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24 Hour Emergency Response www.TransEnvironmental.com

June 1, 2012

Illinois Environmental Protection Agency
Division of Land Pollution Control #24
Leaking Underground Storage Tank Section
1021 N. Grand Avenue
P.O. Box 19276
Springfield, IL 62794-9276

TRONMENTAL

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ATTN:

MATT URISH

RE:

IEMA #891717 / LPC # 0370305005

KIRKLAND QUICK STOP KIRKLAND, ILLINOIS 60146

DEKALB COUNTY

Dear Mr. Urish.

In response to our recent correspondence, we have prepared the attached two Corrective Action Completion Reports (CACR) to document the work completed to delineate the soil and groundwater plumes at the Kirkland Quick Stop LUST Site (incident number 891717), and to serve as the basis for discussion in our attempt to obtain a no further remediation (NFR) letter.

We are requesting closure for this site based on a groundwater use restriction for the Site, industrial-commercial land use restriction, a construction worker notification. The most recent groundwater monitoring has shown BTEX and PNA levels drop below the TACO Tier 1 GROs, but we have also used Tier 2 modeling to address the residual level of benzene in MW-14 in the past year.

Please contact me at 815/885-4840 or by email at mwarneke@transenvironmental.com if you have any questions or require any additional information.

Sincerely,

TRANS ENVIRONMENTAL, LTD.

Matthew J. Warneke

Enclosures

cc John Blake, Blake Oil Company / Blake Leasing Company LLC

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Phone 815/885-48 Fax 815/885-4841

Corrective Action Completion Report
Kirkland Quick Stop
411 West Main Street
Kirkland, Illinois 60146

IEMA# 891717

PREPARED FOR:

Blake Oil Company Attn: John Blake 401 Main Street Kirkland, IL 60146

PREPARED BY:

Trans Environmental, LTD 8184 Starwood Drive Loves Park, Illinois 61111 Job # TE11-025

May 31st, 2012

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ATTACHMENTS:

- A. Manifests from disposal of contaminated groundwater
- B. Manifests from disposal of contaminated soil
- C. Analytical Tabular Summaries, Reports, CoCs, Lab Certifications (old data)
- D. Monitoring Well Completion Reports (MW-11 to MW-14)
- E. Analytical Tabular Summaries/Reports, Lab Certifications (new GW data)
- F. Water Well Survey Information
- G. PE Certification Form
- H. Owner/Operator Property Summary
- **TACO Tier 2 Modeling**

FIGURES:

- 1. Sample Location Map
- 2. Site Map per 734.440
- 3. Map Showing Tier II Groundwater Modeling Plume

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Illinois Environmental Protection Agency **Leaking Underground Storage Tank Program Corrective Action Completion Report**

A.	Site	identific	ation		
	Site I	Name: _	t # (6- or 8-digit): <u>891717</u> IEPA LPC# (10-digit): <u>03</u> Kirkland Quick Stop	70305005	-
			(Not a P.O. Box): 411 West Main Street	Zip: 60146	-
	Leak	ing UST	and County: <u>DeKalb</u> Technical File	Zip. <u>00 140</u>	-
B.	Site	Informa	tion		ľ
	1.		a Corrective Action Plan been approved? of approval letter: _1995	Yes ⊗ No □	
	2.	This	completion report is being submitted pursuant to:		
		a.	35 III. Adm. Code 731.166	⊗	
		b.	35 III. Adm. Code 732.300(b)	- R	ECEIVED
		C.	35 III. Adm. Code 732.404		
		d.	35 III Adm. Code 734.345		JUN 04 2012
	3.	Meth	od of remediation chosen:	1 =	PA/BCI
		a.	Soil Bioremediation / Land Disposal		- 70,00
		b.	Groundwater In Situ Bioremediation		-
	4.	Quar	ntity of contaminated media remediated and/or recovered:		
		a.	Soil	<u>700</u> yds ³	
		b.	Groundwater	gals.	
		C.	Free Product	gals.	
C.	Rem	edial (C	orrective) Action		ļ

- 1. An executive summary that identifies the overall objectives of the corrective action and the technical approach utilized to meet those objectives. The summary shall contain the following information:
 - A brief description of the site, including but not limited to a description of the a. release, the applicable indicator contaminants, the contaminated media, and the extent of soil and groundwater contamination that exceeded the most stringent Tier 1 recommendation objectives;

The Kirkland Quick Stop site is a relatively flat, approximately 0.5 acre site located in downtown Kirkland in a mixed use (industrial-commercial-residential) area along Main Street. The Site is currently a newer Marathon gas station and convenience store with USTs operated by John Blake, and was formerly Kirkland Quick Stop gas station

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(former owners/operators Lloyd & Janice Johnson) which had gasoline and diesel fuel USTs that impacted the soil and groundwater conditions on site. On behalf of Kirkland Quick Stop, the release was reported to the Illinois Emergency Management Agency (IEMA), and incident number 891717 was assigned to the site back on September 7th, 1989.

In September of 1991, PDC Technical Services performed an investigation of the existing gas station and the results were submitted to the IEPA in April of 1992. The IEPA requested that additional corrective actions be completed on site.

In July of 1993, Environmental Contractors of Illinois (ECI) was contracted to provide environmental services to address the suspect petroleum contamination from the USTs located on site. The monitoring wells on site were surveyed and sampled to determine existing groundwater conditions, and petroleum contamination was apparent in the shallow water table (approximately 7 feet deep). It was determined that the site may be impacted by the USTs in service.

The contaminated media was soil, and the indicator compounds were BTEX and PNAs. Based on the site investigations completed to date (1990-2011), the primary petroleum contaminants were benzene, ethyl benzene, benzo(a)pyrene and naphthalene, which were above the TACO Tier 1 SROs.

In an effort to remediate the site, it was decided to remove the existing USTs in service, conduct the remedial actions, and then install new USTs in order to continue to operate the gas station on site. New double-walled fiberglass tanks were planned for installation immediately following the UST removals, and limited downtime was required in order to streamline the project.

ECI along with the installation contractor (Pyramid Petroleum) determined that the excavation would require dewatering during the tank removal and prior to the installations. In addition, contaminated soils would be heavily saturated due to the high water table and might not pass a paint filter test for disposal at a special waste landfill. Therefore, arrangements were made to dewater the excavation during removal, remediation and installation operations and permits were obtained to dispose the contaminated groundwater off site as a special waste along with having an air stripper on site if pretreatment was necessary due to free product or concentrated hydrocarbon levels. During the project, a total of 30,500 gallons of petroleum contaminated groundwater were pumped, transported and disposed at Interstate Pollution Control's (IPC's) licensed wastewater treatment plant in Rockford. See Attachment A for copies of the manifests.

Between October 1st and 5th, 1993, ECI constructed a containment cell on the property for containment of the saturated petroleum contaminated soils. The containment cell was constructed of a sand base, a 30 ml PVC liner, and concrete barrier walls. The cell was 40 feet wide, 80 feet long and the concrete barrier walls were 4-feet high. The petroleum contaminated soils excavated from the LUST areas were placed in the cell for containment and covered with a 15 ml PVC liner.

The five in-service USTs were removed on October 6th and 7th, 1993. Petroleum contaminated soils (PCS) were apparent in the tank area and along the diesel fuel piping distribution lines. The tanks were cut and cleaned and disposed of at a scrap yard. Approximately 700 cubic yards of PCS were excavated, loaded and stockpiled in the containment cell between October 6th and 8th.

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On October 8, 1993, three new USTs were installed in the same location as the previous USTs. The tanks were installed by Pyramid Petroleum Company, and they are the same tanks that remain in place today at the Marathon Oil gas station, which underwent a major site renovation back in 2001 when Blake Leasing Company, LLC acquired the property. On July 29, 1994, the 700 cubic yards of stockpiled PCS was loaded out, transported and landfill disposed at Winnebago Reclamation. See Attachment B for copies of the waste manifests.

In accordance with 35 IAC, Section 734.335, the following site conditions warranted corrective action at the Kirkland Quick Stop LUST Site:

- > The soil remediation objectives (SROs) for the soil component of the migration to groundwater route values, construction worker inhalation route for naphthalene and xylenes, along with the groundwater remediation objectives (GROs) outlined in the IEPA's Tiered Approach to Corrective Action Objectives (TACO) were exceeded for the applicable indicator contaminants (BTEX and PNAs) on the subject property which poses a risk to area wells that obtain potable water from the groundwater resource. Based on these conditions, the threat that existed was the potential for petroleum contamination to migrate to the groundwater and contaminate the underlying aquifer and potable wells, both public and private.
- b. The major components (e.g., treatment, containment, removal) of the corrective action;

The corrective actions consisted of excavation, temporary stockpiling, transportation and landfill disposal of 700 cubic yards of petroleum contaminate soils, which eliminated the TACO ingestion and inhalation exposure routes for industrialcommercial properties, and significantly reduced the soil component of the groundwater ingestion exposure route (only 4 samples in the former / existing tank excavation area exceeded this exposure route for benzene; the levels ranged from 0.032 mg/kg to 0.12 mg/kg in the four samples). Follow up in situ bioremediation was conducted on site.

The scope of the problems corrected or mitigated by the corrective action; C.

The corrective actions substantially eliminated the soil component of the groundwater ingestion exposure route, not to mention potential migration pathways and inhalation & ingestion exposure routes of the petroleum contamination (utility conduits along Main Street and the side street).

The anticipated post-corrective action uses of the site and areas immediately d. adjacent to the site:

The subject property is currently a Marathon Gas Station and future plans remain the same (gas station & convenience store). The surrounding properties are mixed use (commercial, residential and industrial).

A description of the corrective action activities conducted including $\mathbb{RECEIVED}$ 2.

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A narrative description of the field activities conducted as part of corrective a. action:

The former Kirkland Quick Stop gas station site had ten USTs storing gasoline and diesel fuel. Five of the USTs were removed by FIW on November 2nd of 1989, and the other five USTs were removed by Environmental Contractors of Illinois on October 6th and 7th, 1993. Upon excavating the USTs, soil contamination was apparent and corrective actions were completed to address the petroleum The following is a timeline of the corrective action and site contamination. investigation activities:

September 7, 1989. Petroleum contamination was discovered at the Kirkland Quick Stop gasoline station site during monitoring well installation. On behalf of Kirkland Quick Stop, the release was reported to the Illinois Emergency Management Agency (IEMA or IESDA at the time) on September 7, 1989, and incident number 891717 was assigned to the site.

September 19, 1989. At this time, there were five tanks or USTs "in service" and five tanks "out of service". A tank tightness test was performed, and the five in service tanks passed (as not leaking).

November 2-3, 1989. The five "out-of-service" tanks were removed by F.I.W. on November 2rd & 3rd, 1989. Petroleum contaminated soils were apparent around some of the USTs located east-southeast of the former building.

September 1991. PDC Technical Services, Inc. performed an investigation.

April 1992. PDC Technical Services, Inc. investigation results were submitted to the IEPA. Following IEPA review of the report, the Agency requested that additional work be conducted.

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July 1993. Environmental Contractors of Illinois, Inc. (ECI) was contracted to provide consulting and contracting services. The monitoring wells on site were surveyed and sampled to determine existing groundwater conditions. Petroleum contamination was apparent. It was determined that the site may be impacted by the USTs in service. From data obtained from the well survey, it was determined that a shallow groundwater table was present (approximately 7 feet) in the tank area. In an effort to remediate the site, it was decided to remove the tanks that were in service. The station was still operating and the owners/operators wanted continue to operate the gas station. Therefore, plans and designs for new double-walled fiberglass tanks were implemented for installation immediately following the UST removals. Limited downtime was required between the removal of the existing USTs and the installation of the new USTs as well as the remediation operations to address the release and LUST# 891717.

ECI, along with the installation contractor, determined that the excavation would require dewatering during the tank removals and prior to installations due to the high water table. In addition, contaminated soil would be heavily saturated and may not pass a paint filter test for disposal at a special waste landfill. Arrangements were made to run a 3-inch propane powered water pump during tank removal activities and prior to new tank installations. Previous test results showed the groundwater to contain levels of contamination within the limits for disposal at a special waste treatment facility. However, areas of free product were expected and provision had to be made for high hydrocarbon levels. An air stripper was rented and available to serve as a pretreatment system in the event hydrocarbon concentrations encountered in the water exceeded special waste disposal limits.

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The tank removal and UST installation permits were submitted to the Office of the Illinois State Fire Marshal and an inspector was scheduled for the tank removals.

October 1-5, 1993. A containment cell was constructed for placement of the contaminated soil. The containment cell was constructed of sand, a PVC liner, and concrete barrier walls. The ground surface was prepared with ag-lime (sand) to provide a level surface and prevent damage to the liner base from sharp rocks or foreign objects. The base liner consisted of a one piece 30 mil PVC liner. The edges were draped over 4 foot high concrete barrier walls and anchored with ag-lime (sand). The base of the containment cell was 40 feet by 80 feet by 4 feet in depth. The contaminated soil was placed in the cell and covered with a 15 mil PVC liner.

October 6-7, 1993. The five in-service USTs were removed. Petroleum contamination (gasoline and diesel fuel) was apparent in the tank areas and along the diesel piping distribution lines. According to OSFM Inspector Ken Oltman and site personnel, the release appeared to be a result of general spillage / overfill and possibly a combination of leaking piping. The tanks were cleaned and disposed of. Contaminated soil was excavated, loaded and stockpiled in the containment cell. Over the course of the tank removal and UST installation project, contaminated groundwater was pumped and placed in a temporary storage tank and hauled to Interstate Pollution Control (IPC) for wastewater treatment. A total of 30,500 gallons of contamination groundwater was pumped and disposed of as a special waste.

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October 8, 1993. The installation process for three new USTs began in the same

location as the former USTs and canopy area (east of the building) following the

tank removals and the excavation of petroleum contaminated soils. The excavation

area was approximately 45 feet wide by 55 feet long and 12 feet deep. The new

tanks were installed by Pyramid Petroleum Company. Pyramid Petroleum set the

tanks and then continued the installation project by installing the new piping and

dispenser pumps over the next week.

October 11, 1993. Piping and pump islands were uncovered and removed.

Additional contaminated soil was stockpiled in the containment cell.

October 12, 1993. Additional contaminated soil was removed from the piping/pump

island excavation and stockpiled in the containment cell. The stockpile was covered

with a PVC liner.

October 13, 1993. Additional contaminated soil was removed from the piping/pump

island excavation and stockpiled in the containment cell. The stockpile was covered

with a PVC liner. Closure samples were collected from the piping trench excavation

areas and under the former dispenser pumps.

May 31, 1994. ECI completed a 45 Day Report and submitted it to IEPA.

July 29, 1994. Through the process of evaporation, the petroleum contaminated

soils in the stockpile on site had dried to the point where representative samples

passed a paint filter test so that the special waste could be disposed at a licensed

Corrective Action Completion Report Kirkland Quick Stop / Kirkland, Illinois **LUST IEMA# 891717**

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subtitle D landfill. Heavy equipment was used to load the PCS onto licensed special

waste hauler semi dump trucks and the PCS was transported and disposed at

Winnebago Reclamation Landfill located in New Milford, Illinois. Approximately 700

cubic yard of PCS was removed as part of the remediation operations to address

the release and LUST# 891717.

March 21, 1995. Dahl & Associates completed a Corrective Action Plan/Report and

submitted it to IEPA.

August 24, 2001. Trans Environmental conducted groundwater sampling at the

Kirkland Quick Stop. Benzene was detected above TACO Cleanup Objectives in

the northern monitoring wells (MW-3, MW-5, MW-6) and in the monitoring well

located along the west side of the building near the southern property line (MW-8).

In addition, several PNA compounds were detected slightly above TACO Cleanup

Objectives in the monitoring wells MW-5 and MW-7.

February 15, 2002. Trans Environmental injected 6 to 7 gallons of Hydrocarbon

bacterial agent for bioremediation into wells MW-3A, MW-05, MW-08, and MW-06.

May 23, 2002. Trans Environmental conducted groundwater sampling. Benzene.

Toluene, Ethyl Benzene, and Xylene (BTEX) compounds were detected in wells

MW-5 and MW-8. One PNA compound (Naphthalene) was also detected in MW-5

and MW-8. However, only benzene was detected above the TACO Cleanup

Objectives. Wells MW-3A, MW-6, and MW-7 had no detection of BTEX or PNA

compounds.

April 3, 2003. Trans Environmental conducted groundwater sampling on site. The

five groundwater monitoring wells (MW-3A, MW-5, MW-6, MW-7, and MW-8) were

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sampled. A general increase in BTEX levels occurred, especially in MW-3A and MW-8. Part of the increase may have been due to construction activities for the new Marathon station (the old building and canopy were demolished, and a new building and canopy were constructed on the west side of the property), and a low water table which resulted in poor well purging (sedimentation in water samples).

December 1, 2003. Trans Environmental conducted groundwater sampling which included monitoring wells MW-3A, MW-85, MW-6, MW-7, and MW-8. This sampling event showed a significant increase in the levels of both BTEX and PNA compounds, of which all five samples exceeded the TACO Tier 1 GROs. Sample MW-3A had the highest concentration of benzene at 0.586 ppm, whereas sample MW-8 had the highest concentration of PNAs with naphthalene detected at 31.5 ppm. Samples MW-6 and MW-7 also had hits of PNAs exceeding the TACO Tier 1 GROs. Benzene was the only indicator compound that exceeded the Tier 1 GROs in MW-5.

April 27, 2004. Trans Environmental conducted groundwater sampling. The sampling showed a downward trend at the site with petroleum contaminants in the wells MW-3A, MW-6, MW-7, and MW-8 showing lower concentrations. MW-5 was the only well that showed an upward trend with the concentration of benzene going up from 0.0299 ppm to 0.065 ppm. Benzene was the only indicator compound that exceeded the Tier 1 GROs in MW-3A, MW-5, and MW-8. Samples MW-6 and MW-8 had hits of PNAs (naphthalene) exceeding the TACO Tier 1 GROs.

2005-2006. A series of in situ bio-remedial corrective actions were conducted on site in an attempt to assist in degrading the residual compounds of petroleum hydrocarbons remaining in the groundwater. These corrective actions included pumping impacted groundwater from existing monitoring wells and installation of bioremediation solutions into un-used monitoring wells.

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June 8, 2005. Trans Environmental conducted groundwater sampling. The wells MW-7. MW-3, MW-5, and MW-8 sampled exceeded the TACO Tier 1 GROs for BTEX compounds, and wells MW-6 and MW-8 exceeded the TACO Tier 1 GROs for PNA compounds. Some well maintenance actions were conducted on MW-3A and MW-6, which consisted of replacing the flush mount cover on MW-6 and fixing the cover on MW-3A (the covers were worn and partially damaged from age along with all the construction operations on site, and some poor storm water drainage on site created puddles/swales on the asphalt surface around some monitoring wells).

April and July, 2006. Trans Environmental conducted groundwater sampling. The sampling events showed overall downward trend at the site with the petroleum contaminants in the majority of the wells showing lower concentrations (MW-3A, MW-5, and MW-7). MW-6 was the only well that showed an upward trend along with reappearance of naphthalene in MW-8. Nevertheless, all the wells sampled exceeded the TACO Tier 1 GROs with the exception of MW-7. Monitoring wells MW-3, MW-5, and MW-8 exceeded the GROs for BTEX compounds, and MW-6 and MW-8 exceeded the GROs for PNA compounds.

The wells were surveyed to determine current groundwater flow, and Tier II modeling was completed to see if the levels were below the TACO Tier I GROs at the property boundaries or by the time they cross under Main Street to the south. Based on the mathematical modeling and using the highest concentration of benzene in MW-8 in the April & July 2006 sampling periods, the groundwater plume diluted out under the TACO Tier 1 GROs 30 feet southwest of MW-8, far before contamination reached to the neighboring properties to the south. It appeared that the low levels of petroleum contaminants in all of the monitoring wells would meet the TACO Tier 1 GROs through modeling before they would migrate off-site.

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March 2007 - 2008. Additional groundwater sampling was conducted. The sampling

events showed another overall downward trend at the site with the petroleum contaminants in the majority of the wells showing lower concentrations. This was especially true with respect to BTEX compounds with the exception of MW-8, which had a resurgence of all four BTEX compounds in the 2007 sampling event. The only well that continued to exceed the TACO Tier 1 GROs was MW-5 for benzene, which was down to its lowest level of benzene at 0.0184 mg/L. Although the BTEX compounds had remained low, there was a fairly significant resurgence in PNAs during the 2008 sampling period, especially for MW-3A, MW-5, and MW-6. The resurgence of PNAs in these three monitoring wells was at levels exceeding the TACO Tier 1 GROs. The other two monitoring wells (MW-7 and MW-8), were nondetect with the exception of a low hit of naphthalene in MW-8, but both samples were below the Tier 1 GROs.

November 2008. Trans Environmental installed Regenesis oxygen release compound (ORC) 2-inch socks in the wells to assist in degrading the residual compounds of petroleum hydrocarbons remaining in the groundwater.

February 2009. Trans Environmental conducted groundwater sampling. The only well that continued to exceed the TACO Tier 1 GROs was MW-5 for benzene, which was down to its lowest level of benzene at 0.0122 mg/L, but three of the wells (MW-3A, MW-6 and MW-8) remained above the GROs for PNAs.

August 26, 2009. Trans Environmental installed four new monitoring wells (MW-11, MW-12, MW-13 and MW-14) on the subject property (Marathon Gas Station). The old wells remained in place in case future needs for ORC injections were needed or until the IEPA issues an NFR letter.

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September 2009. New Regenesis oxygen release compound (ORC) 2-inch socks were installed in the old wells to assist in degrading the residual compounds of petroleum hydrocarbons remaining in the groundwater.

August 27 and November 27, 2009. Trans Environmental conducted groundwater sampling. The only monitoring well that continued to exceed the TACO Tier 1 GROs was MW-14 (northeast corner along alleyway) for benzene, which was down to its lowest level of benzene at 0.067 mg/L and 0.0337 mg/L. The August sampling event had low levels of xylenes in all four monitoring wells, but no xylenes were detected in the November sampling event and no PNAs were detected in either sampling event.

February 16, 2010. Trans environmental conducted groundwater sampling. An increase was noted in benzene concentrations in MW-14, which is located on the north end of the property and low hits of ethyl benzene, xylenes and naphthalene in MW-11 located on the southern portion of the property. The only well that continued to exceed the TACO Tier 1 GROs was MW-14 (northeast corner along alleyway) for benzene, which increased from the last sampling event from 0.067 mg/L to 0.122 mg/L. Both monitoring wells on the western portion of the property (MW-12 and MW-13) were clean or non-detect for all BTEX and PNA compounds.

January, March & September, 2011. Trans environmental conducted additional groundwater sampling especially focusing on the benzene levels in MW-14. A decrease was noted in benzene concentrations in MW-14, from 0.0595 mg/L to 0.0304 mg/L to finally less than 0.005 mg/L. The September groundwater sampling event had no BTEX compounds above the TACO Tier 1 GROs. The sample results were relayed to the IEPA project manager and he requested a status report in the form of a CACR in order to evaluate the site conditions and determine if any further monitoring or remedial actions would be required.

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A narrative description of the remedial actions implemented at the site and b. the performance of each remedial technology utilized;

An estimated total of 700 cubic yards of LUST contaminated soil was removed from the excavation on October 6 and 7, 1993. The contamination was evident by site and smell and by field screening with an organic vapor meter (OVM) around the five USTs containing gasoline and diesel fuel. Most of the contamination excavated was backfill materials (estimated 600 yards); the remainder (100 yards) was native soil.

Approximately 30,500 gallons of contaminated groundwater was hauled to Interstate Pollution control (IPC) during the tank removals and prior to new tank installations. North Branch Environmental and T.I.C.S. hauled the wastewater to IPC under their EPA authorization number 00036.

ECI constructed the treatment cell on October 1 and 5, 1993. The cell was restricted in size to an area 40 feet by 80 feet. The cell areas were prepared with a 12 inch layer of aq-lime (crushed-sand). The perimeter of the treatment cell was lined with concrete traffic barrier walls. The base of the treatment cell consisted of a 30 mil PVC liner anchored with ag-lime. The cover consisted of a 15 mil PVC liner.

Contaminated soil was excavated on October 6 and 7, 1993. The soil was placed in the treatment cell in 12 inch lifts. The tank backfill sand was placed on the bottom to provide some protection to the 30 mil liner base. Two inches of nutrient supplement were placed on the 12 inch soil lifts. Also included was approximately 350 pounds per lift of calcium peroxide (0.1 percent by weight). Each lift was thoroughly mixed with a rototiller pulled by a Kaboda tractor. Upon completion of the excavation and placement of the contaminated soil, the treatment cell was covered with 15 mil liner.

Soil samples were collected from the excavation in accordance with 35 Illinois Administrative Code Part 731. A total of 16 soil samples were collected from the gasoline/diesel tank excavation: four bottom samples and twelve wall samples were collected. These soil samples were analyzed for BTEX/PNAs. In addition, four soil samples were collected from the piping trenches/pump islands. These samples were also analyzed from BTEX/PNAs. See Figure 1 for a sample location map.

Field screening consisted of placing approximately 8 ounces of a spilt soil sample into a labeled Ziploc bag, sealing the bag, and allowing the bag to warm to approximately 70°F inside a field vehicle. Field Screening was conducted using Thermo Environmental Instrument's Organic Vapor Meter (OVM) with a 10.6 eV lamp. The OVM was calibrated on a daily basis or as needed according to manufacturer's instructions. The probe of the OVM was inserted into the Ziploc bag and the highest reading was recorded.

Eighteen test borings (TBs) and 10 monitoring wells (MWs) have been installed as part of the LUST investigation for the Kirkland Quick Stop site. Six of these borings, all of which were converted to monitoring wells, were installed to define the lateral extent of hydrocarbon impacted soil and groundwater at the site prior to completion of this Corrective Action Plan. These borings were advanced on November 14, 1994, November 15, 1994, and January 5, 1995. MW-3A was installed to replace MW-3 which was destroyed. Information regarding soil type, laboratory results, and well construction has previously been submitted to the IEPA.

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Analytical results from soil and groundwater samples were used to define the extent of soil and groundwater contamination at this site. Both BTEX and PNA plumes are present, sometimes separate and other times comingling. Since their installation, benzene concentrations in excess of IEPA cleanup objectives of 5 parts per billion (ppb) have been recorded in MWs 1, 3A, 5, and 8. PNA constituents in MWs 1, 2, 5, and 8 were reported at concentrations in excess of cleanup objectives. MWs 4, 6, 7, and 10, located around the perimeter of the site, have not contained concentrations of benzene, total BETX, or PNA constituents in excess of established cleanup standards.

Soils encountered in borings advanced at this facility generally consisted of shallow silty clay sand sandy silts changing to sands and gravelly sands. Hydraulic conductivities were calculated using data obtained during slug out tests performed on MWs 3A and 8. The average calculated hydraulic conductivities for these wells ranged from 250 to 360 gallons per day per square foot (gal/day/ft2).

Silty clay makes up the uppermost four to seven feet at the site, before changing to a sandy silt which may or may not contain gravel. Both well-sorted and poorly sorted sand lenses are encountered at depths ranging from 10-12 feet bgs. Poorly graded gravel was encountered at a depth of approximately 14 feet bgs in some locales. The well record for the Village of Kirkland water well, located just north of the Quick Stop site, indicates bedrock is present at a depth of 60 feet.

Depth to Water. Depth to groundwater (and water level elevation) were determined from measurements of water levels at each of the monitoring wells. Measured water levels in monitoring wells have varied approximately 7 to 10 feet below land surface (bgs). Water level fluctuations occur seasonally.

Hydraulic Conductivity and Permeability. The Hydraulic conductivity was observed to range from 250 gallons per day per square foot at MW-8 to 360 gallons per day per square foot at MW-3A. Hydraulic conductivity was determined from analysis of data collected during slug-out tests conducted January 5, 1995. Recovery data has been interpreted based upon methodologies presented Bower and Rice. The Hydraulic conductivity determined from the recovery rate test data was compared to published referenced. MW-8 and MW-3A were completed in well sorted sand with varying amounts of silt and gravel, and are typical of the site.

