	Reference	Static Depth to	Static Depth to	Free Product	Groundwater					1
Samole	Date	Elevation	Free Product	Water	Thickness	Elevation	ĺ				İ
ID	Sampled	(feet)	(feet below TOC)	(feet below TOC)	(feet)	(feet)					
MW-26	21-Apr-05	111.38		7.48		103.90					
MW-26	22-Apr-05	111.38				e samultagilas	<0.001	<0.001	<0.001	<0.003	<0.001
MW-26	29-Dec-08	111.38		6,00		105.38					
MW-26	31-Dec-08	111.38		6.94		104.44					
MW-26	5-Jan-09	111.38		7.23		104.15	20022471000055				A STREET, AND ADDRESS.
MW-26	6-Jan-09	111.38		Sacrific Circuit Sh			0.0403	0,0755	0.0048	0.0597	0.0017
MW-26	13-Mar-09	111.38		6.83		104.55					
MW-26	1-Арг-09	111.38		6.72		104.66					
MW-26	19-May-09	111.38		7.32		104,06					
MW-27	21-Apr-05	111.15		7.54		103.61	0.048	0.0095	0.15	0.68	0,016
MW-27	29-Dec-08	111.15		6.83	Sheen	104.32			A STATE OF THE STA	P	
MW-27	31-Dec-08	111.15	6.97	7.03	0.06	104.17					
MW-27	5-Jan-09	111.15	7.25	7.35	0.10	103.88					
MW-27	9-Jan-09	111.15	7.29	7.39	0,10	103.84		reach the			-34.00
MW-27	27-Jan-09	111.15	7.59	7.72	0.13	103.53			al Europe (Sec. As	and manufacture	cultive that
MW-27	30-Jan-09	111.15	7.68	7.68	0.02	103,49					
MW-27	26-Feb-09	111.15	7.28	7.36	0.08	103.85					
MW-27	9-Mar-09	111,15		6.5		104,65					
MW-27	13-Mar-09	111.15	6,82	6.825	0.005	104.33					
MW-27	1-Apr-09	111.15		6.71		104.44			200		
MW-27	19-May-09	111.15	7.37	7.39	0.02	103.78					12.5
MW-28	21-Apr-05	112.55		8.10		104.45					
MW-28	22-Apr-05	112.55		Juganiya karaka ka	Allerin Berlie	Hundelini	<0.001	<0.001	<0.001	<0.003	<0.001
MW-28	5-Jan-09	112.55	3.5	7.80		104.75	adiotina i				
MW-28	6-Jan-09	112.55			Editorio		<0.001	<0.001	<0.001	<0,003	<0.001
RW-1	6-Jan-09						0.764	<0.005	0.0052	<0.015	0.0118
RW-1	19-May-09			6,10							
RW-2	1-Apr-09			9.40							
RW-2	19-May-09			9.70							
RW-3	19-May-09			7.20						***	
RW-4	19-May-09			7.36	4 1-3	2000			280000000000000000000000000000000000000		
RW-5	19-May-09		6,93	8,40	1.47						
RW-6	19-May-09			7.05	0.00		- 4				
MW-29	19-May-09		7.32	9,39	2.07	227 1829 186- 187-11		Marine School Co.	The same of the sa		osti ziamosti i
MW-30	19-May-09		7.46	7.54	0.08			ete su et			
MW-31	19-May-09			7,36				200 PER PAR 2			
MW-32	19-May-09			7.43			waspress (F				#5337EF#18163%)

- Notes:

 1) GCGIER = groundwater component of the groundwater ingestion exposure route; COCs = constituents of concern
 2) mg/L = milligrams per Liter; TOC = top-of-casing
 3) <0,005 = concentration less than the laboratory reporting limit
 4) Bold = a concentration above the Tier 1 groundwater remediation objective(s) established in 35 Illinois Administrative Code Part 742
 5) All groundwater samples were analyzed for and methyl tertiary butyl either (MTBE) and/or benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency Method 8020 or 80218
 6) Shading = not available, not applicable, or not present; Sheen = a sheen of free product was present on the groundwater; BDL= concentration below the laboratory detection limit; FP = free product present
 7) Groundwater elevations are relative to a site specific datum of 100 feet