The remedial actions consisted of the excavation and landfill disposal of 700 cubic vards of petroleum contaminated soils on July 29, 1994. The soil remediation was effective in reducing the majority of petroleum contamination below the TACO Tier 1 SROs.

The contaminated soils had posed a threat for the soil component of the groundwater ingestion route (soil contaminants had exceeded the TACO Tier 1 SROs) and the groundwater remediation objectives (GROs). The corrective actions, which consisted of the physical removal of petroleum contaminated soil and the on site land farming / bioremediation, eliminated the migration to groundwater exposure route.

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C. Documentation of sampling activities:

- Sample collection information; İ.
- Sample preservation and shipment information ii.
- Analytical procedure information iii.
- Analytical results, chain of custody and control, and laboratory iv. certification:
- Field and lab blanks, and: ٧.
- Table(s) comparing analytical results to remediation objectives Vİ. approved for the site (include sample depths, date collected, and detection limits):

Soil samples were collected at discreet intervals from the excavation area in accordance with the closure sampling plan contained within the HP CAP. A field scientist inspected the soil samples for staining, odor or other signs of physical Soil samples were field monitored for the presence of total organic vapors using a photo ionization detector (PID). Field observations and PID readings were recorded on the field logs. At the same time, the land farm treatment remediation system was inspected for a number of environmental, health, safety and security issues.

Representative grab samples were collected from the excavation areas following remediation in accordance with IEPA protocols and "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Volume One, Chapter One (Quality Control) and Volume Two (Field Manual). The soil samples collected for BTEX analysis were sampled in accordance to SW 846 Method 5035. Collected samples were submitted under chain-of-custody to either Suburban or CBC Environmental Laboratories, Inc. and analyzed for BTEX via SW 846 Method 5035/8260B and PNAs via SW 846 Method 3540C/8270C.

The analytical data was compared to the Tiered Approach to Corrective Action Objectives (TACO), 35 IAC Part 742, Tier 1 Soil Remediation Objectives (SROs) for both industrial-commercial properties (Appendix B, Table B). The Laboratory Analytical Reports, Analytical Tabular Summaries, Chain-of-Custody Forms and Laboratory Certification Forms are included in Attachment C. This information was previously submitted in reports / plans submitted to the Agency for review. Please reference the following reports for this information:

- 45 Day Report & PE Certification 5-31-1994
- Corrective Action Plans dated 6-10-1994 and 5-2-1995.
- Miscellaneous Correspondence 6-17-2009

For the analytical tabular summaries, please see Attachment C of this report. A diagram showing the soil sample locations is also included in Figure 1.

d. Soil boring logs and monitoring well construction diagrams.

The soil boring logs were previously submitted in previous reports / plans submitted to the Agency for review. However, the monitoring well completion reports for the new monitoring wells installed on August 26, 2009 (MW-11, MW-12, MW-13 and MW-14) are included in Attachment D.

- 3. A narrative description of any special conditions relied upon as part of corrective action including:
 - Engineered barriers utilized: a.
 - i. type of barrier(s); and
 - ii. map showing location(s) and dimension(s) of barrier(s);

The majority of the site is covered by the existing building, canopy, along with asphalt and concrete pavement. The asphalt / concrete pavement installed with the redevelopment of the site along with the new building footprint and over 10-feet of clean aggregate materials underlying the site will provide a barrier to prevent the infiltration of residual contaminants into the subsurface in addition to providing a barrier for the inhalation and ingestion routes on the surface of the property. However, based on the analytical data, no engineered barrier appears to be needed.

- b. Institutional controls utilized:
 - i. copy of fully executed institutional control(s); and
 - ii. map showing location(s) of controls;

The institutional controls to be implemented on the Kirkland Quick Stop LUST site include a land use limitation to industrial-commercial and groundwater use restriction on site.

C. Other conditions, if any, necessary for the protection of human heath and safety and the environment that are related to the issuance of a No Further Remediation Letter;

Construction worker notification.

Any information required regarding off-site access;

Not applicable.

An analysis of the effectiveness of the corrective action that compares the confirmation sampling results to the remediation objectives approved for the site;

The Laboratory Reports & Analytical Tabular Summaries are presented in Attachment C (old soil data from 1993) and Attachment E (new and old groundwater data).

5. A conclusion that identifies the success in meeting the remediation objectives approved for the site;

On behalf of Kirkland Quick Stop, the appropriate corrective actions have been undertaken to achieve the desired remediation objectives to address impacts to human health and the environment and to close out IEMA Incident #891717. The remediation objectives include meeting TACO Tier 1 soil remediation objectives (SROs). The corrective actions and proposed institutional controls implemented on the Kirkland Quick Stop property located at 411 West Main Street in Kirkland, Illinois have effectively reduced the petroleum contaminant concentrations to levels below the TACO Tier 1 SROs. These measures undertaken have produced results to protect human health and the environment. Trans Environmental requests the Agency's assistance in obtaining a no further remediation (NFR) letter for closure of the Kirkland Quick Stop LUST Site (IEMA# 891717).

16178





Agency ID: 170000546014

Media File Type: LAND

Bureau ID: 0370305005

Site Name: Kirkland Quick Stop

Site Address1: 411 W Main St

Site Address2:

Site City: Kirkland

State: IL

Zip: 60146-

This record has been determined to be partially or wholly exempt from public disclosure

Exemption Type:

Redaction

Exempt Doc #: 8

Document Date: 6 /4 /2012

Staff: JKS

Document Description: CACR

Category ID: 21A

Category Description:

LEAKING UST TECHNICAL

Exempt Type: Redaction

Permit ID:

Date of Determination:

8 /6 /2012

Appendices containing references and date sources;

Much data and information have been previously submitted in prior reports. We request that the Agency reference the reports for any data or information previously submitted. The reports include the following:

- 45 Day Report & PE Certification 5-31-94
- Corrective Action Plans dated 6-10-94 and 5-2-95.
- Miscellaneous Correspondence 6-17-2009

Nevertheless, some of the new data/information has been accumulated for this report. Please see the following Attachments for reference:

- ✓ Lab Reports, ATSs & Lab Certifications Attachment C & E
- ✓ Water Supply Well Information Attachment F
- ✓ PE Certification Form Attachment G
 - Owner/Operator Property Summary Attachment H

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The water supply well survey:

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

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- b. Map(s) showing regulated recharge areas and wellhead protection areas; see Attachment F.
- c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives; see Figure 2.
- Map(s) showing the modeled extent of groundwater contaminated exceeding the most stringent Tier 1 remediation objectives; see Figure 3.
- e. Table(s) listing the setback zones for each community water supply well and other potable water supply wells; see below.

Table 1. Potable Wells Identified on IEPA SWAP

Well Identification	Туре	Distance from USTs (feet)	Setback Zone (feet)	Well Depth (feet)	Source of Information
23132			200		SWAP
*11424 RR Well (Emergency)			400		SWAP
* 11425 Well #2			400		SWAP
21505			200		SWAP
22149			200		SWAP
21499			200		SWAP
00836			200		SWAP
00562			200		SWAP
22725			200		SWAP

^{*}Deep Bedrock Aquifer

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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

Based on conversations with Charlie Fruit of the Village of Kirkland Public Works Department, in addition to a review of Illinois State Water Survey (ISWS) well records for Franklin Township, potable water for the Village of Kirkland is obtained primarily from two public wells that draw water from a deep sandstone aquifer. Only the Village's primary well has been tested for potential pollutants (VOCs). No contamination was evident based on a review of the test results by Charlie Fruit. The Village of Kirkland indicated that they have had no problems with water quality. Based on a review of ISWS well records/logs. private wells in the Kirkland area are located approximately lo data could be obtained on their water quality.

Based on conversations with Charlie Fruit of the Kirkland Public Works Department, two public wells provide potable water to the Village of Kirkland. The closest well (Kirkland's standby Well) is located approximately of the Kirkland Quick Stop. s well does provide potable water to This well is service the Village of Kirkland. This well has not been tested for potential contaminants. Kirkland's nrimary well is located This well has been tested for VOCs. Charlie Fruit indicated that no contaminants were present. Charlie Fruit indicated that the nearest private wells were located over 1,000 feet from the subject site. One well was located to the the other well was located to the

Mr. Paul Naugle, Supervisor with the Village of Kirkland Public Works, was not aware of any contamination issues relating to the public water supply.

According to well records obtained from the Illinois Geological Survey, 24 water wells are located within a one mile radius of the facility. The only wells within 1,000 feet of the site are the Village of Kirkland municipal wells. The backup well is located approximately

This well is The primary well for Kirkland is located approximately Due to the distance of each of these wells from the site, the well construction, and the depth of the aquifers from which water is drawn, the likelihood of the release at the Kirkland Quick stop site having any impact on these water wells is negligible. Please see Attachment F for the water supply well survey information. This information was previously submitted in the original 45 Day Report dated 5-31-94.

Information from the IEPA Source Water Assessment Program web site was obtained to evaluate water quality in the Kirkland area. According to the web site information, The Village of Kirkland (Facility #0370300) has two public water supply wells. The Railroad Well (IEPA #11424) and Well #1 (IEPA #11425) produce 116,000 gallons per day to an estimated population of 1,200 through 445 service connections. Well #3 (01613) is proposed.

Well #1 is located... the Railroad Well is located . Wells #1 and the Railroad Well pump er minute each, respectively and have a production capacity of deep and utilize deep bedrock aquifers which gallons per day. The wells are are overlain permeable alluvial (river) deposits. Permeability is the ability of a soil or sediment to transmit fluids. The aquifer utilized is considered confined by the Illinois EPA, therefore is not considered geologically sensitive. Proposed well #3 (01613) is planned to be deep and utilize a confined deep bedrock aquifer. The following table lists the information from the IEPA SWAP web site:



Table 2. SWAP Well Information

Well ID	Well Description	Status	Depth	Minimum Setback	Pumpage	Aquifer Code	Aquifer Description	Max Zone
WL01613	WELL 3 (01613)			200		6981	Deep Bedrock	0
WL11424	RAILROAD WELL (11424) EMERGENCY			400		6080	Deep Bedrock	1000
WL11425	WELL 2 (11425)			400		6080	Deep Bedrock	1000

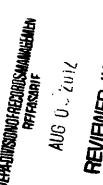
The public water supply Well No. 1 at Kirkland was sampled as part of the Statewide Groundwater Monitoring Network on September 11, 1986. The Railroad Well was sampled in 1999. The samples were analyzed for volatile organic compounds (VOC) and inorganic chemicals (IOC). The VOC analyses detected no quantifiable levels of organic chemicals in any of the wells. The IOC analyses found the water from all the wells to meet all groundwater quality standards established in 35 Illinois Administrative Code Part 620.410.

Further information on finished water quality, including data tables of monitored parameters, contaminants detected, health advisory information, drinking water standards and maximum contaminant levels is available at http://www.epa.gov/ogwdw. Similar information is also available in the Consumer Confidence Report supplied by the water supply to its customers. A review of this information does not indicate levels of organic compounds or inorganic chemicals which exceed the drinking water quality standards.

A database search for proposed well #3 determined that no potential hazards, routes, or sources appear to be within 1,500 feet of the proposed well location.

Based on information obtained in a Well Site Survey published in 1993 by the Illinois EPA, several potential secondary sources are located within 1,000 feet of the wells. Based on information provided by Kirkland's water supply officials, the following facilities have changed ownership or names: Kirkland Quick Stop is now Kirkland Marathon, the Johnson Leonard property is now Hines Lumber, and Farm Sales and Service Incorporated is now Nesterowicz and Associates. The Illinois EPA has determined that the Kirkland Community Water Supply's source water is not susceptible to contamination. This determination is based on a number of criteria including; monitoring conducted at the wells; monitoring conducted at the entry point to the distribution system; and available hydrogeologic data on the wells.

Furthermore, in anticipation of the U.S. EPA's proposed Ground Water Rule, the Illinois EPA has determined that the Kirkland Community Water Supply is not vulnerable to viral contamination. This determination is based upon the evaluation of the following criteria during the Vulnerability Waiver Process: the community's wells are properly constructed with sound integrity and proper siting conditions; a hydrogeologic barrier exists which should prevent pathogen movement; all potential routes and sanitary defects have been mitigated such that the source water is adequately protected; monitoring data did not indicate a history of disease outbreak; and the sanitary survey of the water supply did not indicate a viral contamination threat. Because the community's wells are constructed in a confined aquifer, which should prevent the movement of pathogens into the wells, well hydraulics were not considered to be a significant factor in this determination. Hence, well hydraulics were not evaluated for this system ground water supply.



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The Illinois Environmental Protection Act provides minimum protection zones of 400 feet for public wells. These minimum protection zones are regulated by the Illinois EPA. In addition, the community enacted a "maximum setback zone" ordinance for wells #1, and #RRW, which is authorized by the Illinois Environmental Protection Act and allows county and municipal officials the opportunity to provide additional potential source prohibitions up to 1,000 feet from their wells. To further reduce the risk to source water, the water supply has implemented a wellhead protection program which includes the proper abandonment of potential routes of groundwater contamination and correction of sanitary defects at the water treatment facility. This effort resulted in the community water supply receiving a special exception permit from the Illinois EPA which allows a reduction in monitoring. The outcome of this monitoring reduction has saved the community considerable laboratory analysis costs.

The following persons / agencies have been contacted in an attempt to identify information on the status and location of potable water supply wells:

NAME	TITLE	AGENCY	CONTACT INFO
Charlie Fruit		Kirkland Public Works	(815) 522-6170
Paul Naugle	Supervisor	Kirkland Public Works	(815) 522-6170
Janet Christer	FOIA	Illinois EPA, Bureau of Water	217/782-8482
Fee Habtes	FOIA Officer	IL Department of Public Health	535 W. Jefferson Springfield, IL 62761

Table 3. Water Quality Interviews / FOIAs

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

The PE Certification information is included in Attachment G.

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

The Site Map shall include the map scale, an arrow indicating north orientation, the date the map was created, the property boundary lines of the site, properties adjacent to the site, and other properties that are, or may be, adversely affected by the release. It also shall include the uses of the site, properties adjacent to the site, and other properties that are, or may be, adversely affected by the release, the locations of all current and former USTs at the site, the contents of each UST all structures, other improvements, and other features at the site, buildings, pump islands, canopies, roadways, other paved areas, utilities, easements, rightsof-way, and actual or potential natural or man-made pathways. The Site Maps are presented in Figure 1 and Figure 2.

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- 9. Development of Tier 2 or 3 remediation objectives, if applicable:
 - Equations used: a.
 - Discussion of how input variables were determined; b.
 - Map(s) depicting distances used in equation; and C.
 - Calculations; d.

In accordance with 35 III. Adm. Code 742 and pursuant to Section 57.7(c)(3) of the Act, Trans Environmental has performed modeling in order to develop Tier 2 remediation objectives (ROs) for the Kirkland Quick Stop LUST site evaluating benzene groundwater contamination. The modeling equations R-26 was used in calculating the Tier 2 SROs. The Tier 2 modeling results indicate that they are lower than the TACO Tier 1 GROs. Specifically, based on the recent groundwater data using benzene at a concentration of 0.03 mg/L in MW-14, the benzene level dilutes below the Tier 1 GRO limit of 0.005 mg/L within 40 feet.

We also had completed previous modeling back in 2006, and at that time we surveyed the wells to determine current groundwater flow and ran the Tier II modeling to see if the levels were below the TACO Tier I GROs at the property boundaries or by the time they cross under the street to the south. Based on the modeling and using the last highest concentration of benzene in MW-8 in the April of 2006 sampling period, the groundwater plume dilutes out under the TACO Tier 1 GROs 30 feet southwest of MW-8, far before the contamination migrates off site to the neighboring properties to the south. It would appear that the low levels of petroleum contaminants in all of the monitoring wells would meet the TACO Tier 1 GROs through modeling before they would migrate to an off-site property. A highway authority agreement could be used to address this contamination issue. See Attachment I for the modeling equations and results along with a site map showing the plume.

10. Property Owner Summary form.

See Attachmental for the Property Owner Summary form.

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Loves Park, IL 61111

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D.	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.

UST Owner or Operator	Consultant
Name: Kirkland Quick Stop	Company: Trans Environmental, Ltd.
Contact: John Blake	Contact: Matt Warneke
Address: 401 Main Street	Address: 8184 Starwood Dive
City: Kirkland	City: Loves Park
State: IL	State: IL
ZIP code: 60146	ZIP Code: 61111
Phone: (815) 235-4041	Phone: (815) 885-4840
Signature:	Signature:
Date:	Date:

E. Certification

I certify under penalty of law that all activities that are the subject of this plan, budget or report 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, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 III. 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 that 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 II CS 5/44 and 57 17)

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Licensed Professional Engineer	L.P.E. Seal	
Name: Cristopher Proctor		5
Company: Trans Environmental, Ltd.		RECEIVED
Address: 8184 Starwood Drive		
City: Loves Park		JUN 04 2012
State: IL		IEPA/BOL
ZIP Code: 61111		
Phone: (815) 885-4840		
III. Registration No.: 54320		
License Expiration Date: 11/30/2012		
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	Licensed Professional Engineer Name: Cristopher Proctor Company: Trans Environmental, Ltd. Address: 8184 Starwood Drive City: Loves Park State: IL ZIP Code: 61111 Phone: (815) 885-4840 Ill. Registration No.: 54320 License Expiration Date: 11/30/2012 Signature: Date: Date: Date: Date: 11/30/2012	Name: Cristopher Proctor Company: Trans Environmental, Ltd. Address: 8184 Starwood Drive City: Loves Park State: IL ZIP Code: 61111 Phone: (815) 885-4840 Ill. Registration No.: 54320 License Expiration Date: 11/30/2012 Signature:

Corrective Action Completion Report Kirkland Quick Stop / Kirkland, Illinois **LUST IEMA# 891717**

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Attachment A

Manifests from Disposal of Contaminated Groundwater

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	19. Discrepancy Indication Space	•	3				Date
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ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

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FORM DESIGNED TO PRINT 8 LINES PER UNIFORM HAZARDOUS WASTE MANIFEST	INCH. 1. Generator's US EP	EPA Form 8700-3 A ID No.	Manifest Document No.	2. Page 1.	Information in t	050-0039, Expires 9-30-9 he shaded areas is not Federal law, but is
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This Agency is authorized to require, pursuent to illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004, and 1001, that this information has distributed to this Agency. Pellura to present the corner or operator not to exceed \$25,000 per diffy of violation, relationation of this information may result by a civil penalty against the corner or operator not to exceed \$25,000 per diffy of violation, relationation of this information may result by a tipe into p \$6,000 per different per displacement of the information and imprisonment up as 8, years. This form has been approved by the Forms Managament Center, the content of the information of this information may require the up to \$60,000 per different per displacement of the information of this information may require the up to \$60,000 per different per displacement of the information of this information of this information of this information of this information of the information of the information of the information of the information of the information of this information of this information of the inform

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ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND PULLUTION CONTINUE

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If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to he which minimizes the present and future threat to human health and the environment; OR, If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can affect.

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19. Discrepancy Indication Space

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In Agency is fauthorized to require, pursuent to filinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 10£1, that this information be dishmitted to the Agency. Failure to provide a information may result in a civil parally against the owner or operator not to exceed \$25,000 per day of violation and imprisonment up to 6 years. This form has been approved by the Forms Management Center.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND PULLUTION CONTROL FO BOX 19276 FILE SPRINGERELD : ILLINO'S BIZ294 9276 FILE : 10 / 15 / 1969 SPRINGERED TO F HAZAROOUS LIBER TO THE STATE Form Approved. OMB No. 2050-0039. Expires 9-30-94 EPA Form 6700-22 (Rev. 6-89) PLEASE TYPE (Form designed for use on eithe (12-pitch) typewriter.) Information in the shaded areas is not required by Federal law, but is required by Illinois law. UNIFORM MAZARDOUS Manifest 1. Generator's US EPA ID No. 2. Page 1 WASTE MANIFEST 3. Generator's Name and Malling Address

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NOKTH BRANCH US EPA ID Number 7. Transporter 2 Company Name US EPA ID Number 8. 9. Designated Facility Name and Site Address US EPA ID Number INTERSTATE POILUTION CONTRIT But William & Late William 4430 BORING PRIVE Rockford III 61109 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. 14. Unit W/Vol Total 7.32 M **Emergency Response** Type No. Quantity a. NON HAZARPOUS GRUNDE WATER and 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and tabeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

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ENVIRONMENTAL PROTECTION AGENCY. DIVISION OF LAND PULLUTION CONTROL STATE OF ILLINOIS PIO BOX 19276. Filing SPRINGFIELD IN LINCUS BIZ79 A 5278 F\$171 Z62-6787 / 15 / 7 FANS PRINCIPLE OF HAZARDOUS State Form LPC 62 8/81 IL532-0610 PLEASE TYPE Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved, OMB No. 2050-0039. Expires 9-30-94 Manifest UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Document No. WASTE MANIFEST 3 Generator's Name and Mailing Address KIRKLAND Quick StoP Location If Different 411 W. Main Street Kin KlAND III 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* Transporter 1 Company Name US EPA ID Number Voeth BRANCH Environmental

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Attachment B
Manifests from Disposal of Contaminated
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15. Special Handling Instructions and Additional Information

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16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately des proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for

EPA Form 8700-22 (Rev. 6-89)

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19. Discrepancy Indication Space

this manifest 20. Facility Owner or Operator: Certification of receipt of hazardous materials rinted/Typed Name

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 117 972, Section 1004 and 1021, that the information was result in a olvil pensalty against the owner or operator not to exceed \$25,000 per day of violation. Palatication of this information may result in a olvil pensalty against the owner or operator not to exceed \$25,000 per day of violation. Palatication of this information may result in a time up to \$50,00

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ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

ELECTIONIC FILING - RECEIVED PRINCE STREET - 15 / 15 / 20 FOR SHIPMENT OF HAZARDOUS

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IAIE UP ILLINUIS FOR SHIPMENT OF HAZARDOUS P.O. BOX 19276 SPRINGFIELD, ILLINOIS, 62784-9276 (217) 782-6761 Electronic Filing - Received Legal's Utiles 106/ /15/2016and special waste LEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) type Form Approved. OMB No. 2050-0039, Expires 9-30-94 Manifest 'i Document No. Information in the shaded grees is not required by Federal law, but is required by UNIFORM HAZARDOUS 1. Generator's US EPA ID No. **WASTE MANIFEST** Location If Different 3. Generator's Name and Malling Address
KTRKLAND OUTCK STOP 411 MAIN STREET KIRKLAND, IL
24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS (815) 654-4726 5. Transporter 1 Company Name US EPA ID Number 7. Transporter 2 Company Name **US EPA ID Number** 8. Illinois Office of Emergency Response 9. Designated Facility Name and Site Address WINNEBAGO RECLAMATION LANDFILL. 10. US EPA ID Number 8315 LINDENWOOD ROAD NEW MILFORD, IL 61109 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. 14. Unit Total Quantity Туре Mt/Vol NON-HAZARDOUS, NON-REGULATED SOIL BY D.O.T. 0 0 1 DT non-Hazarbous, non reg ひつり On- HAZALBUS, NON REQUIATED SOIL BY DET at 217 / 782-7860 and the National (4)。例如pp (2) 图 (2 Belleschicken auf Belleschicken und Belleschicken 15. Special Handling instructions and Additional Information Response 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Date Printed/Typed Name.
LLOYD AND JANICE JOHNSON Month Day Signature 色 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day 3171271 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day 읙 202 / 426-2675 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this man dest exc Date Printed/Typed Name

er day of violation and imprisonment up to 5 years. This form has been approved by the Forms Magagement Center.

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PLI	EASE TYPE (Form design	ed for use on elite (1	2-pitch) typewriter.)	EPA Form 870	0-22 (Rev. 6-89)	Form A	oproved. OMB	No. 2050-0039,	Expires 9-30-94
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proper shipping according to app If I am a large q be economically	CERTIFICATION: I here name and are classified, clicable international and a uantity generator, I certify practicable and that I hav t to human health and the	packed, marked, and national government r that I have a progrative selected the practic	labeled, and are in all res agutations. In in place to reduce the value in ethod of treatment,	pects in proper olume and toxic storage, or disp	condition for tity of waste (osal currently	ransport by hi penerated to the available to m	ighway e degree i have d e which minimize	s the present
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ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

ELECTIONIC FILING SPRINGFIELD, ILLINOIS 182791-8276 TRIP, 782-6761 6 / 15 / 2 | 1 FOR SHIPMENT OF HAZARDOUS

UNIFORM HEXARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information in the	50-0039, Expires 9-30-94 e shaded areas is not all law, but is required by
B. Generator's Name and Mailing Address KIRKLAND QUICK STOP 411 MAIN STREET	Location If Different	<u> </u>		Political Control	
. Transporter I Company Name	SISTANCE NUMBERS* (815) 654- 6. US EPA ID	-4726 Number		Lection 12 to 12 t	19 18 10 19 2 14 From
KASPER TRUCKING. Transporter 2 Company Name	8. US EPA II	O Number			racerite (ates) Parinte das es
Designated Facility Name and Site Address WINNERAGO RECLAMATION L. 8315 LINDENWOOD ROAD	ANDFILL 10. US EPA II) Number	The state of the s	4.0 L	
NEW MILFORD, IL 61109			F WAR	() (() () ()	
US DOT Description (Including Proper Si	hipping Name, Hazard Class, and ID Num	nber) 12. Cont	1	13. 14. Total Unit	19/50 () 1
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5. Special Handling Instructions and Addition	onal Information				
according to applicable international and na	cked, marked, and labeled, and are in all res	spects in proper cond	tion for transp	ort by highway	have determined to
be economically practicable and that I have	selected the practicable method of treatment, nvironment; OR, if I am a small quantity gene	storage, or disposal	currently avails	ble to me which m	inimizes the present
Printed/Typed Name LLOYD AND JANICE JOHNSO 7. Transporter 1 Acknowledgement of Rece		legel fo	In	m	01299
Printed/Typed Name	Signature	good la	Fiel	n	67877
1000 F (>h	7. 600			-	l "Deta"
	ipt of Materials Signature				Month Day Yea
3. Transporter 2 Acknowledgement of Rece Printed/Typed Name		1			Month Day Yea
8. Transporter 2 Acknowledgement of Rece	Signature	by this manifest ex	ativitie garet	in Item 19	Month Day Yea

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Attachment C

Analytical Tabular Summaries, Reports, CoCs, Lab Certifications (old data)

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		Chemical	Serreta	Bergera	Effyl Sergera	Totalene	Xylenes (Total)	Berzo (s) anthracene	Bertzo (a) pyrene	Serso (b) Accretions	Serto (k) Acrestrere	Benzo (g.ft.il) perylene	Chysens	Oberco (a.h) anthracene	Puters	Indento (1,2,3 o-d) pyrene	Naphthelene		_

ANALYTICAL TABULAR SUMMARY Blake Oil Company, Kirkland Quickstop Groundwater Results

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Poor Quality Original Documents

and not the scanning or filming processes.

Com Microfilm Company (217) 525-5860

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Blake Oil Company Kirkland Quickstop

Groundwater Results

August 2001

	-				<u> </u>	<u> </u>					
Benzene	<0.005	<0.005	राज्यसम्बद्धाः । सन्दर्भः	<0.005	起 宇宙 16 13 年 · 新加		<0.005	A STATE OF THE STA	<0.005	<0.005	0.005
Totuene	<0.005	<0.005	<0.005	<0.005	0.0135	<0.005	<0.005	0.0185	<0.005	<0.005	1
Ethyl Benzene	<0.005	<0.005	<0.005	<0.005	0.301	<0.005	<0.005	0.0429	<0.005	<0.005	0.7
Xylenes (Total)	<0.005	<0.005	0.0059	0.0057	0.661	<0.005	0.0056	0.0354	<0.005	<0.005	10
Acenaphthene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.42
Acenaphthylene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Anthracene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	2.1
Benzo(a)anthracene	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013		<0.00013	<0.00013	<0.00013	0.00013
Benzo(a)pyrene	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	0.0002
Benzo(b)fluoranthene	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018		<0.00018	<0.00018	<0.00018	0.00018
Benzo(k)fluoranthene	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	45	<0.00017	<0.00017	<0.00017	0.00017
Benzo(g,h,i)perylene	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	
Chrysene	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0015
Dibenzo(a,h)anthracene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0003
Fluoranthene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.28
Fluorene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	0.28
Indeno(1,2,3 c-d)pyrene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00040	<0.0003	<0.0003	<0.0003	0.00043
Naphthalene	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	0.018	<0.010	<0.010	0.025
Phenanthrene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Pyrene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.21

above detection levels in BOLD above TACO cleanup objectives in BOLD and HIGHLIGHTED

All results reported in mg/kg or parts per million (ppm)

*TACO 6-5-97 Final Order, Section 742, Appendix B: Table E; Tier I Groundwater Remediation Objectives for the Groundwater (GW) Component of the GW Ingestion Route, Class I GW.

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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IEPA Certification #100292

September 6, 2001

Mr. Patrick Egan
TRANS ENVIRONMENTAL, LLC
4722 B Rockton Road
Roscoe, IL 61073

Project ID: 01-094

First Environmental File ID: 40389-98 Date Received: August 24th, 2001

Dear Mr. Egan:

The above referenced project was analyzed as directed on the enclosed chain of custody form.

All analyses were performed in accordance with methods from the USEPA publication Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. The actual method references are listed on the Analytical Report.

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods have been met. All QA/QC documentation, and raw data will remain on file for future reference.

It has been a pleasure providing you with analytical services, and we look forward to working with you again in the future. If you have any questions regarding this report, or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski Project Manager



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Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IEPA Certification #100292

Analytical Report

Client:

TRANS EMVIRONMENTAL

Project ID:

Lab File ID:

01-094

Sample Number:

40389

Sample Description: MW-1

40389-98

Date Received:

08/24/01

Date Taken:

08/23/01

Time Taken:

9:28

Date Reported:

Result

09/06/01

Flags

Units

ug/L ug/L ug/L ug/L

Analyte

BTEX Method 5030B/8260B

Analysis Date:

09/03/01

Benzene	< 5.0
Toluene	< 5.0
Ethyl benzene	< 5.0
Xylenes (total)	< 5.0

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

08/30/01

Analysis Date:

09/01/01

Naphthalene	< 10	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	< 2	ug/L
Pyrene	< 2	ug/L
Benzo[a]anthracene	< 0.13	ug/L
Chrysene	< 1.5	ug/L
Benzo[b]fluoranthene	< 0.18	ug/L
Benzo[k]fluoranthene	< 0.17	ug/L
Benzo[a]pyrene	< 0.2	ug/L
Indeno[1,2,3-cd]pyrene	< 0.3	ug/L
Dibenz[a,h]anthracene	< 0.3	ug/L
Benzo[g,h,i]perylene	< 0.4	ug/L
		_



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Environmental Laboratories, Inc.

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Analytical Report

Client: TRANS EMVIRONMENTAL

Indeno[1,2,3-cd]pyrene

Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

 Project ID:
 01-094
 Date Received:
 08/24/01

 Sample Number:
 40390
 Date Taken:
 08/23/01

 Sample Description:
 MW-2
 Time Taken:
 7:30

 Lab File ID:
 40389-98
 Date Reported:
 09/06/01

escription: M	W-2	Time Tak	en:	7:30
D: 40	389-98	Date Rep	orted:	09/06/01
Analyte		Result	Units	Flags
BTEX Meth	od 5030B/8260B			
Analysis Date	e: 09/03/01			
Benzene		< 5.0	ug/L	
Toluene		< 5.0	ug/L	
Ethyl benzene	•	< 5.0	ug/L	
Xylenes (total		< 5.0	ug/L	
Polynuclear .	Aromatic Compounds M	ethod 3510C/8270C		
Preparation D	ate 08/30/01			
Analysis Date	e: 09/01/01			
Naphthalene		< 10	ug/L	
Acenaphthyle	ne	< 10	ug/L	
Acenaphthene	e	< 10	ug/L	
Fluorene		< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	•
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anth	racene	< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluor		< 0.18	ug/L	
Benzo[k]fluor		< 0.17	ug/L	
Benzo[a]pyre	ne	< 0.2	ug/L	

ug/L

ug/L

ug/L

< 0.3

< 0.3

< 0.4



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Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IEPA Certification #100292

Analytical Report

Client: TRANS EMVIRONMENTAL

Benzo[a]pyrene

Indeno[1,2,3-cd]pyrene

Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

 Project ID:
 01-094
 Date Received:
 08/24/01

 Sample Number:
 40391
 Date Taken:
 08/23/01

 Sample Description:
 MW-3A
 Time Taken:
 10:20

 Lab File ID:
 40389-98
 Date Reported:
 09/06/01

escription: MW-3A D: 40389-98		Time Tal Date Rep		10:20 09/06/01
		•		
Analyte		Result	Units	Flags
BTEX Method 5030	B/8260B			
Analysis Date:	09/03/01			
Benzene		38.2	ug/L	
Toluene		< 5.0	ug/L	
Ethyl benzene		< 5.0	ug/L	
Xylenes (total)		5.9	ug/L	
Polynuclear Aromati	c Compounds Met	hod 3510C/8270C		
Preparation Date	08/30/01			
Analysis Date:	09/01/01			
Naphthalene		< 10	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anthracene		< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene		< 0.18	ug/L	
Benzo[k]fluoranthene		< 0.17	ug/L	

ug/L

ug/L

ug/L

ug/L

< 0.2

< 0.3

< 0.3

< 0.4



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Analytical Report

Client: TRANS EMVIRONMENTAL

Benzo[a]pyrene

Indeno[1,2,3-cd]pyrene

Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

 Project ID:
 01-094
 Date Received:
 08/24/01

 Sample Number:
 40392
 Date Taken:
 08/23/01

 Sample Description:
 MW-4
 Time Taken:
 9:00

 Lab File ID:
 40389-98
 Date Reported:
 09/06/01

D: 40389-98		Date Rep	som.	09/06/01
D: 40369-96		Date Rep	ioriea.	05/00/01
Analyte		Result	Units	Flags
BTEX Method 5030)B/8260B			
Analysis Date:	09/03/01			
Benzene		< 5.0	ug/L	
Toluene		< 5.0	ug/L	
Ethyl benzene		< 5.0	ug/L	
Xylenes (total)		5.7	ug/L	
Polynuclear Aromat	ic Compounds Met	hod 3510C/8270C		
Preparation Date	08/30/01			
Analysis Date:	09/01/01			
Naphthalene		< 10	ug/L	•
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anthracene		< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene	•	< 0.18	ug/L	
Benzo[k]fluoranthene	;	< 0.17	ug/L	

< 0.2

< 0.3

< 0.3

< 0.4

ug/L

ug/L

ug/L

ug/L



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Analytical Report

Client:

TRANS EMVIRONMENTAL

Project ID:

Lab File ID:

01-094

Sample Number:

40393

Sample Description:

MW-5

Date Taken:

Result

08/24/01

Date Received:

08/23/01

Time Taken:

9:52

40389-98

Date Reported:

09/06/01

Flags

_	 .,	

Analyte

BTEX Method 5030B/8260B

Analysis Date:

09/03/01

Benzene	
Toluene	

235 ug/L 13.5 ug/L 301 ug/L

Ethyl benzene Xylenes (total)

661

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

08/30/01

Analysis Date:

09/01/01

Naphthalene
Acenaphthylene
Acenaphthene

51 < 10 < 10 ug/L ug/L

ug/L

Units

Fluorene

< 2

ug/L ug/L

Phenanthrene

< 5 < 5 ug/L ug/L

Anthracene Fluoranthene Pyrene

< 2 < 2 ug/L ug/L

Benzo[a]anthracene

< 0.13 < 1.5

ug/L ug/L

Chrysene Benzo[b]fluoranthene

< 0.18 < 0.17

ug/L ug/L

Benzo[k]fluoranthene Benzo[a]pyrene

< 0.2 < 0.3

ug/L ug/L

Indeno[1,2,3-cd]pyrene Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

< 0.3 < 0.4 ug/L ug/L



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Analytical Report

Client:

Lab File ID:

TRANS EMVIRONMENTAL

Project ID: Sample Number: Sample Description: MW-6

Analyte

01-094 40394

Date Received: Date Taken: Time Taken:

Result

08/23/01 10:35

08/24/01

40389-98

Date Reported:

Units

09/06/01

Flags

y ••	
BTEX Method !	5030B/8260B
Analysis Date:	09/03/01

Benzene	13.0	ug/L
Toluene	< 5.0	ug/L
Ethyl benzene	< 5.0	ug/L
Xylenes (total)	< 5.0	ug/L

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date Analysis Date:

08/30/01 09/01/01

•		
Naphthalene	< 10	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	< 2	ug/L
Pyrene	< 2	ug/L
Benzo[a]anthracene	< 0.13	ug/L
Chrysene	< 1.5	ug/L
Benzo[b]fluoranthene	< 0.18	ug/L
Benzo[k]fluoranthene	< 0.17	ug/L
Benzo[a]pyrene	< 0.2	ug/L
Indeno[1,2,3-cd]pyrene	< 0.3	ug/L
Dibenz[a,h]anthracene	< 0.3	ug/L
Benzo[g,h,i]perylene	< 0.4	ug/L



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Analytical Report

Client: TRANS EMVIRONMENTAL

Benzo[a]pyrene

Indeno[1,2,3-cd]pyrene

Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

 Project ID:
 01-094
 Date Received:
 08/24/01

 Sample Number:
 40395
 Date Taken:
 08/23/01

 Sample Description:
 MW-7
 Time Taken:
 11:07

 Lab File ID:
 40389-98
 Date Reported:
 09/06/01

	W-7 889-98		Time Taken: Date Reported:	
Analyte		Result	Units	Flags
BTEX Metho	od 5030B/8260B			
Analysis Date:	09/03/01			
Benzene		< 5.0	ug/L	
Toluene		< 5.0	ug/L	
Ethyl benzene		< 5.0	ug/L	
Xylenes (total)		5.6	ug/L	
Polynuclear A	Aromatic Compounds Metl	hod 3510C/8270C		
Preparation Da	-			
Analysis Date:	09/01/01			
Naphthalene		< 10	ug/L	
Acenaphthyler	ne	< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene	,	< 2	ug/L	
Benzo[a]anthr	acene	0.15	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluori		0.72	ug/L	
Benzo[k]fluor	anthene	0.56	ug/L	

ug/L

ug/L

ug/L

ug/L

0.4

0.4

0.5

< 0.3



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Analytical Report

Client:

TRANS EMVIRONMENTAL

Project ID: 01-094
Sample Number: 40396
Sample Description: MW-8
Lab File ID: 40389-9

Benzo[a]pyrene

Indeno[1,2,3-cd]pyrene

Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

40396 MW-8 40389-98
 Date Received:
 08/24/01

 Date Taken:
 08/23/01

Time Taken: 11:37
Date Reported: 09/06/0

		•••••		
D: 40389-98		Date Rep	Date Reported:	
Analyte		Result	Units	Flags
BTEX Method 503	0B/8260B			
Analysis Date:	09/03/01			
Benzene		166	ug/L	
Toluene		18.5	ug/L	
Ethyl benzene		42.9	ug/L	•
Xylenes (total)		35.4	ug/L	
Polynuclear Aroma	tic Compounds Met	hod 3510C/8270C		
Preparation Date	08/30/01			
Analysis Date:	09/01/01			
Naphthalene		18	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anthracene		< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene	е	< 0.18	ug/L	
Benzo[k]fluoranthene	e	< 0.17	ug/L	

< 0.2

< 0.3

< 0.3

< 0.4

ug/L

ug/L

ug/L

ug/L



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Analytical Report

Client: TRANS EMVIRONMENTAL

Indeno[1,2,3-cd]pyrene

Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

 Project ID:
 01-094
 Date Received:
 08/24/01

 Sample Number:
 40397
 Date Taken:
 08/23/01

 Sample Description:
 MW-9
 Time Taken:
 8:08

 Lab File ID:
 40389-98
 Date Reported:
 09/06/01

escription: MW-9		Time Taken:		8:08
D: 40389-98		Date Reported:		09/06/01
Analyte		Result	Units	Flags
BTEX Method 5030	B/8260B			
Analysis Date:	09/03/01			
Benzene		< 5.0	ug/L	
Toluene		< 5.0	ug/L	
Ethyl benzene		< 5.0	ug/L	
Xylenes (total)		< 5.0	ug/L	
Polynuclear Aromati	c Compounds Met	hod 3510C/8270C		
Preparation Date	08/30/01			
Analysis Date:	09/01/01			
Naphthalene		< 10	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anthracene		< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene		< 0.18	ug/L	
Benzo[k]fluoranthene		< 0.17	ug/L	
Benzo[a]pyrene		< 0.2	ug/L	

< 0.3

< 0.3

< 0.4

ug/L

ug/L

ug/L

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Analytical Report

Client: TRANS EMVIRONMENTAL

 Project ID:
 01-094
 Date Received:
 08/24/01

 Sample Number:
 40398
 Date Taken:
 08/23/01

 Sample Description:
 MW-10
 Time Taken:
 8:32

 Lab File ID:
 40389-98
 Date Reported:
 09/06/01

D: 40389-98		Date Rep	oorted:	09/06/01
Analyte		Result	Units	Flags
BTEX Method 5030	B/8260B			
Analysis Date:	09/03/01			
Benzene		< 5.0	ug/L	
Toluene		< 5.0	ug/L	
Ethyl benzene		< 5.0	ug/L	
Xylenes (total)		< 5.0	ug/L	
Polynuclear Aromati	c Compounds Met	thod 3510C/8270C		
Preparation Date	08/30/01			
Analysis Date:	09/01/01			
Naphthalene		< 10	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anthracene		< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene		< 0.18	ug/L	
Benzo[k]fluoranthene		< 0.17	ug/L	
Benzo[a]pyrene		< 0.2	ug/L	
Indeno[1,2,3-cd]pyren		< 0.3	ug/L	
Dibenz[a,h]anthracene		< 0.3	ug/L	
Benzo[g,h,i]perylene		< 0.4	ug/L	

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	First
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-	Laboratories, Inc.

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COMPANY NAME: Trans Environmental	
ADDRESS: 4222 B. Rockfon Rd. Roscoe. 1	
PHONE: \$15-624-0900 FAX: \$15-624-4945	
CONTACT NAME PATRICK ESAW	_
SAMPLED BY: PATRICK EZAN	_

					ANALYSES
Project I.D	1-094 DATRICK ESAN				
Senu Report 10:/	41003-1204-5			///	
			At A	A///	
			BEEN		
DATE/TIME TAKEN	SAMPLE DESCRIPTION				COMMENTS
8/23 9:28	MW-I			 	40389
	MW-2	~	0		40340
9/28 10:20		V			40391
8/23 9:00	mw-4	V	<i>P</i> ,		40392
8/13 9:52	MW-5	~	V		40393
8/23 10:35	MW-6	V		- - - -	4034
8/2 11:07	11 MW-7	V			40375
8/23 11:37	MW-8	V			40396
8/23 8:32	mw-40				40.200
110	WW - LU				70077
		Conditi	ion of Samples	I	~ . 01
	Were the bottles intact? Y / N W	Vere VOA vial	s free headspac	e?Y/N Cooler To	emperature: $\frac{4}{3}$ °C $\frac{1}{3}$
			•		•
Notes and Special Inst	tructions:				
			·=·		61.1
Relinquished By:	af all Controlle	_	Received E	v. U	2 Date/Time 8/2+/61 1125
Relinquished By:	Date/Time_		Received B		Date/Time
Relinguished By:	Date/Time		Received B	•	Date/Time



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Environmental Laboratories, Inc.

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June 03, 2002

Mr. Pat Egan
TRANS ENVIRONMENTAL, LLC
4722 B Rockton Road
Roscoe, IL 61073

Project ID: TE02-102

First Environmental File ID: 59628-32

Date Received: May 24th, 2002

Dear Mr. Egan:

The above referenced project was analyzed as directed on the enclosed chain of custody form.

All analyses were performed in accordance with methods from the USEPA publication Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. The actual method references are listed on the Analytical Report.

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods have been met. All QA/QC documentation, and raw data will remain on file for future reference.

It has been a pleasure providing you with analytical services, and we look forward to working with you again in the future. If you have any questions regarding this report, or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski Project Manager



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Environmental Laboratories, Inc.

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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

Lab File ID:

TE02-102

Sample Number:

59628

Sample Description: MW-3A

59628-32

Date Received:

05/24/02

Date Taken:

05/23/02

Time Taken:

9:35

ug/L

Date Reported:

< 5.0

06/03/02

Analyte		Result	Units	Flags
BTEX Method 50				
Analysis Date:	05/31/02			
Benzene		< 5.0	ug/L	
Toluene		< 5.0	ug/L	
Ethyl benzene		< 5.0	ug/L	

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

05/30/02

Analysis Date:

Xylenes (total)

Naphthalene	< 10	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	< 2	ug/L
Pyrene	< 2	ug/L
Benzo[a]anthracene	< 0.13	ug/L
Chrysene	< 1.5	ug/L
Benzo[b]fluoranthene	< 0.18	ug/L
Benzo[k]fluoranthene	< 0.17	ug/L
Benzo[a]pyrene	< 0.2	ug/L
Indeno[1,2,3-cd]pyrene	< 0.3	ug/L
Dibenz[a,h]anthracene	< 0.3	ug/L
Benzo[g,h,i]perylene	< 0.4	ug/L



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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID: Sample Number: TE02-102

59629

Sample Description: MW-5

Date Taken: Time Taken:

Date Received:

05/24/02 05/23/02

Date Reported:

Result

9:54 06/03/02

Lab File ID:

59628-32

Flags

Units

BTEX	Method	5030B/8260B

Analysis Date:

Analyte

05/31/02

Benzene	192	ug/L
Toluene	12.8	ug/L
Ethyl benzene	165	ug/L
Xylenes (total)	214	ug/L

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

05/30/02

Analysis Date:

Naphthalene	16	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	< 2	ug/L
Pyrene	< 2	ug/L
Benzo[a]anthracene	< 0.13	ug/L
Chrysene	< 1.5	ug/L
Benzo[b]fluoranthene	< 0.18	ug/L
Benzo[k]fluoranthene	< 0.17	ug/L
Benzo[a]pyrene	< 0.2	ug/L
Indeno[1,2,3-cd]pyrene	< 0.3	ug/L
Dibenz[a,h]anthracene	< 0.3	ug/L
Benzo[g,h,i]perylene	< 0.4	ug/L



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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

Lab File ID:

TE02-102

Sample Number:

59630

Sample Description: MW-6

59628-32

Date Received:

05/24/02

Date Taken:

05/23/02

Time Taken:

9:16

Date Reported:

Result

06/03/02

Analyte

Units

Flags

BTEX Method 5030B/8260B

Analysis Date:

05/31/02

Benzene	< 5.0	ug/L
Toluene	< 5.0	ug/L
Ethyl benzene	< 5.0	ug/L
Xylenes (total)	< 5.0	ug/L

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

05/30/02

Analysis Date:

Naphthalene	< 10	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	< 2	ug/L
Pyrene	< 2	ug/L
Benzo[a]anthracene	< 0.13	ug/L
Chrysene	< 1.5	ug/L
Benzo[b]fluoranthene	< 0.18	ug/L
Benzo[k]fluoranthene	< 0.17	ug/L
Benzo[a]pyrene	< 0.2	ug/L
Indeno[1,2,3-cd]pyrene	< 0.3	ug/L
Dibenz[a,h]anthracene	< 0.3	ug/L
Benzo[g,h,i]perylene	< 0.4	ug/L



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Analytical Report

Client: TRANS ENVIRONMENTAL

Benzo[g,h,i]perylene

 Project ID:
 TE02-102
 Date Received:
 05/24/02

 Sample Number:
 59631
 Date Taken:
 05/23/02

 Sample Description:
 MW-7
 Time Taken:
 8:49

 Lab File ID:
 59628-32
 Date Reported:
 06/03/02

Analyte		Result	Units	Flags
BTEX Method 5030	B/8260B			
Analysis Date:	06/01/02			
Benzene		< 5.0	ug/L	
Toluene		< 5.0	ug/L	
Ethyl benzene		< 5.0	ug/L	
Xylenes (total)		< 5.0	ug/L	
Polynuclear Aromati	c Compounds Me	thod 3510C/8270C		
Preparation Date	05/30/02			
Analysis Date:	06/02/02	·		
Naphthalene		< 10	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		. < 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anthracene		< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene		< 0.18	ug/L	
Benzo[k]fluoranthene		< 0.17	ug/L	
Benzo[a]pyrene	•	< 0.2	ug/L	
Indeno[1,2,3-cd]pyren	e	< 0.3	ug/L	
Dibenz[a,h]anthracene	:	< 0.3	ug/L	

< 0.4

ug/L



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Environmental Laboratories, Inc.

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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

TE02-102

Sample Number:

59632

Sample Description: MW-8 Lab File ID:

59628-32

Date Received:

05/24/02

Date Taken: Time Taken: 05/23/02

Date Reported:

8:05

Units

Result

06/03/02 Flags

BTEX	Method 5030B/8260B

Analysis Date:

Analyte

05/31/02

Benzene	75.0	ug/L
Toluene	9.5	ug/L
Ethyl benzene	47.2	ug/L
Xylenes (total)	23.0	ug/L

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

05/30/02

Analysis Date:

Naphthalene	10	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	< 2	ug/L
Pyrene	< 2	ug/L
Benzo[a]anthracene	< 0.13	ug/L
Chrysene	< 1.5	ug/L
Benzo[b]fluoranthene	< 0.18	ug/L
Benzo[k]fluoranthene	< 0.17	ug/L
Benzo[a]pyrene	< 0.2	ug/L
Indeno[1,2,3-cd]pyrene	< 0.3	ug/L
Dibenz[a,h]anthracene	< 0.3	ug/L
Benzo[g,h,i]perylene	< 0.4	ug/L



First	Environme	ental La	draminus boratori e	: :S: ,
	Shore Road, So			
	ville, Illinois 6			
Phone	: (630) 778-120	0 • Fax: (6	30) 778-123	13
24 Hr.	: (630) 778-120 Pager (708) 56	69-7507 ⁽¹⁾	is it is a	5
	l: info@firsten			

Company Name: TOANS ENVIRONMENTAL

Street Address: 47228 Bockton Road

City: Poscot State: 12 71p: 61073

Phone: \$15 624 0900 Fax: \$15 624 4945

Send Report To: PATILICK EGAN

Sampled By: PATILICK EGAN

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IEPA Certification# 100292				Analyses		
Project I.D.: 7802-102 P.O. #:: 7802-102				///	///	
P.O. #: TEO2-102	-		/ / /			
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Matrix Codes: S = Soil W = Water O = Other		/ Y				
Date/Time Taken Sample Description	Matrix				Comments	Lab I.D.
5/23 9:35 MW-3A 5/23 9:57 MW-5	he v					59621
5/23 9:57 MW-5	W				· ·	59629
5723 9:57 MW-5 5723 9:16 MW-6 5723 8:19 MW-7 5/23 8:05 MW-8	W					59630
1723 8:49 MW-7	W	/ /				59631
5/23 8:05 MW-8	W					5963
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* ** *********************************						
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Cooler Temperature: 200				
Received within 6 hrs. of collection:				
Notes and Special Instructions:	·		·	
Some reported to	· · · · · · · · · · · · · · · · · · ·			
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Relinquished By:	Date/Time	Received By:	Date/Time	

Electronic Filing - Received, Clerk's Office: 06/15/2016 GROUNDWATER

ANALYTICAL TABULAR SUMMARY FOR BLAKE OIL KIRKLAND, ILLINOIS

Simple Description	CONTRACT	IIMS .	(MYZE3	MW.	CTVV#3	শামতে \
Sample Date	<i>41</i> 9108	4/9/08	0909	ODIO	4508	Geende Gelegiae
Benzene	0.408	0.0744	<0.005	<0.005	0.106	0.005
Toluene	0.0099	0.0053	<0.005	<0.005	0.016	_1
Ethyl Benzene	0.0195	0.0324	<0.005	<0.005	0.0744	0.7
Xylenes (Total)	0.0232	0.190	<0.005	<0.005	0.057	10
Napthalene	<0.010	<0.010	<0.010	<0.010	0.042	0.14
Acenaphthylene	<0.010	<0.010	<0.010	<0.010	<0.010	
Acenaphthene	<0.010	<0.010	<0.010	<0.010	<0.010	0.42
Fluorene	<0.002	<0.002	<0.002	<0.002	<0.002	0.28
Phenanthrene	<0.005	<0.005	<0.005	<0.005	<0.005	
Anthracene	<0.005	<0.005	<0.005	<0.005	<0.005	2.1
Fluoranthene	<0.002	<0.002	<0.002	<0.002	<0.002	0.28
Pyrene	<0.002	<0.002	<0.002	<0.002	<0.002	<u>0.</u> 21
Benzo[a]anthracene	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	0,00013
Chrysene	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0015
Benzo[b]fluoranthene	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00018
Benzo[k]fluoranthene	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.00017
Benzo[a]pyrene	<0.002	<0.002	<0.002	<0.002	<0.002	0.0002
Indeno[1,2,3-cd]pyrene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00043
Dibenz[a,h]anthracene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0003
Benzo[g,h,i] perylene	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	

BOLD BOLD

above detection levels in BOLD
above TACO cleanup objectives in BOLD
and HIGHLIGHTED
not analyzed

All results reported in mg/kg or parts per million (ppm)

*TACO 6-5-97 Final Order, Section 742, Appendix B: Table E; Tier 1 Groundwater Remediation Objectives for the Groundwater (GW) Component of the GW Ingestion Route, Class 1 GW. <u> Electr</u>onic Filing - Received, Clerk's Office : 06/15/2016



Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IL ELAP / NELAC Certification # 100292

April 17, 2003

Mr. Matt Warneke
TRANS ENVIRONMENTAL, LTD.
4722 B Rockton Road
Roscoe, IL 61073

Project ID: TE03-070

First Environmental File ID: 84376-80

Date Received: April 11th, 2003

Dear Mr. Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody form.

All analyses were performed in accordance with methods from the USEPA publication Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. The actual method references are listed on the Analytical Report.

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods and current IL ELAP / NELAP have been met. QA/QC documentation and raw data will remain on file for future reference.