Soil Analytical Results - BTEX and MTBE

					200		mediation Obje	
				SECTION SEC				
lier	1 Exposure	Routes		Benzene			Total Xylenes (mg/kg)	MTBE (mg/kg)
				(mg/kg)	(mg/kg)	(mg/kg)		F. S.
SCGIER - Class I Groundwa				0.03	12 29	13 19	150 150	0.32 0.32
SCGIER - Class II Groundwa Inhalation - Residential	ater			0.8	650	400	320	8,800
Inhalation - Construction Wo	rker			2.2	42	58	5.6	140
Ingestion - Residential				12	16,000	7,800	16,000	780
Ingestion - Construction Wor	ker			2,300 870	410,000 650	20,000 400	41,000 320	2,000 8,800
Soil Saturation Limit	Date	Sample Depth	PID Reading	870	630	400	320	0,000
Sample ID	Sampled	(feet bis)	(ppm)		ĺ			
SB-1	21-Nov-90	4-5	20	<0.005	0.083	<0.005	0.085	
SB-2/MW-2	21-Nov-90	4-5	20	<0.005	0.11	0.29	1.8	
SB-3	21-Nov-90	4-5	>100	<0.005	0.2	0.22	2	
SB-4/MW-4	21-Nov-90	7-8	50	0.042	0.11	<0,005	<0.01	
SB-5/MW-5	21-Nov-90	9-10	0	0.041	0.11	<0.005	<0.01	
SB-6/MW-6	21-Nov-90	7-8	50	2.9	58	27	150	
SB-7/MW-7	21-Nov-90	7-8	200	0.27	33	20	120	
B-1	14-Jun-94	4-5.5	1 1	<0.002	<0.002	<0.002	<0.005 0.0085	2 6 6 6
B-2	14-Jun-94	1-3	10	<0.002 <0.002	<0.002 <0.002	<0.002 <0.002	0.0085	
B-3 m	14-Jun-94	5-7 E 7	60 50	<0.002 <0.002	<0.002 <0.002	<0.002 <0.002	0,042	47.7
B-4	14-Jun-94 14-Jun-94	5-7 2-4	13	<0.002	<0.002	<0.002	<0.005	
B-5 B-6	14-Jun-94	2-4	500	<0.002	<0.002	<0.002	<0.005	
B-7	14-Jun-94	2-4	300	0.029	0.0168	0.219	0,066	
HA-1	27-Aug-97	7.5-8	0	<0.002	<0.002	<0.002	<0.005	
HA-2	27-Aug-97	7.5-8	12	<0.002	0.147	0.0068	0.376	
HA-3	27-Aug-97	7.5-8	212	8.21	92.4	39.4	238	
HA-4	27-Aug 97	6.0-6.5	284	1,45	6.06	3.46	44.5	
SB-19/MW-17	31-Oct-97	10-12	0	<0.01	<0.01	<0.01	<0.03	
SB-19/MW-17	31-Oct-97	20-22	0	<0.01	<0.01	<0.01	<0.03	all de come è
SB-20/MW-18	31-Oct-97	12-14	0	<0.01	<0.01	<0.01	<0.03	