It has been a pleasure providing you with analytical services, and we look forward to working with you again in the future. If you have any questions regarding this report, or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski Project Manager





1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IL ELAP / NELAC Certification # 100292

Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

TE03-070

Sample Number:

84376

Sample Description: MW-5

Lab File ID:

84376-80

Date Received:

04/11/03

Date Taken:

04/09/03

Time Taken: Date Reported:

Result

1:15 04/17/03

Units Flags

BTEX Method 5030B/8260B

Analysis Date:

Analyte

04/16/03

Benzene	74.4	ug/L
Toluene	5.3	ug/L
Ethyl benzene	32.4	ug/L
Xylenes (total)	190	ug/L

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

04/14/03

Analysis Date:

04/15/03

Naphthalene	< 10	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	< 2	ug/L
Pyrene	< 2	ug/L
Benzo[a]anthracene	< 0.13	ug/L
Chrysene	< 1.5	ug/L
Benzo[b]fluoranthene	< 0.18	ug/L
Benzo[k]fluoranthene	< 0.17	ug/L
Benzo[a]pyrene	< 0.2	ug/L
Indeno[1,2,3-cd]pyrene	< 0.3	ug/L
Dibenz[a,h]anthracene	< 0.3	ug/L
Benzo[g,h,i]perylene	< 0.4	ug/L

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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID: Sample Number:

TE03-070 84377

Sample Description: MW-8

Lab File ID:

84376-80

Date Received:

04/11/03

Date Taken:

04/09/03

Time Taken:
Date Reported:

1:40 04/17/03

Analyte	Result	Units	Flags
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BTEX Method 5030B/8260B

Analysis Date:

04/16/03

Benzene	106	ug/L
Toluene	16.4	ug/L
Ethyl benzene	74.4	ug/L
Xylenes (total)	57.0	ug/L

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

04/14/03

Analysis Date:

04/15/03

Naphthalene	42	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	< 2	ug/L
Pyrene	< 2	ug/L
Benzo[a]anthracene	< 0.13	ug/L
Chrysene	< 1.5	ug/L
Benzo[b]fluoranthene	< 0.18	ug/L
Benzo[k]fluoranthene	< 0.17	ug/L
Benzo[a]pyrene	< 0.2	ug/L
Indeno[1,2,3-cd]pyrene	< 0.3	ug/L
Dibenz[a,h]anthracene	< 0.3	ug/L
Benzo[g,h,i]perylene	< 0.4	ug/L

Electronic Filing - Received, Clerk's Office: 06/15/2016



Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IL ELAP/NELAC Certification # 100292

Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

TE03-070 84378

Sample Description: MW-6 Lab File ID:

Sample Number:

84376-80

Date Received:

04/11/03

Date Taken:

04/09/03

Time Taken:

2:20

Date Reported:

04/17/03

Danil		
Kesun	Units	Flags
< 5.0	ug/L	
od 3510C/8270C		
		•
< 10	ug/L	
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< 10	ug/L	
< 2	ug/L	
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< 5	ug/L	
< 2	ug/L	
< 2	ug/L	
< 0.13	ug/L	
< 1.5	ug/L	
< 0.18	ug/L	
< 0.17	ug/L	
< 0.2	ug/L	
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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

TE03-070

Sample Number:

84379

Sample Description: Lab File ID:

MW-3A

Date Received:

04/11/03

Date Taken: Time Taken: 04/09/03

Result

2:50 04/17/03

Analyte

84376-80

Date Reported:

Flags

Units

BTEX	Method	5030B	/8260B

Analysis Date:

04/16/03

Benzene	408	ug/L
Toluene	9.9	ug/L
Ethyl benzene	19.5	ug/L
Xylenes (total)	23.2	ug/L

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

04/14/03

Analysis Date:

04/15/03

Naphthalene	< 10	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	< 2	ug/L
Pyrene	< 2	ug/L
Benzo[a]anthracene	< 0.13	ug/L
Chrysene	< 1.5	ug/L
Benzo[b]fluoranthene	< 0.18	ug/L
Benzo[k]fluoranthene	< 0.17	ug/L
Benzo[a]pyrene	< 0.2	ug/L
Indeno[1,2,3-cd]pyrene	< 0.3	ug/L
Dibenz[a,h]anthracene	< 0.3	ug/L
Benzo[g,h,i]perylene	< 0.4	ug/L



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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

TE03-070

Sample Number:

84380

Sample Description: MW-7

Lab File ID:

84376-80

BTEX Method 5030B/8260B

Date Received:

04/11/03

Date Taken: Time Taken: 04/09/03

Date Reported:

Units

Result

3:00 04/17/03

Flags

Analyte	•	

Analysis Date:

04/16/03

Benzene	< 5.0	ug/L
Toluene	< 5.0	ug/L
Ethyl benzene	< 5.0	ug/L
Xylenes (total)	< 5.0	ug/L

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

04/14/03

Analysis Date:

04/15/03

< 10	ug/L
< 10	ug/L
< 10	ug/L
< 2	ug/L
< 5	ug/L
< 5	ug/L
< 2	ug/L
< 2	ug/L
< 0.13	ug/L
< 1.5	ug/L
< 0.18	ug/L
< 0.17	ug/L
< 0.2	ug/L
< 0.3	ug/L
< 0.3	ug/L
< 0.4	ug/L
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First Environmental Laboratories 1600 Shore Road, Suite D Naperville, Illinois 60563

Phone: (630) 778-1200 • Fax: (630) 778-1233

24 Hr. Pager (708) 569-7507 E-mail: info@firstenv.com

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Company Name:	1rous E	NV. YOUM E	utal	• •• •
Street Address:	4722 R	Rockston	NJ.	- 14 · .
City:	Roscoe		Sues /L	Zo: 61073
Phone:	Q15/ 62Y.	-0980 A	624-49	7.7
Send Report To:	Matt	Warret	4 . 300635 % %	•
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IEPA Certification# 100292					,	Analyses	1000 1000 1000 1000 1000 1000 1000 100	•
Project I.D.: TEO3 - 070 P.O. #.:						* * * * * * * * * * * * * * * * * * *		
Matrix Codes: S = Soil W = Water O = Other		/<	6%		//		atti jääristuse targi ole si Kilago rasibasasa sisimuli ole si Lii viitaasagaa läähasasauli ole ja	
Date/Time Taken Sample Description	Matrix	1,	.[· [Comments :	Lab I.D.
4-9-03/1:15 MW-5	W	1	1				Of Sons replaces on the	84376
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Rev. 1/01

Electronic Filing - Received, Clerk's Office: 06/15/2016

ANALYTICAL TABULAR SUMMARY Kirkland Quick Stop - LUST Site Groundwater Results from 12-1-03 Sampling Event

Sample Description	MW-3A	MW-5	HW-6	MW-7	MW-8	TACO
Sample Date	12/1/2003	12/1/2003	12/1/2003	12/1/2003	12/1/2063	Cleanup Objectives
Benzene	0.586	0.0299	0.0124	0.0145	0.236	0.005
Toluene	0.0224	<0.005	0.021	0.0101	0.073	1
Ethyl Benzene	<0.005	0.0272	0.0058	0.0054	3.170	0.7
Xylenes (Total)	0.0416	0.0808	0.0251	0.0225	8.530	10
Acenaphthene	<0.010	<0.010	<0.010	<0.010	0.642	0.42
Acenaphthylene	<0.010	<0.010	<0.010	<0.010	<0.030	
Anthracene	<0.005	<0.005	<0.005	<0.005	0.102	2.1
Benzo(a)anthracene	<0.00013	<0.00013	0.004	<0.00013	<0.030	0.00013
Benzo(a)pyrene	<0.0002	<0.0002	0.008	<0.0002	<0.030	0.0002
Benzo(b)fluoranthene	<0.00018	<0.00018	0.006	0.00023	<0.030	0.00018
Benzo(k)fluoranthene	<0.00017	<0.00017	0.006	0.00023	<0.030	0.00017
Benzo(g,h,l)perylene	<0.0004	<0.0004	0.005	<0.0004	<0.030	
Chrysene	<0.0015	<0.0015	0.006	<0.0015	<0.030	0.0015
Dibenzo(a,h)anthracene	<0.0003	<0.0003	0.001	<0.0003	<0.030	0.0003
Fluoranthene	<0.002	<0.002	0.018	<0.002	0.042	0.28
Fluorene	<0.002	<0.002	<0.002	<0.002	1.580	0.28
Indeno(1,2,3 c-d)pyrene	<0.0003	<0.0003	0.0052	<0.0003	<0.030	0.00043
Naphthalene	<0.010	0.012	<0.010	<0.010	31.500	0.025
Phenanthrene	<0.005	<0.005	0.020	<0.005	1.440	
Pyrene	<0.002	<0.002	0.013	<0.002	0.150	0.21

All results reported in mg/L or parts per million (ppm)

^{*}TACO 6-5-97 Final Order, Section 742, Appendix B: Table E; Tier I Groundwater Remediation Objectives for the Groundwater (GW) Component of the GW Ingestion Route, Class I GW.

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Environmental Laboratories, Inc.

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December 10, 2003

Mr. Matt Warneke TRANS ENVIRONMENTAL, LTD. 4722 B Rockton Road Roscoe, IL. 61073

Project ID: TE03-201

First Environmental File ID: 14090-94 Date Received: December 3rd, 2003

Dear Mr. Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody form.

All analyses were performed in accordance with methods from the USEPA publication Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996 and it's updates. The actual method references are listed on the Analytical Report.

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods and current IL ELAP / NELAP have been met. QA/QC documentation and raw data will remain on file for future reference.

It has been a pleasure providing you with analytical services, and we look forward to working with you again in the future. If you have any questions regarding this report, or need additional information, please contact me at (630) 778-1200.

Sincerely

Stan Zaworski Project Manager



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Environmental Laboratories, Inc.

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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

Lab File ID:

TE03-201

Sample Number:

14090

Sample Description: MW-3A

14090-94

Date Received:

12/03/03

Date Taken:

12/01/03

Time Taken: Date Reported: 12:55 12/10/03

Analyte

Result

Flags

BTEX Method 5030B/8260B

Analysis Date:

12/05-08/03

Benzene	
Toluene	
Ethyl benzene	
Xylenes (total)	

586 ug/L ug/L 22.4

< 5.0 41.6 ug/L ug/L

Units

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

12/04/03

Analysis Date:

12/05/03

Naphthalene	< 10	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	< 2	ug/L
Pyrene	< 2	ug/L
Benzo[a]anthracene	< 0.13	ug/L
Chrysene	< 1.5	ug/L
Benzo[b]fluoranthene	< 0.18	ug/L
Benzo[k]fluoranthene	< 0.17	ug/L
Benzo[a]pyrene	< 0.2	ug/L
Indeno[1,2,3-cd]pyrene	< 0.3	ug/L
Dibenz[a,h]anthracene	< 0.3	ug/L
Benzo[g,h,i]perylene	< 0.4	ug/L

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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

TE03-201

Sample Number:

14091

Sample Description: MW-5

Indeno[1,2,3-cd]pyrene

Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

Lab File ID:

Date Received:

12/03/03

Date Taken:

12/01/03

Time Taken:

1:20

D: 14090-94		Date Rep	orted:	12/10/03
Analyte		Result	Units	Flags
BTEX Method 503	0B/8260B			
Analysis Date:	12/06/03			
Benzene		29.9	ug/L	
Toluene		< 5.0	ug/L	
Ethyl benzene		27.2	ug/L	
Xylenes (total)		80.8	ug/L	
Polynuclear Aroma	tic Compounds Meti	hod 3510C/8270C		
Preparation Date	12/04/03			•
Analysis Date:	12/05/03			
Naphthalene		12	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anthracene		< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene		< 0.18	ug/L	
Benzo[k]fluoranthen	e	< 0.17	ug/L	
Benzo[a]pyrene		< 0.2	ug/L	

< 0.3

< 0.3

< 0.4

ug/L

ug/L

ug/L

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Analytical Report

Client:

Lab File ID:

TRANS ENVIRONMENTAL

Project ID: Sample Number: Sample Description: MW-6

TE03-201 14092

Date Received: Date Taken:

12/03/03 12/01/03

Time Taken: Date Reported:

12:35 12/10/03

Analyte

14090-94

Result

Flags

Units

BTEX Method 5030B/8260B

Analysis Date:

12/06/03

Benzene	12.4	ug/L
Toluene	21.0	ug/L
Ethyl benzene	5.8	ug/L
Xylenes (total)	25.1	ug/L

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

12/04/03

Analysis Date:

12/05/03

Naphthalene	< 10	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	20	ug/L
Anthracene	< 5	ug/L
Fluoranthene	18	ug/L
Pyrene	13	ug/L
Benzo[a]anthracene	4.2	ug/L
Chrysene	6.0	ug/L
Benzo[b]fluoranthene	6.0	ug/L
Benzo[k]fluoranthene	5.5	ug/L
Benzo[a]pyrene	6.4	ug/L
Indeno[1,2,3-cd]pyrene	5.2	ug/L
Dibenz[a,h]anthracene	1.0	ug/L
Benzo[g,h,i]perylene	4.9	ug/L

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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID: TE03-201
Sample Number: 14093
Sample Description: MW-7
Lab File ID: 14090-94

Benzo[g,h,i]perylene

TE03-201 14093 MW-7 14090-94

 Date Received:
 12/03/03

 Date Taken:
 12/01/03

 Time Taken:
 2:30

 Date Reported:
 12/10/03

Analyte		Result	Units	Flags
BTEX Method 5030B	/8260B			
Analysis Date:	12/06/03			
Benzene		14.5	ug/L	
Toluene	•	10.1	ug/L	
Ethyl benzene		5.4	ug/L	
Xylenes (total)		22.5	ug/L	
Polynuclear Aromatic	Compounds Method	d 3510C/8270C		
Preparation Date	12/04/03			
Analysis Date:	12/05/03			•
Naphthalene		< 10	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anthracene		< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene		0.23	ug/L	
Benzo[k]fluoranthene		0.23	ug/L	
Benzo[a]pyrene		< 0.2	ug/L	
Indeno[1,2,3-cd]pyrene		< 0.3	ug/L	
Dibenz[a,h]anthracene		< 0.3	ug/L	
			_	

< 0.4

ug/L

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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

Lab File ID:

TE03-201

Sample Number:

14094

Sample Description: MW-8

14090-94

Date Received:

12/03/03

Date Taken:

12/01/03

Time Taken:

3:25

Date Reported:

12/10/03

Analyte		Result	Units	Flags
BTEX Method 50	30B/8260B			
Analysis Date:	12/06/03			
Benzene		236	ug/L	
Toluene		73.0	ug/L	
Ethyl benzene		3,170	ug/L	
Xylenes (total)		8,530	ug/L	
Polynuclear Arom	natic Compounds Meth	od 3510C/8270C		

Preparation Date

12/04/03

Analysis Date:

12/05/03

Manhahalana	21.600	/Т
Naphthalene	31,500	ug/L
Acenaphthylene	< 30	ug/L
Acenaphthene	642	ug/L
Fluorene	1,580	ug/L
Phenanthrene	1,440	ug/L
Anthracene	102	ug/L
Fluoranthene	42	ug/L
Pyrene	150	ug/L
Benzo[a]anthracene	< 30	ug/L
Chrysene	< 30	ug/L
Benzo[b]fluoranthene	< 30	ug/L
Benzo[k]fluoranthene	< 30	ug/L
Benzo[a]pyrene	< 30	ug/L
Indeno[1,2,3-cd]pyrene	< 30	ug/L
Dibenz[a,h]anthracene	< 30	ug/L
Benzo[g,h,i]perylene	< 30	ug/L

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Phone: (630) 778-1200 • Fax: (630) 778-1233

24 Hr. Pager (708) 569-7507 E-mail: info@firstenv.com IEPA Certification# 100292

Company Name:	Trans Environman	40	
Street Address:	4722 B Rockston	127	· ·
City:	Roscoe	State: L	Zo: 6/077
Phone:	515/624-0900 PM	624-	4945
Send Report To:	Matt 12 h	meke	
Sampled By:	111	3	

Date/Time

						. 4	Analyse	5	<u>.</u>	
Project I.D.: 7507 - 20 P.O. #.: (1			1	MA						
Date/Time Taken Sample Description	Matrix	1	ſ			ſ	ĺ	ĺ	Comments	Lab I.D.
12-1-02 / MW-3A	W		1							14090
1:20 MW-5	1		1							091
12:35 MW-6										092
2:30 MW-7		1								093
4 3:25 MW-P										094
				<u>l</u>	_]	<u> </u>	<u> </u>			
					<i>(</i>)					
					٠.					

Cooler Temperature: ______C

Received within 6 hrs. of collection: ______

Date/Time

Notes and Special Instructions:

Relinquished By: Date/Time 12-3-03 // Received By: Received By: Date/Time 12/3/u3 11:00

Received By:

Rev. 1/01

Relinquished By

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ANALYTICAL TABULAR SUMMARY Blake Oil Kirkland Groundwater Results

Marin J.				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	183	Standard Constitution
Benzene		0.085	<0.005	<0.005	e - 5842-i :	0.005
Toluene	0.0120	<0.005	<0.005	<0.005	.0198	1
Ethyl Benzene	<0.005	0.0284	<0.005	<0.005	0.538	0.7
(ylenes (Total)	0.0236	0.148	<0.005	<0.005	1.410	10
Acenaphthene	<0.010	<0.010	<0.010	<0.010	<0.010	0.42
Acensphthylene	<0.010	<0.010	<0.010	<0.010	<0.010	
Anthracene	<0.005	<0.005	<0.005	<0.005	<0.005	2.1
Benzo(a)anthracene	<0.00013	<0.00013		<0.00013	<0.00013	0.00013
Benzo(a)pyrene	<0.0002	<0.0002		<0.0002	<0.0002	0.0002
Benzo(b)fluoranthene	<0.00018	<0.00018		<0.00018	<0.00018	0.00018
Benzo(k)fluoranthene	<0.00017	<0.00017		<0.00017	<0.00017	0.00017
Benzo(g,h,l)perylene	<0.0004	<0.0004	0.0014	<0.0004	<0.0004	
Chrysene	<0.0015	<0.0015		<0.0015	<0.0015	0.0015
Dibenzo(a,h)anthracene	<0.0003	<0.0003		<0.0003	<0.0003	0.0003
Fluoranthene	<0.002	<0.002	0.011	<0.002	<0.002	0.28
Fluorene	<0.002	<0.002	<0.002	<0.002	0.006	0.28
ndeno(1,2,3 c-d)pyrene	<0.0003	<0.0003	0.0016	<0.0003	<0.0003	0.00043
Naphthalene	<0.010	<0.010	<0.010	<0.010		0.025
Phenanthrene	<0.005	<0.005	<0.005	<0.005	<0.005	
Pyrene	<0.002	<0.002	0.007	<0.002	<0.002	0.21

til results reported in mg/L or parts per million (ppm)

^{*}TACO 6-5-97 Final Order, Section 742, Appendix B: Table E; Tier 1 Groundwater Remediation Objectives for the Groundwater (GW) Component of the GW Ingestion Route, Class 1 GW.





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May 7, 2004

Mr. Matt Warneke
TRANS ENVIRONMENTAL, LTD.
4722 B Rockton Road
Roscoe, IL 61073

Project ID: TE04-056

First Environmental File ID: 25080-84

Date Received: April 30th, 2004

Dear Mr. Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody form.

All analyses were performed in accordance with methods from the USEPA publication <u>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</u>, SW-846, 3rd Edition, December 1996 and its updates. The actual method references are listed on the Analytical Report.

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods and current IL ELAP / NELAP have been met. QA/QC documentation and raw data will remain on file for future reference.

It has been a pleasure providing you with analytical services, and we look forward to working with you again in the future. If you have any questions regarding this report, or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski Project Manager <u> Electoo</u>nic Filing - Received, Clerk's Office : 06/15/2016



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Analytical Report

Client:

TRANS ENVIRONMENTAL

Project ID:

TE04-056

Sample Number:

25080

Sample Description: MW-6

Time Taken:

Result

04/30/04 04/27/04 12:01

Lab File ID:

Analyte

25080-84

Date Reported:

Units

Date Received:

Date Taken:

05/07/04

Flags

		·
BTEX	Method	5030B/8260B
Analysi	is Date:	05/05/04

Benzene	< 5.0	ug/L
Toluene	< 5.0	ug/L
Ethyl benzene	< 5.0	ug/L
Xylenes (total)	< 5.0	ug/L

Polynuclear Aromatic Compounds Method 3510C/8270C

Preparation Date

05/03/04

Analysis Date:

05/04/04

Naphthalene	< 10	ug/L
Acenaphthylene	< 10	ug/L
Acenaphthene	< 10	ug/L
Fluorene	< 2	ug/L
Phenanthrene	< 5	ug/L
Anthracene	< 5	ug/L
Fluoranthene	11	ug/L
Pyrene	7	ug/L
Benzo[a]anthracene	1.68	ug/L
Chrysene	2.6	ug/L
Benzo[b]fluoranthene	1.70	ug/L
Benzo[k]fluoranthene	1.99	ug/L
Benzo[a]pyrene	1.6	ug/L
Indeno[1,2,3-cd]pyrene	1.6	ug/L
Dibenz[a,h]anthracene	0.5	ug/L
Benzo[g,h,i]perylene	1.4	ug/L

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Analytical Report

Client: TRANS ENVIRONMENTAL

 Project ID:
 TE04-056
 Date Received:
 04/30/04

 Sample Number:
 25081
 Date Taken:
 04/27/04

 Sample Description:
 MW-3
 Time Taken:
 12:30

 Lab File ID:
 25080-84
 Date Reported:
 05/07/04

D: 25080-84		Date Rep	orted:	05/07/04
Analyte		Result	Units	Flags
BTEX Method 5030E	3/8260B			
Analysis Date:	05/05/04			
Benzene		172	ug/L	
Toluene		12.0	ug/L	
Ethyl benzene		< 5.0	ug/L	
Xylenes (total)		23.6	ug/L	
Polynuclear Aromatic	Compounds Method	13510C/8270C		
Preparation Date	05/03/04			
Analysis Date:	05/04/04			
Naphthalene		< 10	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene	•	< 2	ug/L	
Benzo[a]anthracene	•	< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene		< 0.18	ug/L	
Benzo[k]fluoranthene		< 0.17	ug/L	
Benzo[a]pyrene		< 0.2	ug/L	
Indeno[1,2,3-cd]pyrene	;	< 0.3	ug/L	
Dibenz[a,h]anthracene		< 0.3	ug/L	
Benzo[g,h,i]perylene		< 0.4	ug/L	

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Analytical Report

Client: TRANS ENVIRONMENTAL

 Project ID:
 TE04-056
 Date Received:
 04/30/04

 Sample Number:
 25082
 Date Taken:
 04/27/04

 Sample Description:
 MW-5
 Time Taken:
 1:15

 Lab File ID:
 25080-84
 Date Reported:
 05/07/04

Analyte		Result	Units	Flags
BTEX Method 503	0B/8260B			
Analysis Date:	05/04/04			
Benzene		65.0	ug/L	
Toluene	,	< 5.0	ug/L	
Ethyl benzene		28.4	ug/L	
Xylenes (total)		148	ug/L	
Polynuclear Aroma	tic Compounds Met	hod 3510C/8270C		
Preparation Date	05/03/04			
Analysis Date:	05/04/04			
Naphthalene		< 10	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anthracene	•	< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthen	e	< 0.18	ug/L	
Benzo[k]fluoranthen	e	< 0.17	ug/L	
Benzo[a]pyrene		< 0.2	ug/L	
Indeno[1,2,3-cd]pyre		< 0.3	ug/L	
Dibenz[a,h]anthracer	ne	< 0.3	ug/L	
Benzo[g,h,i]perylene	;	< 0.4	ug/L	

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Analytical Report

Client: TRANS ENVIRONMENTAL

 Project ID:
 TE04-056
 Date Received:
 04/30/04

 Sample Number:
 25083
 Date Taken:
 04/27/04

 Sample Description:
 MW-7
 Time Taken:
 2:45

 Lab File ID:
 25080-84
 Date Reported:
 05/07/04

D: 25080-84		Date Rep	oorted:	05/07/04
Analyte		Result	Units	Flags
BTEX Method 50301	B/8260B			
Analysis Date:	05/06/04			
Benzene		< 5.0	ug/L	
Toluene		< 5.0	ug/L	
Ethyl benzene		< 5.0	ug/L	
Xylenes (total)		< 5.0	ug/L	
Polynuclear Aromatic	c Compounds Met	hod 3510C/8270C		
Preparation Date	05/03/04			
Analysis Date:	05/04/04			
Naphthalene		< 10	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene	•	< 2	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene		< 2	ug/L	
Benzo[a]anthracene	٠	< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene		< 0.18	ug/L	
Benzo[k]fluoranthene		< 0.17	ug/L	
Benzo[a]pyrene		< 0.2	ug/L	
Indeno[1,2,3-cd]pyrene	3	< 0.3	ug/L	
Dibenz[a,h]anthracene		< 0.3	ug/L	
Benzo[g,h,i]perylene		< 0.4	ug/L	

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Analytical Report

Client: TRANS ENVIRONMENTAL

Benzo[a]pyrene

Indeno[1,2,3-cd]pyrene

Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

 Project ID:
 TE04-056
 Date Received:
 04/30/04

 Sample Number:
 25084
 Date Taken:
 04/27/04

 Sample Description:
 MW-8
 Time Taken:
 3:45

 Lab File ID:
 25080-84
 Date Reported:
 05/07/04

oporthone terms				5
D: 25080-84		Date Repo	rted:	05/07/04
Analyte		Result	Units	Flags
BTEX Method 5030	B/8260B			
Analysis Date:	05/06/04			
Benzene		127	ug/L	
Toluene		19.8	ug/L	
Ethyl benzene		538	ug/L	
Xylenes (total)		1,410	ug/L	
Polynuclear Aromati	c Compounds Met	hod 3510C/8270C		
Preparation Date	05/03/04			
Analysis Date:	05/04/04			
Naphthalene		420	ug/L	
Acenaphthylene		< 10	ug/L	
Acenaphthene		< 10	ug/L	
Fluorene		6	ug/L	
Phenanthrene		< 5	ug/L	
Anthracene		< 5	ug/L	
Fluoranthene		< 2	ug/L	
Pyrene	•	< 2	ug/L	
Benzo[a]anthracene	•	< 0.13	ug/L	
Chrysene		< 1.5	ug/L	
Benzo[b]fluoranthene		< 0.18	ug/L	
Benzo[k]fluoranthene		< 0.17	ug/L	

< 0.2

< 0.3

< 0.3

< 0.4

ug/L ug/L

ug/L

ug/L

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Company Name: / Vous 24/1/	mendel
Street Address: 4722 R	c L 2
City: VASCA	Super 2016 20 Zin: 6/977
Phone: \$15/624-096	Na. 171 1945
Send Report To:	- 1 - 1 - 0 - 10 · 1
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Project I.D.: <u>TFOY - 05 6</u> P.O. #.:		Á				A CANADA A C	
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Matrix Codes: S = Soil W = Water O = Other	,	\ \ X \.1		/ /			
Date/Time Taken Sample Description	Matrix	<i>y</i> 1		f (Comments	Lab I.D.
4-27-04 12-01 MW-6	W	1	/			THE SECOND SECON	25080
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1 2.15 my 3		110		,		egint de la la	93
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Received within 6 hrs. of collection:		₹ ;;;	the state of the s
Cooler Temperature:C		, et 24	the state of the s
y Williams		* · ··	the Cate Cate Cate Cate Cate Cate Cate Cat

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ANALYTICAL TABULAR SUMMARY

Blake Oil - Forreston June 2005 Data

			Maria est	en en en en en en en en en en en en en e			
Benzene	<0.005		<0.005		PA.I.	0.005	
Toluene	<0.005	<0.005	<0.005	0.0059		1	
Ethylbenzene	<0.005	<0.005	<0.005	0.129	0.619	0.7	
Xylenes (Total)	<0.005	0.0069	<0.005	0.148	0.912	10	
Acenaphthene	<0.010	<0.010	<0.010	<0.010	<0.010	0.42	
Acenaphthylene	<0.010	<0.010	<0.010	<0.010	<0.010		
Anthracene	<0.005	<0.005	<0.005	<0.005	<0.005	2.1	
Benzo(a)anthracene	のでは、	<0.00013	<0.00013	<0.00013	<0.00013	0.00013	
Benzo(a)pyrene	拉	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	
Benzo(b)fluoranthene	Berlin B	<0.00018	<0.00018	<0.00018	<0.00018	0.00018	
Benzo(k)fluoranthene	L. 13	<0.00017	<0.00017	<0.00017	<0.00017	0.00017	
Benzo(g,h,i)perylene	0.0024	<0.0004	<0.0004	<0.0004	<0.0004		
Chrysene	區工作物	<0.0015	<0.0015	<0.0015	<0.0015	0.0015	
Dibenzo(a,h)anthracene		<0.0003	<0.0003	<0.0003	<0.0003	0.0003	
Fluoranthene	0.0030	<0.002	<0.002	<0.002	<0.002	0.28	
Fluorene	<0.002	<0.002	<0.002	<0.002	0.002	0.28	
Indeno(1,2,3 c-d)pyrene		<0.0003	<0.0003	<0.0003	<0.0003	0.00043	
Naphthalene	<0.010	<0.010	< 0.010	0.0180		0.14	
Phenanthrene	<0.005	<0.005	<0.005	<0.005	<0.005		
Pyrene	0.002	<0.002	<0.002	<0.002	<0.002	0.21	

All results reported in mg/L or parts per million (ppm)

^{*}TACO 6-5-97 Final Order, Section 742, Appendix B: Table E; Tier 1 Groundwater Remediation Objectives for the Groundwater (GW) Component of the GW Ingestion Route, Class 1 GW.





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June 17, 2005

Mr. Matt Warneke
TRANS-ENVIRONMENTAL LTD.
4722 B Rockton Road,
Roscoe, IL 61073

Post-it* Fax Note 7671 Date pages 7

To MB-TT Co.Dept.

Phone * Fax * Fax *

Project ID: TE05-077

First Environmental File ID: 5-1388 Date Received: June 10, 2005

Dear Mr. Matt Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All analyses were performed in accordance with established methods and within established holding times. All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our certificate is number 001201: 02/17/05 through 02/28/06.

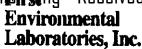
I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski Project Manager 00/1//2003 13:14 FAA 030 //6 1233

INST ENVIRONMENTAL LABS -> TRANS ENVIRO

Fifting - Received, Clerk's Office : 06/15/2016



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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Project ID: TE05-077

Sample ID: MW 6 **Sample No:** 5-1388-001 Date Collected: 06/08/05

Time Collected: 8:50

Date Received: 06/10/05

Date Reported: 06/17/05

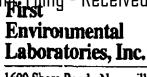
Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 06/15/05	Method: 5030B/	3260B			
Benzene		< 5.0	5.0	ug/L	
Ethylbenzene		< 5.0	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		< 5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbon: Analysis Date: 06/14/05	Method: 8270C			Method 351 Date: 06/13/05	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		0.90	0.13	ug/L	
Benzo(a)pyrene		1.5	0.2	ug/L	
Benzo(b)fluoranthene		3.20	0.18	ug/L	
Benzo(k)fluoranthene		1.66	0.17	ug/L	
Benzo(ghi)perylene		2.4	0.4	ug/L	
Chrysene		2.3	1.5	ug/L	
Dibenzo(a,h)anthracene		0.8	0.3	ug/L	
Fluoranthene		3	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		2.4	0.3	ug/L	
Naphthalene		< 10	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		2	2	ug/L	

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FIRST ENVIRONMENTAL LABS - TRANS ENVIRO

№003/007

nic Filing - Received, Clerk's Office : 06/15/2016



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IL ELAP / NELAC Accreditation # 100292 **Analytical Report**

Client:

TRANS-ENVIRONMENTAL LTD.

Project ID:

TE05-077 MW 3

Sample ID: Sample No:

5-1388-002

Date Collected: 06/08/05

Time Collected: 9:20

Date Received:

Analyte	Resu	it R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 06/15/05	Method: 5030B/8260B			
Benzene	24.2	5.0	ug/L	
Ethylbenzene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
Xylene, Total	6.9	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 06/14/05	Method: 8270C		on Method 351 1 Date: 06/13/0:	
Acenaphthene	< 10	10	ug/L	
Acenaphthylene	< 10	10	ug/L	
Anthracene	< 5	5	ug/L	
Benzo(a)anthracene	< 0.13	0.13	ug/L	
Benzo(a)pyrene	< 0.2	0.2	ug/L	
Benzo(b)fluoranthene	< 0.18	0.18	ug/L	
Benzo(k)fluoranthene	< 0.17	0.17	ug/L	
Benzo(ghi)perylene	< 0.4	0.4	ug/L	
Chrysene	< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	< 0.3	0.3	ug/L	
Fluoranthene	< 2	2	ug/L	
Fluorene	< 2	2	u g /L	
Indeno(1,2,3-cd)pyrene	< 0.3	0.3	ug/L	
Naphthalene	< 10	10	ug/L	
Phenanthrene	< 5	5	ug/L	
Pyrene	< 2	2	ug/L	

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Analytical Report

Client:

TRANS-ENVIRONMENTAL LTD.

TE05-077

Project ID: Sample ID:

MW 7

Sample No: 5-1388-003

Date Collected: 06/08/05

Time Collected: 10:10

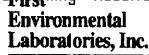
Date Received: 06/10/05

Analyte	Resul	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 06/15/05	Method: 5030B/8260B			
Benzene	< 5.0	5.0	ug/L	
Ethylbenzene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
Xylene, Total	< 5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbon: Analysis Date: 06/14/05	Method: 8270C		Method 351 Date: 06/13/05	
Acenaphthene	< 10	10	ug/L	
Acenaphthylene	< 10	10	ug/L	
Anthracene	< 5	5	ug/L	
Benzo(a)anthracene	< 0.13	0.13	u g/L	
Benzo(a)pyrene	< 0.2	0.2	ug/L	
Benzo(b)fluoranthene	< 0.18	0.18	ug/L	
Benzo(k)fluoranthene	< 0.17	0.17	\mathtt{ug}/\mathbf{L}	
Benzo(ghi)perylene	< 0.4	0.4	ug/L	
Chrysene	< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	< 0.3	0.3	u g /L	
Fluoranthene	< 2	2	ug/L	
Fluorene	< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene	< 0.3	0.3	ug/L	
Naphthalene	< 10	10	u g ∕L	
Phenanthrene	< 5	5	ug/L	
Pyrene	< 2	2	u g /L	

06/17/2005 13:18 FAX 630 778 1233

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Analytical Report

Client:

TRANS-ENVIRONMENTAL LTD.

Project ID:

TE05-077

Sample ID:

MW 5

Sample No:

5-1388-004

Date Collected: 06/08/05

Time Collected: 10:40

Date Received:

06/10/05

₩005/007

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 06/16/05	Method: 5030B/8	260B			
Benzene		53.4	5.0	ug/L	
Ethylbenzene		129	5.0	ug/L	
Toluene		5.9	5.0	ug/L	
Xylene, Total		148	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 06/14/05	Method: 8270C			Method 351 Date: 06/13/05	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		18	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Ругепе		< 2	2	ug/L	



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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Project ID: TE05-077
Sample ID: MW 8

Sample No: 5-1388-005

Date Collected: 06/08/05

Time Collected: 11:30

Date Received: 06/10/05

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 06/16/05	Method: 5030B/	8260B			<u> </u>
Benzene		59.0	5.0	ug/L	
Ethylbenzene		619	5.0	ug/L	
Toluene		1,090	5.0	ug/L	
Xylene, Total		912	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 06/14/05	Method: 8270C			Method 351 Date: 06/13/05	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		2	2	ug/L	
indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		356	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	

Electronic Filing - Received, Clerk's Office: 06/15/2016 CHAIN OF CUSTODY RECORD



Page____ of ___ pgs

First Environmental Laboratories 1600 Shore Road, Suite D Naperville, Illinois 60563 Phone: (630) 778-1200 • Fax: (630) 778-1233 24 Ht. Pager (708) 569-7507 E-mail: info@firstenv.com IEPA Certification# 180292 Project I.D.: P.O. #.:			Street City: Phon Send	Report Topled By:	rves ts-6	ANS PAR LANT	7 AYR	Ser	of the	THE CITY	_ zv. 61	C/¢ (
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Relinquished By:		Dat	te/Time	_		Received B	y:	Y			Date/Time		
Rev. 1/01	•												

Electronic Filing - Received, Clerk's Office: 06/15/2016 ANALYTICAL TABULAR SUMMARY

ANALYTICAL TABULAR SUMMARY Kirkland Quick Stop - LUST # 891717 April 2006 Groundwater Data

Benzene	<0.005		The Land	<0.005		0.005
Toluene	<0.005	0.0238	<0.005	<0.005	0.012	1
Ethylbenzene	<0.005	<0.005	0.0154	<0.005	0.569	0.7
Xylenes (Total)	<0.005	<0.005	0.0203	<0.005	1.070	10
Acenaphthene	<0.010	<0.010	<0.010	<0.010	<0.010	0.42
Acenaphthylene	<0.010	<0.010	<0.010	<0.010	<0.010	
Anthracene	<0.005	<0.005	<0.005	<0.005	<0.005	2.1
Benzo(a)anthracene	<0.00013		<0.00013	<0.00013	<0.00013	0.00013
Benzo(a)pyrene	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002
Benzo(b)fluoranthene	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00018
Benzo(k)fluoranthene	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.00017
Benzo(g,h,l)perylene	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	
Chrysene	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0015
Dibenzo(a,h)anthracene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0003
Fluoranthene	<0.002	<0.002	<0.002	<0.002	<0.002	0.28
Fluorene	<0.002	<0.002	0.0030	<0.002	<0.002	0.28
Indeno(1,2,3 c-d)pyrene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00043
Naphthalene	<0.010	<0.010		< 0.010	<0.010	0.14
Phenanthrene	<0.005	<0.005	<0.005	<0.005	<0.005	
Pyrene	<0.002	<0.002	<0.002	<0.002	<0.002	0.21

All results reported in mg/L or parts per million (ppm)

^{*}TACO 35 IAC Final Order, Section 742, Appendix B: Table E; Tier 1 Groundwater Remediation Objectives for the Groundwater (GW) Component of the GW Ingestion Route, Class I GW.





1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

April 14, 2006

Mr. Matt Warneke TRANS-ENVIRONMENTAL LTD.

8184 Starwood Drive Loves Park, IL 61111

Project ID: TE06-057

First Environmental File ID: 6-1486 Date Received: April 10, 2006

Dear Mr. Matt Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All analyses were performed in accordance with established methods and within established holding times. All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our certificate is number 001498: 02/09/06 through 02/28/07.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski

Project Manager





1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Date Collected: 04/07/06
Time Collected: 10:55
Date Received: 04/10/06

Project ID: TE06-057 Sample ID: MW-6

Date Received: 04/10/06 **Date Reported:** 04/14/06

Sample No: 6-1486-001

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 04/11/06	Method: 5030B/82	60B			
Benzene	<	< 5.0	5.0	ug/L	
Ethylbenzene	<	< 5.0	5.0	ug/L	
Toluene	<	< 5.0	5.0	ug/L	
Xylene, Total	<	5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 04/12/06	Method: 8270C			Method 351 Date: 04/12/06	
Acenaphthene	<	< 10	10	ug/L	
Acenaphthylene	<	< 10	10	ug/L	
Anthracene	<	< 5	5	ug/L	
Benzo(a)anthracene	<	< 0.13	0.13	ug/L	
Benzo(a)pyrene	٠ <	< 0.2	0.2	ug/L	
Benzo(b)fluoranthene	<	0.18	0.18	ug/L	
Benzo(k)fluoranthene	<	0.17	0.17	ug/L	
Benzo(ghi)perylene	<	0.4	0.4	ug/L	
Chrysene	<	< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	. <	< 0.3	0.3	ug/L	
Fluoranthene	<	< 2	2	ug/L	
Fluorene	<	< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene	<	< 0.3	0.3	ug/L	
Naphthalene	<	< 10	10	ug/L	
Phenanthrene	<	< 5	5	ug/L	
Ругепе	<	< 2	2	ug/L	•





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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Date Collected: 04/07/06

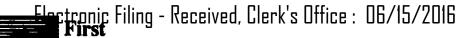
Project ID: TE06-057 **Sample ID:** MW-3

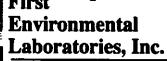
Time Collected: 11:20

Sample No: 6-1486-002

Date Received: 04/10/06 **Date Reported:** 04/14/06

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 04/11/06	Method: 5030B/82	60B			
Benzene		23.1	5.0	ug/L	
Ethylbenzene	•	5.0	5.0	ug/L	
Toluene		23.8	5.0	ug/L	
Xylene, Total	· •	5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 04/12/06	Method: 8270C			Method 351 Date: 04/12/06	
Acenaphthene	<	: 10	10	ug/L	
Acenaphthylene	<	10	10	ug/L	
Anthracene	<	< 5	5	ug/L	
Benzo(a)anthracene		0.15	0.13	ug/L	
Benzo(a)pyrene	<	0.2	0.2	ug/L	
Benzo(b)fluoranthene	<	0.18	0.18	ug/L	
Benzo(k)fluoranthene	<	0.17	0.17	ug/L	
Benzo(ghi)perylene	<	0.4	0.4	ug/L	
Chrysene	•	1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	•	0.3	0.3	ug/L	
Fluoranthene	•	2	2	ug/L	
Fluorene	<	< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene	<	0.3	0.3	ug/L	
Naphthalene	<	10	10	ug/L	
Phenanthrene	•	< 5	5	ug/L	
Рутепе	<	2	2	ug/L	•





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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

TE06-057

Sample ID: MW-5

Project ID:

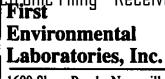
Sample No: 6-1486-003

Date Collected: 04/07/06

Time Collected: 11:40

Date Received: 04/10/06

Analyte	· · · · · · · · · · · · · · · · · · ·	Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 04/11/06	Method: 5030B/8	260B			
Benzene		18.0	5.0	ug/L	
Ethylbenzene		15.4	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		20.3	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 04/12/06	Method: 8270C			Method 351 Date: 04/12/06	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		3	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		331	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Ругепе		< 2	2	ug/L	•



IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Project ID: TE06-057

Sample ID: MW-7

Sample No: 6-1486-004

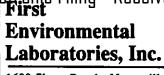
Date Collected: 04/07/06

Time Collected: 12:10

Date Received: 04/10/06

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 04/11/06	Method: 5030B/82	60B			
Benzene	<	5.0	5.0	ug/L	
Ethylbenzene	<	5.0	5.0	ug/L	
Toluene	<	5.0	5.0	ug/L	
Xylene, Total	<	5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 04/12/06	Method: 8270C			Method 351 Date: 04/12/06	
Acenaphthene	<	10	10	ug/L	
Acenaphthylene	<	10	10	ug/L	
Anthracene	<	5	5	ug/L	
Benzo(a)anthracene	<	0.13	0.13	ug/L	
Benzo(a)pyrene	<	0.2	0.2	ug/L	
Benzo(b)fluoranthene	<	0.18	0.18	ug/L	
Benzo(k)fluoranthene	<	0.17	0.17	ug/L	
Benzo(ghi)perylene	<	0.4	0.4	ug/L	
Chrysene	<	1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	<	0.3	0.3	ug/L	
Fluoranthene	<	2	2	ug/L	
Fluorene	<	2	2	ug/L	
Indeno(1,2,3-cd)pyrene	<	0.3	0.3	ug/L	
Naphthalene	<	: 10	10	ug/L	
Phenanthrene	<	: 5	5	ug/L	
Pyrene	<	2	2	ug/L	•





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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

TE06-057

Date Collected: Time Collected: 12:30

04/07/06

Project ID: Sample ID: MW-8

Date Received: 04/10/06

6-1486-005 Sample No:

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 04/13/06	Method: 5030B/	8260B	-		
Benzene		18.8	5.0	ug/L	
Ethylbenzene		569	5.0	ug/L	
Toluene		12.0	5.0	ug/L	
Xylene, Total		1,070	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 04/12/06	Method: 8270C			Method 351 Date: 04/12/06	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		< 10	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	•

Phone: (630) 778-1200 • Fax: (630) 778-1233

Naperville, Illinois 60563

Rev. 10/04

First Environmental	Electronic Filing - Received, Clerk's Uffice : 06/15/2016
Laboratories, Inc.	Company Name: Trans Environmental
First Environmental Laboratories 1600 Shore Road, Suite D	Street Address: PIRY Staruard Dave

Phone:

24 Hr. Pager (708) 569-7				Repo			m				eke	
E-mail: info@firstenv.co IEPA Certification# 100:			<u> 28m</u>	pled B	<u>Y:</u>		<u> </u>	\ <u>e'\</u>		راخير -	-long	
Project I.D.: 78 P.O. #.:				Q TO	NA			 	nalyse			
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4-7-06 (0:53)	Sample Description	Matrix		 	\longmapsto						Comments	Lab LD.
	MW-6	- W-	1	1	╁							1486-01
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12:10	MW-7			1] 	-+				-		DUT.
12:30	MW-8	- J	1	1	1		$\neg \neg$					004 UK
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FOR LAB USE ONLY: Cooler Temperature: 0.1- Received within 6 hrs. of lice Present: Yes No_ Notes and Special Inst	collection: 5	Sample Retrig Retrigerator Te 035 Vlats Fro reezer Tempe	mperat zen: Ye	ture: is No	<u>/</u> •c		ntainers served i			served:	·	
		 ·		<u>-</u>			., .					<u></u>
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Relinguished By:	Date/	*/	<u> </u>			ived By:	-	7	- Francisco		Date/Time	

Kirkland Quick Stop - LUST # 891717 July 2006 Groundwater Data

	_				w 7	
Benzene	< 0.005	0.0204		< 0.005	\$-\$\displays \displays \din \displays \displays \displays \displays \text	0.005
Toluene	< 0.005	< 0.005	0.0273	< 0.005	0.452	1
Ethylbenzene	< 0.005	< 0.005	<0.005	< 0.005	0.0088	0.7
Xylenes (Total)	< 0.005	0.0051	0.0444	< 0.005	0.830	10
Acenaphthene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.42
Acenaphthylene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Anthracene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.1
Benzo(a)anthracene		< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00013
Benzo(a)pyrene		< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002
Benzo(b)fluoranthene		< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00018
Benzo(k)fluoranthene		< 0.00017	< 0.00017	< 0.00017	< 0.00017	0.00017
Benzo(g,h,l)perylene	0.0006	< 0.0004	< 0.0004	< 0.0004	< 0.0004	
Chrysene	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.0015
Dibenzo(a,h)anthracene	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	0.0003
Fluoranthene	0.0020	< 0.002	< 0.002	< 0.002	< 0.002	0.28
Fluorene	< 0.002	< 0.002	< 0.002	< 0.002	0.004	0.28
Indeno(1,2,3 c-d)pyrene	Control of the Contro	<0.0003	<0.0003	<0.0003	< 0.0003	0.00043
Naphthalene	< 0.010	< 0.010	< 0.010	< 0.010	· · · · · · · · · · · · · · · · · · ·	0.14
Phenanthrene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Pyrene	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.21

All results reported in mg/L or parts per million (ppm)

^{*}TACO 35 IAC Final Order, Section 742, Appendix B: Table E; Tier I Groundwater Remediation Objectives for the Groundwater (GW) Component of the GW Ingestion Route, Class I GW.



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

August 03, 2006

Mr. Matt Warneke
TRANS-ENVIRONMENTAL LTD.
8184 Starwood Drive
Loves Park, IL 61111

Project ID: TE06-057

First Environmental File ID: 6-3252

Date Received: July 28, 2006

Dear Mr. Matt Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All analyses were performed in accordance with established methods and within established holding times. All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our certificate is number 001532: 04/26/06 through 02/28/07.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski Project Manager



rppic Filing - Received, Clerk's Office : 06/15/2016

Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

TRANS-ENVIRONMENTAL LTD. Client:

Date Collected: 07/25/06 Time Collected: 7:10

Project ID: TE06-057 MW-6 Sample ID: 6-3252-001

Sample No:

Date Received: 07/28/06 Date Reported: 08/03/06

Analyte	<u> </u>	Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 08/02/06	Method: 5030B/820	50B			
Benzene	<	5.0	5.0	ug/L	
Ethylbenzene	<	5.0	5.0	ug/L	
Toluene	<	5.0	5.0	ug/L	
Xylene, Total	. <	5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 08/02/06	Method: 8270C		Preparation Method 3510C Preparation Date: 07/31/06		
Acenaphthene	<	10	10	ug/L	
Acenaphthylene	<	10	10	ug/L	
Anthracene	<	5	5	ug/L	
Benzo(a)anthracene		0.40	0.13	ug/L	
Benzo(a)pyrene		0.6	0.2	ug/L	
Benzo(b)fluoranthene		0.75	0.18	ug/L	
Benzo(k)fluoranthene		0.46	0.17	ug/L	
Benzo(ghi)perylene		0.6	0.4	ug/L	
Chrysene	<	1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	<	0.3	0.3	ug/L	
Fluoranthene		2	2	ug/L	
Fluorene	<	2	2	ug/L	
Indeno(1,2,3-cd)pyrene		0.6	0.3	ug/L	
Naphthalene	<	10	10	ug/L	
Phenanthrene	<	5	5	ug/L	
Pyrene	<	2	2	ug/L	



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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Date Collected: 07/25/06 **Time Collected:** 7:45

Project ID: TE06-057 **Sample ID:** MW-3a

Date Received: 07/28/06

Sample No: 6-3252-002

Date Reported: 08/03/06

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 08/02/06	Method: 5030B/	8260B			
Benzene		20.4	5.0	ug/L	
Ethylbenzene		< 5.0	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		5.1	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 08/01/06	Method: 8270C		Preparation Preparation I	Method 351 Date: 07/31/06	0C
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene	•	< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		< 10	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	





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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Date Collected: 07/25/06

Project ID: TE06-057

Time Collected: 8:20

Sample ID: MW-5 **Sample No:** 6-3252-003

Date Received: 07/28/06 **Date Reported:** 08/03/06

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 08/02/06	Method: 5030B/	8260B			
Benzene		29.2	5.0	ug/L	
Ethylbenzene		27.3	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total	•	44.4	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 08/01/06	Method: 8270C			Method 351 Date: 07/31/06	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		< 10	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	





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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Date Collected: 07/25/06

Project ID: TE06-057 **Sample ID:** MW-7

Time Collected: 9:00 **Date Received:** 07/28/06

Sample No: 6-3252-004

Date Reported: 08/03/06

Analyte	R	Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 08/02/06	Method: 5030B/8260	В			
Benzene	< :	5.0	5.0	ug/L	
Ethylbenzene	< :	5.0	5.0	ug/L	
Toluene	< :	5.0	5.0	ug/L	
Xylene, Total	< :	5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 08/01/06	Method: 8270C			Method 351 Date: 07/31/06	
Acenaphthene	< 1	0	10	ug/L	
Acenaphthylene	< 1	10	10	ug/L	
Anthracene	< 5	5	5	ug/L	
Benzo(a)anthracene	< (0.13	0.13	ug/L	
Benzo(a)pyrene	< ().2	0.2	ug/L	
Benzo(b)fluoranthene	< ().18	0.18	ug/L	
Benzo(k)fluoranthene	< ().17	0.17	ug/L	
Benzo(ghi)perylene	< ().4	0.4	ug/L	
Chrysene	< 1	1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	. < ().3	0.3	ug/L	
Fluoranthene	< 2	2	2	ug/L	
Fluorene	< 2	2	2	ug/L	
Indeno(1,2,3-cd)pyrene	< ().3	0.3	ug/L	
Naphthalene	< 1	0	10	ug/L	
Phenanthrene	< 5	i	5	ug/L	
Pyrene	< 2	?	2	ug/L	





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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Date Collected: 07/25/06

Project ID: TE06-057

Time Collected: 9:45

Sample ID: MW-8

Date Received: 07/28/06

Sample No: 6-3252-005 Date Reported: 08/03/06

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 08/02/06	Method: 5030B/8	8260B			
Benzene		12.4	5.0	ug/L	
Ethylbenzene		452	5.0	ug/L	
Toluene		8.8	5.0	ug/L	
Xylene, Total	·	830	5.0	ug/L	
Polynuciear Aromatic Hydrocarbons Analysis Date: 08/01/06	Method: 8270C			Method 351 Date: 07/31/06	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		4	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		426	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	



First Environmental Laboratories

1600 Shore Road, Suite D Naperville, Illinois 60563

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24 Hr. Pager (708) 569-7507 E-mail: info@firstenv.com IEPA Certification# 100292

Rev. 10/04

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Cooler Temperature: 0.1		ample Refrig							served:	- -	
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Electronic Filing - Received, Clerk's Office: 06/15/2016 Tabular Summary BTEX PNA Data Blake Oil, Kirkland, Illinois

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and the second s								
BTEX Organic Compounds (,
Date Analyzed:	Units	Rep. Limit	3/9/2007	3/9/2007	3/9/2007	3/9/2007	3/9/2007	
	mg/L	0.0050	ND			ND		0.005
	mg/L	0.0050	ND	ND		ND		0.7
	mg/L	0.0050	ND	ND	ND	ND		1.0
	mg/L	0.0050	ND	ND		ND		10.0
Polynuclear Aromatic Hydro	carbons	(8270C)						_
Date Analyzed:	Units	Rep. Limit	3/13/2007	3/12/2007	3/12/2007	3/12/2007	3/12/2007	
The state of the s	mg/L	0.010	ND	ND	ND	ND	ND	0.42
	mg/L	0.010	ND	ND	ND	ND	ND	
	mg/L	0.005	ND	ND	ND .	ND	ND	2.1
	mg/L	0.00013	ND	ND	ND	ND	ND	0.00013
	mg/L	0.0002	ND	ND	ND	_ ND	ND	0.0002
	mg/L	0.00018		ND	ND	ND	ND	0.00018
- ·	mg/L	0.00017		ND	ND	ND	ND	0.00017
	mg/L	0.0004	ND	ND	ND	ND	ND	
	mg/L	0.0015	ND	ND	ND	ND	ND	0.0015
	mg/L	0.0003	ND	ND	ND	ND	ND	0.0003
	mg/L	0.002	ND	ND	ND	ND	ND	0.28
	mg/L	0.002	ND	ND	ND	ND	ND	0.28
	mg/L	0.0003	ND	ND	ND	ND	ND	0.00043
	mg/L	0.010	ND	ND	ND	ND		0.14
	mg/L	0.005	ND	ND	ND	ND	ND	
	mg/L	0.002	ND	ND	ND	ND	ND	0.21



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

March 13, 2007

Mr. Matt Warneke
TRANS-ENVIRONMENTAL LTD.
8184 Starwood Drive
Loves Park, IL 61111

Project ID: TE06 195

First Environmental File ID: 7-0926 Date Received: March 08, 2007

Dear Mr. Matt Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All analyses were performed in accordance with established methods and within established holding times. All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 001695: effective 02/26/07 through 02/28/08.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski Project Manager



IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

TRANS-ENVIRONMENTAL LTD.