SB-20/MW-18	31-Oct-97	20-22	0	<0.01	<0.01	<0.01	<0.03	
CB-1	25-Oct-99	6-8	104	0.2	0.35	0.72	<0.03 38	
CB-2	25-Oct-99	8-10	294 510	26 4.7	240 190	89 95	36 49	
CB-3 CB-4	25-Oct-99 25-Oct-99	6-8 8-10	90	<0.12	1.9	3.4	200/<60	
CB-5	25-Oct-99	8-10	21.9	<0.028	<0.056	<0.056	37	
CB-6	25-Oct-99	4-6	6,6	<0.029	<0.058	<0.058	0.72	
CB-7	25-Oct-99	24-26	2.6	0.58	<0.063	<0.063	<0.6	Secondo de la
CB-8	25-Oct-99	22-24	6.3	0.57	<0.06	<0.08	<0.179	
C8-9	25-Oct 99	26-28	7.6	1.6	<0.06	<0.06	<0.178	
CB-10	25-Oct-99	10-12	2.6	<0.14	<0.28	<0.28	<0.167	
CB-11	26-Jul-00	10-12	321	0.7	13	5.9	3.9	
CB-12	26-Jul-00	6-8	553	<0.049	4.8	5.5	540	ili siteliteli e
CB-13	26-Juf-00	8-10	307	<0.03	0.11	0.085	590	
CB-14	26-Jul-00	8410	5141	<0.052	0.76	3.4	22.7	
CB-15	26-Jul-00	8-10	18	<0.03	<0.060	<0.060 <0.2	<0.166 <0.178	
CB-16	26-Jul-00	6-8 2-4	2.7 3.0	<0.021	<0.250	<0.059	<0.178	
CB-17	26-Jul-00 26-Jul-00	6-8	3.6	<0.029	<0.058	<0.058	<0.18	
CB-18 _. CB-19	26-Jul-00 26-Jul-00	0-2	3.3	<0.029	<0.057	<0.057	<0.18	
CB-19	26-Jul-00	6-8	3.2	<0.018	<0.17	<0.17	<0.84	
MW-19	17-Aug-01	22-24		<0.029	<0.057	<0.057	<0.51	
B-1a	17-Aug-01	4-6		<0.029	<0.058	<0.058	<0.167	
B-1b	17-Aug-01	16-18		<0.03	<0.06	<0.06	<0.178	
B-1c	17-Aug-01	22-24		<0.029	<0.058	<0.058	<0.18	
B-2a	16-Aug-01	8-10		<0.029	<0.057	<0.057	<0.178	
B-2b	16-Aug-01	16-18		<0.0079	<0.120	<0.12	<0.167	
B-2c	16-Aug-01	22-24	THE STREET	<0.029	<0.058	<0.058	<0.35	6 2 2 2
B-3a	16-Aug-01	8-10		<0.03	<0.06	<0.06	<0.178	
B-3b	16-Aug-01	16-18		<0.03	<0.059	<0.059	<0.18	
B-3c	16-Aug-01	22-24		<0.03	<0.059	<0.059 <0.059	<0.179 <0.179	
B-4a	16-Aug-01	8-10		<0.029 <0.029	<0.059 <0.057	<0.059	<0.179	
B-4b	16-Aug-01	16-18 20-22		0.034	<0.066	<0.066	<0.167	
B-4c	16-Aug-01	20-22		0.007	0.000			