Project ID: TE06 195

First Environmental File ID: 7-0926

Date Received: March 08, 2007

Flåg	Description (1997)	Flag	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
В	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
С	Identification confirmed by GC/MS.	М	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
Н	Analysis holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
j	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	w	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Project ID: TE06 195

Sample ID: MW-6

Sample No: 7-0926-001

Date Collected: 03/08/07

Time Collected: 8:40

Date Received: 03/08/07

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 03/09/07	Method: 5030B/	8260B			
Benzene		< 5.0	5.0	ug/L	
Ethylbenzene		< 5.0	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		< 5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 03/13/07	Method: 8270C		Preparation Preparation I	Method 351 Date: 03/12/07	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		0.21	0.18	ug/L	
Benzo(k)fluoranthene		0.20	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		< 10	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	5 2	ug/L	



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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Project ID: TE06 195 Sample ID: MW-3A

Sample No:

Date Collected: 03/08/07 Time Collected: 9:10 Date Received: 03/08/07 7-0926-002 Date Reported: 03/13/07

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 03/09/07	Method: 5030B/	8260B			· ·
Benzene		10.9	5.0	ug/L	
Ethylbenzene		< 5.0	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		< 5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 03/12/07	Method: 8270C		Preparation Preparation I	0C	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		< 10	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Project ID: TE06 195

Sample ID: MW-5

Sample No: 7-0926-003

Date Collected: 03/08/07

Time Collected: 9:40

Date Received: 03/08/07

Analyte	· · · · · ·	Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 03/09/07	Method: 5030B/8	260B		··· · · · · · · · · · · · · · · · · ·	
Benzene		39.2	5.0	ug/L	
Ethylbenzene		14.8	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		27.4	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 03/12/07	Method: 8270C		Preparation Preparation I		
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene	•	< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene	·	< 10	10	ug/L	
Phenanthrene	•	< 5	5	ug/L	
Ругепе	•	< 2	2	ug/L	



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

03/08/07

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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD. Date Collected: 03/08/07 Time Collected: 10:10 Project ID: TE06 195 Sample ID: MW-7 Date Received:

Sample No: 7-0926-004 Date Reported: 03/13/07

Analyte		Result	R.L.	Units	Flags	
BTEX Organic Compounds Analysis Date: 03/09/07	Method: 5030B/82	260B				
Benzene	•	< 5.0	5.0	ug/L		
Ethylbenzene	<	< 5.0	5.0	ug/L		
Toluene	•	< 5.0	5.0	ug/L		
Xylene, Total		< 5.0	5.0	ug/L		
Polynuclear Aromatic Hydrocarbons Analysis Date: 03/12/07	Method: 8270C		Preparation Method 3510C Preparation Date: 03/12/07			
Acenaphthene	<	< 10	10	ug/L		
Acenaphthylene	<	< 10	10	ug/L		
Anthracene	<	< 5	5	ug/L	•	
Benzo(a)anthracene	<	< 0.13	0.13	ug/L		
Benzo(a)pyrene	<	< 0.2	0.2	ug/L		
Benzo(b)fluoranthene	<	< 0.18	0.18	ug/L		
Benzo(k)fluoranthene	<	< 0.17	0.17	ug/L		
Benzo(ghi)perylene	<	< 0.4	0.4	ug/L		
Chrysene	<	< 1.5	1.5	ug/L		
Dibenzo(a,h)anthracene	<	0.3	0.3	ug/L		
Fluoranthene	<	2	2	ug/L		
Fluorene	<	2	2	ug/L		
Indeno(1,2,3-cd)pyrene	<	< 0.3	0.3	ug/L		
Naphthalene	<	< 10	10	ug/L		
Phenanthrene	<	5	5	ug/L		
Pyrene	<	2	2	ug/L		



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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

 Project ID:
 TE06 195

 Sample ID:
 MW-8

 Sample No:
 7-0926-005

Date Collected: 03/08/07 **Time Collected:** 10:40

Date Received: 03/08/07

Analyte		Result	R.L.	Units	Flags	
BTEX Organic Compounds Analysis Date: 03/09/07	Method: 5030B/	8260B				
Benzene		6.4	5.0	ug/L		
Ethylbenzene		374	5.0	ug/L		
Toluene		10.1	5.0	ug/L		
Xylene, Total		438	5.0	ug/L		
Polynuclear Aromatic Hydrocarbons Analysis Date: 03/12/07	Method: 8270C	. 10	Preparation Method 3510C Preparation Date: 03/12/07			
Acenaphthene		< 10	10	ug/L		
Acenaphthylene		< 10	10	ug/L		
Anthracene		< 5	5	ug/L		
Benzo(a)anthracene		< 0.13	0.13	ug/L		
Benzo(a)pyrene		< 0.2	0.2	ug/L		
Benzo(b)fluoranthene		< 0.18	0.18	ug/L		
Benzo(k)fluoranthene		< 0.17	0.17	ug/L		
Benzo(ghi)perylene		< 0.4	0.4	ug/L		
Chrysene		< 1.5	1.5	ug/L		
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L		
Fluoranthene		< 2	2	ug/L		
Fluorene		< 2	2	ug/L		
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L		
Naphthalene		274	10	ug/L		
Phenanthrene		< 5	5	ug/L		
Pyrene		< 2	2	ug/L		

Page____ of ___ pgs



First Environmental Laboratories

1600 Shore Road, Suite D Naperville, Illinois 60563

Phone: (630) 778-1200 • Fax: (630) 778-1233

Matrix Codes: S = Soil W=Water O = Other

Sample Description

24 Hr. Pager (708) 569-7507 E-mail: info@firstenv.com IEPA Certification# 100292

Project I.D.:_

Date/Time Taken

0:40

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FOR LAB USE ONLY: Cooler Temperature: 0.1-6°C Yes No Received within 6 hrs. of collection: Ice Present: Yes No Notes and Special Instructions;		Sample Refi Refrigerator 5035 Vials F Freezer Tem	Tempera rozen: Yo	ture: es No	¥°c	Co	ntainen	s Recei	ved Pre	served:	Yes	□ No			
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Electronic Filing - Received, Clerk's Office : 06/15/2016 Analytical Tabular Summary

Blake Oil

401 W Main Street

Kirkland, Illinois 60146

Groundwater Sampling Lab Results

TRANS-ENVIRONM	ENTAL I	LTD,						
Not Provid	led		MW-6	MW-3A	MW-5	MW-7	MW-8	<i>C</i>
DiD	of Sample	Collection:	3/17/2008	3/17/2008	3/17/2008	3)17/2008	3/17/2008	Groundwater Remediation
The state of the s					10:30 AM		112 00 PM 4	Objective Class
ENDERVIOR							8-1098-005	1
Contaminants of Concern:								
BTEX Organic Compounds	(5030B/82	260B)						
Date Analyzed:	Units	Rep. Limit	3/21/2008	3/21/2008	3/21/2008	3/21/2008	3/25/2008	
Benzene	mg/L	0.0050	ND	ND		ND	ND	
Ethylbenzene	mg/L	0.0050	ND	ND	0.0639	ND	0.197	0.7
Toluene	mg/L	0.0050	ND	ND	ND	ND	ND	1.0
Xylene, Total	mg/L	0.0050	ND	ND	0.0179	ND	0.112	10.0
Polynuclear Aromatic Hydro				·	<u> </u>			_
Date Analyzed:	Units	Rep. Limit	3/24/2008	3/24/2008	3/24/2008	3/24/2008	3/24/2008	
Acenaphthene	mg/L	0.010	ND	ND	ND	ND	ND	0.42
Acenaphthylene	mg/L	0.010	ND	ND	ND	ND	ND	
Anthracene	mg/L	0.005	ND	ND	ND	ND	ND	2.1
Benzo(a)anthracene	mg/L	0.00013				ND	ND	
Benzo(a)pyrene	mg/L	0.0002		ND		ND	ND	
Benzo(b)fluoranthene	mg/L	0.00018		ND		ND	ND	
Benzo(k)fluoranthene	mg/L	0.00017				ND	ND	
Benzo(ghi)perylene	mg/L	0.0004	0.0097	ND	ND	ND	ND	
Chrysene	mg/L	0.0015		ND	ND	ND	ND _	
Dibenzo(a,h)anthracene	mg/L	0.0003		ND	ND	ND	ND	
Fluoranthene	mg/L	0.002	0.033	ND	ND	ND	ND	0.28
Fluorene	mg/L	0.002	ND	ND	ND	ND	ND	0.28
Indeno(1,2,3-cd)pyrene	mg/L	0.0003		ND	ND	ND	ND	
Naphthalene	mg/L	0.010	ND	ND	ND	ND	0.091	0.14
Phenanthrene	mg/L	0.005	0.008	ND	ND	ND	ND	***
Pyrene	mg/L	0.002	0.022	ND	ND	ND	ND	0.21



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March 27, 2008

Mr. Matt Warneke TRANS-ENVIRONMENTAL LTD.

8184 Starwood Drive Loves Park, IL 61111

Project ID: Not Provided

First Environmental File ID: 8-1098 Date Received: March 20, 2008

Dear Mr. Matt Warneke:

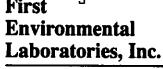
The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 001964: effective 02/19/08 through 02/28/09.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski\
Project Manager



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

TRANS-ENVIRONMENTAL LTD.

Project ID:

Not Provided

First Environmental File ID: 8-1098
Date Received: March 20, 2008

orgr.	16 e 16 en	• • •	Section 1
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
В	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
С	Identification confirmed by GC/MS.	М	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
Н	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	Т	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	w	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.

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Environmental
Laboratories, Inc.
1600 Shore Road • Naperville

IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Not Provided

Sample ID: MW-6

Project ID:

Sample No: 8-1098-001

Date Collected: 03/17/08

Time Collected: 9:00

Date Received: 03/20/08

Analyte	Resi	alt R.L.	Units	Flags		
BTEX Organic Compounds Analysis Date: 03/21/08	Method: 5030B/8260B					
Benzene	< 5.0	5.0	ug/L			
Ethylbenzene	< 5.0	5.0	ug/L			
Toluene	< 5.0	5.0	ug/L			
Xylene, Total	< 5.0	5.0	ug/L			
Polynuclear Aromatic Hydrocarbons Analysis Date: 03/24/08	Method: 8270C		Preparation Method 3510C Preparation Date: 03/24/08			
Acenaphthene	. < 10	10	ug/L			
Acenaphthylene	< 10	10	ug/L			
Anthracene	< 5	5	ug/L			
Benzo(a)anthracene	6.69	0.13	ug/L			
Benzo(a)pyrene	9.8	0.2	ug/L			
Benzo(b)fluoranthene	12.2	0.18	ug/L			
Benzo(k)fluoranthene	8.89	0.17	ug/L			
Benzo(ghi)perylene	9,7	0.4	ug/L			
Chrysene	15.3	1.5	ug/L			
Dibenzo(a,h)anthracene	1.9	0.3	ug/L			
Fluoranthene	33	2	ug/L			
Fluorene	< 2	2	ug/L			
Indeno(1,2,3-cd)pyrene	9.8	0.3	ug/L			
Naphthalene	< 10	10	ug/L			
Phenanthrene	8	5	ug/L			
Pyrene	22	2	ug/L			

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First



IL ELAP / NELAC Accreditation # 100292

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Analytical Report

TRANS-ENVIRONMENTAL LTD. Client:

Pyrene

Date Collected: 03/17/08 Time Collected: 9:45 Not Provided

Project ID: MW-3A Date Received: 03/20/08 Sample ID: 8-1098-002 Date Reported: 03/27/08 Sample No:

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 03/21/08	Method: 5030B/82	260B			
Benzene	•	< 5.0	5.0	ug/L	
Ethylbenzene	•	< 5.0	5.0	ug/L	
Toluene	•	< 5.0	5.0	ug/L	
Xylene, Total	. •	< 5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 03/24/08	Method: 8270C		Preparation Method 3510C Preparation Date: 03/24/08		
Acenaphthene	•	< 10	10	ug/L	
Acenaphthylene	•	< 10	10	ug/L	
Anthracene	•	< 5	5	ug/L	
Benzo(a)anthracene		0.22	0.13	ug/L	
Benzo(a)pyrene	•	< 0.2	0.2	ug/L	
Benzo(b)fluoranthene	•	< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		0.21	0.17	ug/L	
Benzo(ghi)perylene	•	< 0.4	0.4	ug/L	
Chrysene	•	< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	•	< 0.3	0.3	ug/L	
Fluoranthene	•	< 2	2	ug/L	
Fluorene	•	< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene	•	< 0.3	0.3	ug/L	
Naphthalene	•	< 10	10	ug/L	
Phenanthrene	•	< 5	5	ug/L	
_		_	_	_	

< 2

2

ug/L

Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Not Provided

Sample ID: MW-5

Project ID:

Sample No: 8-1098-003

Date Collected: 03/17/08

Time Collected: 10:30

Date Received: 03/20/08

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 03/21/08	Method: 5030B/82	260B	- •		
Benzene		18.4	5.0	ug/L	
Ethylbenzene		63.9	5.0	ug/L	
Toluene	•	< 5.0	5.0	ug/L	
Xylene, Total		17.9	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 03/24/08	Method: 8270C	Preparation Method 3510C Preparation Date: 03/24/08			
Acenaphthene	•	< 10	10	ug/L	
Acenaphthylene	•	< 10	10	ug/L	
Anthracene	•	< 5	5	ug/L	
Benzo(a)anthracene		0.32	0.13	ug/L	
Benzo(a)pyrene		0.4	0.2	ug/L	
Benzo(b)fluoranthene		0.35	0.18	ug/L	
Benzo(k)fluoranthene		0.21	0.17	ug/L	
Benzo(ghi)perylene	•	< 0.4	0.4	ug/L	
Chrysene	•	< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	•	< 0.3	0.3	ug/L	
Fluoranthene	•	< 2	2	ug/L	
Fluorene	•	< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene	•	< 0.3	0.3	ug/L	
Naphthalene	•	< 10	10	ug/L	
Phenanthrene	•	< 5	5	ug/L	
Pyrene	•	< 2	2	ug/L	





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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Not Provided

Sample ID: MW-7

Project ID:

Sample No: 8-1098-004

Date Collected: 03/17/08

Time Collected: 11:10

Date Received: 03/20/08 **Date Reported:** 03/27/08

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 03/21/08	Method: 5030B/	3260B			
Benzene		< 5.0	5.0	ug/L	
Ethylbenzene		< 5.0	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		< 5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 03/24/08	Method: 8270C			Method 351 Date: 03/24/08	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		< 10	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	



Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Not Provided

Sample ID: MW-8

Project ID:

Sample No: 8-1098-005

Date Collected: 03/17/08

Time Collected: 12:00

Date Received: 03/20/08 Date Reported: 03/27/08

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 03/25/08	Method: 5030B/8	260B			
Benzene		< 5.0	5.0	ug/L	
Ethylbenzene		197	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		112	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 03/24/08	Method: 8270C			Method 351 Date: 03/24/08	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		91	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	



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1600 Shore Road, Suite				City:	121	165	PA	ek_					State://		Zip:	:////
Naperville, Illinois 6056 Phone: (630) 778-1200				Phon	ie:8/5	-88	5-48	140	Fax:				e-mail:		<u> </u>	
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Matrix Codes: S -	Soil W = Water O =	Other		Y;	VY -											
Date/Time Taken	Sample Descri		Matrix	ĺ						(Comme	nts		Lab I.D.
3-17-08 9:00	MW-6	<u> </u>	W	V	1		†	†				Ì			9	1098-00
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11 /2 00	MW-8				<u> </u>	-	┼	ļ. —	-			-				003
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FOR LAB USE ONLY:																
	I-6ºC Yes No	ºC Sa	mple Refrig	erated:	Yes	<u>y</u>		ontaine	rs Recei	ved Pre:	served:	Yes	□ No			
Received within 6 hrs. of Ice Present: Yes No.		50	efrigerator Te 135 Vials Fro	zen: Ye	s No	X V	•									
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Relinquished By:		Date/T					eived B	_	<u> </u>	0	1.		Date/Time			

Analytical Tabular Summary Blake Oil Company, Kirkland Quickstop Groundawater Results

TRANS-ENVIRONM	ENTAL I	LTD.			•			
Not Provid	ed		MW-6	MW-3A	MW-5	MW-7	MW-8	Groundwater
Date	of Sample	Collection:	3/17/2008	3/17/2008	3/17/2008	3/17/2008	3/17/2008	Remediation
Time	of Sample	Collection:	9:00 AM	9:45 AM	10:30 AM	11:10 AM	12:00 PM	Objective Class
First Environ	nental La	b. Numbers:	8-1098-001	8-1098-002	8-1098-003	8-1098-004	8-1098-005	I
Contaminants of Concern:								
BTEX Organic Compounds (5030B/82	260B)						
Date Analyzed:	Units	Rep. Limit	3/21/2008	3/21/2008	3/21/2008	3/21/2008	3/25/2008	
Benzene	mg/L	0.0050	ND	ND	000000162	ND	ND	
Ethylbenzene	mg/L	0.0050	ND	ND	0.0639	ND	0.197	0.7
Toluene	mg/L	0.0050	ND	ND	ND	ND	ND	1.0
Xylene, Total	mg/L	0.0050	ND	ND	0.0179	ND	0.112	10.0
Polynuclear Aromatic Hydro								
Date Analyzed:	Units	Rep. Limit	3/24/2008	3/24/2008	3/24/2008	3/24/2008	3/24/2008	
Acenaphthene	mg/L	0.010	ND	ND	ND	ND	ND	0.42
Acenaphthylene	mg/L	0.010	ND	ND	ND	ND	ND	
Anthracene	mg/L	0.005	ND	ND	ND	ND	ND	2.1
Benzo(a)anthracene	mg/L	0.00013		<u> </u>	Outrant	ND	ND	COCCOCI
Benzo(a)pyrene	mg/L	0.0002	0.0030	ND		ND	ND	OLOUD?
Benzo(b)fluoranthene	mg/L	0.00018	0.00022	ND		ND	ND	L COMOLS I
Benzo(k)fluoranthene	mg/L	0.00017		0.00021	0.00021	ND	ND	COUNTY
Benzo(ghi)perylene	mg/L	0.0004	0.0097	ND	ND	ND	ND	
Chrysene	mg/L	0.0015	OFFICE OF THE PARTY OF THE PART	ND	ND	ND	ND	coming 📑
Dibenzo(a,h)anthracene	mg/L	0.0003	COO	ND	ND	ND	ND	0.0003
Fluoranthene	mg/L	0.002	0.033	ND	ND	ND	ND	0.28
Fluorene	mg/L	0.002	ND	ND	ND	ND	ND	0.28
Indeno(1,2,3-cd)pyrene	mg/L	0.0003	THE T	ND	ND	ND	ND	OUTUE _
Naphthalene	mg/L	0.010	ND	ND	ND	ND	0.091	0.14
Phenanthrene	mg/L	0.005	0.008	ND	ND	ND	ND	
Pyrene	mg/L	0.002	0.022	ND	ND	ND	ND	0.21

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Environmental
Laboratories, Inc.

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February 19, 2009

Mr. Matt Warneke
TRANS-ENVIRONMENTAL LTD.
8184 Starwood Drive
Loves Park, IL 61111

Project ID: TE08-181

First Environmental File ID: 9-0507 Date Received: February 13, 2009

Dear Mr. Matt Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002045: effective 05/14/08 through 02/28/09.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200 or stan@firstenv.com.

Sincerely,

Stan Zaworski Project Manager



Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

TRANS-ENVIRONMENTAL LTD.

Project ID:

TE08-181

First Environmental File ID: 9-0507
Date Received: February 13, 2009

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<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
В	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
C	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
Н	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	w	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.

Method Comments

Lab Number

Sample ID

Comments:

9-0507-005

MW-8

Polynuclear Aromatic Hydrocarbons

Surrogate recovery outside control limits; high bias due to matrix interference.



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

TE08-181

Sample ID: MW-6

Project ID:

Sample No: 9-0507-001

Date Collected: 02/12/09

Time Collected: 10:06

Date Received: 02/13/09

Analyte	R	esult	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 02/16/09	Method: 5030B/8260	В			_
Benzene	< 5	5.0	5.0	ug/L	
Ethylbenzene	< 5	5.0	5.0	ug/L	
Toluene	< 5	5.0	5.0	ug/L	
Xylene, Total	< 5	5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 02/16/09	Method: 8270C		Preparation Preparation I		
Acenaphthene	< 1	10	10	ug/L	
Acenaphthylene	< 1	10	10	ug/L	
Anthracene	< 5	5	5	ug/L	
Benzo(a)anthracene	1	1.00	0.13	ug/L	
Benzo(a)pyrene	3	3.2	0.2	ug/L	
Benzo(b)fluoranthene	3	3.49	0.18	ug/L	
Benzo(k)fluoranthene	3	3.12	0.17	ug/L	
Benzo(ghi)perylene	3	3.5	0.4	ug/L	
Chrysene	2	2.8	1.5	ug/L	
Dibenzo(a,h)anthracene	(0.7	0.3	ug/L	
Fluoranthene	6	5	2	ug/L	
Fluorene	< 2	2	2	ug/L	
Indeno(1,2,3-cd)pyrene	3	3.3	0.3	ug/L	
Naphthalene	< 1	10	10	ug/L	
Phenanthrene	< 5	5	5	ug/L	
Pyrene	3	3	2	ug/L	



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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

TE08-181

Sample ID: MW-3A

Project ID:

Sample No: 9-0507-002

Date Collected: 02/12/09

Time Collected: 10:30

Date Received: 02/13/09

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 02/16/09	Method: 5030B/	8260B			
Benzene		< 5.0	5.0	ug/L	
Ethylbenzene		< 5.0	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		< 5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 02/16/09	Method: 8270C			Method 351 Date: 02/16/09	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		0.37	0.13	ug/L	
Benzo(a)pyrene		0.4	0.2	ug/L	
Benzo(b)fluoranthene		0.36	0.18	ug/L	
Benzo(k)fluoranthene		0.46	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		3	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		0.3	0.3	ug/L	
Naphthalene		< 10	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	

<u> Electronic Filing - Received, Clerk's Office : 06/15/2016</u>



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Analytical Report

TRANS-ENVIRONMENTAL LTD. Client:

Date Collected: 02/12/09

Project ID:

Time Collected: 11:20

Sample ID:

TE08-181

MW-5

Date Received:

02/13/09

Sample No:

9-0507-003

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 02/16/09	Method: 5030B/8	260B			
Benzene		12.2	5.0	ug/L	
Ethylbenzene		57.0	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		149	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 02/16/09	Method: 8270C			Method 351 Date: 02/16/09	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		30	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	



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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Project ID: TE08-181

Sample ID: MW-7

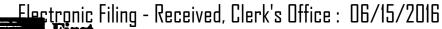
Sample No: 9-0507-004

Date Collected: 02/12/09

Time Collected: 12:00

Date Received: 02/13/09

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 02/16/09	Method: 5030B/	3260B			
Benzene		< 5.0	5.0	ug/L	
Ethylbenzene		< 5.0	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		< 5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 02/16/09	Method: 8270C			Method 351 Date: 02/16/09	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene		< 10	10	ug/L	
Phenanthrene		< 5	5	ug/L	
Pyrene		< 2	2	ug/L	





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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Project ID: TE08-181

Sample ID: MW-8

Sample No: 9-0507-005

Date Collected: 02/12/09

Time Collected: 12:40

Date Received:

Date Reported: 02/19/09

02/13/09

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 02/17/09	Method: 5030B/82	60B	<u> </u>		
Benzene	•	< 5.0	5.0	ug/L	
Ethylbenzene		515	5.0	ug/L	
Toluene	•	< 5.0	5.0	ug/L	
Xylene, Total		178	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 02/16/09	Method: 8270C			Method 351 Date: 02/16/09	
Acenaphthene		29	10	ug/L	
Acenaphthylene	•	< 10	10	ug/L	
Anthracene	•	< 5	5	ug/L	
Benzo(a)anthracene		0.32	0.13	ug/L	
Benzo(a)pyrene		0.2	0.2	ug/L	
Benzo(b)fluoranthene	•	< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		0.23	0.17	ug/L	
Benzo(ghi)perylene	<	< 0.4	0.4	ug/L	
Chrysene	•	< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	•	< 0.3	0.3	ug/L	
Fluoranthene	•	< 2	2	ug/L	
Fluorene		32	2	ug/L	
Indeno(1,2,3-cd)pyrene	•	< 0.3	0.3	ug/L	
Naphthalene		475	10	ug/L	
Phenanthrene		30	5	ug/L	
Pyrene		3	2	ug/L	

Page of pgs

rst Environments 0 Shore Road, Suite I perville, Illinois 60563 me: (630) 778-1200 • 1 Hr. Pager (700) 569-78) Pax: (630) 778-1233 07		Street Address: \$/84 STAR WOOD DE City: Le de s PARK State: / Zip: 6/1/1 Phone:\$15-885-4846 Fax\$/5-885-484/ e-mail: Send Report To: MATT INARKER Via: Fax Co-mail X Sampled By: STUC STAMALD												
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Project I.D.: 760 20. #.:	16 11			<u> </u>	w/*	7/							7		
Matrix Codes: S = S	oil W = Water O = Other		1	3/5											
Oute/Time Taken	Sample Description		Matrix										Comm	ents	Lab LE
2-12-09 10:	66 MW-6		W	<u>ن</u>	V						•			9-0507	100
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eived within 6 hrs. of o Present: Yes No		Refrig 5035	ole Refrig perator Te Vials Fro er Tempe	emperat zen: Ye	ure: # s No	<u>₩</u> .°C		ontaine	rs Recei	ved Pres	served:	Yes N	lo		
es and Special Instr	uctions:														

Attachment D

Monitoring Well Completion Reports (MW-11 to MW-14)



Illinois Environmental Protection Agency

LUST Well Completion Report

7

Incident No.: 891717

Site Name: Kirkland Quick Stop

Drilling Contractor: Trans Environmental

Driller: Cabeno Environmental Field Services

Drilling Method: Hollow Stem Auger-Geoprobe

Well No.: MW-11

Date Drilled Start: 26-Aug-09
Date Completed: 26-Aug-09

Geologist: Matt Warneke

Drilling Fluids (Type): None

Annular Space Details

Type of Surface Seal: Concrete

Type of Annular Sealant: Bentonite Chips

Type of Bentonite Seal (Granular, Pellet):

Bartoid Bentonite (Hole Plug) - Chips

Type of Sand Pack: Silica Sand - #5

Elevations - .01 ft.

_ Top of Protective Casing

_ Top of Riser Pipe

__ Ground Surface

Top of Annular sealant

Casing Stickup

Well Construction Materials

	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint		х	
Riser pipe above w.t.		1	
Riser Pipe below w.t.		√	
Screen		1	
Coupling joint screen to riser		Х	
Protective casing			

Measurements

to .01 ft (where applicable)

Riser Pipe Length	4.00	
Screen Length	10.00	
Screen Slot Size		
Protective casing length	8"	
Depth to water	11.00	
Elevation of water	· · ·	•
Free Product thickness	. 7	
Gallons removed (develop)	5	
Gallons removed (purge)	<u> </u>	
Other		

Completed by: Matt Warneke

Top of Seal

Total Seal Interval

____ Top of Sand

4' Top of Screen

Total Screen Interval

14' Bottom of Screen
15' Bottom of Borehole

The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day failure continues, a fine up to \$50,000.00 and imprisonment up to five years. This form has been approved by the Forms Management Center.

IL 532-2274 LPC 500 Dec-96



Illinois Environmental Protection Agency

LUST Well Completion Report

_			
		<u>•</u>	
penalty up to	enter.		

Incident No.: 891717

Site Name: Kirkland Quick Stop

Drilling Contractor: Trans Environmental

Driller: Cabeno Environmental Field Services

Drilling Method: Hollow Stem Auger-Geoprobe

MW-12 Well No.:

Date Drilled Start: 26-Aug-09

Date Completed:

26-Aug-09

Geologist: Matt Warneke

Drilling Fluids (Type): None

Annular Space Details

Type of Surface Seal: Concrete

Type of Annular Sealant: Bentonite Chips

Type of Bentonite Seal (Granular, Pellet):

Bartoid Bentonite (Hole Plug) - Chips

Type of Sand Pack: Silica Sand - #5

Elevations - .01 ft.

Top of Protective Casing

Top of Riser Pipe **Ground Surface**

Top of Annular sealant

Casing Stickup

Well Construction Materials

	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint			
Riser pipe above w.t.		/	
Riser Pipe below w.t.		V	
Screen		1	
Coupling joint screen to riser		Х	
Protective casing			

Measurements

to .01 ft (where applicable)

Riser Pipe Length	3.50	
Screen Length	10.00	
Screen Slot Size	•	
Protective casing length	8"	
Depth to water	11.00	
Elevation of water		
Free Product thickness		
Gallons removed (develop)	3	
Gallons removed (purge)		
Other		

Completed by: Matt Warneke

Top of Seal

Total Seai Interval

Top of Sand

Top of Screen

10'

Total Screen Interval

Bottom of Screen **Bottom of Borehole**

IL 532-2274 LPC 500 Dec-96

The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil \$25,000.00 for each day failure continues, a fine up to \$50,000.00 and imprisonment up to five years. This form has been approved by the Forms Management C.



Illinois Environmental Protection Agency

LUST Well Completion Report

The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day failure continues, a fine up to \$50,000.00 and imprisonment up to five years. This form has been approved by the Forms Management Center.

Incident No.: 891717

Site Name: Kirkland Quick Stop

Drilling Contractor: Trans Environmental

Driller: Cabeno Environmental Field Services

Drilling Method: Hollow Stem Auger-Geoprobe

Well No.: MW-13

Date Drilled Start: 26-Aug-09

Date Completed: 26-Aug-09

Geologist: Matt Warneke

Drilling Fluids (Type): None

Annular Space Details

Bartoid Bentonite (Hole Plug) - Chips

Type of Sand Pack: Silica Sand - #5

Well Construction Materials

	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint		×	
Riser pipe above w.t.		✓	
Riser Pipe below w.t.		1	
Screen		-	
Coupling joint screen to riser		×	
Protective casing	Ì		

Measurements

to .01 ft (where applicable)

Riser Pipe Length	4.00	
Screen Length	10.00	
Screen Slot Size		
Protective casing length	8"	
Depth to water	11.00	
Elevation of water		
Free Product thickness		_
Gallons removed (develop)	5	
Gallons removed (purge)		
Other		

Completed by: Matt Warneke

Elevations - .01 ft.

___ Top of Protective Casing

____ Top of Riser Pipe
Ground Surface

_ Top of Annular sealant

_ Casing Stickup

Top of Seal

Total Seal Interval

__ Top of Sand

4' Top of Screen

10' Total Screen Interval

15' Bottom of Screen
Bottom of Borehole

IL 532-2274 LPC 500 Dec-96



Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No.: 891717

Site Name: Kirkland Quick Stop

Drilling Contractor: Trans Environmental

Driller: Cabeno Environmental Field Services

Drilling Method: Hollow Stem Auger-Geoprobe

MW-14 Well No.:

Date Drilled Start: 26-Aug-09

Date Completed: 26-Aug-09

Geologist: Matt Warneke

Drilling Fluids (Type): None

Annular Space Details

Type of Surface Seal: Concrete

Type of Annular Sealant: Bentonite Chips

Type of Bentonite Seal (Granular, Pellet):

Bartoid Bentonite (Hole Plug) - Chips

Type of Sand Pack: Silica Sand - #5

Elevations - .01 ft.

Top of Protective Casing

Top of Riser Pipe

Ground Surface

Top of Annular sealant

Casing Stickup

Well Construction Materials

	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint		х	
Riser pipe above w.t.		/	
Riser Pipe below w.t.		√	
Screen		V	
Coupling joint screen to riser		×	
Protective casing			

Top of Seal

Total Seal Interval

Top of Sand

Top of Screen

Measurements

to .01 ft (where applicable)

Riser Pipe Length	3.00	
Screen Length	10.00	
Screen Slot Size		
Protective casing length	8"	
Depth to water	9.00	
Elevation of water		
Free Product thickness	·····	_
Gallons removed (develop)	5	
Gallons removed (purge)		
Other		

Total Screen Interval

13' Bottom of Screen **Bottom of Borehole**

Completed by: _Matt Warneke

IL 532-2274 LPC 500 Dec-96

The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day failure continues, a fine up to \$30,000.00 and imprisonment up to five years. This form has been approved by the Forms Management Center.

Attachment E

Analytical Tabular Summaries, Reports, CoCs, Lab Certifications (new GW data)

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). Faiture to disclose this information may result in a civil penalty of not to exceed \$10,000.00 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 filled, 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 Laboratory Certification for Chemical Analysis

A. Site Identification			
	IEMA	Incident # (6- or 8-digit): 891717 IEPA LPC# (10-digit):	0370305005
	Site N	Name: Kirkland Quickstop	
	Site /	Address (Not a P.O. Box): 411 W. Main Street	
	City:	Kirkland County: DeKalb	ZIP Code: 60146
	•	ing UST Technical File	
В.	Sam	ple Collector	
	l certi	ify that:	
	1.	Appropriate sampling equipment/methods were utilized to obtain representative samples.	(initial)
	2.	Chain-of-custody procedures were followed in the field.	(initial)
	3.	Sample integrity was maintained by proper preservation.	(initial)
	4.	All samples were properly labeled.	(initial)
C.	Lab	oratory Representative	
	l certi	ify that:	
	1.	Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms	59 (initial)
	2 .	Sample integrity was maintained by proper preservation.	Sharing (initial)
	3.	All samples were properly labeled.	Sy (initial)
	4.	Quality assurance/quality control procedures were established and carried out.	5√ (initial)

5.	Sample holding times were not exceeded.	جم (initial)
6.	SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.	gw/ (initial)
7.	An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).	名 <u>〜</u> (initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and Imprisonment for knowing violations.

Sample Collector	Laboratory Representative
Name: Matt Warneke	Name: Stan Zaworski
Title: Senior Project Manager	Title: Project Manager
Company: Trans Environmental, Ltd.	Company: First Environmental Laboratories
Address: 8184 Starwood Drive	Address: 1200 Shore Road
City: Loves Park	City: Naperville
State: IL	State: IL
ZIP Code: 61111	ZIP Code: 60563
Phone: (815) 885-4840	Phone: (630) 778-1200
Signature:	Signature:
Date:	Date: 10/31/1/
	. / \

Analytical Tabular Summary Kirkland Quick Stop 411 W. Main Street Kirkland, Illinois 60146 Laboratory Groundwater Results

TRANS-ENVIRONMEN	TAL LT	D.			··															
TE09-113	_			MW	'-11 <u> </u>			MW	-12			MV	/-13				MW-14			Class I
Date of	of Sample	Collection:	8/27/2009	2/16/2010	3/18/2011	9/7/2011	8/27/2009	2/16/2010	3/18/2011	9/7/2011	8/27/2009	2/16/2010	3/18/2011	9/7/2011	8/27/2009	2/16/2010	1/31/2011	3/18/2011	9/7/2011	(Groundwater
Time o	of Sample	Collection:	1:00 PM	12:30 PM	2:30 PM	7:55 AM	12:50 PM	11:30 AM	2:50 PM	8:45 AM	12:35 PM	10:45 AM	3:10 PM	8:20 AM	12:45 PM	10:00 AM	12:30 PM	3:30 PM	9:05 AM	Remediation
First Environn	nental Lab	. Numbers:	9-3637-001	10-0560-004	11-1101-001	11-4061-001	9-3637-002	10-0560-003	11-1101-002	11-4061-002	9-3637-003	10-0560-002	11-1101-003	11-4061-004	9-3637-004	10-0560-001	11-0431-001	11-1101-004	11-4061-003	Objective)
Contaminants of Concern:																				
BTEX Organic Compounds (503						,												·		
Date Analyzed:	Units	Rep. Limit	į	2/18/2010				2/18/2010	-	9/20/2011	8/31/2009	2/18/2010	3/23/2011	9/20/2011	8/31/2009	2/18/2010	2/11/2011	3/23/2011	9/20/2011	
Benzene	mg/L	0.005	ND	ND	ND	ND	ND_	ND	ND_	ND	ND	ND	ND	ND	0.0337	0.122	0.0595	0.0304	ND	0.005
Ethylbenzene	mg/L	0.005	0.0671	0.0681	ND	ND	ND_	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7
Toluene	mg/L	0.005	ND	ND	ND	ND	ND	ND_	ND	ND	ND	ND	ND	ND '	ND	ND	ND	ND	ND	11
Xylene, Total	mg/L	0.005	0.296	0.286	ND_	ND_	0.008	ND	ND	ND	0.0086	ND	ND	ND	0.0087	ND	ND	ND	ND	10
Polynuclear Aromatic Hydrocari																•				
Date Analyzed:	Units	Rep. Limit	9/2/2009	2/19/2010			9/2/2009	2/19/2010			9/2/2009	2/19/2010			9/2/2009	2/19/2010				
Acenaphthene	mg/L	0.01	ND_	ND	NS	NS	ND_	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS_	0.42
Acenaphthylene	mg/L	0.01	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS_	
Anthracene	mg/L	0.005	ND	ND	NS	NS	ND	ND_	NS	NS	ND	ND	NS	NS	ND _	ND	NS	NS	NS	2.1
Benzo(a)anthracene	mg/L	0.00013	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS_	NS_	NS_	0.00013
Benzo(a)pyrene	mg/L	0.0002	ND _	ND	NS	NS	ND	ND	NS_	NS	ND	ND	NS	NS NS	ND	ND _	NS	NS_	NS	0.0002
Benzo(b)fluoranthene	mg/L	0.00018	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND_	NS	NS_	NS_	0.00018
Benzo(k)fluoranthene	mg/L	0.00017	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND _	NS	NS_	NS	0.00017
Benzo(ghi)perylene	mg/L	0.0004	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	
Chrysene	mg/L	0.0015	ND.	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND _	NS	NS	NS	0.0015
Dibenzo(a,h)anthracene	mg/L	0.0003	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS_	0.0003
Fluoranthene	mg/L	0.002	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND _	NS	NS	NS	0.28
Fluorene	mg/L	0.002	ND	ND	NS_	NS_	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	0.28
Indeno(1,2,3-cd)pyrene	mg/L	0.0003	ND	ND	NS	NS_	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	0.00043
Naphthalene	mg/L	0.01	0.017	0.031	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	0.14
Phenanthrene	mg/L	0.005	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	
Pyrene,	mg/L	0.002	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	0.21



IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

September 03, 2009

Mr. Matt Warneke
TRANS-ENVIRONMENTAL LTD.
8184 Starwood Drive
Loves Park, IL 61111

Project ID: TE09-113

First Environmental File ID: 9-3637 Date Received: August 28, 2009

Dear Mr. Matt Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002205: effective 02/06/09 through 02/28/10.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200 or stan@firstenv.com.

Sincerely,

Stan Zaworski Project Manager <u> Flectronic Filing - Received, Clerk's Office : 06/15/2016</u>



IL ELAP / NELAC Accreditation # 100292

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Case Narrative

TRANS-ENVIRONMENTAL LTD.

Project ID:

TE09-113

First Environmental File ID: 9-3637
Date Received: August 28, 2009

			$\sigma = V$
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
В	Analyte detected in associated method blank.	L	LCS recovery outside control limits; low bias.
С	Identification confirmed by GC/MS.	М	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
Н	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	Т	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	w	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.

<u> Electronic Filing - Received, Clerk's Office : 06/15/2016</u>



First Environmental

Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

TE09-113

Sample ID: MW-11

Project ID:

Sample No: 9-3637-001

Date Collected: 08/27/09

Time Collected: 13:00

Date Received: 08/28/09

Date Reported: 09/03/09

Analyte		Result	R.L.	Units	Flags		
BTEX Organic Compounds Analysis Date: 08/31/09	Method: 5030B/82	60B			,		
Benzene	<	< 5.0	5.0	ug/L			
Ethylbenzene		67.1	5.0	ug/L			
Toluene	<	< 5.0	5.0	ug/L			
Xylene, Total	•	296	5.0	ug/L			
Polynuclear Aromatic Hydrocarbons Analysis Date: 09/02/09	Method: 8270C		Preparation Method 3510C Preparation Date: 09/02/09				
Acenaphthene	<	< 10	10	ug/L			
Acenaphthylene	<	10	10	ug/L			
Anthracene	<	5	5	ug/L			
Benzo(a)anthracene	<	0.13	0.13	ug/L			
Benzo(a)pyrene	<	0.2	0.2	ug/L			
Benzo(b)fluoranthene	<	0.18	0.18	ug/L			
Benzo(k)fluoranthene	<	0.17	0.17	ug/L			
Benzo(ghi)perylene	<	0.4	0.4	ug/L			
Chrysene	<	1.5	1.5	ug/L			
Dibenzo(a,h)anthracene	<	0.3	0.3	ug/L			
Fluoranthene	<	2	2	ug/L			
Fluorene	<	2	2	ug/L			
Indeno(1,2,3-cd)pyrene	<	0.3	0.3	ug/L			
Naphthalene		17	10	ug/L			
Phenanthrene	<	. 5	· 5	ug/L			
Pyrene		2	2	ug/L			



IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Date Collected: 08/27/09

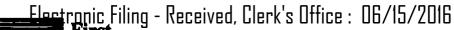
Project ID: TE09-113

Time Collected: 12:50

Sample ID: MW-12 **Sample No:** 9-3637-002

Date Received: 08/28/09 **Date Reported:** 09/03/09

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 08/31/09	Method: 5030B/82	260B			
Benzene	•	< 5.0	5.0	ug/L	
Ethylbenzene		< 5.0	5.0	ug/L	
Toluene	•	< 5.0	5.0	ug/L	
Xylene, Total	•	8.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 09/02/09	Method: 8270C			Method 351 Date: 09/02/09	
Acenaphthene	•	< 10	10	ug/L	
Acenaphthylene	•	< 10	10	ug/L	
Anthracene	•	< 5	5	ug/L	
Benzo(a)anthracene	•	< 0.13	0.13	ug/L	
Benzo(a)pyrene	•	< 0.2	0.2	ug/L	
Benzo(b)fluoranthene	•	< 0.18	0.18	ug/L	
Benzo(k)fluoranthene	•	< 0.17	0.17	ug/L	
Benzo(ghi)perylene	•	< 0.4	0.4	ug/L	
Chrysene	•	< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	•	< 0.3	0.3	ug/L	
Fluoranthene	•	< 2	2	ug/L	
Fluorene	•	< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene	•	< 0.3	0.3	ug/L	
Naphthalene	•	< 10	10	ug/L	
Phenanthrene	•	< 5	5	ug/L	
Pyrene	•	< 2	2	ug/L	





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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Date Collected: 08/27/09 **Time Collected:** 12:35

Project ID: TE09-113
Sample ID: MW-13

Date Received: 08/28/09

Sample No: 9-3637-003

Date Reported: 09/03/09

Analyte	Re	sult	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 08/31/09	Method: 5030B/8260E	3			
Benzene	< 5.	0	5.0	ug/L	
Ethylbenzene	< 5.0	0	5.0	ug/L	
Toluene	< 5.0	0	5.0	ug/L	
Xylene, Total	8.	6	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 09/02/09	Method: 8270C		Preparation Preparation I		
Acenaphthene	< 10)	10	ug/L	
Acenaphthylene	< 10)	10	ug/L	
Anthracene	< 5		5	ug/L	
Benzo(a)anthracene	< 0.	13	0.13	ug/L	
Benzo(a)pyrene	< 0.:	2	0.2	ug/L	
Benzo(b)fluoranthene	< 0.	18	0.18	ug/L	
Benzo(k)fluoranthene	< 0.	17	0.17	ug/L	
Benzo(ghi)perylene	< 0.4	4	0.4	ug/L	
Chrysene	< 1.5	5	1.5	ug/L	
Dibenzo(a,h)anthracene	< 0.3	3	0.3	ug/L	
Fluoranthene	< 2		2	ug/L	
Fluorene	< 2		2	ug/L	
Indeno(1,2,3-cd)pyrene	< 0.0	3	0.3	ug/L	
Naphthalene	< 10)	10	ug/L	
Phenanthrene	< 5		5	ug/L	
Pyrene	< 2		2	ug/L	



IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: TRANS-ENVIRONMENTAL LTD. Date Collected:

08/27/09

Project ID:

TE09-113

Time Collected:

12:45

Sample ID:

MW-14

Date Received:

08/28/09 09/03/09

Sample No:

9-3637-004

Date Reported:

Analyte		Result	R.L.	Units	Flags	
BTEX Organic Compounds Analysis Date: 08/31/09	Method: 5030B/	8260B	 - - -			
Benzene		33.7	5.0	ug/L		
Ethylbenzene		< 5.0	5.0	ug/L		
Toluene		< 5.0	5.0	ug/L		
Xylene, Total	•	8.7	5.0	ug/L		
Polynuclear Aromatic Hydrocarbons Analysis Date: 09/02/09	Method: 8270C		Preparation 1	Method 351 Date: 09/02/09	0C	
Acenaphthene		< 10	10	ug/L		
Acenaphthylene		< 10	10	ug/L		
Anthracene		< 5	5	ug/L		
Benzo(a)anthracene		< 0.13	0.13	ug/L		
Benzo(a)pyrene		< 0.2	0.2	ug/L		
Benzo(b)fluoranthene		< 0.18	0.18	ug/L		
Benzo(k)fluoranthene		< 0.17	0.17	ug/L		
Benzo(ghi)perylene		< 0.4	0.4	ug/L		
Chrysene		< 1.5	1.5	ug/L		
Dibenzo(a,h)anthracene		< 0.3	0.3	ug/L		
Fluoranthene		< 2	2	ug/L		
Fluorene		< 2	2	ug/L		
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L		
Naphthalene		< 10	10	ug/L		
Phenanthrene		< 5	5	ug/L		
Pyrene		< 2	2	ug/L		

Rev. 906

Electronic Filing - Received, Lier

Laboratories, Inc. Company Name: First Environmental Laboratories Zip: Co//11/ 1600 Shore Road, Suite D State: 11 City: Naperville, Illinois 60563 1 cmail muraneke Chansenouron Phone: 815 Phone: (630) 778-1200 • Fax: (630) 778-1233 Send Report To: Via: Fax e-mail E-mail: firstinfo@firstenv.com

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First
Environmental
Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

February 24, 2010

Mr. Matt Warneke
TRANS-ENVIRONMENTAL LTD.
8184 Starwood Drive
Loves Park, IL 61111

Project ID: TE10-022

First Environmental File ID: 10-0560 Date Received: February 17, 2010

Dear Mr. Matt Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002205: effective 02/06/09 through 02/28/10.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200 or stan@firstenv.com.

Sincerely,

Stan Zaworski Project Manager



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Project ID: T Sample ID: N

TE10-022 MW-14

Sample No:

10-0560-001

Date Collected: 02/16/10

Time Collected: 10:00

Date Received: 02/17/10

Analyte		Result	R.L.	Units	Flag
BTEX Organic Compounds Analysis Date: 02/18/10	Method: 5030B/8	260B			
Benzene		122	5.0	ug/L	
Ethylbenzene	•	< 5.0	5.0	ug/L	
Toluene	•	< 5.0	5.0	ug/L	
Xylene, Total	<u> </u>	< 5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 02/19/10	Method: 8270C		Preparation Preparation I		
Acenaphthene	•	< 10	10	ug/L	
Acenaphthylene	•	< 10	10	ug/L	
Anthracene	•	< 5	5	ug/L	
Benzo(a)anthracene	•	< 0.13	0.13	ug/L	
Benzo(a)pyrene	•	< 0.2	0.2	ug/L	
Benzo(b)fluoranthene	•	< 0.18	0.18	ug/L	
Benzo(k)fluoranthene	•	< 0.17	0.17	ug/L	
Benzo(ghi)perylene	•	< 0.4	0.4	ug/L	
Chrysene	•	< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	•	< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene	,	< 10	10	ug/L	
Phenanthrene		< 5	5	. ug/L	
Pyrene		< 2	2	ug/L	



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Project ID: TE10-022 Sample ID: MW-12

Sample ID: MW-12 **Sample No:** 10-0560-003

Date Collected: 02/16/10

Time Collected: 11:30

Date Received: 02/17/10

Date Reported: 02/24/10

Analyte		Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 02/18/10	Method: 5030B/8	260B			
Benzene		< 5.0	5.0	ug/L	
Ethylbenzene		< 5.0	5.0	ug/L	
Toluene		< 5.0	5.0	ug/L	
Xylene, Total		< 5.0	5.0	ug/L	
Polynuclear Aromatic Hydrocarbons Analysis Date: 02/19/10	Method: 8270C			Method 351 Date: 02/19/10	
Acenaphthene		< 10	10	ug/L	
Acenaphthylene		< 10	10	ug/L	
Anthracene		< 5	5	ug/L	
Benzo(a)anthracene		< 0.13	0.13	ug/L	
Benzo(a)pyrene		< 0.2	0.2	ug/L	-
Benzo(b)fluoranthene		< 0.18	0.18	ug/L	
Benzo(k)fluoranthene		< 0.17	0.17	ug/L	
Benzo(ghi)perylene		< 0.4	0.4	ug/L	
Chrysene		< 1.5	1.5	ug/L	
Dibenzo(a,h)anthracene	į	< 0.3	0.3	ug/L	
Fluoranthene		< 2	2	ug/L	
Fluorene		< 2	2	ug/L	
Indeno(1,2,3-cd)pyrene		< 0.3	0.3	ug/L	
Naphthalene	•	< 10	- 10	ug/L	
Phenanthrene	,	< 5	5	ug/L	
Pyrene		< 2	2	ug/L	

Electronic Filing A Received Stoop Reference /15/2016



First Environmental Laboratories

1600 Shore Road, Suite D Naperville, Illinois 60563 Phone: (630) 778-1200 e Fax: (630) 778-1233

Company Name: TRAWS Exulcomer	THE	
Street Address: 8184 STAR WEOD	·	
City: LOVES PARK	State: / C	Zip: 6111
Phone: 815-885-49 9 @ax:	e-mail:	
Send Report To: MATT WALKETE Vis	n: Pax	e-mail

rnone: (630) 778-1200 • Fax: (630) 778-1233 E-mail: firstinfo@firstenv.com	•		Report		Mn	-77	- N	UAL	AG;	Via: Pax	e-mail
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First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

February 14, 2011

Mr. Matt Warneke
TRANS-ENVIRONMENTAL LTD.
8184 Starwood Drive
Loves Park, IL 61111

Project ID: TE11-025

First Environmental File ID: 11-0431 Date Received: February 09, 2011

Dear Mr. Matt Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002468: effective 02/23/2010 through 02/28/2011.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200 or stan@firstenv.com.

Sincerely,

Stan Zaworski Project Manager



First
Environmental
Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

TRANS-ENVIRONMENTAL LTD.

Project ID:

TE11-025

First Environmental File ID: 11-0431
Date Received: February 09, 2011

Flag	Deerpron	Ling	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
В	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
С	Identification confirmed by GC/MS.	М	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
H	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	w	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

TE11-025

Sample ID: MW-14

Project ID:

Sample No: 11-0431-001

Date Collected: 01/31/11

Time Collected: 12:30
Date Received: 02/09/11

Analyte	Result	R.L.	Units	Flags				
BTEX Organic Compounds Analysis Date: 02/11/11	Method: 5030B/8260B							
Benzene	59.5	5.0	ug/L					
Ethylbenzene	< 5.0	5.0	ug/L					
Toluene	< 5.0	5.0	ug/L					
Xylene, Total	< 5.0	5.0	ug/L					

Electronic Filing - Respice Clark's RECORD / 15/2016

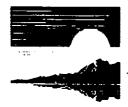


First Environmental Laboratories

1600 Shore Road, Suite D Naperville, Illinois 60563 Phone: (630) 778-1200 • Fax: (630) 778-1233

Company Name: TRANS FOR VIPE Street Address: 8184 STARWOO	martac
Street Address: 804 STARWO	od JR
City: Lance Vack	State: (Zip: 6/1/1
Phone: 8/5-885-4840Fax:	e-mail:
Send Report To:	Via: Fax e-mail
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First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

March 24, 2011

Mr. Matt Warneke
TRANS-ENVIRONMENTAL LTD.
8184 Starwood Drive
Loves Park, IL 61111

Project ID: TE11-025

First Environmental File ID: 11-1101 Date Received: March 22, 2011

Dear Mr. Matt Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002687: effective 03/01/2011 through 02/28/2012.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Bill Mottashed Project Manager



First
Environmental
Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

TRANS-ENVIRONMENTAL LTD.

Project ID: TE11-025

First Environmental File ID: 11-1101
Date Received: March 22, 2011

Flag	Description	Flag	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
В	Analyte detected in associated method blank.	L	LCS recovery outside control limits; low bias.
C	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F.	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
Н	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	w	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Date Collected: 03/18/11
Time Collected: 14:30

Project ID: TE11-025 Sample ID: MW-11 Time Collected: 14:30

Date Received: 03/22/11

Sample No: 11-1101-001

Analyte	Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 03/23/11	Method: 5030B/8260B			
Benzene	< 5.0	5.0	ug/L	
Ethylbenzene Ethylbenzene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
Xylene, Total	< 5.0	5.0	ug/L	



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client:

TRANS-ENVIRONMENTAL LTD.

Date Collected: 03/18/11

Project ID:

TE11-025

Time Collected: 14:50

MW-12 Sample ID:

Date Received:

03/22/11

Sample No:

11-1101-002

Analyte	Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 03/23/11	Method: 5030B/8260B			
Benzene	< 5.0	5.0	ug/L	
Ethylbenzene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
Xylene, Total	< 5.0	5.0	ug/L	



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

Date Collected: 03/18/11 Time Collected: 15:10

Project ID: TE11-025 Sample ID: MW-13

Date Received: 03/22/11

Sample No: 11-1101-003

Analyte	Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 03/23/11	Method: 5030B/8260B			
Benzene	< 5.0	5.0	ug/L	
Ethylbenzene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
Xylene, Total	< 5.0	5.0	ug/L	



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TRANS-ENVIRONMENTAL LTD.

TE11-025

Sample ID: MW-14

Project ID:

Sample No: 11-1101-004

Date Collected: 03/18/11

Time Collected: 15:30

Date Received: 03/22/11

Analyte	Result	R.L.	Units	Flags	
BTEX Organic Compounds Analysis Date: 03/23/11	Method: 5030B/8260B				
Benzene	30.4	5.0	ug/L		
Ethylbenzene	< 5.0	5.0	ug/L		
Toluene	< 5.0	5.0	ug/L		
Xylene, Total	< 5.0	5.0	ug/L		



First Environmental Laboratories

1600 Shore Road, Suite D

Naperville, Illinois 60563 Phone: (630) 778-1200 • Fax: (630) 778-1233

E-mail: firstinfo@firstenv.com IEPA Certification #100292

Company Name: Trans Environmental	UD	<u> </u>
Street Address: 8184 STARWOOD Draw		
City: Lover PARK	State:	Zip: 61111
Phone: 815-885-4840 Pax: 815-815-4841	e-mail:	
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Votes and Constal To		Freezer Tempe	reture		- U			,					
Antes and Obecial II	nstructions:	 						; 	-				
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Retinquished By:	Date Date	$m_{\rm m} 3/22$	Lu	_[[Rec	cived B	(سينا	4	174		Date/	Time -	3/20/11 1/4
Relinquished By:		/lime /	7			eived B		7	774		Date/		
Rev. wa	Date	·					,						



First
Environmental
Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

September 20, 2011

Mr. Matt Warneke
TRANS-ENVIRONMENTAL LTD.
8184 Starwood Drive
Loves Park, IL 61111

Project ID: TE11-025

First Environmental File ID: 11-4061 Date Received: September 16, 2011

Dear Mr. Matt Warneke:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002687: effective 03/01/2011 through 02/28/2012.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski | Project Manage



First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

TRANS-ENVIRONMENTAL LTD.

Project ID:

TE11-025

First Environmental File ID: 11-4061
Date Received: September 16, 2011

11.0			PARTY AND RESIDENT PROPERTY.
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
В	Analyte detected in associated method blank.	L	LCS recovery outside control limits; low bias.
С	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
H	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
j	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	Т	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	w	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client:

TRANS-ENVIRONMENTAL LTD.

Date Collected: 09/07/11

Project ID:

TE11-025

Time Collected: 7:55

Sample ID:

MW-11

Date Received: 09/16/11

Sample No:

11-4061-001

Analyte	Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 09/20/11	Method: 5030B/8260B			
Benzene	< 5.0	5.0	ug/L	
Ethylbenzene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
Xylene, Total	< 5.0	5.0	ug/L	



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Analytical Report

Client:

TRANS-ENVIRONMENTAL LTD.

Date Collected: 09/07/11

Project ID:

Time Collected: 8:45

TE11-025

Sample ID: MW-12 Date Received: 09/16/11

Sample No:

11-4061-002

Analyte	Result	R.L.	Units	Flag
BTEX Organic Compounds Analysis Date: 09/20/11	Method: 5030B/8260B			
Benzene	< 5.0	5.0	ug/L	
Ethylbenzene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
Xylene, Total	< 5.0	5.0	ug/L	



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Analytical Report

Client:

TRANS-ENVIRONMENTAL LTD.

Date Collected: 09/07/11

Project ID:

TE11-025

Time Collected: 9:05

Sample ID:

MW-14

Date Received: 09/16/11

Sample No:

11-4061-003

Date Reported: 09/20/11

Analyte	Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 09/20/11	Method: 5030B/8260B			
Benzene	< 5.0	5.0	ug/L	
Ethylbenzene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
Xylene, Total	< 5.0	5.0	ug/L	



First Environmental

Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client:

TRANS-ENVIRONMENTAL LTD.