Soil Analytical Results - BTEX and MTBE

					COCs an	d Tier 1 Soil Re	mediation Obje	ctives
Tier	1 Exposure	Routes		Веплеле	Toluene	Ethylbenzene	Total Xylenes	MTBE
	Lxposuic		Bathar States	(mg/kg)	E \$4000,0000 We 700 We 0	(mg/kg)	(mg/kg)	(mg/kg)
SCGIER - Class I Groundwa	ter			0.03	12	13	150	0.32
SCGIER - Class II Groundwa	ater			0.17	29	19	150	0.32
Inhalation - Residential				0.8	650	400	320	8,800
Inhalation - Construction Wor	ker			2.2	42	58	5.6	140
Ingestion - Residential Ingestion - Construction Wor	kor			12 2,300	16,000 410,000	7,800 20,000	16,000 41,000	780 2,000
Soil Saturation Limit	Nei			870	650	400	320	8,800
Con Catal and Entite	Date	Sample Depth	PID Reading		-	100		
Sample ID	Sampled	(feet bis)	(ppm)					
B-5a	16-Aug-01	8-10		<0.028	<0.057	<0.057	<0.196	
B-5b	16-Aug-01	10-12		0.55	<0.058	<0.058	<0.167	tilen med street
B-5c	16-Aug-01	22-24		<0.029	<0.057	<0.057	<0.178	ALCOHOLD BY
B-6a	16-Aug-01	2-4	anthuse comment	<0.029	<0.059	< 0.059	<0.167	
B-6b	16-Aug-01	16-18		<0.03	<0.060	< 0.060	<0.179	
B-6c	16-Aug-01	20-22	and the state of	<0.03	<0.059	<0.059	<0.017	
RW-1	11-Арг-05	4	1.3	<0.024	<0.059	<0.059	<0.12	<0.059
MP-1	11-Apr-05	5-7	0.8	<0.025	<0.062	<0.062	<0.12	<0.062
MP-2	11-Apr-05	5-6	0.7	<0.024	<0.06	<0.06	<0.12	<0.06
MP-3	11-Apr-05	6-7	238	0.15	0,13	1.7	8.197	0.16
MP-4	11-Apr-05	5-6	24.5	<0.023	<0.059	<0.059	<0.12	<0.059
SB-21/MW-21	12-Apr-05	2-3	5.1	<0.027	<0.067	<0.067	<0.2	<0.067
SB-22/MW-22	12-Apr-05	3	1.7	<0.025	<0.063	< 0.063	<0.19	< 0.063
SB-24/MW-24	12-Apr-05	4-5	0.9	<0.024	<0.059	<0.059	<0.18	<0.059
SB-25/MW-25	12-Apr-05	4	0.6	<0.023	<0.058	<0.058	<0.17	<0.058
SB-26/MW-26	12-Apr-05	5-6	5,3	<0.003	<0.074	<0.074	<0.22	<0.074
SB-27/MW-27	12-Apr-05	3-4	1,6	< 0.023	<0.058	<0.058	<0.17	<0,058
\$B-28	12-Apr-05	5-7	0.6	<0.02	<0.05	<0.05	<0.15	<0.05
SB-29	12-Apr-05	7-8	1.2	<0.023	<0.058	<0.058	<0.17	<0.058
SB-23/MW-23	15-Apr-05	4-5	1,3	< 0.023	<0.056	<0.056	<0.17	<0.056
SB-30/MW-28	15-Apr-05	4-5	0.9	<0.024	<0.059	<0.059	<0.18	<0.18
\$B-31	1-Jun-06	7-8	0.0	<0.023	<0.057	<0.057	<0.11	<0.057
SB-41	2-Feb-09	4-5	901	0.289	0.619	0.0731	0.731	<0.056
SB-41	2-Feb-09	5-8	>9,999	1.4	29.3	13,3	70.1	<0.673
SB-42	2-Feb-09	2-3	0.0	<0.0236	<0.059	<0.059	<0.177	<0.059
SB-42	2-Feb-09	6-8	629	0.0616	0.378	0.101	0.722	<0.0537
SB-43	2-Feb-09	4-5	33.7	<0.0232	<0.058	<0.058	<0.174	<0.058
SB-43	2-Feb-09	6-8	70.8	0.192	0.0798	1.24	6	0.219
SB-44	2-Feb-09	2-4	38.1	<0.0229	<0.0572	<0.0572	<0.171	<0.0572
SB-44	2-Feb-09	6-8	9,914	104	1,000	294	1,530	30.1
SB-45	2-Feb-09	4-5	7.8	<0.0233	<0.0581	<0.0581	<0.174	<0.0581
SB-45	2-Feb-09	5-7	16.0	<0.0234	<0.0585	<0.0585	<0.176	<0.0585
SB-46	2-Feb-09	1.5-2	11.4	<0.0237	<0.0593	<0.0593	<0.178	<0.0593
SB-46	2-Feb-09	6-8	314	<0.023	<0.0576	0.245	0.461	0.116
SB-47	2-Feb-09	2-4	0.6	<0.0227	<0.0567	<0.0567	<0.17	<0.0567
SB-47	2-Feb-09	6-8	6.8	0.0362	<0.058	<0.058	<0.174	0.108
SB-48	2-Feb-09	2-4	0.0	<0.038	<0.0701	<0.0701	<0.21	<0.0701
SB-48	2-Feb-09	6-8	>9,999	0.112	0.94	0.557	3.51	<0.0577
SB-49	2-Feb-09	3-4	63.7	0.709	2.48	0.175	2.57	<0.0577
SB-49	2-Feb-09	3-4 4-8	7,109	12.7	143	46.8	246	2.92
SB-49 SB-50	2-Feb-09	4-8 5-8	8.5	<0.0268	<0.0669	<0.0669	<0.201	<0.0669
00-00	Z-F6D-09	0-0	0.0	0.0200	3.0000	-0.0000	-0.201	.0,000

- Notes:

 1) SCGIER = soil component of the groundwater ingestion exposure route; PID = photoionization detector; COCs = constituents of concern

 2) mg/kg = milligrams per kilogram; ppm = parts per million; bls = below land surface

 3) <0.065 = concentration less than the laboratory reporting limit

 4) Bold = a concentration above the Tier 1 soil remediation objective(s) established in 35 Illinois Administrative Code Part 742

 5) All soil samples were analyzed for methyl tertiary butyl either (MTBE) and/or benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency Method 8020 or 8021
- 6) Shading = not applicable or the soil sample location has been resampled

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			Commonte of	O TELLIFICATION OF THE PERSON			Started pilot test										Stopped pilot test	
	63	MW-27	N. H.O		7.64	0	Sta	0		0.05	0.025		0.025	0.025	0.025	0.025	Γ	Section 1970
(feet)	24	MP.3	III. H.O		5.93	0		0.05		0.05	0.025	0.05	0.05	0.05	0.025	0.05	0.05	
Distance from extraction well RW-1 (feet)	12	MP-4	0.H.n.		5.93	0		0.025		0.025	0.025	0.025	0.05	0.05	0.05	0.05	0.025	
from extract	12	MP-2	0°H 'UI		5.36	+0.05		2.5		2.75	3.00	2.50	2.50	2.25	2.25	2.25	2.00	
Distance	9	MW-4	n. H ₂ O		8.15	+0.05		1.4		0.575	0.25	0.15	0.125	0.50	0.35	0,175	0,25	
	9	MP-4	0,H.0		2	0		0.05		0.025	0.025	0.025	0.025	0.05	0.05	0.05	0.05	
Stack Diameter (inches): 2	ered (gallor	Sample Liquids	hours gallons	Initial DTP (feet):	Initial DTW (feet):	mittal Pressure:											12:15 255	Final DTP (feet):
Initial DTW (feet): 4.64	I III DIW (IEBU). NA	Air Flow						16.36 6.5		-	-	+	17.45		+	17.45 9.1	110000000000000000000000000000000000000	
		Well	lsd .				00 6	7.25	6.50	9 00	5.50	5.25	5.75	5.75	5.75	2 2	SOLITION OF THE SECOND	
Initial DTP (feet): NA Final DTP (feet): NA	100	Well	In Hg				18.32	14.76	13.23	12.22	11.20	10.69	11 71	1171	11 71	11 20		
Test Well: RW-1 Test Date: May 12, 2005		Flapsed Time Time				90:6	9:10 04	9:15 09	9:30 24	9:50 44	10:15 69	10:35 89	10;50 104	11:00 114	11:30 144			

1) prome a parts per million
2) acfirm = actual cubic feet per minute
3) in. Hg = inches of mercury
3) in. Hg = inches of mercury
5) promise per square inches
6) DTW = depth to water; DTP = depth to product
6) Assume all readings on the observation wells are in H₂0 vacuum, unless noted with a plus sign (+), which indicates pressure
7) NP, NA, or shading = not present or not applicable
8) PID = photolonization detector
8) PID = photolonization detector
9) Test Well Vacuum (ps) measurements collected from the influent air stream using a flow meter provided by TriCore