Date Collected: 09/07/11

Project ID:

TE11-025

11-4061-004

Time Collected: 8:20

Sample ID:

MW-13

Date Received: 09/16/11

Sample No:

Date Reported: 09/20/11

Analyte	Result	R.L.	Units	Flags
BTEX Organic Compounds Analysis Date: 09/20/11	Method: 5030B/8260B			
Benzene	< 5.0	5.0	ug/L	,
Ethylbenzene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
Xylene, Total	< 5.0	5.0	ug/L	

Electronic Cita Negettes Fortist of 6/15/2016



First Environmental Laboratories

1600 Shore Road, Suite D Naperville, Illinois 60563

Phone: (630) 778-1200 • Fax: (630) 778-1233

E-mail: firstinfo@firstenv.com IRPA Certification #100292

Rev. see

	Page ot pgs
Company Name: Thans Environment	
Street Address: 8184 Stone 2000	

City: Laves Pork

State: FL Zip: [d]||

Phone: 815-885-4840 Fax: 815-885-4841 e-mail:

Send Report To: Mark Likewacke Via: Fax S e-mail S

Sampled By: 200-44 Through Care S

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Matrix Codes: S:	= Soil W = Water O = Other		//\	J/K	S						11-4061
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Received within 6 hrs.	of collection:	Refrigerator Te	mpera	ture:	<u>/</u> ec						
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Attachment F
Water Well Survey Information





Agency ID: 170000546014

Media File Type: LAND

Bureau ID: 0370305005

Site Name: Kirkland Quick Stop

Site Address1: 411 W Main St

Site Address2:

Site City: Kirkland

State: IL

Zip: 60146-

This record has been determined to be partially or wholly exempt from public disclosure

Exemption Type:

Exempt in Whole

Exempt Doc #: 9

Document Date: 6 /4 /2012

Staff: JKS

Document Description: CACR: ATTACHMENT F

Category ID: 21A

Category Description:

LEAKING UST TECHNICAL

Exempt Type: Exempt in Whole

Permit ID:

Date of Determination:

8 /6 /2012

Attachment G
PE Certification Form

Electronic Filing - Received, Clerk's Office: D6/15/2016

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (416 ILCS 5/4, 5/57 - 57.17). Fellure to disclose this information may result in a civil pensity of not to exceed \$10,000.00 for the violation and an additional civil pensity 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 Licensed Professional Engineer Certification**

A.	Site Identification			
	IEMA Incident # (6- or 8-digit): 89171	7	_ IEPA LPC#	(10-digit): 0370305005
	Site Name: Kirkland Quickstop		<u> </u>	
	Site Address (Not a P.O. Box): 411 V	V. Main Si	treet	
	City: Kirkland Co	ounty: <u>De</u>	Kalb	ZIP Code: 60046
	Leaking UST Technical File			
В.	Certification			
	were conducted under my supervision Licensed Professional Engineer or Licensed Professional Engineer or Licensed Professional Engineer or Licensed Professional Engineer or Licensed Professional Engineer or Licensed Professional Engineer or Licensed Professional Engineer of Lice	ensed Pro ents were described Protection s and pra- l am awar the Illinoi	ofessional Geo e prepared und in this plan, bu n Act [415 ILCS ctices of my pro there are sig s EPA, includir	logist and reviewed by me; that this er my supervision; that, to the best udget, or report has been completed 5.5], 35 III. Adm. Code 731, 732, or ofession; and that the information nificant penalties for submitting ag but not limited to fines,
	Licensed Professional Engine	er •		L.P.E. Seal
	Name: Cristopher Proctor		_	
FOR	Company: Trans Environmental, Ltd.		_	
	Address: 8184 Starwood Drive		_	E OF ILLIA
	City: Loves Park		_	THE STATE OF THE S
	State:IL	<u>.</u> .	-	CRISTOPHER &
	ZIP Code: 61111		<u> </u>	PROCTOR 54320
	Phone: <u>(815) 885-4840</u>		_	
	III. Registration No.: <u>54320</u>		7	* CRISTOPHER * PROCTOR 54320
	License Expiration Date: 11/30/13	_		OONAC
	Cianation \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1001	$a\lambda$	

Attachment H

Owner/Operator Property Summary

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 (LCS 5/4, 6/57 - 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 (LCS 5/42). Any person who knowingly makes a fater material state material state in a representation in any label, maritaked 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 (LCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program Property Owner Summary

A.	Site	Identification										
	IEMA	Incident # (6- or 8-digit): 891717										
	Site N	Name: Kirkland Quickstop										
	Site A	Site Address (Not a P.O. Box): 411 W. Main Street										
	City:	Kirkland County: DeKalb ZIP Code: 60046										
	Leaki	ing UST Technical File										
В.	may : prope No Fu Failui	neered barriers, institutional controls, and other use restrictions, if any, proposed for this site not be implemented without approval by the title holder(s) of record for the above-named arty or the agent(s) of such person(s). These controls and restrictions will be identified in the urther Remediation (NFR) Letter, which must be recorded in the chain of title for the property re to maintain these controls is grounds for voidance of the NFR Letter. Ventive, Engineering, and Institutional Controls and Land Use										
		itations										
	The f	ollowing controls and restrictions are proposed for the above-named site:										
	Z	Industrial/commercial land use limitation;										
	Ø	On-site groundwater restriction prohibiting the use of groundwater beneath the site as a potable water supply;										
		An engineered barrier: Duilding, asphalt/concrete, or other										
		(description)										
		Groundwater ordinance: with a MOU, without a MOU;										
	\square	Construction worker caution notification;										
		Other:										
		None (There are no proposed institutional controls other than the NFR Letter.)										

I hereby affirm that I have reviewed the attached report entitled and dated	CACR Report and that I accept the
and dated	No Further Remediation Letter
Name of Property Owner: Blake Oil Company	
Name of Officer or Agent: <u>John Blake</u>	
Mailing Address: 401 Main Street	
City: Kirkland	
State:Illinois	
ZIP Code: 60146	
Signature:	
Date:	
Site Description	
Real Estate Tax/Parcel Index Number: _0126207005	

E 1/2 OF LOTS 6 & 11, BLOCK 7

Attachment I

TACO Tier 2 Modeling

Risk Based Corrective Action Equations

RBCA Peremeters

RBCA Default Value
RBCA Optional Value
Value from RBCA Equation
Site Specific Value
Chemical Specific Value
IRIS / HEAST Value

Constituent of Concern: Benzene

Equations	Symbol	Parameter	Units	Source	Parameter Value(s)	Values Used	Notes
R1, R9, R25	AT.	Averaging Time for	уг	RBCA	70	70	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Carcinogens	·		Residential (30)		
	AT _e	Averaging Time for Noncercinogens	уг	RBCA	Industrial/Commercial (25) Construction Worker (0.115)	25	
R1, R2, R9, R10, R25_	BW	Adult Body Weight	kg	RBCA	70	70	
R13, R26	Ceturon	Concentration of Contaminant in Groundwater at Source	mg/L	Fleid Measurement	Site-Specific	0.0304	alte data from MW-14
R13, R26	C _∞	Concentration of Conteminent in Groundweter at Distance (x) from Source	mg/L	Equation R26	Calculated Value	0.004832639	
R13, R1 5	C ⁰⁵ /C******	Steedy-State Attenuation Along Centerline of a Dissolved Plume		Equation R15	Calculated Value	0.106579807	
R4	đ	Lower Depth of Surficial Soll Zone	cm	Field Measurement	100 (or) Site-Specific (not to exceed 100)	100.00	used default value
R6	D#	Diffusion Coefficient in Air	cm²/s	TACO Appendic C, Table E	Chemical-Specific	0.088	Benzene
R6	D	Diffusion Coefficient in Weter	cm²/s	TACO Appendic C, Table E or Chemistry & Physics Handbook	Chemical-Specific	9. 80E-0 6	Benzene
R3, R6, R11	D.	Effective Diffusion Coefficient in Soil Based on Vapor-Phese Concentration	cm²/s	Equation R6	Calcutated Value	7.56187E-05	
R1, R2, R9, R10, R25	ED	Exposure Duration	yr	RBCA	Residential (30) Industrial/Commercial (25) Construction Worker (1)	26	
R1, R2, R9, R10, R25	타	Exposure Frequency	d/yr	RBCA	Residential (350) Industrial/Commercial (250) Construction Worker (30)	250	
R15, R26	erf	Error Function	unitiess	TACO Appendix C, Table G	Mathematical Function	1	
R20 (L	Organic Curbon Content of Soil	Q/Q	RBCA (or) Field Measurement (See TACO Appendix C, Table F)	Surface Soil (0.006) Subsurface Soil (0.002) or Site-Specific	0.002	default
R13	GW _{oump}	Groundwater Objective at the Compliance Point	:mg/L	Appendix B, Table E, 35 IAC 620, Subpart F or Equation R25	Site-Specific	0.005	Benzene
R12, R13	GW _{entree}	Groundwater Concentration at Source	mg/L	Equation R13	Calculated Value	3.15E-02	
R3, R6, R11, R14	н	Henry's Law Constant	urittess	TACO Appendix C, Table E	Chemical-Specific	0.228	Benzene
R19, R24	i	Hydraulic Gradient	om/om (unitiess)	Field Measurement (See TACO Appendix C, Table F)	Site-Specific	0.0282	site data
R14	I	Infiltration Rate	cm/yr	RBCA	30	30	
R1, R2, R9, R10	iR _{er}	Daily Outdoor Inhelation Rate	m³/d	RBCA	20	20	
R1, R2	IR _{est}	Soil ingestion Rate	mg/d	RBCA	Residential (100) Industrial/Commercial (50) Construction Worker (480)	60	
R25	IR _w	Daily Water Ingestion Rate	T/4	RBCA	Residential (2) Industrial/Commercial (1)	1	
R19	ĸ	Aquiter Hydraulic Conductivity	cm/d	Field Measurement (See TACO Appendix C, Table F)	Site-Specific	7.6576	from testing
R24	κ	Aquifer Hydraulic Conductivity	спиуг	Field Measurement (See TACO Appendix C, Table F)	Site-Specific	2795.024	from testing
F20	K _{so}	Organic Carbon Partition Coefficient	cm²/g (or) L/kg	TACO Appendix C, Table E or TACO Appendix C, Table I	Chemical-Specific	58.90	Benzene
R3, R11, R14, R20	k,	Soil-Water Sorption Coefficient	(apan)(apan)	Equation R20	Calculated Value	0.12	
744		Depth to Subsurface Soll	CIT D	RBCA	100	100	
R11	4	Sources			<u> </u>		
	L, LF_	Sources Leaching Factor	(mg/L)/(mg/kg_m)	Equation R14	Calculated Value	2.611083	· -

Risk Based Corrective Action Equations

RBCA Perameters

RBCA Default Value RBCA Optional Value Value from RBCA Equation Site Specific Value Chemical Specific Value IRIS / HEAST Value

Constituent of Concern: Benzene

Symbol	Parameter	Units	Source	Parameter Value(s)	Values Used	Notes
Pe	Particulate Emission Rate	g/cm²-s	RBCA	6.9 x 10 ⁻¹⁴	6.90E-14	
RAF _d (votaties)	Dermal Relative Absorption Factor	unitiess	RBCA	0.5	0.5	
RAF ₄ (PNAs)	Dermal Relative Absorption Factor	unitiess	RBCA	0.05	0.05	
RAF.	Oral Relative Absorption Factor	unitiess	RBCA	1.0	1.0	<u>-</u>
RBSL.	Carcinogenic Risk-Based Screening Level for Air	ug/m³	Equation R9	Chemical-, Media-, and Exposure Route-Specific	0.529926	
RBSL.	Noncercinogenic Risk-Based Screening Level for Air	ug/m³	Equation R10	Chemical-, Media-, and Exposure Route-Specific	43.946000	
RfD _t	Inhalation Rafarence Dose	mg/kg-d	IEPA (IRIS/HEAST)	Toxicological-Specific	8.60E-03	Benzene
RfD.	Onal Reference Dose	mg/(kg-d)	IEPA (IRIS)	Toxicological-Specific (for construction worker use subchronic reference doses)	4.00E-03	Benzene
SA	Skin Surface Area	cm²/d	RBCA	3,160	3,160	
s.	Source Width Perpendicular to Groundwater Flow Direction in Vertical Plane	cm	Field Measament	Migration to GW = 200 (or) Site- Specific GW objective = Site-Specific	200	
S.	Source Width Perpendicular to Groundwater Flow Direction in Hortzontal Plane	cm	Field Measument	Site-Specific	4481	
SF,	Inhalation Cancer Slope Factor	(mg/kg-d) ⁻¹	IEPA (IRIS/HEAST)	Toxicological-Specific	2.70E-02	Bertzene
SF.	Orel Stope Factor	(mg/kg-d) ⁻¹	IEPA (IRISHEAST)	Texteological-Specific	5.50E-02	Benzene
THQ	Target Hazard Quotient	unitiess	RBÇA	1	1	
TR	Target Cencer Risk	unitiess	RBCA	Residential, Industrial/Commercial and Construction Worker = 10 ⁴ at the point of human exposure	1.002-03	
U	Specific Discharge	cm/d	Equation R19	Calculated Value	0.502196093	
u <u>.</u>	Average Wind Speed Above Ground Surface in Ambient Mixing Zone	cm/s	RBCA	225	225	
U _{ga} .	Groundwater Darcy Velocity	стуг	Equation R24	Celculated Value	78.8196768	
VF,	Volatization Factor for Surficial Solls Regarding Particulates	kg/m³	Equation R5	Calculated Value	4.67E-12	
VF	Volatization Factor (Subsurface Soils to Ambient Air)	(mg/m²_)/(mg/kg) or kg/m²	Equation R11	Calculated Value	3.57488E-05	
VF.	Volatization Factor for Surficial Solis	kg/m³	Equations R3 and R4	Calculated Value from Equation R3 or R4 (whichever is less)	1.28879E-05	
w	Width of Source Area Parallel to Direction to Wind or Groundwater Movement	cm	Field Measurement	Site-Specific	3048	elle data
•	Soil Moisture Content	o/o	RBCA (or) Field Measurement (See TACO Appendix C, Table F)	0.1 (or) Surface Soil - top 1 meter (0.1), Subsurface Soil - betow 1 meter (0.2) (or) Site- Specific	0.2	used defaul value
x	Distance along the Centerline of the Groundwater Plume Emansting from a Source. The x direction is the direction of groundwater flow.	cm	Field Measurement	Sits-Specific	1150	elte data
L	Longitudinal Dispensitivity	cm	Equation R16	Calculated Value	115.00	
a.	1					
a,	Transverse Dispersitivity	orn.	Equation R17	Catculated Value	38.33	
		cm cm	Equation R17 Equation R18	Calculated Value Calculated Value	38.33 5.75	·-
	RAF ₄ (votatiles) RAF ₂ (PNAs) RAF ₃ (PNAs) RAF ₄ (PNAs) RAF ₅ RBSL ₄ RfD ₆ SA S ₇ SF ₆ THQ U U VF ₇ VF W	RAF _d (volatiles) RAF _d (PNAs) RAF _d (PNAs) RAF _e Carcinogenic Risk-Based Screening Level for Air RBSL _{st} Carcinogenic Risk-Based Screening Level for Air RBSL _{st} Noncarcinogenic Risk-Based Science Width Perpendicular to Groundwater Flow Direction in Vertical Plane Signature Width Perpendicular to Groundwater Flow Direction in Horizontal Plane SF ₁ Inhistation Cancer Slope Factor THQ Target Hazard Quotient TR Target Cencer Risk U Specific Discherge Vist Cancer Risk U Specific Discherge Vist Cancer Risk U Specific Discherge U _{st} Average Wind Speed Above Groundwater Darcy Velochy Volatization Factor for Surficial Soils Regarding Perfoulates Vist Subsurface Soils to Ambient Air) VF _{ee} Volatization Factor for Surficial Soils Width of Source Area Planet in Oirection to Wind or Groundwater Plume Carcinomics of the Groundwater Plume Carcinomics of the Groundwater Plume Carcinomics of the Groundwater Plume Carcinomics of groundwater The RBSL _{st} Planeth Air Plume Basedon of groundwater	RAF4 (votables) Factor	RAF, (votatibles) Factor RAF, Dermal Relative Absorption protocol	RAF ₄ (votelline) Factor RAF ₄ (Privial) Factor RAF ₅ (Privial) Factor RAF ₆ (Privial) RAF ₆ (Privial) Factor RAF ₆ (Privial) RAF ₆ (Pr	RAF- (cotations) Pector

37.72

Risk Based Corrective Action Equations

RBCA Perameters

RBCA Default Value RBCA Optional Value Value from RBCA Equation Site Specific Value Chemical Specific Value

Constituent of Concern: Benzene

Equations	Symbol	Parameter	Units	Source	Parameter Value(s)	Values Used	Notes
R14	بية	Groundwater Miding Zone Thickness	ст	RBCA	200	200	
R3, R6, R11, R14, R21, R23	4	Volumetric Air Content in Vadose Zone Solis	cm³ _{se} /cm³ _{eol}	RBCA (or) Equation R21 - SEE NOT BELOW	Surface Soil - top 1 meter (0.28), Subsurface Soil - below 1 meter (0.13) (or) Gravel (0.05), Sand (0.14), Sit (0.16), Clay (0.17) (or) Calculated Value	0.07	
R3, R6, R11, R14, R21, R22, R23	a _m	Volumetric Weter Content in Vedose Zone Soils	om ³ min/om ³ mi	RBCA (or) Equation R22	Surface Soil - top 1 meter (0.15), Subsurface Soil - below 1 meter (0.30) (or) Gravel (0.20), Sand (0.18), Siit (0.16), Clay (0.17) (or) Calculated Value	0.36	
R6, R19, R21, R23	•r	Total Soli Porosity	cm³/cm³	RBCA (or) Equation R23 - SEE NOTE BELOW	0.43 (or) Gravel (0.25), Sand (0.32), Sitt (0.40), Clay (0.38) (or) Calculated Value	0.43	used default value
R15, R26	λ	First Order Degradation Constant	ď¹	TACO Appendix C, Table E	Chemical-Specific	0.0009	Benzene
য়	K	Pl		constant	3.1416	3.1416	
23, R4, R11, R14, 221, R22	A=A	Soil Bulk Density	g/am³	RBCA (or) Field Measurement (See TACO Appendix C, Table F)	1.5 (or) Gravel (2.0), Send (1.8), Sit (1.6), Clay (1.7) (or) Site-Specific	1.8	used default value
R21, R22	P _{av}	Water Density	g/cm ³	RBCA	1	1	
R3, R4	t	Averaging Time for Vapor	8	RBCA	9.46E+08	9.46E+08	

*Either 8₇ or 8_m must be estimated in order to calculate porosities. 8₇ and 8_m need to be known in order to calculate 6_m, and 8_m need to be know in order to calculate $\boldsymbol{\theta}_{m}$ is the only porosity parameter that is independently calculated.

All perameters, equations and calculations taken from 35 IAC 742, effective February 23, 2007.

Flux

RBCA GW Migration

RBCA Equations

Equations for Groundwater Migration

Equation R25 - Cleanup Objective for Carcinogenic Contaminants (mg/L)

 $(TR \times 8W \times AT_c \times 365d/yr) / (SF_o \times IR_w \times EF \times ED)$

				 	
Variable	Description	Units	Source	Value	Default Value(s)
TR	Target Cancer Risk	unitless	RBCA	1.00E-08	Residential, Industrial/Commercial and Construction Worker = 10-6 at the point of human exposure
BW	Adult Body Weight	kg	RBCA	70	70.00
AT _c	Averaging Time for Carcinogens	уг .	RBCA	70	70.00
SF _o	Oral Slope Factor	(mg/kg-d) ⁻¹	IEPA (IRIS/HEAST)	0.055	Toxicological-Specific
IR.,	Daily Water Ingestion Rate	L/d	RBCA	1	Residential (2) Industrial/Commercial (1)
EF	Exposure Frequency	d/yr	RBCA		Residential (350) Industrial/Commercial (250) Construction Worker (30)
ED	Exposure Duration	yr	RBCA	25	Residential (30) Industrial/Commercial (25) Construction Worker (1)

(TR x BW x AT_c x 365d/yr)

1.7885

(SFox IRwx EF x ED)

343.75

(TR x BW x AT_e x 365d/yr) / (SF_e x IR_w x EF x ED)

0.005202909

RBCA GW Migration

RBCA Equations

Equations for Groundwater Migration

Equation R26 - Dissolved Hydrocarbon Concentration along Centerline, C_(t) (mg/L_{mbs})

$$C_{(x)} = C_{\text{source}} \times \exp\left[(X / 2\alpha_x) \times (1 - (1 + ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - (1 + ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - (1 + ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - (1 + ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - (1 + ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - (1 + ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - (1 + ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times (1 - ((4\lambda \times \alpha_x) / U))^{0.5}) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X / 2\alpha_x) \times ((A\lambda \times \alpha_x) / U) \right] \times \exp\left[(X$$

Variable	Description	Units	Source	Value	Default Value(s)
C _(x)	Concentration of Contaminant in Groundwater at Distance (x) from Source	mg/L	Equation R26	4.83E-03	Calculated Value
Ceource	Concentration of Contaminant in Groundwater at Source	mg/L	Field Measurement	0.03	Site-Specific
x	Distance along the Centerline of the Groundwater Plume Emanating from a Source. The x direction is the direction of groundwater flow.	cm	Field Measurement	1150	Site-Specific
Ci _X	Longitudinal Dispersitivity	cm	Equation R16	115.00	Calculated Value
a.	First Order Degradation Constant	d⁻¹	TACO Appendix C, Table E	0.0009	Chemical-Specific
υ	Specific Discharge	cm/d	Equation R19	0.502196093	Calculated Value
S.	Source Width Perpendicular to Groundwater Flow Direction in Horizontal Plane	cm	Field Measement	4481	Site-Specific
8	Transverse Dispersitivity	сп	Equation R17	38.33	Calculated Value
S _d	Source Width Perpendicular to Groundwater Flow Direction in Vertical Plane	cm	Field Measement	200	Migration to GW = 200 (or) Site-Specific GW objective = Site-Specific
O _Z	Vertical Dispersitivity	cm	Equation R18	5.75	Calculated Value

RBCA GW Migration

RBCA Equations

Equations for Groundwater Migration

Equation R26 - Calculations for Dissolved Hydrocarbon Concentration along Centerline, C_(x) (mg/L_{mater})

$1+((4\lambda \times \alpha_x)/U))$	1.824379173
$(1+((4\lambda \times \alpha_x)/U))^{0.5}$	1.350695811
$(X / 2\alpha_x) \times (1 - (1 + ((4\lambda \times \alpha_x) / U))^{0.5}$	-1.753479054
$\exp [(X / 2\alpha_x) \times (1 - (1 + ((4\lambda \times \alpha_x) / U))^{0.5})]$	0.173170425
$(\alpha_y \times X)^{0.5}$	209.9803137
$[S_{\alpha}/(4\times(\alpha_y\times X)^{0.5})]$	5.335532131
erf [S _a / (4 x (a _y x X) ^{0.5})]	1
$(\alpha_2 \times X)^{0.5}$	81.31727984
$[S_d/(2\times(\alpha_z\times X)^{0.5})]$	1.229750924
erf $[S_d / (2 \times (\alpha_z \times X)^{0.5})]$	0.917988156
$C_{(x)} = C_{\text{source}} \times \exp [(X / 2\alpha_x) \times (1 - (1 + ((4\lambda \times \alpha_x) / U))^{0.5})] \times \text{erf} [S_w / (4 \times (\alpha_y \times X)^{0.5})] \times \text{erf} [S_d]$	$(2 \times (\alpha_z \times X)^{0.5})]$
	0.004832639

Figure 1
Sample Location Map

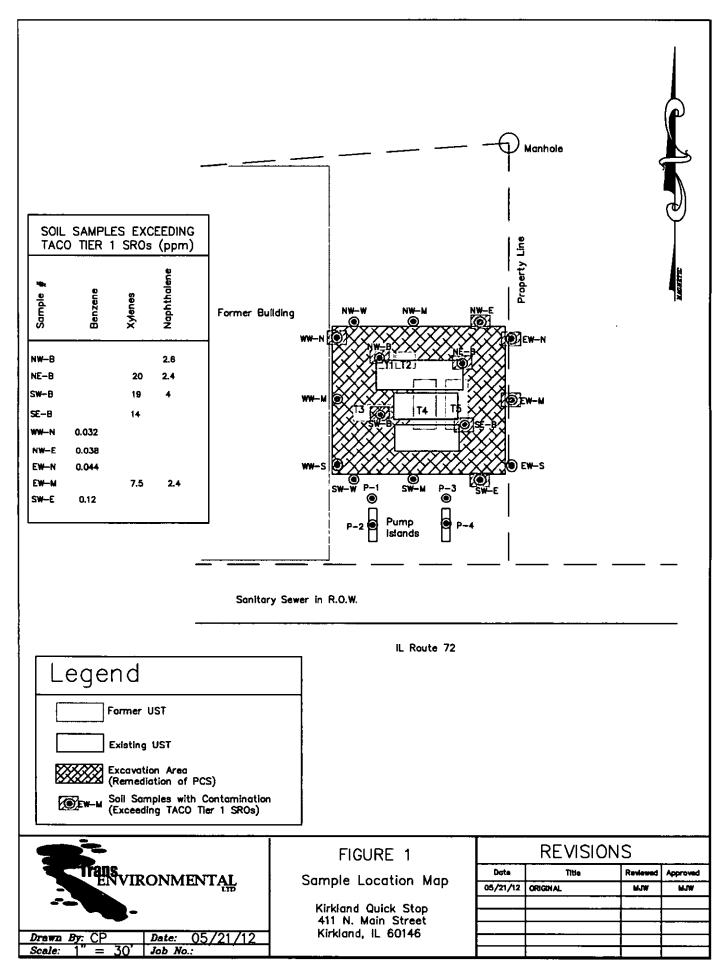
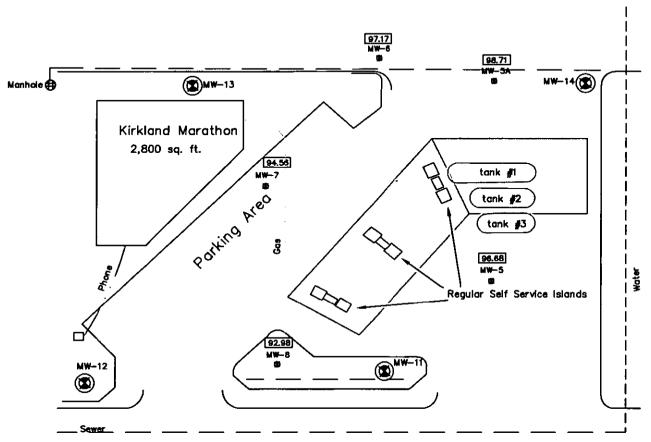


Figure 2 Site Map per 734.440





Main Street (Route 72)

New Monitoring Wells (August 2009); GW data as of 9/7/2011 (all 4 wells below TACO Tier 1 GROs)

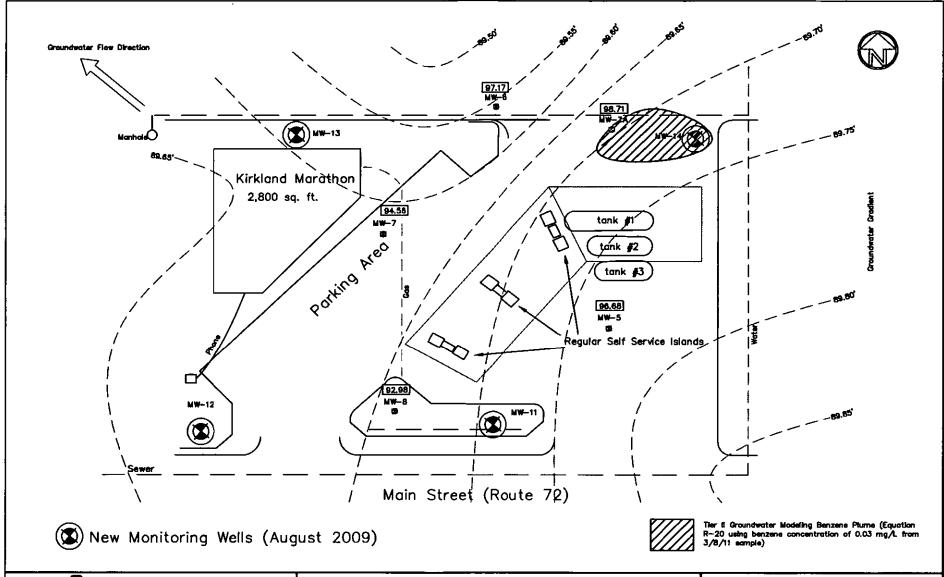


Drawn By: TJL Date: 06/29/06
Scale: 1" = 40' Job No.: TE06-05

FIGURE 2. GROUNDWATER PLUME MAP
Blake Oil Company / Kirkland Quickstop
411 W. Main Street
Kirkland, Illinois
IEMA# 891717

REVISIONS								
Date Title Reviewed Approved								
06/29/06	ORIGINAL	MJW	MJW					
08/25/09	PROPOSED NEW MWs	MJW	MJW					
		<u> </u>						
ļ								

Figure 3
Map Showing Tier II Groundwater Modeling
Plume



ENVIRONMENTAL
ENVIRONMENTAL
LITO

8184 STARWOOD DRIVE
LOVES PARK R. 61111
888/266-1544

 Drawn By: CP
 Date: 05/24/12

 Scale: 1" = 40'
 Job No.:

Figure 3. Tier II Groundwater Modeling Map Blake Oil Company / Kirkland Quickstop 411 W. Main Street Kirkland, Illinois IEMA# 891717

REVISIONS			
Date	Title	Reviewed	Approved
06/29/06	ORIGINAL	MTM	MJW
08/25/09	PROPOSED NEW MWs	MYM	MJW
05/24/12	Tier II GW modeling	MJW	MJW