Pounds of Total BTEX and MTBE Extracted by the Pilot Test

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															_
301	Cumulative vocs Removed	(spunod)		0.000	10000	0.0004	0.00.0	0.0008	0.0011	0.0016	0.0017	00000	0.0020	0.0024	70000
Cumulative DTEV	and MTBE Removed	(bonuds)		0.0000	0.00005	0.00020	0.000.0	0.00049	0.00092	0.00151	0.00216	0.00294	10.200	0.00381	0.0000
payo	a	(spuned)		0.0000	0.00005	0.00014	00000	0.00029	0.00043	0.00059	0.00065	0.00075	00000	0.000.0	0.00245
Mass of BITEX and WIRE Removed	Vapor	(Smirnod)	20000	0.0000	0.00005	0.00014	00000	0.00029	0.00043	0.00059	0.00065	0.00075	00000	0.0000	0.00118
s of BTEX an	Dissolved	1	0000	0.000	0.0000	0.0000	00000	0.000	0.0000	0.0000	0.0000	0.000	טטטטט	2000	0.00.13
Mas	ğ	fenuncal	c	5	o	0	c		o	0	0	0	U	c	>
Influent Total	BTEX and MTBE	1484								Anna Carlo San San San San San San San San San San				5077	2.750
Groundwater	Extracted (gallons)													255	, C.
	PID (ppm)			6.5	2 2	0.0	4.9	7.2	7.7	- 0	0.4.0	3./	5.1	3.1	-
Air	Flow (acfm)			16.36	200	10.01	18.54	17.45	18 64	17.45	71.7	10.04	17.45	17.45	
Operation	Time (minutes)		4	6	76	77	444	69	80	35,	777	+	144	189	
	Operation Time	90:6	9:10	9.15	0.30	00:0	9:30	10:15	10.35	10.50	14.00	11.00	11:30	12:15	

Notor

1) cfm = cubic feet per minute

2) ppm = parts per million

3) µg/L = micrograms per Liter

4) Influent Total benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) data taken from analytical laboratory results from the groundwater samples collected from RW-1 on April 21, 2005

5) PID = photoionization detector

6) shading = not applicable

7) VOCs = volatile organic compounds

Equations:

dissolved BTEX and MTBE removed (lbs) = gw extracted (gal) * sum of the influent total BTEX and MTBE (µg/L) * (3.78 L/1 gal) * (1 lb/4.53e8 µg) vapor BTEX and MTBE removed (lbs) = sum of the vapor removed for each individual compound (lbs)

vapor individual compound removed (lbs) = air bag concentration (ppmv)/10[®] (ppmv) * molecular weight of compound (lb/lb-mole) * 1/379,5 (scf/lb-mole) * air flow (cfm) * operation time (min)

VOCs removed (lbs) = TPH air bag concentration (ppmv)/10⁶ (ppmv) * molecular weight of compound (lb/lb-mole) * 1/379.5 (scf/lb-mole) * air flow (cfm) * operation time (min) 106.16 106.16 88.15 86.18 92.14 78.11 Molecular Weights: Ethylbenzene = Total Xylenes = Benzene = Toluene = MTBE = meter3 liters 0.028316847 453,600,000 3.785412 453,600 379.5 1 ib-mole = = punod gallon = = punod 1 feet³ = Conversions:

Air Bag Analytical Results

Shivam Energy, Inc. 399 West Liberty Street Wauconda, Lake County, Illinois 60084

Sample ID Sampled	Time Sampled	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)	TPH (ppmv)	Methane (ppmv)
RW-1 - Stack 12-May-05	12:15 PM	0.96	<0.1	<0.1	<0.3	<0.1	4.20	125.00

Notes:

¹⁾ The air sample was analyzed for benzene, toluene, ethylbenzene, total xylenes, methyl tert-butyl ether (MTBE), and total petroleum hydrocarbons (TPH) using United States Environmental Protection Agency (USEPA) Method TO-14 Source

²⁾ The air was analyzed for methane using USEPA Method TO-3 Air

³⁾ ppmv = parts per million by volume